

A

a'a lava

- basement, 183A6:38–40, 42–43; 7:31–35
- cracks, 163B3:31–32
- diagnostic features, 163B5:49
- groundmass, 163A5:57
- internal structure, 197A5:12–13, 46; 6:33
- lava flows, 152A9:126–127; 183A1:37; 4:16; 183B14:3–8
- lithology, 197A1:16
- macroscopic attributes, 183B14:23
- photograph, 183A6:97
- physical and magnetic properties, 163B4:41–49
- volcanic units, 197A6:11
- vs. pahoehoe lava classification, 183B14:20–21

AACT. *See* aluminum activation clay tool; aluminum logs

ablation

- Antarctica, 114B31:590
- volcanic ash, 198B18:7–8
- vs. sea-surface temperature, 188B14:32

ablation, glacial, shelf edge, 141A8:251–253

abrasion loss of weight

- hardness, 137/140B31:347–348
- vs. shore hardness, 137/140B31:349

abrupt contacts

- thickness, 161A8:367
- vs. depth, 161A8:366

absolane-buserite, manganese nodules, 138B40:807–810

absolute age

- biostratigraphy, 150B3:44–46; 5:69, 73, 75–78; 154B1:8–9
- carbonates, 150B17:320–321
- correlation, 177A5:44–45; 6:38
- deduced from magnetostratigraphy, 151A5:78
- strontium-derived, 150B17:326
- volcanic glass, 161B12:147–148
- volcanism, 157A2:16–17

See also geochronology; radiometric ages

absolute pole, rotations, 199B21:21

absorbance, vs. depth, 201B9:6

absorption

- phosphorus, 154B32:479–481
- vs. velocity, 158B25:348
- X-ray pole figure goniometry, 131B11:145

abyssal environment

- biostratigraphy, 182A8:19; 189A6:33
- indicators, 130B5:72–75
- ocean circulation, 210A1:32
- paleoenvironment, 181A7:25–26
- Upper Cretaceous, 129B12:232

abyssal facies, clay mineralogy, 131B28:347

abyssal hills

- morphology, 139A2:19–20
- sources of basalts, 136B9:116

abyssal plains

- age constraints, 204B3:4–5
- basement tectonics, 149B38:612–614
- deposition, 189A1:7
- geology, 157A1:5–10; 200A1:3–4

lithology, 173A9:273

ocean–continent transition, 149B47:723–724

sedimentation, 146A(1)7:374; 173A9:293

sorting, 146B(1)1:9

Acanthaceae, Site 717, 116B21:255

Acanthostyles, Site 795, 127/128B(1)30:542

Acanthoxeas, Site 795, 127/128B(1)30:542

Acanthstrongyles, Site 795, 127/128B(1)30:542

acarininids

Atlantic Ocean S subantarctic, 114A5:103; 6:170; 7:382

vs. depth, 198B9:14

acceleration

autocorrelation, 179B1:12–13

spectra, 179B1:11

vs. depth, 179B1:16–17

vs. time, 191A4:118

well-logging, 199A11:80

See also horizontal acceleration logs; normalized vertical tool acceleration logs

accelerometers, amplitude spectra, 179A5:21

accessory components

distribution, 188B4:35, 37

foraminifers, 188A4:110

sediments, 188A3:73–76, 191; 5:97; 188B4:10–12, 16–17, 19–20

accessory minerals

abundance vs. depth, 145A7:308

gabbros, 179B(synthesis):9–11

lithology, 155A5:130–131; 8:180–181, 183; 9:207–209; 10:248–249; 11:281; 195A3:13

petrography, 147A3:62–63

sediments, 146A(1)6:253; 155A13:391, 393–394

silty clay, 155A14:415–417

vs. depth, 160A5:96

accommodation space

guyots, 143B8:113

See also pore space

accreted facies

deformation, 190/196B9:1–15

lithology, 190A9:8–9

accretion

carbonate platforms, 194B2:5–7

Costa Rica Rift, 111B12:144–145

crust, 152A13:291; 152B41:515–516; 176A1:2–5;

176B(narrative):9–12; 185B1:5–6; 206A1:10–11; 209A1:6–12; 210B1:5

diagenesis, 141B11:160–161

drift deposits, 181A3:1–112

Exuma Sound, 101A9:356

geochemical profiles, 156B25:317

Izu-Bonin forearc, 125A5:81

Izu-Bonin-Mariana arc, 126B42:632

Izu collision zone, 190A1:3

Mariana forearc, 125B24:407–408

Meteor Rise, 114B2:32

New Hebrides island arc, 134B1:5–18; 2:21, 23, 28–30; 5:86–87

oceanic lithosphere, 153A1:5

paleogeography, 160B50:672–673

seafloor spreading, 209B1:30

- sediments, 131B19:235; 185A1:5
- stress regime, 131B18:225–226
- tectonics, 160A1:14–16; 190A2:2
- terrane, 146A(1):5–7
- See also* plate tectonics; tectonics
- accretion, flaky
 - formation and bacteria, 114B37:698
 - Site 699, 114B37:692–693, 699, 707–710
- accretion, oceanic crust
 - Galicia Bank N, 103B4:42
 - Galicia margin W, 103A1:9
 - ridges, 149B1:13
 - tectonics, 135A(1):4:95
- accretionary complexes
 - collision zones, 134B1:5–18
 - contact with continental crust, 112A1:5; 4:72–73; 7:109; 9:134–135; 14:364; 15:438–439; 17:597–598, 645
 - cross section, 134A9:223
 - deformation, 112B2:21–22
 - deposition, 204A11:7–9
 - dewatering, 134B34:605
 - emplacement, 160B54:736
 - gas transport, 204B15:1–52
 - geology, 160A10:337; 204B1:4–5
 - hydration, 125B1:9
 - interpretation, 134A9:250
 - Izu-Bonin-Mariana region, 125B1:3
 - lithology, 204A3:9–10
 - mud, 160A1:13–14; 160B45:587–588
 - mud volcanoes, 160B45:575–595; 50:665–680
 - Peru margin, 112A10:111, 118; 112B2:17
 - pore pressure, 134B32:571
 - reflectors, 141A2:15–17, 19
 - seamounts, 160B51:692–693
 - sediment mixing, 134B10:179–245
 - seismic profiling, 112A20:636–637; 204B1:28
 - seismic structure, 134B1:11–13
 - stages of development, 160B50:674
 - structural style, 134B23:417–429
 - subduction zones, 134A9:229–250
 - tectonics, 160A1:5; 160B50:673–675
 - transform faults, 159B5:47
 - water content, 134B30:536–537, 544–545
 - See also* plate tectonics; tectonics
- accretionary prism thickness
 - décollement zone, 171A_B3:8
 - protodécollement zone, 171A_B3:8
- accretionary prisms
 - acoustic anisotropy, 156B8:115–123
 - carbonate veins, 156B5:79–96
 - Cascadia margin, 146B(1):12:208
 - clay, 190/196B4:1–28; 204B7:5
 - deformation, 131B7:83–101; 9:123–133; 37:493–512
 - density, 171A_B3:8–10
 - dolomite, 201B13:10
 - drilling, 139A3:44
 - evolution, 190A1:27; 190/196B1:9–10
 - fluid flow, 131B37:487–492; 141B1:3–26; 29:364–365
 - fluid pressure, 156A1:4; 156B17:232–234
 - focused flow, 146A(1):11:423–424
 - frontal thrust, 146B(1):23:359–366
 - gas hydrates, 204B15:19–20
 - geochemical logs, 141B36:427–441
 - geochemistry, 156B13:171–182
 - growth, 131B27:331–341
 - heat flow, 131B37:475–486
 - hydraulic conductivity, 146B(1):17:281–289
 - hydrogeology, 131B29:373–374; 146B(1):18:291–297; 156B24:303–310
 - hydrothermal circulation, 168A1:7–10
 - Lima Basin, 112A11:129–130
 - magnetic anisotropy, 156B6:97–105
 - magnetic fabrics, 146B(1):14:242
 - Nankai Trough, 131A7:273–274
 - Peru margin, 112B41:631
 - Pisco Basin W, 112B27:460–461
 - pore fluids, 131B17:211–220; 34:423–425; 141B25:313–329
 - pore pressure, 156B9:125–135
 - porosity, 146B(1):20:313–335
 - pressure-temperature conditions, 146B(1):19:299–311
 - Salaverry Basin, 112B27:460–461
 - scaly fabric, 156B4:59–77
 - sedimentation, 131B26:319
 - sediments, 146A(1):11:421–426
 - seismic profiles, 156B20:255–275
 - strain, 131B11:144–155
 - stress, 131B8:103–122; 146B(1):22:349–358
 - structural geology, 131A1:8–9, 109–121; 146A(1):10:401–402; 156A6:114–116; 7:211, 213; 156B22:279–292
 - subduction zones, 125B21:373; 141B29:371; 146B(1):6:119
 - tectonics, 146A(1):10:399–419; 146B(1):2:42; 156A2:13–27; 171A_A1:5–6; 205A1:8–10
 - temperature, 156B18:239–245; 19:247–252
 - thermal data, 131B37:461–473
 - toe facies, 131A2:15–20; 131B27:334
 - undercompacted sequences, 117A11:360
 - Yaquina Basin, 112A7:72; 11:130
 - See also* accretionary wedges
- accretionary prisms, frontal, formation, 190A1:3
- accretionary prisms, upper, lithology, 190/196B4:4
- accretionary ridges
 - age constraints, 204B3:4–5
 - dewatering, 204B3:7
- accretionary wedges
 - age constraints, 204B3:4–5
 - Barbados Ridge, 110B14:217–224, 227; 15:231–241; 20:310
 - bottom-simulating reflection, 141B19:253–258
 - décollement zone, 190/196B12:4
 - defluidizing, 141A6:144
 - dewatering, 204B3:7
 - fluid-flow element transfer, 125A2:11–12
 - forearc basement, 141A6:139
 - growth, 146A(1):8:381–387
 - hydrate stability field, 141B18:251–252
 - hydrogeologic evolution, 141B20:273; 146B(1):7:137–148
 - lateral shortening, 131B4:45

- microstructures, 146B(1)13:217–232
Palawan-NW Sulu Basin, 124A2:37–38; 124B4:54;
9:121
sedimentation, 141A7:172–173; 146A(1)5:217–218;
6:293; 7:369, 374–375; 146B(1)2:43
sediments, 141B7:95–104
subduction, 123B8:167; 141B29:368, 371
tectonics, 146A(1)1:6
thermal overprinting, 141B4:59–76
Tiburon Rise N, 110B15:230–233
volcaniclastics, 141B10:133–151
wireline measurements, 141A7:218–219
accuracy, chemical analysis, 142B10:76–77
acervulinids, abundance, 144B9:174, 183, 187
acetate
Conical Seamount, 125B22:388, 390, 394–395
manganese reduction, 185B3:7
pore water, 135B44:710–711; 144B27:470–474;
164B36:389; 177B3:1–12; 204B17:1–20
sediments, 201B1:23
Torishima Forearc Seamount, 125B22:388
vs. depth, 135B44:712–713; 144B27:472–473; 43:739,
741; 177B3:10–11; 185B1:31; 3:11; 204B17:10–
16
vs. physical property changes, 144B27:470
vs. temperature, 204B17:17
acetate, dissolved
community structure, 201A1:17
microbial activity, 201A1:13
pore water, 201A1:21, 25, 28, 33, 37, 42, 47; 7:16–17;
8:16; 9:13; 10:15; 11:17; 12:13
vs. depth, 201A1:70; 6:44; 7:47; 8:36; 9:38; 10:41;
11:51; 12:33
acetic acid
carbon dioxide, 175A21:558–559
See also furfural + acetic acid/pyrrol ratio
acetogenesis
community structure, 201A1:17
sediments, 204B17:5
acid/aldehyde ratio
organic matter, 201B4:8
vs. depth, 201B4:20
acid sulfate alteration. *See* bleaching
acidic clasts. *See* clasts, acidic
acidic volcanic clasts. *See* clasts, acidic volcanic
acidic volcanic rocks. *See* volcanic rocks, acidic
acids, sediments, 175B5:8
acmite, basalt paragenesis, 195B8:7
acoustic anisotropy
directional properties, 156B8:115–123
vs. depth, 154A4:121; 5:203; 154B6:260; 7:313; 8:396;
156B8:119; 171B_A4:162; 6:306
See also anisotropy; sonic logs
acoustic basement
3.5-kHz record, 129A4:233
alkalic diabase sills, 129B18:345
Baffin Bay, 105A4:140
Cagayan Ridge, 124A14:410
Cornaglia Terrace, 107A9:601
Cretaceous, 103A12:533–534
depth, 110B5:47, 50
facies, 129A2:77–80
Galicia Bank, 103B2:16; 42:760
Galicia margin W, 103A1:7–8, 16; 8:157; 9:276, 278–
279; 11:536; 103B4:37, 42; 27:468; 36:635
irregularities, 107A7:289
Labrador Sea, 105A5:429; 6:678, 680
layer divisions, 103B4:39
location, 104A1:20
Marsili Basin, 107A6:131, 160
Newfoundland/Flemish Basin, 103B43:778–782, 784
Norwegian-Greenland Sea, 104A1:8
Prydz Bay, 119A1:9; 9:370, 372
seismic profiles, 119A7:231–232; 126A7:132
Site 698, 114A2:27; 5:88
Site 700, 114A7:277
Site 702, 114B1:7, 9, 18–19
Site 747, 120A6:92, 143; 120B(2)47:883–884
Site 748, 120A7:158, 225–227
Site 749, 120A8:240, 270–273
Site 750, 120A8:280
Site 751, 120A9:342
sonobuoy velocity, 119A6:160–161
South Orkney microcontinent, 113B3:28
Sulu Sea, 124A11:197, 199
topography, 107A6:138
Tyrrhenian Sea, 107A7:319
volcanic events, 129A4:235
Vøring Plateau, 104A1:8; 104B51:1034
See also basement
acoustic basement reflector, basalts, 151B19:363–364
acoustic coupling, compressional wave velocity,
146B(2)13:196
acoustic events, crust, 102A3:107–108
acoustic facies, correlation, 134B4:67
acoustic fluidization, serpentinite breccia, 149B35:574
acoustic imagery
Bent Hill, 139B43:682
downhole measurements, 161B24:323
Middle Valley, 139B44:700–701
side-scan, 169A3:39; 4:158, 161
Site 855, 139A5:106
Site 856, 139A6:167–169
Site 857, 139A7:293
Site 858, 139A7:437, 443
surface deformation, 139A2:21
acoustic impedance
angular unconformity, 121A6:152; 9:255
basement rocks, 115A5:271; 10:766
Broken Ridge, 121A6:151, 163; 7:185; 9:254
calcium carbonate, 114A11:664
cementation, 121A13:498
Galicia margin W, 103A8:151–153; 9:259–267;
10:436–444; 11:543–544; 12:592–593
igneous rocks, 123A5:330
lithology, 115A6:426; 121A7:79; 10:289; 121B37:744
Mascarene Plateau, 115A5:270, 272, 277, 280–283
Ninetyeast Ridge, 121A10:292–294; 11:340; 12:404,
416, 431
Norwegian Sea, 104A4:179–190
opal-A/opal-CT transition, 127/128B(2)73:1146
Prydz Bay, 119A8:331–332; 11:438

- reflection amplitude changes, 119A6:212; 7:274–275
- seismic correlation, 121A7:186; 11:347–348, 357; 12:448; 121B33:669, 679
- seismic profiles, 118B12:246
- Site 708, 115A6:418–420, 424–425
- Site 709, 115A7:483–484, 495–497
- Site 710, 115A8:611, 620–622
- Site 711, 115A9:679–680, 688–690
- Site 712, 115A10:756, 762
- Site 713, 115A10:757, 765
- Site 714, 115A11:859–860, 870–871
- Site 715, 115A12:936, 939
- Site 752, 121A6:163
- Site 757, 121A11:347–348
- Site 758, 121A12:416
- Site 766, 123A5:311
- Site 799, 127/128B(2):72:1137–1138, 1140
- Site 866, 143B31:528
- volcanic ash layers, 121A6:152
- vs. calcium oxide, 121B14:277
- vs. depth, 143B18:290–291; 151A6:151; 195A4:145
- vs. physical properties, 121A8:218–219; 123B23:463
- vs. traveltime, 159B22:229, 236, 240
- See also* impedance
- acoustic impedance logs
 - interpretation, 182A4:39
 - vs. depth, 182A4:79; 6:82
- acoustic index, volcanoclastics, 126B36:547–549
- acoustic logs
 - dipole shear sonic tool, 205B13:15
 - gas hydrates, 164B20:193–198; 204B24:3
 - Site 504, 140A2:113
 - vs. depth, 148A2:81; 175A5:141; 204A3:94; 4:93; 6:65; 9:71; 10:86; 11:50; 204B24:8–14, 23–36
 - See also* waveforms
- acoustic noise, seismic events, 195B2:3–4
- acoustic properties
 - Atlantis Bank, 118B28:553
 - density/velocity models, 178A9:22–23
 - hydraulic transmissivity, 118B14:267–268
 - Labrador Sea, 105B43:833
 - repressurized sediments, 204B26:6
 - sedimentary rocks, 149B18:343–350
 - sediments, 135B48:787–795; 143B18:287–303
 - ultramafic rocks, 149B24:425–429
 - vs. two-way traveltime, 178A7:70–71
 - well-logging, 160B42:535–543
 - See also* physical properties; well-logging
- acoustic reflection tomography, gas hydrates, 164B28:273–281
- acoustic stratigraphy
 - analysis, 103A1:7–9
 - angular unconformities, 119B1:9, 11
 - areal distribution, 119B1:13–14, 16–17
 - Layer 2A basalts, 129B28:504
 - lithology, 119B1:7–9, 11–20, 22; 2:27, 29–36; 6:99–101; 48:876; 121A4:75
 - seismic units, 178A4:37–38
 - Site 698, 114A5:116–117
 - Site 747, 120A6:91
 - Site 748, 120A7:159
 - Site 749, 120A8:240
 - Site 750, 120A9:281
 - Site 751, 120A10:340
 - strata thickness, 119B1:18
 - vertical reflection changes, 119B1:18
 - vs. depth, 155A14:408, 461
 - See also* seismic stratigraphy
- acoustic units
 - Ceara Rise, 154A3:44–49
 - grain size, 155B3:41, 47–50
 - hydraulic piston corer (HPC) acoustic basement, 165A4:135
 - isopach maps, 210A1:55
 - seismic profiles, 154A3:44–48; 210A1:26, 28
 - Sites 1276 and 398 comparison, 210A1:27–28
 - transform faults, 159A1:9–10
 - See also* seismic units; transparent units; velocity; well-log units
- acoustic velocity
 - Islas Orcadas Rise, 114B35:661
 - Meteor Rise, 114B35:661
 - Mid-Atlantic Ridge SW, 114B35:661
 - Northeast Georgia Rise, 114B35:661
 - Southern Ocean, 114B35:665–667
 - See also* sonic velocity; velocity
- acoustic velocity array sonde logging, 148A2:75–76
- acoustic wavelets
 - cores, 151A6:149
 - properties, 151A8:261; 9:305
 - seismic stratigraphy, 151A7:206
 - well-logging, 151A5:95
- acoustic waves
 - fracture density, 205B13:1–22
 - Galicia margin W, 103B41:744–745
- acridine orange direct counts
 - microbiology, 207B13:1–6
 - vs. depth, 201A1:70
- acritarchs
 - biostratigraphy, 149B10:250–251; 151B12:203–242; 189A7:34
 - depth and recovery, 159B25:283
 - Labrador Sea, 105B23:392; 24:407; 25:441, 445, 451; 27:496, 507; 28:543, 547
 - paleoclimatology, 186B6:6–7
 - paleoenvironment, 183B3:6–9
 - Pleistocene, 151B13:243–253
 - species list, 129B11:227
 - See also* dinoflagellates; palynomorphs
- Acropora
 - limestone, 133A(1):309
 - lithology, 166A10:296
- ACT. *See* aluminum logs
- actiniscidians
 - abundance, 104B30:552–555, 564
 - age, 104B30:552–557, 564
 - biostratigraphy, 141B16:223–233; 151B6:101–124; 162A4:111–112; 5:154; 6:189; 7:240; 8:269
 - distribution, 104B30:552–558; 177A3:55–56; 4:71–79; 5:83–88; 6:67–72; 7:60–71; 8:88–92; 9:63–64
 - evolution, 104B30:562
 - methods, 104B30:543–545

- microfossil studies, 104B39:785
- summary, 104B30:558–559, 562–565, 573
- taxonomy, 104B30:565–573
- zonation, 104B30:545, 548–549, 556–558; 39:802
- Actinobacter junii*, microbial populations, 187B6:6, 10
- Actinobacteria
 - cultured isolates, 201B1:15; 2:9
 - microbial divergence indexes, 205B8:9
- actinolite
 - alteration, 111A3:63–67; 135A(1)11:644; 137A2:28–29; 137/140B8:101; 16:195; 14:157; 147A3:70–71; 147B10:201–202; 13:238–239; 176A3:40, 141; 179A2:5; 4:43–44; 179B(synthesis):8; 187A13:10; 187B1:7–8; 5:8
 - basalts, 169A5:213
 - basement, 131A6:155
 - composition, 137/140B20:238
 - Costa Rica Rift, 111A3:124; 111B2:32
 - diabases, 129B18:346
 - dike complexes, 148B33:410–411
 - gabbros, 147B1:6
 - geochemistry, 176B4:11; 9:9–10
 - greenschist facies, 176B9:18–19
 - hydrothermal veins, 153A4:162–163; 5:202, 207; 6:242, 250–251; 7:267, 269–270; 153B9:162; 30:524–525
 - lithology, 187A13:3–4
 - magmatic structures, 176A3:60
 - metamorphism, 153B21:391–393; 31:536
 - mineral chemistry, 129B17:314; 153B9:167–170
 - oxygen isotopes, 111B3:35
 - petrography, 148A2:47; 161B27:358; 187A13:5
 - photograph, 147B10:210; 148A2:51; 153A3:70, 83, 87–88; 4:135, 138–139, 146, 155, 158, 163; 5:183, 189, 196–199, 203, 205; 6:243–245, 249–250; 7:268, 270; 153B3:43; 7:138; 9:166–170; 22:402–403; 169A3:100; 5:218; 176B9:66
 - photomicrograph, 169A3:100; 180A11:15, 21; 183A5:112; 187A13:16, 20–21, 29, 31; 187B5:21
 - protoliths, 180A11:4
 - replacement silicates, 118A3:53; 137/140B18:210–213
 - scanning electron backscattered images, 187B7:20
 - secondary minerals, 148A2:45–53; 148B6:77; 34:422–423, 427
 - serpentinites, 149B32:543
 - sulfides, 176B7:6
 - Sulu Sea, 124A11:260–261, 263
 - Torishima Forearc Seamount, 125B25:421, 427–428
 - veins, 140A2:73–75, 90–91; 147B10:194; 148A2:63; 169A5:216–217
 - vs. chlorite, 153B21:395
 - vs. depth, 111A3:66; 137/140B14:160; 140A2:66; 148A2:52
 - See also* ferro-actinolite; hornblende; veins
- actinolite, coronal, Atlantis Bank, 118A6:133, 135
- actinolite, fibrous
 - alteration, 187A1:11
 - photomicrograph, 187A13:30
- actinolite, green, Atlantis Bank, 118A6:138
- actinolite, recrystallized, 153B5:81–82, 90–93
- actinolite grains, photomicrograph, 180B7:53–54
- actinolite schist, lithology, 180A8:14–15
- actinolite-sodic plagioclase assemblage, 118B8:160
- actinomids
 - Site 719, 116A6:163
 - Zone RP15, 199B24:7–8, 19
- active faults. *See* faults, active
- active heave compensator, instruments, 191A5:17–19
- active margins
 - collision with seamounts, 160B37:465–481
 - See also* collisions; continental margins; plate tectonics
- active zones, geology, 158A2:18–19
- ADARA. *See* advanced piston core temperature coring shoe
- accumulates
 - composition, 147B2:46–50
 - fractional crystallization, 179A4:41–42, 47–48
 - gabbros, 179B(synthesis):18
 - lithology, 179A2:5–6
 - lower oceanic crust, 176B(synthesis):22–23, 38
 - photomicrograph, 179A4:108, 116
 - structure, 179B(synthesis):46
 - See also* cumulates; heteradcumulate
- adenosine-5'-triphosphate proxy
 - bacteria, 164B37:393–398
 - principal component analysis, 164B37:396–398
 - vs. depth, 164B37:396
 - vs. luminescence, 164B37:396
- Adeonellopsis* spp.
 - calcite, 182B13:6–10
 - carbonate mineralogy vs. stable isotopes, 182B13:21
 - scanning electron photomicrograph, 182B13:18
- advanced CORK
 - accretionary prisms, 196A1:1–29
 - installation, 190/196B1:7–8; 196A1:7–8, 11; 3:3–4, 28–29, 72–73, 90; 4:4, 27–28
 - vs. depth, 196A1:23, 25
- advanced piston corer
 - magnetization, 157B5:47–56
 - methods, 201B21:12–14
 - porosity vs. depth, 204A4:86
 - temperature vs. time, 204A5:49
 - tools, 204B23:16–18
- advanced piston corer (APC)-methane tool coring shoe, 141B20:261–263
 - magnetic inclination, 189A(appendix):7
 - methods, 201A1:49
 - sediments, 201A7:34; 11:32
- advection
 - alteration, 186B14:9
 - basement, 161B21:296, 299; 22:303
 - bottom-simulating reflection, 141B19:253–258
 - brines, 166B17:190–191
 - calcium carbonate, 145B20:299–300
 - calcium-depleted fluids, 204A8:13; 9:11–12
 - carbon dioxide, 172B3:3
 - chloride, 164B12:132–136
 - compaction, 204B15:10–11
 - evidence, 164A8:270
 - fluid flow, 139B14:328; 141B25:318; 166A1:9; 11:373
 - gabbros, 153B18:361

- geochemistry, 156B25:317; 168B8:101–102
 ground water, 172A6:288
 heat flow, 141B29:367; 202B1:5
 lateral flow, 160A9:311, 313
 mantle, 135B28:505–517
 meteoric waters, 189A6:51
 methane, 164A8:266, 272
 model parameters, 205B6:26
 oxygen isotopes, 138B13:306–307; 154B13:203–205;
 166B8:97
 paleoclimatology, 188B14:12; 202A1:32–33
 pore fluids, 135B42:685–688; 146A(1)5:191;
 164B22:221–228
 sediments, 135B48:794; 172A1:7–8
 strontium, 150X_B25:352–353
 strontium isotopes, 138B41:813–819
 surface water, 177B(synthesis):11
 water masses, 138B17:380
See also fluid advection
- advective flow
 décollement zone, 131B32:403
 Oman margin, 117A4:49
 pore fluid, 131B32:407
- aegirine
 basalts, 105B3:46, 52
 chemical composition, 157B16:250
 clastic mineral phases, 157B15:234–235
 photomicrograph, 157A7:357; 8:416; 157B15:266
 Sumisu Rift, 126B35:538
 volcanoclastics, 180B8:8
- aerobic culture, photomicrograph, 193A4:196
 aerobic environment, sedimentation, 146B(2)22:302–
 303
- aerobiology, dust-borne microorganisms, 209B1:18
 aeromagnetic profiles, structure, 151A8:223; 152A13:289
 aerosols, mineral, Arabian Sea, 117A3:35
 AF demagnetization. *See* demagnetization, alternating-
 field; magnetic properties
- Afropollis. *See* pre-Albian west Early Cretaceous *Dicheir-
 opollis etruscus* province
- agate
 photograph, 183A5:132; 9:62
 photomicrograph, 209A5:117
- age
 argon isotopes, 161B21:300–305; 163X_A1:14;
 165B15:233–236; 178B22:6–10; 185A3:67
 barnacle fragments, 178B27:1–8
 basalts, 144B31:535–545; 163X_A8:6
 basement, 144B32:547–557; 152B40:484, 486–488;
 180B(synthesis):5–7; 192A1:27–28; 203B1:2
 bibliographic vs. estimated age, 138B23:519, 532
 biogenic sediments, 199A4:10
 biostratigraphy, 141B17:235–240; 146B(2)2:23;
 152B18:244–245; 155B6:138; 161B13:176;
 37:471–476; 162B7:99–102; 174A_A3:61, 64–65;
 4:119–120; 5:168; 177A3:46–47; 4:80–82; 6:60–
 62; 7:48–55; 8:78–81; 9:58–59; 180B4:1–13;
 181A5:3; 188B3:27; 199A1:74; 14:31
 calibration fixpoints, 161B37:474
 carbon-14, 169S_A2:25, 33–35; 182B8:4–6
 color, 175A22:562–563
 control points, 161B38:483; 162A3:72, 75; 4:114;
 5:159; 6:192; 7:244; 8:273; 9:309; 10:367;
 162B19:266
 correlation, 166A2:16; 167B3:99
 Cretaceous–Cenozoic geochronology, 189B5:46
 crust vs. carbon dioxide in basalts, 136B11:144
 data compilation, 180B5:22–24
 deformation, 159B4:35–41
 diabases, 180B1:1–18; 2:5
 emplacement, 192A1:4–9
 Eocene–Oligocene interval, 189A5:74
 eruptions, 152B41:510
 fans, 155B20:353–365
 fission tracks, 161B21:299
 forearc wedges, 205B1:16
 glaciation, 178A1:47
 guyots, 144B49:883–885
 histograms, 178B22:22
 igneous rocks, 135A(1)1:33–34
 insolation cycle, 161B13:160
 islands, 157A2:14; 157B9:99–114
 isochrons, 180B1:15
 isotopes in atolls, 134B3:50–51
 Jurassic/Cretaceous boundary, 198B1:4
 lava, 152B32:387–402
 limestone, 180B12:1–5
 lithofacies, 165B9:151
 lithology, 194A3:71
 lower Pliocene, 178A6:28
 magnetic polarity, 162A7:242; 8:271; 10:366;
 165B8:144
 magnetostratigraphy, 181A7:159; 8:121; 200A3:39
 Messinian, 161B43:547
 Mid-Pacific Mountains, 143B31:500
 models, 165B17:255, 257
 ocean floor, 178A2:35
 Oi-1 interval, 182B14:17
 oxygen isotopes, 161B38:482; 172B5:19
 paleolatitude, 197A1:5–7
 sedimentary cover, 161B44:561–562
 sedimentation, 175B(synthesis):9–16; 11:6, 25;
 201B15:1–15
 sediments, 159B18:181–186; 166A11:372; 172B5:19;
 175A22:562–563; 178B7:4–5; 190A1:34, 84
 seismic reflectors, 194A3:71
 seismic sequence boundaries, 166B16:168–169
 sites, 130B25:438–444
 stratigraphic units, 169S_A2:26
 strontium isotopes, 144B21:412–413, 415;
 152B17:237–238; 166A3:31
 structural zone constraints, 204B3:4–5
 submarine ferromanganese hardgrounds, 194B8:1–22
 sulfides, 158B9:111–117
 tephra, 151B17:312–315
 thermal history, 159B5:43–48
 tholeiites, 151B19:351–365
 transform faults, 159A1:10–11
 trondhjemites, 176A1:7
 turbidites, 157B38:620
 volcanic pebbles, 161B44:568–569
 volcanic rocks, 161B27:357–373

- volcanism, 165B20:299–314; 197B1:13–14
- vs. carbon dioxide, 175A1:8
- vs. carbonate content, 162B12:186–187
- vs. chert color, 198A1:127
- vs. compressional wave velocity, 203B1:15
- vs. D-alloisoleucine/L-isoleucine ratio, 155B22:377
- vs. fatty alcohols, 162B15:213
- vs. hydrocarbons, 162B15:212, 215
- vs. iodine-129/iodine ratio, 204B14:22
- vs. mass accumulation rates, 162B14:205
- vs. measured mean fission-track length, 161B21:300
- vs. natural remanent magnetization, 166B4:42; 187B7:14
- vs. oxygen isotopes, 161B37:475–476; 39:499; 166B2:19; 172B9:10; 177A4:25; 182A8:50; 188B1:42; 198A1:96; 198B1:27
- vs. paleodepth, 199A1:63; 199B1:36
- vs. paleolatitude, 197A1:29; 199A1:65
- vs. pelagic thickness, 157A4:94; 5:134; 6:172
- vs. reflectance, 162B19:262–263
- vs. salinity, 161B39:499
- vs. sea level curve, 155B6:146
- vs. sedimentation rates, 167A(1)15:454; 188B1:42
- vs. seismic sequences, 182A4:84
- vs. strontium isotopes, 178B27:5; 197A1:31
- vs. temperature, 202B1:50, 52
- vs. total organic carbon, 175A3:52
- vs. uranium, 158B9:113–114; 166B3:28
- vs. virtual axial dipole moment, 197A1:30
- wood/shell pair, 169S_A2:25–26
- See also argon-argon dating; biostratigraphy; chronology; chronostratigraphy; dating; depth/age interval rate; geochronology; isochrons; potassium-argon age; stratigraphy; uranium-thorium dating; zonation
- age, apparent, argon isotopes, 129B20:391
- age, biostratigraphic
 - astronomical, 161B13:163, 165–166, 169–170
 - vs. depth, 141A6:88; 7:176; 8:254–256; 9:319; 10:364–367
 - vs. organic carbon, 160B22:274
 - vs. paleolatitude, 192A1:50
 - vs. sodium oxide + potassium oxide, 157B18:325
- age, radiometric
 - age spectra, 127/128B(2)50:819–836
 - argon isotopes, 127/128B(2)50:822–827
 - basalts, 129B20:389–404; 142B5:37–39
 - basement, 127/128B(2)83:1336–1337
 - biostratigraphy, 127/128B(2)83:1337; 134B13:296
 - blue tuff, 127/128B(1)8:123, 126–127
 - carbonate platforms, 144B52:932
 - crust, 136B10:119–132
 - crystallization age, 127/128B(2)50:821
 - evaluation of ages, 127/128B(2)50:821
 - formation age, 127/128B(2)50:820–821
 - guyots, 144B53:938–942
 - isochron plots, 127/128B(2)50:828–833
 - Japan Sea rock samples, 127/128B(2)83:1334
 - lava, 142B1:7
 - limestone, 143B31:509–512
 - plateau ages, 127/128B(2)50:820–821
 - radiometric and paleontologic ages, 127/128B(2)50:821–822
 - samples, 127/128B(2)50:819–820
 - Site 794, 127/128B(2)47:784–786
 - summary, 129B20:393
 - volcanic rocks, 135A(1)4:95
 - volcaniclastics, 143A1:9
 - volcanism, 127/128B(2)50:829–832; 143B31:504
 - vs. foraminifer age, 143B31:511–512
 - vs. sedimentation rates, 127/128B(1)8:126
 - See also geochronology
- age control points
 - biostratigraphy, 175B12:22; 186A4:195; 5:113
 - deep-sea sediments, 185B7:1–21
 - sedimentation rates, 167A(1)4:77; 5:108; 6:145; 7:168; 8:202; 10:262; 12:337; 14:412; 15:454
 - Site 1233, 202A4:75
- age correlation
 - Site 800, 129B1:7
 - Site 801, 129B1:7
 - Sites 800–802, 129A4:191
- age inversion, guyots, 144B2:42
- age models
 - astronomical calibration, 175B22:1–19; 198B22:29–30
 - bioevents, 189A4:54; 7:129–130
 - biogenic opal, 184B21:2
 - biostratigraphy, 175B(synthesis):63–68, 97–102; 181A6:25–26; 7:34–36; 181B1:17; 189A3:33–34; 189B1:4; 2:4–5; 10:2–5; 202A9:56; 202B1:10
 - carbonate platforms, 194A4:20
 - composite sections, 202B1:47
 - Cretaceous–Cenozoic interval, 189B3:5–6
 - early Oligocene–early Miocene interval, 189B9:1–21
 - Eocene–Oligocene interval, 189B4:5
 - gamma ray attenuation density, 138B19:451
 - glacial fan deposits, 162B10:149–166
 - glaciation, 162B17:244
 - hardground, 194A5:15–16
 - isotope stratigraphy, 205B4:4–5
 - magnetostratigraphy, 181A6:25, 66–67; 7:34–36; 8:66–67; 194A8:15–16; 198B22:28
 - marine isotope stages, 194B4:4–5
 - mass accumulation rates, 202A1:16–21
 - Miocene, 189B13:3
 - Miocene–Pliocene interval, 159B40:540–541
 - Neogene, 145B20:294–295; 183B9:41, 48
 - orbital derivation, 202B4:8–10
 - oxygen isotopes, 166B2:15; 177B12:3–4, 16
 - paleoclimatology, 167B21:250–251; 25:280–281
 - physical properties, 178B32:6
 - Pleistocene, 138B43:853–854
 - sedimentation rates, 175B(synthesis):11–16; 177B6:2–3; 12:4; 181A3:21; 4:17–18, 72; 5:18–19; 6:25–27; 7:34–37; 8:28–29; 9:18–19; 181B1:13–15, 92; 3:4; 183B9:9–12; 189A4:16–17; 5:35–36; 6:39–40; 7:36; 6:8–10; 189B10:8–10; 194A4:20; 6:12; 202B4:8–12
 - sediments, 162B14:200; 167B11:169–173; 175B18:6–7
 - Site 607, 138B17:410–411
 - Site 677, 138B17:407–409
 - Site 704, 138B17:412

- Site 847, 138B34:697
 Site 849, 138B17:401–402
 Site 872, 144B54:966
 Site 873, 144B54:968
 Site 1192, 194A3:13–14
 Site 1193, 194A4:20
 Site 1194, 194A5:15–16
 Site 1195, 194A6:12
 Site 1196, 194A7:24
 Site 1197, 194A8:16–17
 Site 1198, 194A9:14
 Site 1199, 194A7:24
 Site 1232, 202A3:14
 Site 1233, 202A4:16–17
 Site 1234, 202A5:15
 Site 1235, 202A6:16–17
 Site 1236, 202A7:19–20, 57, 74
 Site 1237, 202A8:25–26, 107; 202B4:34
 Site 1238, 202A9:23–24, 101
 Site 1239, 202A10:22–23
 Site 1240, 202A11:17–18, 82
 Site 1241, 202A12:18–19, 101; 202B4:36
 Site 1242, 202A13:15–16, 74
 Southern Ocean, 120B(1)1:5–7
 spectral analysis, 175B22:18–19
 stable isotopes, 138B17:373–374, 378; 184B3:3
 stratigraphy, 138B43:840–843; 202B4:15–17
 timescales, 138B42:827; 145B21:318
 tuning, 150B7:123
 upper Pleistocene, 202A3:14
 uranium-thorium dating, 166B3:23–31
See also age vs. depth models
- age profiles
 calcareous nannofossils, 168A4:77–78
 Sites 1023–1025, 168A4:77–79
 Sites 1026–1027, 168A5:133–134
 Sites 1028–1032, 168A6:175
- age release
 calcium/potassium ratio, 178B22:19–20
 chlorine/potassium ratio, 178B22:18
- age spectra
 argon isotopes, 136B10:121; 185B13:3–4, 10; 13:5–6, 12
 lava flows, 163B6:57
 Site 794, 127/128B(2)50:820, 828–832
 Site 795, 127/128B(2)50:820–821, 832–833
 Site 797, 127/128B(2)50:820, 828–829
- age vs. depth
 age models, 150B7:126–127
 Amazon Fan, 155B17:308–309; 38:590–591
 argon isotopes, 185B13:14–16
 Atlantic Ocean S, 177A1:44
 Australia NE, 133B19:266
 basement, 206A1:41; 3:103
 biochronology, 133B1:18; 2:22
 biohorizons, 133A(1)4:102; 5:154
 biostratigraphic and magnetostratigraphic markers, 130A7:252
 biostratigraphy, 130A7:253; 8:322, 323; 133A(1)8:263; 134A7:122; 167B3:72–73; 177A3:29; 194B1:5; 198A4:55–59; 5:58; 6:50–54; 7:34, 44–50; 8:31, 43–47; 9:73–75; 10:22–23; 198B7:46; 201B13:17; 206A1:64; 3:129; 206B2:21
 Blake Ridge, 164B26:258; 30:310; 33:336
 California margin, 167B11:167; 32:372
 Caribbean Sea, 165B17:257
 Cascadia margin, 146B(1)15:266
 Ceara Rise, 154B7:143; 12:193; 18:278; 23:353; 30:458
 Cenozoic, 174AXS_A6:82
 control points, 138B6:81; 194A3:13–14, 70; 4:106; 5:97; 6:84; 7:137; 8:76; 9:67; 202A8:85–86; 9:86–87; 10:79–80; 11:69; 12:19, 87–88; 13:15, 65; 208A1:107–111; 3:90–91; 4:86; 5:71–72; 6:105–106; 7:64, 77–78; 8:74–76
 Cretaceous, 174AXS_A5:66–67; 6:81
 Cretaceous–Cenozoic interval, 192A3:152
 early–middle Miocene interval, 174AXS_A7:52
 Eocene–Miocene interval, 145B37:571
 Eocene–Oligocene interval, 183B5:23–24
 Eocene–Pleistocene interval, 177A1:44
 Eratosthenes Seamount, 160B39:511–514
 gamma ray attenuation density, 138A(1)6:90
 Great Bahama Bank, 166A2:17; 3:31
 Iberia Abyssal Plain, 149B10:293; 45:697–700
 inflection points, 131B26:326
 Late Cretaceous, 174AXS_A(summary):29; 7:52
 linear sedimentation rates, 130A7:251
 lower Miocene, 192A3:56
 Maastrichtian–Eocene interval, 198A5:62
 Maastrichtian–Miocene interval, 145B37:567
 Maastrichtian–Paleogene interval, 189B10:37
 Madeira Abyssal Plain, 157B19:341
 magnetic polarity, 133A(1)15:632; 135A(1)1:30; 184A6:58; 7:88; 8:40; 9:108; 198A4:54; 5:54; 6:47; 7:43; 8:40
 magnetostratigraphy, 189A5:38; 6:43; 7:38–39, 77; 189B9:12; 190A1:78; 201B13:17
 mass accumulation rates, 173B5:24, 26
 Mediterranean Sea E, 160B5:65, 68, 71
 middle Miocene, 205B4:16
 Miocene, 174AXS_A2:54; 3:66; 5:65; 189B13:1, 7
 Miocene–Eocene interval, 198A5:60
 Miocene–Quaternary interval, 145B37:566, 570
 models, 202A4:16, 53, 76; 7:19–20, 57; 8:71; 10:22, 93; 11:17, 57; 207A4:21, 54, 97–100; 5:23–24, 64, 102–104; 6:27, 60–61, 96–97; 7:58, 23–24, 97–99; 8:22–23, 55; 210A1:16
 Neogene, 138B23:521; 198A5:59; 9:74; 202A1:91–92
 Neogene–Quaternary interval, 189B10:29, 32, 35, 38
 New Jersey coastal plain, 150X_B11:131–132; 14:170–171; 15:195–197; 16:208–209; 17:233–235; 18:265; 23:308–310
 New Jersey margin, 150A2:17
 Oligocene, 174AXS_A2:55
 Oligocene–Paleocene interval, 198A5:61
 Ontong Java Plateau, 130A7:248; 192A3:70
 oxygen isotopes, 151B26:451
 Pacific Ocean, 138B23:526–528; 144B21:413; 41:683; 54:956, 958, 962; 145B34:514, 521; 38:586
 paleoclimatology, 157B4:76
 Paleogene, 133B54:780–781; 189B10:28, 31, 34

- paleomagnetism, 189A5:85; 6:93, 98
Peru margin, 201B15:12
Pleistocene, 167B1:22–23
Pliocene, 133B17:242; 167B1:23
Pliocene and Miocene, 150B4:58
Pliocene–Pleistocene interval, 177A1:46
revised data, 133B53:774–778
sedimentation rates, 143B5:95; 150B6:108; 172A3:54;
177A3:11; 4:15; 184A6:59; 7:89; 8:41; 9:109;
194A1:74; 3:45; 4:79; 5:62; 6:47; 7:86; 8:52;
9:42; 198B22:15; 205B4:4–5; 208A3:47; 4:50;
5:40; 6:58; 7:47; 8:47
Shatsky Rise, 198A1:134
Site 398, 173B4:19; 210A1:76
Site 594, 181B1:108
Site 810, 132B4:54
Site 814, 133A(1)7:213
Site 816, 133A(1)9:317
Site 818, 133A(1)11:429
Site 823, 133A(1)16:708
Site 824, 133A(1)17:782
Site 834, 135A(1)4:116, 122
Site 835, 135A(1)5:207, 215
Site 836, 135A(1)6:262
Site 837, 135A(1)7:308, 316
Site 838, 135A(1)8:362, 367
Site 839, 135A(1)9:422, 428
Site 840, 135A(1)10:530, 534
Site 841, 135A(1)11:614, 622–625
Site 844, 138A(1)9:157
Site 845, 138A(1)10:230
Site 846, 138A(1)11:296; 138B43:843
Site 847, 138A(1)12:358
Site 848, 138A(2)13:707
Site 850, 138A(2)15:845
Site 851, 138A(2)16:934
Site 853, 138A(2)18:1045
Site 854, 138A(2)19:1082
Site 859, 141A6:98
Site 865, 143A6:135, 137
Site 869, 143A9:329
Site 881, 145A3:49; 145B37:562
Site 882, 145A4:104; 145B37:564
Site 883, 145A5:150; 145B17:260
Site 884, 145A6:237, 240; 145B2:27; 30:468
Site 887, 145A8:357–358; 145B16:250; 37:574
Site 889, 146B(1)3:58
Site 892, 146B(1)24:372
Site 893, 146B(2)12:174
Site 897, 173B11:36
Site 898, 173B11:40
Site 899, 149A6:156
Site 900, 173B4:19; 11:44
Site 902, 150A6:96–97
Site 903, 150A7:160, 163
Site 904, 150A8:230, 232
Site 907, 151B27:458; 162A7:242–243; 162B9:142
Site 908, 151A6:129; 151B31:557; 32:574
Site 909, 151A7:181; 151B31:557; 32:574
Site 911, 151A9:285
Site 912, 151A10:332
Site 914, 152A6:67
Site 915, 152A7:82
Site 918, 152A11:226; 152B17:237; 22:269; 23:297
Site 919, 152B18:246; 22:269
Site 925, 154A4:102
Site 926, 154A5:183
Site 927, 154A6:255
Site 928, 154A7:304
Site 929, 154A8:368
Site 950, 157A4:94; 157B29:509
Site 951, 157A5:134; 157B29:510, 512
Site 952, 157A6:173; 157B29:511, 513
Site 953, 157A7:383; 157B9:101, 104, 113–114;
10:122; 13:186; 19:339
Site 954, 157A8:429; 157B9:109, 113–114; 19:339
Site 955, 157A9:478; 157B9:111, 113–114
Site 956, 157A10:542; 157B9:112–114; 19:339
Site 959, 159A5:97; 6:185; 8:277; 159B39:537; 41:560;
43:587
Site 963, 160A4:71; 160B8:112
Site 964, 160A5:103
Site 965, 160A6:135
Site 966, 160A7:177, 179
Site 967, 160A8:242–243; 160B14:187
Site 968, 160A9:303
Site 969, 160A10:356, 358; 160B8:110
Site 973, 160A14:481
Site 974, 161A4:76; 161B12:151; 13:162; 15:212
Site 975, 161A5:138; 161B13:164; 15:212
Site 976, 161B2:34; 13:167
Site 977, 161A7:313, 318; 161B2:34; 13:168
Site 978, 161A8:375
Site 979, 161A9:403; 161B13:171
Site 982, 162A4:114
Site 983, 162A5:159
Site 984, 162A6:190
Site 985, 162B9:143
Site 986, 162A9:309; 162B10:166
Site 987, 162A10:366; 162B10:166
Site 994, 164A6:118
Site 995, 164A7:188
Site 996, 164A8:260
Site 997, 164A9:291; 164B12:136
Site 998, 165A3:70
Site 999, 165A4:161
Site 1000, 165A5:253
Site 1001, 165A6:315
Site 1002, 165B4:96
Site 1003, 166B7:84
Site 1004, 166A7:159
Site 1005, 166A8:184
Site 1006, 166A9:246; 166B2:18; 15:160, 163
Site 1007, 166A10:307
Site 1010, 167A(1)4:71–73
Site 1011, 167A(1)5:103–104
Site 1012, 167A(1)6:138, 143
Site 1013, 167A(1)7:161, 166
Site 1014, 167A(1)8:185, 187, 199
Site 1016, 167A(1)10:247
Site 1017, 167A(1)11:293; 167B21:251, 281
Site 1018, 167A(1)12:321

- Site 1019, 167A(1)13:360
Site 1020, 167A(1)14:396
Site 1021, 167A(1)15:439, 450
Site 1039, 170A3:47, 71, 74; 170B5:31
Site 1040, 170A4:97, 123; 170B5:32
Site 1041, 170A5:154, 167, 170
Site 1042, 170A6:190
Site 1043, 170A7:216, 232–233; 170B5:33
Site 1049, 171B_A3:70
Site 1050, 171B_A4:120–121, 133
Site 1051, 171B_A5:190; 171B_B7:18
Site 1052, 171B_A6:275; 171B_B7:19
Site 1053, 171B_A7:327
Site 1056, 172A4:114
Site 1057, 172A4:118
Site 1058, 172A4:121
Site 1059, 172A4:125
Site 1060, 172A5:203–204
Site 1061, 172A5:206–207
Site 1062, 172A5:210–211
Site 1063, 172A6:277–278
Site 1067, 173A6:121; 173B4:19; 11:47
Site 1068, 173A7:180; 173B4:19; 5:23, 43; 11:51
Site 1069, 173A8:241; 173B4:19; 5:25, 45; 11:55
Site 1071, 174A_A3:62
Site 1072, 174A_A4:119
Site 1073, 174A_A5:165
Site 1075, 175A3:66
Site 1076, 175A4:93; 175B23:28
Site 1077, 175A5:123; 175B11:19; 23:28
Site 1078, 175A6:160
Site 1079, 175A7:183
Site 1080, 175A8:210
Site 1081, 175A9:245; 19:545; 175B23:28
Site 1082, 175A10:284, 294; 19:545; 175B14:24
Site 1083, 175A11:318; 19:545
Site 1084, 175A12:353; 19:546
Site 1085, 175A13:400; 19:546; 175B22:10
Site 1086, 175A14:440, 444; 19:546
Site 1087, 175A15:467; 19:546
Site 1089, 177A4:44
Site 1090, 177A5:49
Site 1091, 177A6:41
Site 1092, 177A7:31
Site 1093, 177A8:46
Site 1094, 177A9:38
Site 1095, 178A1:35; 4:63, 100; 178B(synthesis):36;
36:25
Site 1096, 178A1:38; 5:30, 92; 178B36:26
Site 1101, 178A1:40; 8:59; 178B36:27
Site 1108, 180A5:76
Site 1109, 180A6:150; 180B4:4–5; 5:16–17
Site 1114, 180A5:85
Site 1115, 180A9:103; 180B4:6–7; 5:18–19
Site 1116, 180A10:51
Site 1118, 180A12:109; 180B4:8–9; 5:14–15
Site 1119, 181A3:53; 181B7:11
Site 1120, 181A4:31; 181B7:11
Site 1121, 181A5:45; 181B7:11
Site 1122, 181A6:58; 181B7:11
Site 1123, 181A7:71–72, 90, 175; 181B2:4–6, 15; 3:4;
7:11
Site 1124, 181A8:60, 74; 181B2:5–6; 7:11
Site 1125, 181A9:38, 48
Site 1126, 182A4:54; 182B3:40
Site 1127, 182A5:36; 182B5:9; 6:3, 6, 11
Site 1128, 182A6:55; 182B3:40
Site 1129, 182A7:41; 182B5:12
Site 1130, 182A8:42; 182B3:40; 5:11
Site 1131, 182A9:33; 182B5:13
Site 1132, 182A10:48; 182B3:40; 5:10
Site 1133, 182A11:24
Site 1134, 182A12:36; 182B3:40
Site 1135, 183A3:30; 183B4:34
Site 1136, 183A4:39; 183B4:35
Site 1137, 183A5:74
Site 1138, 183A6:81; 183B4:35; 9:9–12
Site 1139, 183A7:75; 183B7:18
Site 1140, 183A8:41; 183B6:14, 17
Site 1141, 183A9:48
Site 1143, 184A4:50, 56; 184B8:33
Site 1144, 184A5:43, 51; 184B19:14
Site 1145, 184A6:32, 36
Site 1146, 184A7:49, 53; 184B8:34
Site 1147, 184A8:17, 21
Site 1148, 184A9:61, 64
Site 1150, 186A1:32; 4:124; 186B5:12
Site 1151, 186A1:32; 5:69; 186B5:12
Site 1165, 188A1:59; 3:108, 112; 188B1:33
Site 1166, 188A4:67
Site 1168, 189A3:79; 189B1:32; 9:12; 10:27, 39–43
Site 1169, 189A4:31
Site 1170, 189A5:72; 189B1:32; 9:12; 10:30, 44–48
Site 1171, 189A6:89; 189B1:32; 9:12; 10:33, 49–56
Site 1172, 189A7:70; 189B1:32; 10:36
Site 1173, 190A4:63
Site 1174, 190A5:68
Site 1175, 190A6:43
Site 1176, 190A7:37
Site 1177, 190A8:43
Site 1179, 191A1:44–45; 4:89
Site 1183, 192B3:14
Site 1186, 192B3:15
Site 1201, 195A1:58; 4:127–128
Site 1207, 198A3:83–86
Site 1215, 199A8:34
Site 1216, 199A9:25
Site 1217, 199A10:36, 38
Site 1218, 199A11:61
Site 1219, 199A12:66
Site 1220, 199A13:49, 51
Site 1221, 199A14:35
Site 1222, 199A15:27
Site 1225, 201B13:15
Site 1227, 201B15:6, 13
Site 1228, 201B15:6, 13
Site 1229, 201B15:6, 13
Site 1244, 204A3:58; 204B15:32
Site 1245, 204A4:60
Site 1246, 204A5:27
Site 1247, 204A6:38

- Site 1248, 204A7:35
 Site 1249, 204A8:47
 Site 1250, 204A9:45
 Site 1251, 204A10:51
 Site 1252, 204A11:34
 Site 1254, 205B14:21
 Site 1262, 208A3:60
 Site 1276, 210A1:70, 76; 3:266; 210B11:4, 7, 9; 13:47
 Sites 672 and 1044, 171A_B3:21
 Sites 805 and 806 comparison, 130A8:347
 Sites 817–818, 133B16:209
 Sites 819 and 821, 133B15:191
 Sites 885–886, 145A7:317; 145B14:221
 Sites 914–917, 152A10:175
 Sites 975–976, 161B40:514
 Sites 980–981, 162A3:73–74
 Sites 980–984, 162B8:128
 Sites 991–993, 164A5:81; 164B32:326
 Sites 1023–1025, 168A4:78
 Sites 1026–1027, 168A5:141
 Sites 1028–1032, 168A6:176
 Sites 1054–1055, 172A3:53
 Sites 1209–1212, 198A1:121
 Sites 1218 and 1219 correlation, 199B2:27
 strontium isotopes, 192B2:10
 subsidence curves, 135B53:848–849
 summary, 182A1:50; 189A1:84; 206A3:121–122
 Upper Jurassic–Upper Cretaceous interval, 198A9:75
 Woodlark Basin, 180B(synthesis):31; 6:31; 7:28
See also sedimentation rates
- age vs. depth models
 biostratigraphy, 175B23:43, 46
 Cenozoic, 175B23:10
 mass accumulation rates, 208A5:73
 oxygen isotopes, 175B23:42, 44–45
 sedimentation rates, 184A4:94; 5:83; 184B21:6
 Site 1082, 175B14:3
 Site 1262, 208A3:23, 92
 Site 1263, 208A4:25, 87
 Site 1264, 208A5:19
 Site 1265, 208A6:31, 107
 Site 1266, 208A7:24–25
 Site 1267, 208A8:25, 77
 South China Sea, 184A1:70
 structural setting, 170B4:2–3
 Walvis Ridge, 208A1:93
- age vs. depth tie points, magnetostratigraphy, 208A3:84;
 208B4:17–22
- agglutinated foraminifers. *See* foraminifers, deepwater
 agglutinated
- agglutinates
 atolls, 144B14:286–289
 foraminifers, 133B26:371
 Maastrichtian, 144B45:783–784
 Site 821, 133B26:371
- aggradation
 channels, 155A3:25
 Miocene–Pliocene interval, 182A1:4; 182B1:6–7
 sedimentation, 180A6:32–33
 seismic sequences, 133B23:315–325; 24:333–340
 stratigraphy, 188B1:8–9
- upper Miocene, 182A1:4
- aggregates
 basalts, 187A1:9
 terrigenous, 112B1:5; 4:45–46
See also carbonate aggregates
- Agrobacterium tumefaciens*, cultured isolates, 201B2:9
- air falls
 lithology, 190A4:7
 volcanic ash, 198B18:7–8
- air gun profiling, 127/128B(2)70:1109–1114, 1117–1118
- air inclusions
 diagenesis, 144B48:867
 fluid inclusions, 144B48:862–864
- air/sea interface
 Site 744, 119A13:493
 Site 745, 119A14:519
- Airy isostasy, subsidence, 135B12:178
- akaganeite, alteration, 197A5:15
- alanine
 racemization, 174AXS_A7:27–29
 Sumisu Rift, 126B35:537
- albedo, gas exchange, 177B(synthesis):12
- Albian
 age vs. depth, 198A8:47; 10:23
 biomagnetostratigraphy, 171B_A4:134
 biostratigraphy, 129B9:194; 11:221; 12:223–229;
 143A7:209–213; 143B2:20–21; 32:547–548;
 144B10:199–219; 149B8:205–206; 159B26:325–
 326; 27:336–338; 35:489; 171B_A3:59–69;
 6:263–280; 171B_B3:1–12; 174AXS_A4:29;
 183A4:6, 10; 183B3:10–13; 198A1:57; 3:20;
 4:18, 20; 7:6; 9:19, 21–22; 10:2–3; 198B6:4;
 7:10; 207A4:13, 15–16; 5:14; 7:13; 8:14;
 210A3:79, 84, 88; 210B11:1–9; 13:6–9, 19–20
- black shale, 171B_A3:75–77
- carbonate compensation depth, 192A3:16
- carbonates, 143B9:126
- clastic wedges, 159B2:19
- correlation, 171B_B9:13
- deformation, 159B4:35–41
- depositional history, 144B17:337–359; 18:361–380
- dolomite, 143B11:161–169
- hiatuses, 192A6:12
- limestone, 143A2:18; 143B29:433–470
- lithology, 129B14:268; 130A9:387–390; 143A2:23;
 5:122–123; 7:193–195; 8:277–278; 144A10:339–
 341; 11:417–420; 159A5:82–83; 8:282;
 171B_A3:55, 59; 4:112–116; 6:257–259;
 174AXS_A4:20–25; 5:41–42; 6:47–48;
 192A1:24–26; 198A4:12–13; 207A4:9; 5:8–9;
 7:10; 8:9; 210A1:15; 3:44–50
- magnetostratigraphy, 171B_A3:71; 6:280; 171B_B9:6–
 7, 10; 207A7:21, 52–53
- marginal ridges, 159B8:76–78
- mud breccia, 160A1:12–14
- muscovite, 210B4:4
- oceanic anoxic events, 171B_B(introduction):2–3;
 207A10:7
- organic matter, 149B13:295–299
- ostracodes, 143B35:575–580
- paleobathymetry, 171B_A1:6

- paleoenvironment, 192A6:14–15; 210A1:17;
 210B13:19–20
- paleoflow directions, 210B3:1–27
- paleolatitude, 171B_A6:280, 282
- paleomagnetism, 129B23:435; 159B20:204
- paleotemperature, 159B7:64
- palynology, 173A4:104; 183B3:9
- periplatform deposits, 159B11:102–103
- photograph, 171B_A3:58; 6:258; 192A3:61, 76; 6:50
- photomicrograph, 198A3:76, 78
- postrift sedimentation, 210B1:27–28
- preglacial sedimentary basin fillings, 163X_A8:5
- quartz-feldspar-lithic fragments system, 210B2:25
- quartz-potassium feldspar-plagioclase, 210B2:29
- radiolarians, 130B7:95–96; 185B6:4
- reduction, 198A9:16
- rifting, 159B12:115–116
- Rock-Eval pyrolysis data, 171B_A3:81; 6:285
- sandstone and grainstone, 210B2:1–47
- sedimentary instability, 159B10:95
- sedimentation rates, 207A8:23; 210A3:90
- sedimentology, 210B8:5–7
- sediments, 183A1:14
- seismic sequence stratigraphy, 143B10:150–151;
 149B39:624
- Site 800, 129A2:33
- Sites 865 and 866 comparison, 143B21:349
- soft-sediment deformation, 159B2:17
- spreading centers, 159B7:65–66
- stratigraphy, 143B6:100; 174AXS_A4:40–41; 5:62;
 198A8:5
- terminal stage, 129B32:574
- thermal events, 159B5:46; 11:105, 108
- transform faults, 159A1:10–11
- unconformities, 198A9:25; 210B1:13
- zonation, 160B30:384
- See also Aptian/Albian assemblages; Aptian/Albian
 boundary; Aptian–Albian interval; Pre-Albian
 West Early Cretaceous *Dicheiropollis etruscus*
 Province; Valanginian–Albian interval
- Albian, lower
- biostratigraphy, 192A5:8; 198B7:9–10; 210A3:80, 86
- black shale event, 171B_B10:5, 7
- clasts, 210B4:6–7
- lithology, 129B14:268; 207A5:9
- micas, 210B4:6–7
- oceanic anoxic events, 198B1:6
- rifting phases, 210B1:11–14
- sedimentation, 192A6:10
- Sites 1276 and 398 comparison, 210A1:27
- Albian, lower–middle, paleoenvironment, 210B13:19–20
- Albian, middle
- biostratigraphy, 129B9:193; 163X_A6:20; 198A4:21;
 198B7:6; 210A3:79, 83, 87; 210B13:8–9
- lithology, 192A1:22–24
- sand and clay, 183A1:34
- Albian, middle–upper, lithology, 183A4:4–5
- Albian, upper
- biostratigraphy, 163X_A6:20; 174AXS_A1:44;
 192A5:9; 6:13; 198B7:6, 10; 210A3:79, 82
- geologic history, 207A1:4
- lithology, 192A1:18–21; 198A8:10; 10:5–9
- oceanic anoxic events, 192A3:14
- paleoceanography, 207B1:5–6
- paleogeography, 207B2:21
- photomicrograph, 192A6:53–54
- sediments, 159B13:125–131
- strontium isotopes, 192B3:6–7
- Albian, upper–upper Coniacian, interval, 192A6:12
- Albian/Cenomanian boundary
- biostratigraphy, 144B8:165; 207A7:14; 210A3:79, 82,
 87
- sedimentation, 143B2:23; 5:95
- Site 765, 123A3:84
- Albian–Cenomanian elaterates, 159B24:254, 261–262
- Albian–Cenomanian interval
- biostratigraphy, 129B8:182–183
- lithology, 129A2:30, 40; 3:101; 129B23:437
- magnetostratigraphy, 171B_B8:8
- Site 765, 123B38:727
- Site 766, 123B38:733
- volcaniclastic turbidite, 129B23:437
- Albian/Coniacian boundary, biostratigraphy, 192A3:22
- Albian–Coniacian interval, black shale, 207A1:21
- Albian crisis, carbonate platforms, 144B52:929–930
- Albian–Eocene interval, paleomagnetism, 207B3:33
- Albian–Maastrichtian interval, isotope data, 198A1:97
- Albian–Santonian, magnetostratigraphy, 207A4:19
- albite
- alteration, 111A3:67; 135A(1)11:644; 152B10:131–
 133; 176B1:5; 187A13:8; 187B1:7–8; 206A3:66
- amphibolites, 173A6:130–131
- Bengal Fan, 116B1:6
- breccia, 173A7:193–195
- clasts, 173A9:282–283
- diabases, 180B3:7
- folds, 173A6:143–144
- gabbros, 153B6:105–106; 176B10:9–11; 180B3:7
- geochemistry, 193B8:4–5
- hydrothermal alteration, 139B11:214; 209A5:15;
 210A3:56–57
- lithology, 152A9:116; 175A6:152; 180B6:6–16;
 210A4:7
- magnesium number, 176A3:49
- metadiabase, 180A8:17
- mineral chemistry, 152B10:137, 139; 200B3:11
- occurrence, 126B34:522
- percentage vs. oxygen isotopes, 137/140B8:103
- petrography, 148A2:47; 160B36:456
- phase equilibria, 163B9:103
- photograph, 152B10:144; 153B6:120; 173A7:188;
 206A3:208
- photomicrograph, 179A4:128; 206A3:209–211, 222;
 209A5:84
- plagioclase composition, 161B19:269
- porphyroblasts, 210A3:239
- potassium logs vs. photoelectric effect logs, 178A5:85
- precipitation, 139B20:406
- replacement, 206B7:3
- scanning electron microscopy, 174A_B7:47, 52
- secondary minerals, 137/140B15:172, 178–179;
 180B3:8; 206B8:3

- sediments, 160B45:581
sills, 139B8:116–117
Site 778, 125B25:420, 424
tonalite gneiss, 173A6:131
veins, 140A2:76; 169A5:216–217; 176B9:8, 20, 29;
206A1:32
volcanic basement, 163X_A8:9
vs. depth, 111A3:66; 140A2:66; 148A2:52; 175A9:243
X-ray diffraction data, 172B5:21; 175A9:235; 10:281–
282
See also anorthite/(anorthite + albite) ratio; quartz-al-
bite-orthoclase assemblage
albite/(albite + quartz) ratio, 175A10:281
albite twinning, photomicrograph, 183A7:121
albitization
 calcium, 127/128B(1)9:137
 chemical effects, 148B4:49
 geochemistry, 141A6:116–117
 meta-anorthosite clasts, 173A7:191
 occurrence modes, 127/128B(1)9:136
 photograph, 153B8:149
 provenance information destroyed, 127/128B(1)9:148
 sandstone, 127/128B(1)9:136–137
 silica source, 127/128B(1)9:148
 sodium, 127/128B(1)9:137
 sulfate formation, 127/128B(1)9:143–144
 temperature, 127/128B(1)9:136
 veins, 153B9:171
alcohol isomers, mass spectra, 160B23:289
alcohols
 sapropels, 160B21:265
 sediments, 146B(2)14:205–206; 155B34:543–545;
 175B5:8; 10:5–7
 See also b-amyrine; cinnamyl/vanillyl ratio; *n*-alco-
 hols; *ter*-alcohols; triterpenes
alcohols, ester-bound
 Lima Basin C, 112B39:601–602
 Site 681, 112B39:601–602
 Trujillo Basin, 112B39:601–602
alcohols, fatty
 organic-rich sediments, 162B15:211–214
 vs. age, 162B15:213
alcohols, steroidal
 carbon number, 160B22:279
 Peru margin, 112B34:541–542
 sediments, 112B34:541–542; 146B(2)14:207–209;
 175B5:8–9
alcohols, triterpinoid, sediments, 155B34:548
alcohols, wax
 chromatograms, 155B34:546–549
 vs. depth, 155B34:550, 553
aldehyde. *See* acid/aldehyde ratio
Alder
 vs. age, 167B20:242–243
 vs. depth, 167B11:174; 17:220–222
 vs. ferns ratio, 167B17:223, 225–226
aldose
 hydrolysis, 155B33:533–538
 vs. depth, 155B33:536
algae
 biogenic components, 161B6:78–80
 biomarkers, 207A10:5–6
 biostratigraphy, 144A5:173–175; 152B14:201–208
 carbonates, 144B6:130
 Cenozoic, 152B16:221–231
 Cretaceous–Paleogene interval, 144B49:873–885
 deposition, 144B47:826–828, 836–840
 dolomite, 103B11:181
 floatstone, 103B6:87
 grainstone, 103B7:87
 lithofacies, 143B30:475, 477
 lithology, 160A8:223; 160B38:492; 166A6:77
 macrotrubidites, 103B31:517–519
 Messinian, 161B43:543–546
 Miocene, 180B15:1–6
 outer perimeter ridge, 144B15:296–300
 packstone, 103B6:87
 photograph, 144B16:333; 166A7:158
 photomicrograph, 161B3:54; 180A12:81
 Pigafetta Basin, 129B4:120
 sapropels, 160B21:265–266; 22:279; 23:289
 sediments, 133A(1)5:147; 164B5:48, 50–51, 53–56;
 175B10:7
 Site 639, 103B6:59–60, 88; 11:191–192
 Site 642, 104A4:149
 symbionts, 130B18:323–324
 textures, 144B16:317–319
 turbidites, 166B5:50–53, 57–60
 wackestone, 103B6:86; 8:107
 wackestone-floatstone composition, 103B6:64, 71
 See also *Botryococcus braunii*; Charophytes; chryso-
 phycean cysts; Codiaceae; corallinaceans; cy-
 anobacteria; dasycladaceans;
 Eustigmatophyceae; microalgae; Nannochlo-
 ropsis; prymnesiophytes; rhodoliths; Rhodo-
 phyta
algae, aquatic, chromatograms, 207A10:17
algae, calcareous
 biostratigraphy, 160A6:135
 Miocene, 160B33:421
 See also dasycladaceans; Eustigmatophyceae; *Halimeda*
algae, colonial, deposition, 143B12:191
algae, coralline
 photograph, 161B6:79
 photomicrograph, 180A12:83; 197A3:66
 See also Rhodophyta
algae, encrusting, photograph, 144B9:172
algae, green
 Cretaceous, 143B10:139
 turbidites, 166B5:57–60
 vs. depth, 144B14:281
 See also Chlorophyceae; chrysophycean cysts; Codi-
 aceae; cryptophytes
algae, haptophyte, sapropels, 160B23:289
algae, photosynthetic, chromatograms, 208A5:16
algae, red. *See* red-algal *Amphistegina* facies; rhodoliths;
 Rhodophyta
algae, red coralline. *See* rhodoliths; Rhodophyta
algal assemblages, deposition, 144B12:246
algal borings, lithology, 197A5:7
algal cysts, sediments, 131B5:69

- algal fragments
 - lithology, 180A12:17
 - Miocene, 160B33:420–421
 - photograph, 180A12:82
 - sediments, 150A6:96
 - volcaniclastics, 180B8:5
- algal limestone. *See* limestone, algal
- algal mats
 - authigenesis, 144B26:465–466
 - geochemistry, 172B(overview):4
 - sediments, 172B1:2
 - See also* algal-microbial mats
- algal-microbial mats
 - calcified, 143A7:207–208
 - Cretaceous, 143B9:120; 10:139–140; 32:547–548
 - lithology, 143B12:177
 - See also* algal mats; algal structures; microbial mats
- algal origin, organic matter, 149B46:711
- algal-rich facies, lithofacies, 144B17:340–359
- algal structures
 - photograph, 143B9:130
 - See also* algal mats; telaginite
- alginite
 - mud, 131B30:379, 382
 - sediments, 143B12:183; 157B21:366
 - Site 798, 127/128B(1)25:429
 - Sites 798–799, 127/128B(1)38:670
- alietite
 - alteration, 197A6:16
 - lithology, 197A1:16
- aliphatic acids
 - anion organic precursors, 125B22:387–389
 - pore water, 144B27:469–474
 - sediments, 135B44:711–712
- alkadienone. *See* methylalkadienone
- alkali amphiboles
 - photomicrograph, 157A7:357–358
 - stratigraphy, 157B15:231
- alkali basalt flows
 - lithology, 144A7:284–285; 10:353
 - magma, 129B22:425–427
 - trace elements, 144B30:531–532
- alkali basalts
 - backarc volcanism, 141A3:24–25
 - basement, 197A4:18–19; 5:10
 - basins, 161A1:11
 - composition, 144A7:279; 183A1:80, 88
 - dispersed volcanic ash, 119B17:326
 - elastic-wave velocity, 144B40:667–670
 - geochemistry, 143A6:141, 143
 - geophysical logs, 144B39:659–661
 - guyots, 144A3:86
 - incompatible elements, 129B19:373–376
 - isotope geochemistry, 144B31:542–543
 - Jurassic, 129B19:362–363
 - lava, 161B26:350
 - lithology, 183A1:32–33
 - mid-ocean-ridge petrology, 203B1:4–5
 - mineral chemistry, 129B17:305–343
 - mineral separates, 129B20:395
 - Nazareth Bank, 115B6:67
 - petrography, 129B17:307; 19:363
 - petrology, 144B28:475–491; 29:496
 - photomicrograph, 157A8:416; 197A5:57–59, 65–66
 - radiometric age, 129B20:393
 - rock magnetism, 144B36:615–630
 - sills, 143A2:28
 - Site 797, 127/128B(2)58:920; 83:1339–1340
 - Site 801, 129B1:4
 - strontium isotopes, 129B21:409–410
 - ternary diagrams, 144B30:519
 - Tertiary backarc migration, 141A3:26
 - volcanic substrate, 144B53:942
 - volcanology, 197A3:15–18
 - well-logging, 144A9:318–320; 10:393
 - zirconium/titanium ratio, 203A3:14
- alkali feldspars
 - Atlantic Ocean S subantarctic, 114B40:739
 - andesites, 134A8:154
 - hydrothermal alteration, 210A3:56–57
 - lithology, 163X_A6:20; 180A5:8–9; 183A7:7–8, 14; 210A3:28, 33
 - mineral chemistry, 129B17:308
 - phenocrysts, 183A7:42–43
 - photograph, 183A5:87; 7:85
 - photomicrograph, 157A7:356; 9:457; 10:524; 163X_A6:36, 38; 180A7:42; 183A5:108, 110; 6:125; 7:121
 - porphyroblasts, 210A3:239
 - preglacial sedimentary basin fillings, 163X_A8:4–5
 - quartz trachytes, 180A7:13
 - volcanic ash, 127/128B(2)87:1379, 1392
 - volcanic siltstone, 183A5:32
 - Yaquina Basin, 112B28:475
 - See also* microcline; quartz-alkali feldspar intergrowth
- alkali index, vs. aluminum oxide, 205A5:61
- alkali metals
 - geochemical data, 152A8:99
 - pore water, 152B25:297–299; 168A4:83; 169A3:116
 - sediments, 152A11:236; 12:270; 169S_B1:40
 - tephra, 186B9:8–9
- alkali olivine basalts
 - eruptions, 144A4:138
 - isotopic composition, 129B21:412
 - petrography, 144A10:371, 373–374
 - petrology, 144B29:499–502
 - rock magnetism, 129B25:455–470
 - velocity, 129B28:504
- alkali pyroxenes
 - acmite-diopside-hedenbergite, 129B17:317
 - mineral chemistry, 129B17:311, 314–315
- alkalic rhyolites, volcanic ash, 151B17:315–317
- alkalic rocks
 - magmatism, 149B1:16
 - volcanic rocks, 183A7:40–42
- alkalic volcanic clasts. *See* clasts, alkalic volcanic
- alkaline earths
 - altered/parent rocks, 193B6:16
 - geochemical data, 152A8:99
 - hydrothermal fluids, 139B20:401–402
 - lava flows, 152A9:137–139

- pore water, 131B31:390, 394–396; 156B12:165, 167–168; 25:296–297; 168A4:83; 169A3:115; 5:218; 6:278
- sediments, 152A11:235; 12:270; 169S_B1:39–40
- Sumisu Rift, 126B26:394
- alkaline feldspar. *See* alkali feldspars
- alkalinity
- ammonium, 117A11:347; 117B30:506–507
 - authigenic carbonates, 117A10:279
 - Barbados Ridge, 110A4:100; 6:334; 7:418; 8:496; 9:528; 110B11:159–160
 - basalts, 115B7:75
 - bioreactors, 207A7:29
 - Broken Ridge, 121A6:136
 - Cagayan Ridge, 124A12:328, 330
 - calcite-gypsum supersaturation, 121B22:448
 - carbon cycling, 204A7:11; 9:11
 - carbon dioxide reduction zone, 188A3:45
 - carbonates, 115B34:640; 119B18:359, 372; 126A9:378; 127A5:204; 127/128B(1)6:94; 160A4:67, 69; 165B19:291
 - Celebes Sea, 124A10:154–156; 13:356
 - chloride uptake, 125B21:381
 - concentration adjusted for surface-water salinity, 133A(1)13:520
 - contour plot vs. depth, 182A7:55
 - cores, 144A12:447
 - depletion in pore water, 129B14:270
 - diagenesis, 133A(1)15:638–639; 160A5:110; 9:311; 10:363, 366; 161A5:146; 6:236; 168A4:80; 172A3:60–63; 4:123, 125; 5:218, 221, 223; 174A_A3:73–74
 - dolomite, 127A7:362; 175A16:498
 - Dronning Maud Land margin, 113A5:374–375
 - fluid flow, 166A10:330; 168A4:84; 186B14:9
 - gas hydrates, 167B32:354
 - geochemical cycles, 205B6:9
 - geochemical data, 152A8:98–99
 - gradient effect of volcanic alteration, 121A11:334
 - hydrothermal fluids, 139B20:398–399
 - Indus Fan, 117A8:179; 117B30:503
 - inorganic carbon, 174A_B1:6
 - organic matter, 159A6:194; 160A5:110; 8:247; 9:310–311; 10:363
 - Japan Sea sites, 127/128B(2)79:1265
 - Kerguelen sediment ridge, 119A14:517–518; 15:545
 - Kerguelen-Heard Plateau N, 119A7:139–140; 10:186
 - Lima Basin, 112A14:184–185; 22:823, 826; 112B2:32; 25:426, 433
 - lithology, 181A1:14
 - Mascarene Plateau, 115A5:260; 115B7:77
 - Maud Rise, 113A5:129–130; 113B10:138, 140
 - measured vs. predicted values, 119B19:389
 - microbiology, 166A9:255; 169B2:5; 180A9:40–41; 201A1:15; 204B15:14–16
 - Nazareth Bank, 115A4:144; 115B7:77
 - Ninetyeast Ridge, 121A12:398
 - Oman margin, 117A4:49; 11:346–347; 12:402–403; 13:432; 14:458; 15:480; 16:520; 18:578
 - organic carbon decomposition, 127/128B(2)79:1262
 - organic matter, 127A7:362; 175A5:132; 20:550–552; 204A3:17; 10:14–15
 - Owen Ridge, 117A9:229; 19:617
 - peak in pore water vs. organic carbon mass accumulation rates, 167B32:350
 - Peru margin, 112A1:16; 2:41
 - phosphate, 123A4:147
 - Pisco Basin W, 112A21:725–726, 732; 112B25:426
 - pore water, 115B34:631, 634; 117B30:505–507; 119B18:364–369, 373; 127/128B(2)79:1264; 129A4:207; 129B14:270–273; 130A8:324; 12:549; 131A6:128–138, 162, 168; 131B12:161–162, 166–170; 31:388–392; 133A(1)4:101, 105, 107; 5:155–156; 6:189–190; 7:216; 8:265–267; 9:316–319; 10:369; 133B27:431–432; 30:468; 32:481, 483; 35:517, 520–524; 43:633–634; 48:708–709; 54:783; 134A7:114; 9:204; 10:279–280; 11:347; 12:417; 134B42:680–688; 136A4:47; 5:71; 138A(1)10:222; 11:297; 12:355; (2)16:920; 139A5:115; 6:188; 143A6:136; 7:215; 9:330; 144A3:67–68; 4:129; 5:179; 6:232; 8:302; 10:366; 11:430; 144B27:469–474; 145A3:52; 4:96; 5:150, 152; 6:239; 7:312; 146B(2)25:331; 149A5:135; 6:191; 7:244; 150A6:99; 7:167; 8:235; 9:286; 10:330, 333; 151A5:82; 6:130; 7:181–182; 8:240; 9:285–286; 10:333; 11:367; 154A4:89–92; 5:179, 181; 6:249; 154B8:355; 9:436–437; 155A6:105–106; 7:140; 8:190; 9:217; 10:260; 11:295; 12:348; 13:398; 14:424; 15:449; 16:476; 17:520; 18:557; 19:583; 20:610; 21:650; 22:674–675; 156A6:149; 157A4:78; 5:123–124; 6:154–155; 7:355; 8:415; 9:457–458; 10:523; 157B38:630; 159A7:243; 8:284; 160A7:187; 12:437; 14:485; 160B44:572; 161A4:89; 7:320–321; 8:380; 9:403–405; 162A3:76, 79; 4:115; 5:157; 7:246; 8:274; 9:309; 10:361; 164A5:89; 6:128; 8:264; 9:300–301; 165A3:75; 4:167–168; 5:259–260; 6:319; 166A6:93–94; 7:161, 168; 8:189–191; 9:251–254; 10:313–316; 167B32:343; 168A6:176–177; 169A5:218; 6:279; 170A3:73; 4:133; 5:173–175; 7:235–236; 171B_A3:77; 4:143; 5:207–210; 6:285; 7:334; 172A7:314, 316; 174A_A3:72; 4:122–123; 5:170–171; 175A3:72; 4:100; 5:129; 6:163; 7:188–189; 8:211–212; 9:255; 10:294–295; 11:325; 12:367; 13:409; 14:444; 15:472; 177A3:12; 4:16; 6:14–15; 8:16; 9:13; 178A4:21; 5:18; 6:14; 7:16; 8:13; 9:15; 180A5:30; 6:54, 56, 61; 7:21; 8:30; 9:38–39; 12:36, 38; 181A3:22; 4:18–19; 5:19; 6:28; 7:38; 8:30; 9:20; 182A1:18, 24, 32; 4:31; 5:20; 6:29; 7:21–22; 8:25; 9:19; 10:24; 11:14; 12:20; 184A4:21; 5:18; 6:13–14; 7:18; 8:8; 9:22; 186A1:10; 5:25–26; 186B1:4; 188A3:43–47; 4:30; 5:23; 189A3:43, 161; 4:20, 60; 5:47, 158; 6:51, 166; 7:44, 140; 190A4:17, 64; 8:17, 44; 193A4:48; 194A3:15; 4:21; 5:16; 6:13; 8:17; 9:15; 195A3:30–40; 4:34–36; 195B9:3–4; 198A3:34; 4:26; 5:27; 6:24; 7:23; 8:21; 9:30; 199A8:15; 9:10; 10:16; 11:25; 12:25; 13:21; 14:18; 15:12; 201A1:19–20, 23–24, 31, 40; 6:14; 7:13; 8:14; 9:12; 10:13; 11:13; 12:12;

- 202A3:13; 5:13; 6:14; 7:17; 8:23; 9:18; 10:17;
11:15; 12:16; 204A4:14, 46; 205A6:16;
206A3:38; 207A5:26; 208A3:20; 4:18; 5:14, 48;
6:22; 7:21; 8:22
Prydz Bay, 119A8:312; 9:362, 374; 11:418
redox, 161A6:236, 238
rock-water reaction zone, 188A3:46
Salaverry Basin, 112A12:266, 269; 13:319, 321; 16:562
sapropels, 160B20:258
seawater-peridotite mud interaction, 195B4:6
sediment/water interface, 119B19:385
sediments, 130A7:250; 134A8:157–158;
146B(1)26:388–382; 149A4:98; 152A11:234–
235; 164A8:249; 166A11:363–364; 167A(1)4:74;
5:104; 6:144; 7:166; 8:193; 9:232; 10:260;
11:295; 12:328; 13:368; 14:405; 15:447; 16:473;
167B32:346, 349; 169S_B1:39–40; 172A6:285–
286; 180B(synthesis):15; 182A1:15; 186A1:13–
14; 4:38; 190A5:24, 70; 6:17; 7:14; 9:18–19
serpentinization vs. sodium effects, 125A12:284–285
Site 682, 112A14:388, 390; 112B32:522
Site 685, 112A17:626, 628, 629–630; 112B32:522, 525
Site 688, 112A20:909, 911–912; 112B32:522, 525
Site 690, 113A6:230
Site 696, 113A11:647
Site 699, 114A6:174
Site 700, 114A7:277–278
Site 701, 114A8:389
Site 702, 114A9:499
Site 703, 114A10:567
Site 704, 114A11:648; 114B26:479
Site 708, 115A6:416
Site 709, 115A7:480
Site 710, 115A8:609
Site 711, 115A9:674
Site 712, 115A10:750
Site 713, 115A10:750; 115B7:77
Site 714, 115A11:857, 863
Site 715, 115B7:77
Site 716, 115A13:1013, 1015
Site 738, 119A7:256–257
Site 744, 119A13:491
Site 747, 120A6:117
Site 748, 120A7:208
Site 749, 120A8:260
Site 750, 120A9:309
Site 751, 120A10:357
Site 765, 123A4:145–146; 123B3:81
Site 766, 123A5:303
Site 779, 125A7:126
Site 780, 125A8:158, 161
Site 781, 125A9:186–187
Site 784, 125A12:281, 284
Site 786, 125A14:328–329
Site 787, 126A5:88
Site 794, 127A4:108
Site 795, 127A5:204
Site 796, 127A6:279
Site 797, 127A7:362, 368
Site 798, 128A4:173, 181
Site 799, 127/128B(2)34:610; 128A5:317–318, 328
Site 803, 130A5:133
Sites 790/791, 126A7:187–188
Sites 849 and 850 comparison, 138A(2)15:854
sulfate depletion, 164A5:90
sulfate reduction, 112A1:17; 117A11:370;
117B30:511; 119B19:388; 127A6:279;
188A3:44–45
Sulu Sea, 124A11:239, 241; 12:328
Tiburón Rise N, 110A5:230–231, 233–234;
110B11:159
Trujillo Basin, 112A16:552, 562
volcanism, 157A2:21–22
vs. age, 130A10:532; 154A9:439; 167A(1)12:339
vs. ammonium, 181B7:10; 198A4:65
vs. assigned ages, 130A12:550
vs. calcium, 119B19:380, 385; 121A10:286; 12:399;
128A4:183
vs. depth, 110A4:99; 113A5:380; 6:237; 9:730, 735–
737; 10:561–562; 11:650–651; 113B10:138–143;
114B37:687; 129A3:125; 133A(1)4:103; 9:318;
10:372, 374; 12:474; 13:525; 14:582, 584;
15:634, 640; 16:710–711; 17:783; 133B48:715;
134A7:113; 8:160; 9:207; 10:282; 12:422;
13:506; 134B8:113, 117–118, 124–126;
135A(1)5:220; 8:369; 10:539; 137A2:37; 137/
140B13:145; 138A(1)9:159; 10:232; 11:298;
12:360; (2)13:710; 14:775, 778; 16:936; 17:998;
18:1047; 19:1084; 138B26:603; 139A5:125;
6:194; 7:333; 8:475; 139B22:435; 43:688;
141A8:281; 10:406; 141B21:282–283; 29:369–
370; 143A6:139; 9:332; 144A3:73; 4:130; 5:182;
10:368; 144B51:910; 145A3:64; 4:105; 5:152;
6:244; 8:360; 146A(1)4:84–86; 5:189; 6:270;
7:345; 146B(1)25:381; 26:388, 393; 149A4:99;
5:135; 6:192; 150A6:103; 7:172; 8:236; 9:290;
10:324, 333; 151A5:82; 6:130; 152A8:102;
11:238; 12:271; 154A4:103; 5:184; 6:256;
154B7:305; 8:381; 155A6:112; 7:149; 8:192;
9:219; 10:261; 11:296; 12:354; 13:402; 14:426;
15:456; 16:481; 17:528; 18:558; 19:585; 20:615;
21:651; 22:677; 155B30:498–501; 156A6:148;
7:240; 157A4:78; 5:125; 6:157; 7:365; 8:419;
9:460; 10:526; 157B32:563; 159A5:110; 6:194;
8:285; 160A4:80; 5:114; 7:191; 8:253; 9:312;
10:366; 11:394–396; 12:436–437; 15:486;
160B29; 161A4:92; 5:152; 6:260–261; 7:332;
8:387; 9:412; 161B32:419; 33:426–427;
162A3:80–81; 4:119; 5:162; 6:196; 7:248; 8:281;
9:318; 10:374; 164A5:93; 6:131; 7:203; 8:271;
9:303; 164B9:89, 91–92; 13:144; 30:305;
165A3:75; 4:167; 5:259; 6:319; 7:372; 8:396–
397; 165B19:292, 294–295; 166A6:94; 7:163;
8:189; 9:253; 10:314; 11:363; 166B17:181–185,
189; 167A(1)4:79–80; 5:110–111; 6:148; 7:170;
8:204; 9:232; 10:265; 11:302; 12:339; 13:371;
14:414; 15:447, 456; 16:480; 167B32:348;
168A4:83; 5:144; 6:180; 168B8:98–102;
169A3:115; 4:176; 5:220; 6:280; 169S_A2:47, 54;
170A3:79; 4:133; 5:178; 7:237; 171B_A3:84;
4:147; 5:217; 6:296; 7:341; 172A3:62; 4:136;
5:226; 6:285; 7:316; 174A_A3:75; 4:126; 5:173;

- 175A3:78; 4:107; 5:134; 6:169; 7:191; 8:215;
9:260; 10:300; 11:331; 12:370; 13:415; 14:450;
15:478; 20:549, 552; 177A3:33; 4:48; 5:51; 6:43;
7:34; 8:50; 9:41; 178A4:77; 5:70; 6:49; 7:52–53;
8:47; 180A6:162; 9:114; 12:118; 181A3:54; 4:40;
5:46; 6:73; 7:93–94; 8:75; 9:49; 182A4:65; 5:46;
6:70; 7:50; 8:54; 9:43; 10:54; 11:31; 12:46;
184A4:59; 5:57; 6:38; 7:56; 8:23; 9:68;
185A4:113; 186A4:128; 5:73; 186B14:18–19;
188A3:125; 4:77; 5:65; 188B14:10; 189A3:93;
4:38; 5:92; 6:105; 7:84; 190A4:64, 69; 5:70; 6:46;
7:38; 8:44; 9:51; 194A3:46; 4:80; 5:63; 6:48;
8:53; 9:43; 195A1:45, 55; 3:115; 4:132; 195B9:8;
10:5; 197A1:85–86; 5:69; 6:73; 198A3:94; 4:64;
5:65; 6:58; 7:54; 8:51; 199A8:35; 9:26; 10:39;
11:64; 12:69; 13:53; 14:38; 15:30; 201A6:43;
7:46; 8:35; 9:37; 10:39; 11:49; 12:32; 201B7:15–
16; 202A1:107; 3:36; 4:48; 5:42; 6:47; 7:55; 8:67;
9:63; 10:58; 11:53; 12:63; 13:51; 204A3:59; 4:61,
66; 5:28; 6:39; 7:36; 8:48; 9:46; 10:52; 11:35;
204B15:36; 16:14–18; 19:9–10; 205B6:20, 23;
206A3:148; 4:57; 207A5:67; 6:66; 7:62; 8:58;
208A3:57; 4:58; 5:48; 6:67; 7:57; 8:56
vs. magnesium, 139B20:402; 169A4:172
vs. phosphate, 198A4:65
vs. phosphate and ammonium, 119B19:383
vs. subbottom depth, 141A6:120; 7:217
vs. sulfate, 128A4:183; 168A4:84; 188A3:128;
204B15:35
vs. sulfate/chloride ratio, 182A5:48
vs. sulfate and calcium, 119B18:362
Weddell Basin, 113B10:139, 142
Yaquina Basin, 112A16:463, 466; 112B32:522
- alkalinity, titration
vs. depth, 169S_A2:51, 57
vs. dissolved sulfate, 139B25:476
- alkalinity/chloride ratio, pore water, 182A4:31
- alkalis
alteration, 131A6:157; 193B6:16
basalts, 180A12:27; 183A5:117
crustal recycling tracers, 123B8:184
granites, 161A6:216
hydrothermal fluids, 139B20:399–401
lava flows, 152A9:137–139; 183A7:40
pore water, 131B31:389–390; 156B12:165, 167;
169A5:218; 6:278
rhyodacites, 193A6:8
sedimented hydrothermal systems, 139B20:407
volcanics, 120B(1)11:153; 161B12:146
volcanism, 183B1:22–23
vs. age, 135B3:34
vs. silica, 132B5:63; 141B12:175–176; 143A6:153;
7:229; 143B15:253; 151B17:319; 18:342; 19:356;
161B27:366; 178B22:17; 183A1:58, 71;
192A1:39, 45; 3:108; 4:83; 5:70; 6:72; 7:34
See also sodium oxide-potassium oxide series
- alkalis-iron-magnesium diagrams, glasses, 135B3:38
- alkalis (total) vs. silica (TAS)
tephras, 119B17:326, 333–334
vs. silica, 123B4:100
- alkan-1, 13, 30-triol
mass spectra, 160B23:289
sapropels, 160B23:287, 289
- alkan-1, 15-diols, long-chain, sapropels, 160B22:277
- alkan-1-ol-n-ones, sapropels, 160B22:277, 279
- alkan-2-ones, turbidites, 157B35:593–595, 600–601
- alkandiols
sapropels, 160B23:287
vs. depth, 161B30:397
See also diols; *n*-alkandiols
- alkane-alkene doublets, Site 799, 127/128B(1)35:627
- alkanes
chromatograms, 156A6:145; 169A6:284; 172B1:4
geochemistry, 139A6:197–200
Norwegian Sea, 104B14:313–314, 316–317
sediments, 139B15:331–336; 24:449–454;
143B12:187–188; 150B18:337; 157B21:367;
164B5:48–51; 167B12:186; 172B1:2; 175B10:13
Site 688, 112A20:907, 910
turbidites, 157B35:593, 601
vs. depth, 167B12:189
Weddell Sea, 113B16:201–202, 206
See also 4,23,24-trimethylcholest-22-en-3-ol; 4,23,24-
trimethyl-5-cholest-8(14)-en-3-ol; 4,23,24-trimethyl-
ethyl-5-cholest-22-en-3-ol; 5-cholestan-3-ol; *an-*
teiso-alkanes; cycloalkanes; ethene; *iso*-alkanes;
isoprenoid/alkane ratio; methylcyclohexane;
methylcyclopentane; *n*-alkanes; neopentane;
olefins; propylene; ter-alcohols; ter-alkanes
- alkanes, acyclic, biomarkers, 207A10:5–6
- alkanes, average chain length
sediments, 202B7:3–4
vs. depth, 202B7:9
- alkanes, branched, sediments, 123B11:219–221
- alkanes, isoprenoid
sapropels, 160B23:287–288
sediments, 151B23:409–410
- alkanes, long-chain, Pisco Basin W, 112B34:540–541
- alkanoates, long-chain, lipids, 112B34:542–543
- alkanoates, Peru margin, 112B34:542–543
- alkanolones. *See* ketols
- alkanols
sapropels, 160B23:287, 289
See also iso-alkanes; *n*-alkanes; *n*-alkanols
- alkatrienes
sediments, 167B12:186, 188
vs. depth, 167B12:190
- alken-2-ols
mass spectra, 160B23:289
partial gas chromatograms, 160B23:292
sapropels, 160B23:286–287, 289
- alken-2-one, sapropels, 160B23:286–287
- alken-3-ols
mass spectra, 160B23:289
partial gas chromatograms, 160B23:292
sapropels, 160B23:286–287, 289
- alken-3-one, sapropels, 160B23:286–287
- alkenes
sapropels, 160B23:287
See also alkane-alkene doublets; ethylene; trans-2-
butene

- alkenoates
 sediments, 167B12:186
 vs. depth, 167B12:190
 alkenoates, long-chain, sediments, 175B5:6–7
 alkenols, sapropels, 160B21:264
 alkenone isotope approach, 208A1:57
 alkenone unsaturation index
 glacial–interglacial cycles, 112B35:547; 117A9:237
 Oman margin, 117A11:353, 359–360; 117B25:448
 Owen Ridge, 117B25:445–449
 Pisco Basin, 112A16:549
 sea-surface temperature effects, 117B25:445–449
 Site 731, 117B25:448
 vs. calcium carbonate, 117A9:248
 vs. time, 146B(2)18:260
- alkenones
 abundance vs. carbon ratio, 167A(1)11:306
 biomarkers, 207A10:7
 bitumens, 160A5:115, 117; 7:189; 8:251–252;
 167A(1)11:296–297; 13:369–370
 chromatograms, 146A(1)5:186; 6:269; 167A(1)11:305;
 208A6:25
 concentration, 165B16:239–247; 175B10:30
 desaturation, 177B(synthesis):11
 Neogene, 202B1:3–4
 organic biomarkers, 199B25:1–11
 paleotemperature, 161A4:82; 5:144; 6:233; 7:318
 paleothermometry, 167B10:153–161; 202B1:5
 properties, 199B25:8
 sapropels, 160B22:273; 23:286–287, 289;
 161B39:492–499
 sea-surface temperature, 161B39:489–503;
 167B26:297, 301–302; 32:359–360
 sediments, 138B27:605–613; 146B(2)14:209–210;
 150B18:336–337; 165B4:96; 167A(1)11:296–
 297, 305; 13:374; 167B12:186–189; 186B13:1–
 12; 190/196B13:1–10; 202B7:4, 12–14
 Sites 798–799, 127/128B(1)38:669–670
 stratigraphy, 184B17:1–17
 temperature records, 160B26:309–331
 unsaturation indices, 146B(2)19:257–264;
 167B12:185–186
 vs. age, 167B10:157–158; 32:359; 175B19:16;
 184B17:14
 vs. depth, 161B39:493–498; 167A(1)11:306; 13:374;
 167B12:190–191; 186B13:6; 190/196B13:8;
 202B7:10–11
 vs. temperature, 167B10:156
 See also *n*-alkenones
- alkenones, long-chain
 gas chromatograms, 175B5:19
 Oman margin, 117A2:28; 117B34:565, 569
 organic-rich layers, 161B30:395–396
 Owen Ridge, 117A2:28
 Peru margin, 112A2:38
 Pisco Basin W, 112B34:542–543
 sapropels, 160B21:265–266; 22:276
 sea-surface temperatures, 112B35:547; 117A11:237
 sediments, 112A16:549; 175B5:6–7; 10:7, 13;
 184B18:5
 Trujillo Basin, 112A34:546; 35:547
 vs. depth, 184B18:13, 15
 alkyl-1, long-chain, sediments, 175B5:7
 alkyl-1-*n*-diols, sediments, 175B5:7
 alkyl-1-*ol-n*-ones, sediments, 175B5:7
 alkyl diols
 sediments, 175B10:7–8; 184B18:5
 vs. depth, 184B18:13, 15
 alkyl keto-ols
 sediments, 175B10:7–8; 184B18:5
 vs. depth, 184B18:13, 15
 alkyl naphthalenes, maturation, 139B24:458
 alkyl phenanthrenes, maturation, 139B24:458
 alkylbenzenes
 Oman margin, 117B33:552
 Site 680, 112B9:142–143, 152
 turbidites, 157B35:593–595, 601, 604
 alkylcyclohexanes, sediments, 157B21:367
 alkylindenes, turbidites, 157B35:593, 596–597
 alkyl-naphthalenes, turbidites, 157B35:593, 596–597, 604
 alkylphenols, turbidites, 157B35:593, 596, 604
 alkyls. See *n*-alkyls
 alkylthiophenes, turbidites, 157B35:593–596, 601–604
 Allerød. See Bølling–Allerød interval
 allisoleucine. See alloisoleucine; D-allisoleucine/L-isoleucine ratio
- allochems
 lithology, 161A8:357; 166A9:238–241; 10:295–299;
 11:350–356; 173A4:74; 194A3:5–7
 photograph, 210A3:131
 photomicrograph, 159A6:171; 173A4:80
 See also debris; sponge spicules
- allochthonous beds
 emplacement, 160B54:736
 lithology, 135B7:120–121
- alloisoleucine, racemization, 174AXS_A7:27–29
 allostratigraphic packages, deposition, 182B4:9–11
 allostratigraphy, Miocene, 150X_B11:134
 allounits, Miocene, 150X_B11:143
- alloys
 photograph, 147B4:89
 See also kamacite; taenite
- alloys, nickel-iron, platinum-group elements, 147B4:83
- alluvial fan deposits
 De Marchi Seamount, 107B38:644–645
 Eocene, 188B1:6–7
 lithofacies, 160B43:551, 558–559
 Sardinian margin, 107A10:785; 107B38:641
 sedimentation models, 160B43:563–564
 tectonics, 160B54:746, 748–749
- alluvial plains
 glaciation, 188B1:6
 lithology, 174AXS_A4:17; 5:37–38; 188A4:14
 seismic units, 188B8:5–6
- almandine, garnet, 161B19:268; 20:287; 183B16:2
- alnoite
 intrusions, 192B1:4
 Prince Charles Mountains, 120B(1)2:39
- along-strike variations, geology, 190A1:7
- alpha filter, geochemical logs, 136B13:153–156
- alpha-quartz, alteration, 168A4:73
- alpha-serpentine, photomicrograph, 209A7:61

- alteration
- actinolite, 111A3:63–67
 - albite, 111A3:67
 - albitization, 118B9:208
 - amphibole, 147B10:195; 179A4:9
 - Antarctic Circumpolar Current origin, 121B37:735
 - aragonite veins, 147B16:311–313
 - assemblages, 197A3:24–30
 - augite, 127/128B(2)55:885
 - authigenic mineral sequences, 124B1:6
 - basalts, 115A4:146–148; 115B3:26; 7:77; 8:85–91; 9:93–100; 119B16:307, 313–315; 120B(1)1:25, 27; 2:38; 3:55–56; 6:79; 121A11:321–322, 324; 12:391, 393; 124A10:157; 127/128B(2)51:838; 55:884–888; 57:899, 901; 130A7:254; 12:549–551; 131B16:198; 134A8:153–154; 135A(1)4:147–148; 136A5:79–80; 137/140B4:43–51; 141B28:349–360; 144B29:497–498, 501–502; 147B9:174–179; 151A5:78; 152A11:229; 163A3:27–28; 5:60, 62–64; 163B3:32–34; 8:79–93; 168A4:70; 183B15:1–40; 185A3:25–31; 187A1:9–11; 15:7–9; 187B1:6–9; 192A3:25–26; 4:14–15; 195A4:20–22; 197A3:24–29; 200A4:26–29; 200B2:3; 203A3:15–17; 206A1:31–32; 3:65–73; 210B9:14–15
 - basement, 119B16:314; 121A2:532–533; 123A4:189–190, 192–194; 127A4:122–125; 127/128B(2)52:849; 55:883–889; 56:891; 58:908–916; 79:1265–1267; 80:1282; 83:1338; 128A3:88–91; 5:321; 131A6:153, 155; 136B10:119–132; 137A2:28–29; 168A4:70–77; 5:103, 124, 126–133; 6:173–175; 183A6:36–46; 7:17–35; 185A1:11–12, 24; 3:18–31; 4:25–26, 29–30; 191A4:33–35; 192A4:19; 196A3:31; 206A3:65–73
 - basement/sediment contact, 161A6:216
 - benthic foraminiferal isotope record, 113B47:836
 - biogenic silica, 186B14:9
 - borehole fluids, 137/140B13:141–152
 - breccia, 149A6:168–169; 193A4:41–44
 - calcite, 106/109B14:192
 - carbonates, 143B18:299–300; 165B14:228
 - Celebes Sea, 124B22:312, 316
 - cements, 166A3:34; 192A4:18
 - chalcopyrite, 111A3:63
 - chemical composition, 185A3:124
 - chemical effects, 118B27:546–547; 165A4:167–168
 - chlorite, 169A3:81
 - classification, 193B1:18, 62
 - clasts, 192A4:17–18
 - clinopyroxenes, 111A3:61, 63, 67; 111B3:28; 5:49; 6:62, 64; 157B12:149–150
 - composition, 102A3:95; 102B10:147; 148B35:439–442; 180A1:7–8
 - compressional wave velocity, 176B5:7
 - cooling units, 200A4:173–174
 - correlation coefficients, 187B5:27–29
 - Cretaceous/Tertiary boundary, 165A4:150–152
 - crustal velocity, 124B6:75
 - deep-sea sediments, 185B7:1–21
 - deformation, 118A6:137–138; 118B9:207–208, 212; 137/140B20:232
 - degree and extent, 120B(1)5:73–74; 121A11:333
 - diabases, 180A12:27; 180B2:6–9; 3:4–7
 - diagenesis, 157B33:573–580; 160B33:424
 - dikes, 137/140B24:275, 278; 148B8:97–109
 - disappearance of Layer 2A, 102B11:156
 - dunites, 209A7:6
 - effects, 200B3:12–14
 - electron microprobe data, 209B2:1–13
 - element mobility, 127/128B(2)51:838; 56:892; 58:908–916
 - enrichment or depletion, 183A7:153
 - eruption levels, 121B28:543
 - facies, 169A6:265
 - felsic rocks, 183A7:42–43
 - flood basalts, 163B2:17–28
 - flora, 164B33:337–338
 - fluids, 141B29:364–365; 186B14:10
 - Formation MicroScanner imagery, 193A4:221
 - gabbro-norites, 147B1:4
 - gabbros, 147B2:27; 29:483–485; 183A9:23–24; 205A4:27–28, 32–33
 - gabbros and gabbro-norites, 209A3:8–9
 - geochemical effects, 125B12:222–223; 13:246; 28:490–491; 126A8:269; 9:372, 378
 - geology, 169A1:13
 - geochemistry, 127/128B(2)48:799; 147A3:89; 148A2:57–60; 148B11:156–157; 13:192–196; 149B31:539; 152A8:100; 157A2:24; 176A3:51; 180A1:23; 185A3:27–28; 187B5:8–11, 25; 193A3:69, 71; 4:47–48; 193B1:46–49; 8:1–18; 200A3:30–34; 206A3:236; 206B8:1–16; 209A3:36–37; 6:31
 - glass shards, 127A4:95; 135A(1)4:109; 5:200; 10:517–518; 11:596–597; 186B9:5–7
 - gold, 148B36:453–454
 - greenschist facies, 187A13:7–8
 - groundmass, 127/128B(2)55:885–886
 - halogens, 195B6:9–10
 - halos, 192A4:19
 - harzburgites, 147B6:113; 209A3:6
 - heat flow, 148B20:293–294
 - heterogeneity, 148A2:45–47
 - hydroclastic shards, 128A3:89–90
 - hydrothermal fields, 193A1:7
 - igneous clasts, 135A(1)8:370
 - igneous rocks, 123A4:193, 5:321–322; 133B37:537–538; 135A(1)6:271–272; 7:323; 9:444; 183A4:20–21; 5:187; 7:42–47; 205B1:12–13; 9:7
 - igneous units, 163X_A6:21–23
 - illite-smectite reaction, 190/196B6:10–12
 - image analysis, 148B28:368–369; 29:379
 - intensity, 168A5:128; 168B10:121, 133–134; 209A5:81, 94; 6:62, 66; 9:63; 10:79, 96
 - iron oxyhydroxides, 209A8:2–3
 - isocon plots, 187B1:28
 - isotopic effects, 118B6:138
 - Juan de Fuca Ridge, 139B24:456
 - Jurassic basement, 185A1:18
 - Kane Fracture Zone, 106/109A6:167–170

- late-stage oxidation, 118B27:546
lava, 143B16:265–266; 152A9:134–135; 163A4:38, 41–42; 163B5:44–46
Layer 3, 118B27:543–548
limestone, 143B29:452–453
liquid line of descent, 127/128B(2)58:911
lithology, 152A6:60–62; 9:116; 163X_A6:5–19; 165A3:60; 169A3:52; 176B6:3–14; 180A5:8–9; 6:35; 8:14–15; 183A1:25, 31; 190A4:9; 195A3:12–14; 198A9:13; 200A3:21–27; 209A5:5–9; 6:3–18; 9:5–7; 210A4:6–8
loss on ignition, 121B30:563; 127/128B(2)56:892–893; 58:909
low temperature, 180B1:4–5
mafic rocks, 209A3:12–13
magnesium enrichment, 127/128B(2)51:842
magnetic minerals, 111A3:67; 192A4:19
magnetic properties, 118B16:294–303; 137/140B29:329; 144B36:616–621; 148B15:225; 187B7:8
marginal basin evolution, 124B14:203
markers, 139A7:325–326; 8:490–491
mass change terms and alteration intensity, 187B5:26
mass transfer, 193B1:64
mesostasis, 135A(1)11:644–645
metamorphism, 147A3:68–71; 152B34:419–423
Mid-Atlantic Ridge SW, 114A8:389, 391
mineralization, 193B1:27–28
mineralogy, 125B9:150; 148B34:421–425, 427–428; 168A4:75–77; 5:123–133; 176A3:266; 197A4:20; 6:16
mylonitic shear zones, 209A3:11–12
near late intrusives, 118B8:163, 165
nitrogen, 148B1:6
Northeast Georgia Rise, 114A5:96, 109; 114B2:23
oceanic crust, 106/109B14:181–182, 192; 111A3:59, 68, 70, 118–119, 125; 111B12:140
olivines, 124A11:259; 13:362–363, 365–369; 124B13:191; 127/128B(2)55:885; 134A13:501
organic matter, 157B34:581–589
oxides, 121A11:333
oxygen isotopes, 121B22:452–453; 192B2:5
Pacific Ocean W, 124B14:211
paleoenvironment, 195A4:19
peridotites, 149A4:80; 149B22:399–405
permeability, 111A3:67; 193B13:5–9
petrography, 135A(1)5:222–223; 168B14:169; 200A3:22–25
petrology, 134A9:199; 143A6:138–140; 144A6:236; 147A4:114–122, 128–136
pH, 124A10:154
phillipsite, 106/109B14:192
photograph, 147B13:254; 15:296; 148B13:202–208; 150X_B3:44; 152B10:144; 155A12:342; 161A4:64, 68; 165A3:82; 4:177; 6:328; 173A9:280; 181A5:33; 183A4:41, 63–64; 6:91–92, 96–97, 117; 7:123–124; 9:79, 100–106; 185A1:47; 187A11:26; 13:33; 190A8:38; 192A1:63; 5:47–49, 75–76; 7:38, 41, 45; 193A1:51–52, 75; 3:142–143, 150; 4:69, 132, 172, 185; 195A3:82, 96; 4:81; 197A3:68; 198A10:20; 200A4:97–100, 103; 201A6:41; 203A3:54–55; 205A4:80; 206A3:218–219, 282; 209A9:60–61; 10:90
photomicrograph, 147B14:289; 161A6:247; 163X_A4:20; 6:40; 168A5:121; 183A6:87–88; 185A1:57–58; 4:83–84; 187A4:9; 7:18, 25; 9:19; 12:23–24; 192A4:59, 77, 87–92, 95–98; 5:53–54, 64–65; 6:64, 71, 76–77; 7:29, 40–44; 193A1:81; 3:141, 147, 152; 4:98; 193B6:15; 194A4:60; 197A3:87; 4:60–66; 5:56–66; 6:50; 198A3:77; 9:65; 200A4:108; 203A3:54–55; 205A1:57, 59; 4:90, 92, 108; 206A3:205–216, 220–222, 225–230, 234–235, 282; 209A3:60–71, 74–82, 86; 5:57–58; 6:56–61, 67–70; 9:61–62; 10:64–65; 210A3:175
physical properties, 118B11:233; 14:261–263, 266–267; 192B7:1–33
pillow basalts, 151A13:418; 168B10:119–157; 169A3:93–94; 187A4:3–4; 5:3–4; 192A7:9
plagioclase, 111A3:61, 67; 111B6:62, 64; 124B13:191; 127/128B(2)55:884–885; 176A1:14
pore water, 138A(1)10:228; 165A8:396–398
posteruptive occurrence, 126A8:262
potassium, 124B6:84
prerift vs. postrift occurrence, 121B27:522
pressure, 118B9:211–213
property changes, 148B12:171–189
quartz, 111A3:63–65
rare-earth element mobility, 127/128B(2)58:911–916
reactive zones, 124B14:208–209
role of seawater, 118B9:208–209; 120B(1)5:75
saponite, 106/109B14:192
seafloor weathering indicators, 124B19:257
secondary minerals, 121A11:330; 127/128B(2)51:838; 148B6:71–86; 168A6:173–175; 168B12:149–157; 180B3:7–8; 183A6:190; 7:201; 8:111
sediment/basement boundary, 185A1:25–26
sediments, 139A5:124; 6:200; 139B26:479–484; 151A10:330; 168A5:112–113; 6:169; 168B1:4; 190A9:18; 195A1:22
seismic properties, 147B25:426; 195B11:5
Serocki Volcano, 106/109A4:66–67; 106/109B14:182, 190
serpentine muds, 125B19:355; 36:600
serpentinites, 149B31:529–540
shear zones, 176A1:5
sheeted dike complexes, 148B4:47
silicates, 189A7:45
silicification, 124A10:155, 157
Site 504, 137A2:28–29; 140A2:64–78, 121–123; 148A2:45–53
Site 698, 114B22:393
Site 704, 114A11:647, 687
Site 747, 120A6:135
Site 748, 120A7:208, 222
Site 749, 120A5:80; 8:268, 273
Site 750, 120A9:321–323
Site 794, 127/128B(2)58:908–911, 916
Site 795, 127/128B(2)58:918
Site 797, 127/128B(2)58:911
Site 803, 130A5:147

- Site 896, 148A3:141–150
 Site 1105, 179A4:42–48
 Site 1137, 183A5:38–43
 Site 1138, 183A6:49–52
 Site 1139, 183A7:42–47
 Site 1140, 183A8:19–22
 Site 1141, 183A9:30–33
 Site 1142, 183A9:33–35
 Site 1152, 187A3:7–8
 Site 1153, 187A4:3–4
 Site 1154, 187A5:3–4
 Site 1155, 187A6:5–7
 Site 1156, 187A7:5–8
 Site 1157, 187A8:7–8
 Site 1158, 187A9:5–7
 Site 1159, 187A10:3–4
 Site 1160, 187A11:7–10
 Site 1161, 187A12:8–9
 Site 1162, 187A13:7–11
 Site 1163, 187A14:4–5
 Site 1164, 187A15:7–9
 Site 1183, 192A3:29–32
 Site 1184, 192A4:17–19
 Site 1185, 192A5:15–17
 Site 1186, 192A6:17–19
 Site 1187, 192A7:8–9
 Site 1203, 197A3:24–30
 Site 1204, 197A4:20–24
 Site 1205, 197A5:18–20
 Site 1206, 197A6:15–18
 Sites 504 and 896 comparison, 148A3:149–150;
 148B11:158
 smectite, 156B25:317
 snowflake texture, 126A9:334–335
 spectroscopy, 206B12:1–13
 sphalerite, 111A3:63
 sphene, 111A3:63–67
 stable isotopes, 143B14:231–232
 stages, 102B11:165; 123A4:193–194
 strain localization, 137/140B19:226, 228
 stratigraphy, 123A4:193
 style, 118B5:113–114; 27:543–546; 168B10:126–131;
 179A4:43–44
 sulfides, 176B7:6
 summary, 193A3:278; 4:24, 233–239; 6:35; 193B1:8,
 36–38
 temperature, 118B9:209–213; 121B22:453; 127/
 128B(2)51:839; 191A4:35
 tephra, 124B1:7; 205A4:23
 textures, 157B26:429–430; 27:455–456
 thermal transport, 168A1:11
 timing, 127/128B(2)51:838–839; 148B10:137–138;
 209A3:96; 5:20
 transects, 168A1:17, 19
 ultramafics, 209A3:11
 unsaturation index, 139B26:481
 upper crust, 102B11:159–160
 variations, 127/128B(2)58:911
 veins, 136B10:123–127; 137/140B20:239–240;
 163B13:149–150; 192A5:17; 209A3:27–28
 vesicle fillings, 163X_A4:13; 183A7:43–47
 volcanic ash, 110B11:174–175; 113B10:144; 14:176–
 177; 121A12:374; 124B14:206–209, 214–215;
 127A4:109–110; 127/128B(2)79:1267; 87:1375–
 1378; 128A4:151; 5:288; 131A6:138; 165A3:82;
 8:391; 165B19:294–296; 180A9:40, 43;
 185A4:28–29; 186B14:9; 190/196B2:4–9
 volcanic basement, 163X_A8:7–8
 volcanic glass, 124A14:402–403; 124B36:492–493;
 125B8:137; 165A4:176; 192A3:31; 6:19;
 205A6:10
 volcanic rocks, 124A6:93–94; 11:235, 239, 253, 255,
 260–263, 279–280; 12:306–307, 313–314, 330;
 13:356, 379–381; 124B1:5; 13:187; 21:300–302;
 126B7:115; 135A(1)1:37; 144A3:72, 74;
 152B28:334, 336–337
 volcanoclastics, 152B9:115–128; 157B13:189–190;
 183A7:42–43; 197A3:30
 volcanics, 152B25:304
 volume expansion, 193B1:59
 vs. compressional wave velocity, 147B25:430; 29:488
 vs. deformation timing, 209A5:103
 vs. density, 147B25:430
 vs. depth, 139A7:349; 8:493; 140A2:66, 72; 147A3:69;
 148B4:48; 5:61; 11:155; 36:454; 176A1:57; 3:33–
 34; 179A4:97; 183A4:46, 62; 5:98, 128–129;
 6:140; 7:139; 8:70; 9:98–99
 vs. rock chemical compositions, 148B4:49
 vs. silicates, 137/140B6:67
 vs. strontium isotopes, 147B12:231
 vs. temperature, 139A6:208
 water-rock interactions, 192A3:29–32
 well-logging, 120B(2)58:1055–1056; 145A5:160;
 148A2:116–117; 3:189; 163B13:149–153
 X-ray diffraction data, 131A6:171, 173–184
 X-ray fluorescence data, 152B35:426–427
 xenoliths, 193B6:3
 zeolites, 120B(1)4:64
 zoning, 148B34:419–421
See also albitization; alteration rims; amphibolitiza-
 tion; authigenesis; basalts; calcitization; calcreti-
 zation; chabazite; chemical index of alteration;
 chertification; chloritization; clinoptilolite;
 coalingite; degree of pyritization; diagenesis;
 dolomitization; epidotization; glauconitiza-
 tion; greenschist facies; halos; heulandite; hy-
 dration; hydrothermal activity; hydrothermal
 alteration; kaolinitization; laterization; lava
 flows; leucoxene; limonitization; maghemitiza-
 tion; mesostasis; metamorphism; metasoma-
 tism; microbial alteration; oxidation;
 palagonite; palagonitization; paragonitization;
 plagioclase; pyritization; quartzification; re-
 crystallization; reduction; saponite; saussurite;
 secondary minerals; sericitization; serpentinitiza-
 tion; sideritization; silicification; sulfidation;
 upper alteration zone; uralitization; veins;
 weathering; weathering rinds; zeolite facies; ze-
 olitization
 alteration, deuteric
 basalts, 121B28:534–535
 titanomagnetite, 137/140B22:259

- alteration, diagenetic
 Barbados Ridge, 110B7:107–109
 Tiburon Rise N, 110B7:107–109
 volcanoclastic sandstones, 126B8:125–132
- alteration, gray-green
 basalts, 185A3:26
 photograph, 185A1:47
 vs. depth, 185A3:120–121
- alteration, green silica-clay
 petrology, 193A3:38–39, 49–51; 4:24–27
 photograph, 193A4:118
 photomicrograph, 193A4:119–120
- alteration, high-temperature
 basalt, 129B19:364
 greenschist facies, 187B5:8
 Site 765, 123B9:197–198
 thaumasite veins, 129B4:131
- alteration, hydrothermal
 amphibolite facies, 118B26:488
 basement, 126B26:392
 contribution to magnetic anomalies, 118B16:302–303
 geochemical effects, 126A8:266
 iron-titanium oxide gabbro, 118B3:59
 isotopic changes, 118B6:136–138, 141
 Izu-Bonin forearc, 126B6:101–107
 moderate temperature changes, 118A3:53
 oxidative vs. nonoxidative components, 121B30:565
 Pigafetta Basin, 129B1:21
 plastic deformation, 118A6:106
 secondary minerals, 126B6:105
 sulfur and secondary sulfides, 118B5:120–121
 Sumisu Rift, 126B12:190–191
 temperature, 121B28:535
 transform plate boundary, 118A3:43
 volcanoclastics, 126B27:419; 28:436–439, 442;
 135A(1)11:593
- alteration, hydrous
 deformation, 118B8:174
 oxygen isotope depletion, 118B8:173–174
 synkinematic cracks, 118B8:163
- alteration, low-temperature
 Atlantis Bank, 118A3:53; 118B5:114; 26:489
 basalts, 115B10:106; 121B26:509; 136B11:133–146;
 187A1:9–10; 6:5–7; 13:9–10; 15:8–9; 187B5:1–
 29; 192A3:29–30
 basement, 126A8:265
 geochemistry, 123B9:194–196; 42:793
 lava, 121B36:722
 lithology, 187A7:5–8
 magnetic processes, 121B28:539, 541
 mass balance, 183B15:40
 Ninetyeast Ridge, 121B28:534
 ocean crust, 129B19:364; 22:415–427
 ocean island basalts, 115B8:89, 91
 oxidation, 197A3:30
 patterns, 123B9:193–194
 physical properties, 192B7:8
 pillow basalts, 187A5:2–3
 seawater, 121B30:564–565
 secondary minerals, 123B9:191–193
 Site 261, 123B1:23
- stages in ocean crust, 124B17:233
 thaumasite veins, 129B4:131
 tholeiites, 192A6:17–19
 tuffs, 124B13:192–193
 two-stage evolutionary model, 123B9:191
 upper crust, 192B6:1–8
 veins, 147B13:238–239
 volcanic rocks, 124B20:277–278
- alteration, massive
 chemical variations across layers, 168B10:130
 diffusion, 168B10:131
 hypocrystalline and holocrystalline pillow interiors,
 168B10:128–131
 volcanic glass, 168B10:129
- alteration, oxidative
 Atlantis Bank, 119A5:138–139; 6:209
 basalts, 102B10:143
 composition, 148B8:108
 high-permeability zones, 102B10:144
 lava flows, 197A3:21
 Ninetyeast Ridge, 121B30:563
 percentage vs. depth, 148A3:144
 zones, 121A10:277–279; 11:324; 121B32:625
- alteration, pale green
 basalts, 185A3:26
 vs. depth, 185A3:120–121
- alteration, saponite-type
 basalts, 129B16:298; 27:485–499; 19:364–376
 chemical effects, 129B19:368–369
 diabases, 129B18:346
 geochemistry, 129B5:141; 21:406–407
 lithology, 129B27:491–493
 mineralogy, 129B5:138; 19:367; 22:416–417
 photograph, 129B22:418
 siliceous deposits, 129B2:42
 Site 800, 129A2:67–68
 Site 801, 129A3:135–136, 140–142
 Site 802, 129A4:218–219
 whole-rock chemical changes, 129B22:419–420
- alteration, seawater
 cumulate gabbros, 149B27:479, 481
 geochemistry, 149B30:519–527
- alteration, static
 amphiboles, 118A4:68
 Atlantis Bank, 118A6:90, 209; 118B26:489
 calcium silicate veins, 118A5:86
 gabbros, 118A3:51
 olivine replacement, 118B27:544
 origin and distribution, 118B27:544
 undeformed gabbro, 118A6:138
- alteration, thermal
 clays, 131B2:21; 159A9:303, 305
 microfossils, 139A7:538
 miospores, 131B5:61–65
 organic materials, 131B30:382–383; 139B28:497–498,
 502
 Rock-Eval pyrolysis data, 210A3:97
 sediments, 139B28:495–508
 sills, 210B1:23
 vitrinite reflectance, 139B27:493–494

- alteration, volcanic
 clay, 113B5:53
 pore-water chemistry, 113B10:140–145
- alteration assemblages, 183B17:2
- alteration bands, lithology, 201A6:9, 13
- alteration budget, sediments, 129B14:274
- alteration degree, vs. depth, 197A4:72–73; 5:73; 6:75; 203A1:25; 3:41
- alteration facies
 composition, 187A11:8–10
 hydrothermal alteration, 169A6:267–268
 photograph, 187A11:16
- alteration features, petrography, 192A3:26–28
- alteration films, iron oxyhydroxide, 193A3:37
- alteration fronts
 geochemistry, 158B19:265, 269–270; 21:289–293
 photograph, 158A10:200; 187A1:36; 3:20; 209A3:95; 5:86
 photomicrograph, 187A1:37, 39; 6:29; 192A3:112; 206A3:235
See also alteration halos; hydrothermal alteration
- alteration halos
 basement, 183A7:37, 44–47
 color, 148B11:157–158; 35:444
 composition, 148A2:50–53; 3:141; 148B34:426; 35:440; 168A4:73–74, 77; 183A8:20–22; 9:33–35; 206A3:66–73
 dikes, 148B8:97–109
 fluid inclusions, 148B7:94
 fractures, 128A3:91
 geochemistry, 148B4:52; 11:156–157
 hydrothermal alteration, 137/140B14:158; 158A10:197; 209A10:15–17
 intensity, 209A9:63
 isotopes, 148B5:65
 lava, 206B1:7
 lithology, 193A6:5–6
 mineralogy, 148B11:155; 34:427–428; 153B9:161–162
 petrology, 140A2:75–76; 148A2:46; 148B34:420; 168A5:129; 6:174
 photograph, 153A7:268; 153B9:166, 169; 21:392–393; 158A7:86, 91, 105, 121, 132; 8:162; 10:198; 158B18:246–249; 168A4:73; 176A1:61; 3:146–147, 161; 183A4:41; 5:137; 8:73; 9:103–105; 193A3:110, 121, 145, 159, 167, 201, 208, 211, 219–220; 4:93–94, 133; 206A3:218, 224, 229, 231–232, 237; 209A5:86; 7:67, 83
 photomicrograph, 168A4:74–75; 5:135; 193A1:54; 3:146, 149, 205–206, 212; 4:122, 125–126, 175–176; 206A3:225–228, 230; 209A3:82
 rare earths, 158B19:266
 secondary minerals, 148B6:86; 11:168; 168B10:132
 veins, 137/140B15:179, 182; 148B18:261–263; 153B9:162; 158A7:113–114; 193A3:62–63; 4:42–45
 volume percent vs. depth, 148A2:49
 vs. depth, 148B35:442; 183A9:98–99
 zoning, 148B11:154
See also alteration fronts; alteration rims; halos; hydrothermal alteration; oxidation halos
- alteration halos, colored
 brown, 206A3:68–69
 black, 148B12:180–183; 206A3:68
 mixed, 206A3:69
 orange-brown, 209A9:64
- alteration halos, oxidized, carbonate veins, 209A9:10–11
- alteration index, vein density correlation, 118B8:171
- alteration intensity
 gabbros, 147B29:487
 photograph, 185A4:110
- alteration logs, data, 140A2:156–162
- alteration mineral assemblages
 vs. compressional wave velocity, 139B38:608
 vs. density, 139B38:608
 vs. depth, 197A3:57, 99; 5:73
See also epidote
- alteration parameters
 basalt lavas, 129B18:353
 diabase sills, 129B18:353
 vs. depth, 129B19:368–369
- alteration patches
 amphibole and chlorite, 148B8:103
 average element concentration, 148B4:52
 background alteration, 148A2:48–49
 composition, 148B34:427–428
 diabases, 140A2:70–72
 geochemistry, 148B37:461–463
 intersection with actinolite veins, 148A2:49
 isotopes, 148B5:65
 petrology, 148A2:46
 photograph, 148A2:48
 primary depletion, 148B4:50
 sheeted dike complexes, 148B4:47
 volume percent vs. depth, 148A2:49
 vs. depth, 140A2:70
- alteration percentage
 vs. barium, 137/140B9:110
 vs. bulk density, 137/140B8:102
 vs. calcium, 137/140B9:110
 vs. chromium, 137/140B9:109
 vs. cobalt, 137/140B9:109
 vs. depth, 148B34:428
 vs. lanthanum, 137/140B9:110
 vs. lanthanum/samarium ratio, 137/140B9:110
 vs. lanthanum/ytterbium ratio, 137/140B9:110
 vs. major element oxides, 137/140B6:70–71
 vs. nickel, 137/140B9:109
 vs. oxygen isotopes, 137/140B8:103
 vs. samarium, 137/140B9:110
 vs. strontium, 137/140B9:111
 vs. trace elements, 148A2:62
 vs. water, 137/140B8:102
- alteration rates, microorganisms, 148B13:199
- alteration rims
 gabbros, 134A9:236
 lithology, 180A12:20; 201A7:9; 12:7–11
 photograph, 176A3:147
 photomicrograph, 192A6:60
 volcanic glass, 192A4:18
See also alteration halos
- alteration rinds, photomicrograph, 209A10:103

alteration rocks. *See* chloritite
 alteration space, vs. depth, 148B28:374
 alteration style, vs. depth, 193A1:49–50, 66–67; 3:36–37, 137–138; 4:24–25, 114–116; 193B11:7–9
 alteration types
 aluminum-saponite type, 129B22:418
 blue-green type, 129B22:418–419
 bulk rock, 148B2:12–13
 carbonate, 169A5:209
 celadonite-type, 129B22:417–418
 chemical, 139B44:711–713; 169A5:221
 cold seawater, 119B16:307, 314–315
 green, 185A3:120–121
 greenschist-facies, 148B7:91
 incipient type, 142B1:6–7
 low-grade, 129B27:485
 mineralogy, 193B8:14–16; 12:1–19
 nonoxidative, 121A11:329
 open-system, 121B30:563
 patchy, 153A3:81
 postmagmatic, 121A11:329; 121B30:563–565; 31:614–615, 625; 32:629
 prerift vs. postrift, 121B27:522
 reducing, 168B10:131–133
 silica-clay, 193A4:76–77
 silica-sulfate, 193A4:174
 submarine, 131B16:200
 synkinematic, 209A5:123
 trace elements, 148B37:465
 vs. depth, 185A3:120; 206A1:90; 3:223
 wall-rock, 147B13:239, 241, 254
 alteration units, petrology, 183A5:38–43
 alteration zones
 in volcanic rocks, 183B17:2
 photomicrograph, 197A4:57; 198A9:68–69
 vs. depth, 206A1:95; 3:256
 altered basalts. *See* basalts, altered
 altered matrix, photograph, 192A4:43
 altered rocks
 algorithms for precursor composition, 193B1:70
 geochemistry, 193B1:18–20, 46–49
 photograph, 169A3:100
 volume change, 193B1:20
 alternating-field demagnetization. *See* demagnetization, alternating-field
 aluminosilicates
 calcium sink, 126B34:523
 cyclic processes, 172B5:5–6
 derivation, 123B2:67
 heavy minerals, 150X_B7:75–79
 mass accumulation rates, 162B14:205–206
 phase equilibria, 161B23:314
 Quaternary, 167A(1)12:336
 sedimentation rates, 167A(1)14:415; 15:451–452
 sediments, 162B14:201; 172B5:4
 stadials, 172B(overview):4
 vs. age, 172B5:19
 vs. depth, 172B5:13
 See also sillimanite
 aluminosulfates, sulfur isotopes, 129B15:286

aluminum
 alteration, 187B5:9; 193B1:47
 amphiboles, 118B9:198; 153B21:394–395; 161B18:256; 176B4:11, 20–21; 180B3:8–9
 augite, 127/128B(2)52:851–853, 856
 basalts, 195B8:7; 210B9:16
 basement, 126B28:433–434, 437
 biotite, 176B9:11
 black shale, 210B10:5
 boninite, 125B38:637, 641
 bulk sediments, 199A8:17; 9:11; 10:17; 11:26; 12:26–27; 13:22; 14:19; 199B14:15
 Cagayan Ridge, 124B29:392, 395–396
 calcic amphiboles, 147B10:194; 180B8:20
 Celebes Sea, 124A10:174, 176, 178; 13:376; 124B42:543
 clay indicators, 117B23:412
 clinopyroxenes, 129B17:330; 176B4:10; 10:12
 concentration, 129B2:57; 34:638; 143A4:76
 cycles, 127/128B(1)32:569
 deep-sea sediments, 185B7:5
 depletion in vesicles, 135B37:615
 diabases, 180B3:7
 diagenesis, 150X_B3:28, 35
 electron microscopy, 160B27:346
 false-color map in clinopyroxenes, 179B(synthesis):84
 ferromanganese crusts, 144B44:751–753
 ferromanganese micronodules, 199B14:4
 gabbros, 149B26:458; 176B8:3–4; 180B3:7
 gneiss, 161B20:283
 high-temperature microscopic veins, 176B4:12–13
 hornblende, 176B10:14
 hyaloclastite, 206A3:70
 hydrothermal alteration, 153B21:395; 206A3:71
 hydrothermal mounds, 158B27:370–380
 hydrothermal sediments, 199B15:3
 in volcanic rocks, 183B17:2
 inorganic sediments, 154B36:509–516
 intrusions, 180B3:8–11
 Japan Sea sediment, 127/128B(2)78:1236–1237
 lithology, 210A3:54, 98
 Lower Cretaceous, 129B32:606
 mass accumulation rates, 129B32:588–589, 594–598
 microorganisms, 168B14:170–171
 mineral chemistry, 153B12:272; 179B2:10–12
 mobility, 183B15:9–10
 modern surface sediments, 138B42:824–826
 Nazareth Bank, 115B39:710
 negative chromium-nickel correlation, 125B18:336–340
 occurrence, 105B8:104; 9:134
 orthopyroxenes, 176B10:14
 Pacific Ocean W, 124B31:414–416, 419
 Paleocene/Eocene boundary, 199A1:84; 13:23; 199B16:3
 palygorskite formation, 123B2:70
 parent magma, 127/128(2)B52:856
 percentage in tetrahedral site, 136B11:134; 143B16:269
 peridotites, 153B29:518
 phlogopite, 176B9:11

- photomicrograph, 176B4:26, 30, 32
 phyllosilicates, 136B11:135; 158B18:242
 precision analysis, 199A7:11
 pyroxenes, 129B17:316–317
 secondary minerals, 180B3:7–8
 sediments, 129B2:46, 50; 150B20:363–364;
 151A9:287; 171B_B4:4–5; 189B12:3, 7–12;
 195A4:36; 199B14:4; 202B8:5–6; 206A3:42
 serpentinites, 149B31:534
 shipboard vs. shore-based digestion, 206B3:14
 shore-based flux vs. shore-based microwave acid di-
 gestion, 206B3:12–13
 siliceous deposits, 129B2:41; 198B17:9–10, 23
 Site 699, 114B37:692–694
 Site 736, 119B18:356
 Site 786, 125B7:122, 124
 Site 794, 127/128B(1)37:654, 656
 Site 795, 127/128B(1)45:706
 Site 796, 127/128B(1)37:654, 656
 Site 798, 127/128B(1)37:654, 656; 42:722
 Site 799, 127/128B(1)37:654, 656; 42:722
 sources, 138A(2)13:700
 spinels, 129B17:317, 319; 135B34:585–594
 sulfides and sediments, 158B3:45
 ultramafic rocks, 118A1:13
 Upper Jurassic, 129B32:606
 veins, 176B9:16, 33–36
 velocity and density, 199B13:6
 volcanics, 127/128B(2)87:1380; 203B2:4
 vs. age, 199A1:69
 vs. aluminum + iron + titanium system, 153B31:544
 vs. calcium, 154B36:517
 vs. calcium + sodium + potassium system,
 158B18:242
 vs. chromium, 127/128B(1)42:733
 vs. depth, 135B7:127; 137/140B15:173;
 138A(2)13:714; 16:953; 156B13:179, 181;
 160A8:271; 160B16:200; 171B_B4:8; 176B1:13;
 177B1:6; 195A3:117; 4:135; 199A8:36; 9:27;
 10:40; 11:65; 12:70; 13:54, 56; 14:39, 41;
 199B15:5; 16:6; 206B3:15; 210A3:280
 vs. iron, 127/128B(1)42:732; 135B27:496–501;
 139B10:171; 147B15:305; 149B32:551
 vs. iron/(iron + magnesium) ratio, 139B10:184;
 168B12:154
 vs. iron/magnesium ratio, 127/128B(2)56:894
 vs. lanthanum, 127/128B(1)42:737
 vs. magnesium, 157B12:167
 vs. magnesium/(magnesium + iron + manganese) ra-
 tio, 153B21:394
 vs. magnesium number, 176B4:11, 37; 179B2:38
 vs. manganese, 199B14:16
 vs. noninterlayer cation total, 152B34:421
 vs. potassium, 154B36:517
 vs. scandium, 135B43:702
 vs. silicon, 135B43:700; 154B36:517
 vs. sodium, 153B12:271
 vs. sodium + potassium, 147B15:304; 149B26:463;
 32:544; 153B21:390, 395; 176B4:11, 37, 41
 vs. titanium, 134B16:344; 17:356; 147B15:302;
 149B26:458; 153B21:390, 395; 31:544–545;
- 154B36:517; 163X_A8:24; 176B4:37; 179B2:39;
 202B8:13
 vs. titanium oxide, 144B30:518, 528
 vs. ytterbium, 127/128B(1)42:737
 well-logging, 123B35:639; 125B39:665–666;
 126A7:206; 126B43:655–656; 130A7:264–265;
 9:453, 473–477, 486–493; 130B48:778–779;
 166A6:100
 wet-weight fraction vs. natural gamma ray activity,
 130A7:267
 X-ray fluorescence data, 117B29:490; 127/
 128B(2)65:1028–1029, 1031–1035
See also aluminum logs; arsenic/aluminum ratio; bar-
 ium/aluminum ratio; calcium/aluminum ratio;
 cerium/aluminum ratio; chromium/aluminum
 ratio; chromium/(chromium + aluminum) ra-
 tio; cobalt/aluminum ratio; cobalt/aluminum
 oxide ratio; copper/aluminum ratio; gabbros,
 magnesium-aluminum; iron/aluminum ratio;
 iron/(chromium + aluminum + iron) ratio; iron/
 (iron + aluminum) ratio; iron + aluminum;
 iron-chromium-aluminum system; lead/alumi-
 num ratio; magnesium/aluminum ratio; major
 elements/aluminum ratio; manganese/alumi-
 num ratio; minor elements/aluminum ratio;
 molybdenum/aluminum ratio; nickel/alumi-
 num ratio; niobium/aluminum oxide ratio;
 phosphorus/aluminum ratio; rubidium/alumi-
 num ratio; scandium/aluminum ratio; sele-
 nium/aluminum ratio; silicon/aluminum ratio;
 silicon-aluminum-magnesium-iron system; so-
 dium/aluminum ratio; strontium/aluminum ra-
 tio; sulfur/aluminum ratio; thorium/aluminum
 oxide ratio; tin/aluminum ratio; titanium/(alu-
 minum + iron + titanium) ratio; trace elements/
 aluminum ratio; trace metals/aluminum ratio;
 uranium/aluminum ratio; vanadium/aluminum
 ratio; zinc/aluminum ratio
 aluminum, acid-soluble fraction, vs. carbonate,
 150B17:318
 aluminum, chlorite-mica stacks, 159B10:97
 aluminum, in clinopyroxene
 vs. silicon, 195B8:17
 vs. titanium, 195B8:17
 aluminum, tetrahedral
 secondary phyllosilicates, 148B10:125
 vs. aluminum hexavalent, 143B16:269; 153B31:546
 vs. depth, 148B6:80
 vs. interlayer potassium, 148B10:125; 168B12:154
 vs. titanium, 179B(synthesis):87
 aluminum, total
 onshore processing, 149A6:201–202
 secondary phyllosilicates, 148B10:125
 vs. depth, 149A6:199, 204
 aluminum activation clay tool (AACT)
 Atlantis Bank, 118B15:271
 Site 843, 136B13:153–154
 well-logging, 130B48:776–778
See also aluminum logs
 aluminum/(aluminum + iron + manganese) ratio
 sediments, 129B2:55

- vs. depth, 205B3:10
 vs. iron/titanium ratio, 139B12:295; 199B14:18
- aluminum/aluminum ratio
 clinopyroxene, 180B3:16
 intrusions, 180B3:8
- aluminum clay tool (ACT). *See* aluminum logs
- aluminum-free minerals, hydrothermal evolution, 137/140B18:211–213
- aluminum hydroxide, X-ray diffraction data, 188A4:16
- aluminum + iron + manganese system, 129B2:55, 60–61
- aluminum + iron + titanium system, 153B31:544–545
- aluminum logs
 Atlantic Ocean S Subantarctic, 114A11:697–700
 Australian margin NE, 133B57:798
 basalts, 144A9:320
 clay, 127A6:306–307
 concentration, 145B46:679
 core data correlation, 127/128B(2)65:1030
 diatom ooze, 127A6:306–307
 diatoms vs. clay content, 127/128B(2)89:1417
 evaluation, 127A6:306–307; 159B17:174
 geochemical-log accuracy, 117B29:493
 gypsum, 160A8:263
 Hawaiian arch, 136B13:155
 lithology, 127/128B(2)78:1229–1230; 185A4:46
 opal-A/opal-CT transition, 127/128B(1)1:22
 recording methods, 134B36:628
 sand, 127A6:306
 Site 794, 127A4:90–92; 127/128B(2)89:1416, 1420–1421; 128A3:77, 81
 Site 795, 127A5:186
 Site 796, 127/128B(2)89:1416, 1423
 Site 797, 127A7:340–341; 127/128B(1):7; (2)89:1417, 1426–1427
 Site 798, 127/128B(2)65:1030; 88:1401–1402; 128A4:124, 137, 212, 215
 Site 799, 127/128B(2)88:1404, 1408–1409; 128A5:256, 362
 Southwest Indian Ridge, 118A6:175, 178
 vs. depth, 137/140B26:309; 138A(1)10:206; (2)17:1013–1016; 143A9:356; 144A3:95; 5:197; 6:247; 10:390–391; 145A5:186; 6:280; 155A7:160; 12:364; 157A9:474; 10:541; 160A8:271; 164A6:140; 165A3:104; 166A6:104; 185A4:140–141
 vs. potassium, 128A4:215
See also aluminum/potassium ratio logs; aluminum/silicon ratio logs; aluminum oxide logs
- aluminum number
 chromian spinel, 159B14:134, 136
 vs. magnesium number, 153B12:270
- aluminum oxide
 Albian–Turonian interval, 210B8:7
 alteration, 168A5:124; 168B10:128; 183A7:153; 185A3:17; 187B1:7–8; 193A4:47–48; 200A3:31; 209A3:36
 amphiboles, 118B3:56; 176B9:10
 apatite, 176B9:13
 Atlantis II Fracture Zone, 118B7:150
 basalts, 115B7:74; 121A11:331; 121B30:567, 570; 123A4:187, 189; 139A5:137–138; 152B30:363, 365–366; 158B17:217; 163B9:99–112; 163X_A8:10–11; 169A3:95; 187A3:10; 6:10–11; 7:11; 8:11; 9:8–10; 10:5–6; 11:12–13; 13:14
 basement, 126B26:390; 183A6:48; 7:132; 9:27–28
 black shale, 210B8:16
 bulk rock and mineral chemistry, 153B10:202–205
 calibration, 199A7:10
 chlorite, 176B9:11
 clasts, 158B17:217; 195B4:8
 clinopyroxenes, 118B3:51, 65; 135B27:492–494; 149B26:458; 176B4:10
 core vs. log data, 126B40:593, 597
 Cretaceous, 123B12:226
 dacite lava, 193B2:8
 diabases, 153B19:364–365; 168A5:123; 209A7:23
 diopside, 176B9:10
 discriminant diagrams, 200A1:63
 electron microprobe data, 148B14:210
 enstatite, 147B6:118
 epidote, 176B9:12
 experimental liquids, 152B30:366
 fine-grained sediments, 210B8:14
 gabbros, 176B6:16–17; 8:4–14; 179A4:45–47; 179B(synthesis):23; 209A6:30; 10:24–25
 garnets, 183B16:2
 geochemical logs, 118B15:279; 137/140B30:345–346; 154A5:217
 geochemistry, 138A(2)15:837–838
 granites, 161A6:216
 green grains, 159B43:593–594
 harzburgites, 153A3:74
 hydrothermal clays, 158B17:217
 igneous rocks, 163X_A4:13; 209A5:35; 10:26–27
 ignited sediments, 138A(2)15:846–847
 immobility, 169A3:99, 101
 incompatible element comparison, 121B32:641
 lava, 197A5:16; 6:14
 limestone, 143B13:211, 213
 lithology, 183A4:19; 7:39; 207B8:4–7; 210A3:29, 53–54
 mafic and ultramafic rocks, 153B10:184–185, 189
 mass balance, 169A3:98
 melting, 121B32:635, 637; 125B38:647; 187B1:14–15
 metadiabase, 180A8:18
 metamorphic rocks, 161B28:375
 micas, 176B9:11
 middle series magmas, 163B9:107–110
 middle–upper Eocene interval, 210B8:13
 mineral separates, 158B2:28–29; 7:94; 27:370–373
 nannofossil clay, 184B12:1–25
 natrolite, 176B9:13
 Nazareth Bank, 115B7:73
 orthopyroxenes, 118B3:53, 67; 176B4:10
 parental magma, 121B32:629
 percent change from protolith, 137/140B17:203
 peridotites, 153A3:67; 7:278–280; 209A3:34; 6:28; 7:21; 9:18–20
 profiles across microbially processed glass, 148B13:200
 pyroxenes, 137/140B1:4

- sediments, 126B32:500; 139A7:327–328; 151A7:184;
 8:241, 243; 9:287; 10:333–334; 11:367–368;
 155A7:141; 8:193; 9:218; 10:261; 11:297;
 167B25:285–288; 170A4:140–141; 5:178; 6:206;
 172B5:4–5, 22; 180B6:5–6, 8–11, 15; 184B19:6;
 205A4:23; 5:17
- serpentinites, 125B18:334; 149B23:423; 30:520;
 173A7:196; 9:284; 195A3:20; 195B4:6–7
- Site 713, 115B7:74
 Site 715, 115B7:74
 Site 766, 123A5:323
- standard deviation, 186B9:20
- stratigraphy, 163X_A8:12
- sulfides and sediments, 158B3:43
- tektites, 150B13:248–250, 253–258
- tephra, 121B14:277, 285; 186B9:8–9, 16–17; 205A4:25
- troctolites, 209A10:23
- turbidites, 135B10:155–158
- Turonian–uppermost Santonian, 210B8:9
- upper Paleocene–middle Eocene, 210B8:12
- volcanic ash, 125B15:279; 131B14:178, 180–182;
 165A4:180; 201B19:11
- volcanic glass, 141B27:338, 342; 200B2:13–14;
 201B19:10; 203B2:3–8
- volcanic rocks, 161B27:364–369
- volcaniclastics, 126B31:470; 134B9:151
- volcanism, 163X_A8:15
- vs. age, 184B12:19–20, 22; 19:19
- vs. alkali index, 205A5:61
- vs. aluminum oxide/silica ratio, 161B28:377
- vs. barium, 158B19:263
- vs. barium/ytterbium ratio, 195B4:35
- vs. calcium oxide, 121B14:277, 285; 125A9:186;
 12:281; 153A3:75; 154B35:503–504;
 157B12:150; 15:240–245; 173A7:199; 9:286;
 180B6:8–9, 12, 18, 33, 35, 41; 195A1:44; 3:20,
 103; 209A5:149; 9:86
- vs. calcium oxide + sodium oxide system, 155B7:171
- vs. carbon isotopes, 154B35:505
- vs. chromium, 209A6:104, 107; 7:95; 10:118
- vs. chromium/nickel ratio, 153A3:78
- vs. chromium number, 153B14:299
- vs. clay minerals, 150B20:367
- vs. depth, 131B35:440; 135B7:114; 137/140B7:91;
 138A(2):15:857; 139A6:223, 225; 7:354, 356;
 8:515–518; 139B11:228–250; 15:359–367;
 143B15:249; 144B39:660; 147B26:449;
 148A2:60, 62; 3:157; 148B2:14, 18; 10:136;
 34:422; 39:484; 149B7:482; 12:291; 23:422–423;
 30:523; 151A6:131; 151B19:358; 152B34:423;
 153A3:75, 78; 155A8:193; 156B1:24; 157B5:251;
 32:565; 167B25:285; 169A3:97; 170A4:140;
 176B6:35; 179A4:123; 180B6:34; 183A7:134;
 9:92; 186B15:16–20; 193A3:223; 4:191, 193;
 200B1:26; 2:13; 203A3:50; 205A4:82, 114; 5:58;
 206A1:81; 3:152, 194; 206B5:6; 210B8:40
- vs. detrital minerals, 150B20:367
- vs. diagenetic zones, 124B36:502
- vs. gamma rays, 186B15:21
- vs. iron oxide, 121B14:285; 30:574; 36:722;
 151A8:243; 157B15:261–262; 176B9:32;
 180B6:18, 33, 41; 200A1:63; 3:107; 203B2:21;
 210B8:30
- vs. kaolinite, 156B1:30
- vs. lanthanum/ytterbium ratio, 153B10:232
- vs. loss on ignition, 136B11:140; 148B10:139;
 149B29:502; 169A3:98
- vs. magnesium number, 125A14:328; 139B6:87;
 141B28:359; 142A4:71; 144B28:481, 484;
 148A2:59; 3:151; 153B5:95; 13:279; 14:299;
 157B22:380; 163X_A8:29; 168A4:71; 5:125, 139;
 176B4:34; 10:41; 179B(synthesis):85;
 183A6:134; 8:64; 203A3:51; 206B5:25; 209B2:6,
 8
- vs. magnesium oxide, 121A9:239; 126A9:370;
 135B25:442–444; 137/140B4:45; 142B6:45;
 148B2:19; 3:23, 30–31, 34–35; 151B17:317,
 319–322; 18:344; 152B5:61; 8:100; 153A3:75;
 153B19:366; 157B16:282–283; 22:384;
 162B16:228; 163B9:102, 106; 173A7:199; 9:28;
 180B6:18, 41; 183A4:57; 5:118; 9:94;
 185A3:108; 187A3:24; 4:17; 5:17; 6:36; 7:33;
 8:51; 9:21; 10:24; 11:35; 12:41; 13:41; 14:28;
 15:42; 187B1:35; 197A1:73; 5:68; 6:70;
 200B2:10; 203A3:16–17, 24; 206A1:88; 3:199;
 209A6:102, 107; 7:97; 10:119; 210B8:26
- vs. major oxides, 153B14:288; 16:324; 29:514;
 157B12:165; 15:236–237, 239; 158B19:263;
 161B28:377; 168B14:171; 180B6:14–16, 18, 36,
 41; 209B2:6, 8–9; 210B8:27
- vs. modal plagioclase, 121A11:329
- vs. potassium oxide, 158B19:263; 172B5:14;
 180B6:12–18, 33–36, 39, 41; 210B8:25, 34
- vs. rubidium/ytterbium ratio, 195B4:36
- vs. scandium, 176B8:23; 209A6:105, 107; 7:96; 10:122
- vs. silica, 134B19:384; 135B3:40; 4:59, 64;
 139B11:225; 148B13:197–199; 151A5:81; 8:243;
 151B18:343; 19:357; 152B2:23; 5:62; 8:102;
 157A7:362; 157B13:192; 18:324; 162B16:228;
 180B6:14, 36; 186B15:21; 193B2:21; 200A1:63;
 3:107; 201B19:27, 29; 209A5:154; 10:114;
 210A3:251; 210B8:31
- vs. silica/aluminum oxide ratio, 186B15:21
- vs. silica/magnesium oxide ratio, 195B4:20, 28
- vs. strontium, 209A5:15
- vs. subbasement depth, 148A3:159
- vs. temperature, 137/140B12:135
- vs. titanium oxide, 137/140B3:37; 142A4:69;
 148B10:138; 149B30:523; 153B13:283;
 158B19:263; 162B14:204; 172B5:14; 176B4:34–
 35; 180B6:14, 16, 33, 36, 41; 184B12:18;
 195B4:23, 27; 203B2:18–19, 23; 207B8:20;
 209A6:105; 7:96; 9:88; 10:118; 210B8:28, 33,
 37, 39
- vs. total organic carbon, 154B35:503–504
- vs. trace elements, 209A3:139; 5:152–153; 9:87
- vs. vanadium, 209A6:104, 107; 7:96; 10:118
- vs. water content, 158B19:264
- vs. yttrium, 180B6:14, 36
- vs. zirconium, 121B30:580; 123A4:195, 203;
 157B12:168, 171; 180B6:14, 36; 207B8:20;
 209A6:105; 7:96; 9:88; 10:118

- websterite, 153B16:323, 329
 well-logging, 123B8:183–184, 188; 35:641
 xenoliths, 193B6:2
 zircon, 180B6:14
 X-ray diffraction data, 138A(2)15:859
 X-ray fluorescence data, 152B35:426
See also aluminum; barium/aluminum oxide ratio;
 calcium/aluminum oxide ratio; calcium oxide-
 aluminum oxide-potassium oxide diagram;
 chromium/aluminum oxide ratio; cobalt/alumi-
 num oxide ratio; copper/aluminum oxide ratio;
 gallium/aluminum oxide ratio; iron oxide/alumi-
 num oxide ratio; iron oxide-magnesium ox-
 ide-aluminum oxide diagram; lanthanum/
 aluminum oxide ratio; manganese oxide/alumi-
 num oxide ratio; neodymium/aluminum oxide
 ratio; nickel/aluminum ratio; niobium/alumi-
 num oxide ratio; phosphorus oxide/aluminum
 oxide ratio; potassium oxide/aluminum oxide
 ratio; rubidium/aluminum oxide ratio; scan-
 dium/aluminum oxide ratio; sodium oxide/alu-
 minium oxide ratio; strontium/aluminum oxide
 ratio; thorium/aluminum oxide ratio; vana-
 dium/aluminum oxide ratio; yttrium/alumi-
 num oxide ratio; zinc/aluminum oxide ratio
- aluminum oxide/(aluminum oxide + iron oxide) ratio,
 vs. lanthanum/cerium ratio, 191B1:4; 4:5–7, 19
- aluminum oxide/calcium oxide ratio
 basalts, 183A6:49
 vs. depth, 183A8:65
 vs. magnesium number, 183A8:64
 vs. magnesium oxide, 183A4:57; 5:118; 6:137
- aluminum oxide/ferromagnesian ratio
 vs. calcium oxide/ferromagnesian ratio, 153B10:216
 vs. magnesium oxide/ferromagnesian ratio,
 153B10:215
 vs. titanium oxide/ferromagnesian ratio, 153B10:216
 vs. vanadium/ferromagnesian ratio, 153B10:216
 vs. zirconium/ferromagnesian ratio, 153B10:216
- aluminum oxide logs, vs. depth, 146A(1)6:287;
 150A10:342–343; 160A8:285–287; 165A3:93;
 4:193; 165B11:195
- aluminum oxide/magnesium oxide ratio
 basement, 126B27:409, 423
 sediments, 131B28:350, 352, 354–355, 359, 361
 Site 765, 123B8:177
 vs. depth, 131B35:441; 185A4:123
 vs. strontium, 176A3:51, 173
- aluminum oxide/silica ratio
 alteration, 184B19:7–8; 185A4:31
 bulk rock and mineral chemistry, 153B10:205–208
 glass shards, 186B9:7
 opal precipitation and pore waters, 119B11:218
 sediments, 131B28:350, 352, 354–355, 359, 361;
 150B20:367–369; 172B5:4–5; 184B19:6
 Site 699, 114B37:692–693, 695, 698
 Site 711, 115B38:706; 39:711
 Site 765, 123B8:177
 Site 795, 127/128B(1)39:683
 Site 797, 127/128B(1)39:688
 temperature vs. depth, 131B35:440; 139B11:226
- volcanic ash, 125B15:287; 185A4:32–34
 vs. age, 184B19:20–21
 vs. aluminum oxide, 161B28:377; 186B15:21
 vs. chromium/aluminum oxide ratio, 170A5:182
 vs. depth, 151A5:86, 131; 153B10:212; 156B1:25;
 172B5:13; 185A1:55; 4:121; 186B9:22; 15:16–20
 vs. diatom valves, 186B15:21
 vs. gamma rays, 186B15:22
 vs. iron oxide/aluminum oxide ratio, 170A5:182
 vs. kaolinite, 156B1:30
 vs. magnesium oxide/silica ratio, 153A3:75;
 153B10:213; 209A9:20, 89
 vs. titanium oxide/aluminum oxide ratio, 170A5:182
 vs. total organic carbon, 186B15:21
- aluminum oxide/titanium oxide ratio
 basement, 183A6:48
 clinopyroxenes, 123B10:210
 felsic rocks, 183A7:41
 Mariana forearc, 125B24:409
 sediments, 131B28:350, 352, 354–355, 359, 361;
 172B5:4–5; 186B13:4
 Site 765, 123B8:182
 stadials–interstadials, 172B(overview):4
 vs. depth, 131B35:440; 156B1:25; 172B5:13; 186B13:6
 vs. kaolinite, 156B1:30
 vs. lanthanum/ytterbium ratio, 136B6:83
 vs. magnesium number, 183A6:134
 vs. silica, 183A7:137
 vs. silica/aluminum oxide ratio, 170A5:182
 vs. zirconium/titanium oxide ratio, 169A3:102
- aluminum oxide/zirconium ratio
 basement, 126B27:416
 vs. depth, 131B35:443
- aluminum oxyhydroxide, secondary minerals, 142B9:72
- aluminum/metal ratio, samples, 129B2:53
- aluminum/potassium ratio
 inorganic sediments, 154B36:509–516
 nannofossil clay, 184B12:6–7
 power vs. frequency, 175A3:53
 sediments, 171B_B4:4; 181B9:2
 Site 794, 127/128B(2)78:1249
 vs. age, 181B9:5; 184B12:21
 vs. depth, 154B36:519–521, 523, 525; 157B31:554;
 32:566; 160B17:210, 212, 214; 171B_B4:11
 vs. magnesium/aluminum ratio, 160B17:213
- aluminum/potassium ratio logs, vs. depth, 145A5:187
- aluminum-rich minerals, hydrothermal evolution, 137/
 140B18:211–213
- aluminum/silica ratio
 sediments, 135B43:706
 vs. magnesium/silicon ratio, 153B14:300
 vs. terrigenous content, 127/128B(2)65:1035
- aluminum/(silicon + aluminum) ratio
 vs. sodium/(calcium + sodium) ratio, 153B31:544–545
 vs. titanium/(aluminum + iron + titanium) ratio,
 153B31:544–545
- aluminum/silicon ratio logs, vs. depth, 144A5:197
- aluminum/titanium ratio
 aridity, 117B24:438–439
 augite, 127/128B(2)52:851–853; 153B9:158–160
 bulk sediments, 199A12:27

- climate optimum, 178B34:6
- clinopyroxene, 118B6:140
- eolian contribution, 127/128B(2)78:1239
- inorganic sediments, 154B35:509–516
- monsoonal influence, 117B23:413
- nannofossil clay, 184B12:5
- Neoglacial, 178B34:7
- Oman margin N, 117B24:432, 442
- Owen Ridge, 117B23:413; 24:432, 437
- periodograms, 117B23:415
- pyroxenes, 129B17:316
- sediments, 162B14:200–201, 206–207; 164B14:149;
171B_B4:4–5; 181B9:2; 189B12:3; 202B8:6;
205A4:23; 5:17; 205B3:4
- Site 794, 127/128B(2)78:1249
- stratigraphy, 163X_A8:15
- volcanic basement, 163X_A8:9
- vs. age, 181B9:5; 184B12:21; 199A1:70
- vs. calcium carbonate, 205B3:8
- vs. carbonate-free thorium, 162B14:204
- vs. depth, 152B25:295, 297; 154B36:519–521, 523,
525; 157B31:546–553; 32:566; 38:623;
160B17:210–212; 162B14:204; 171B_B4:11;
177B1:7; 185A4:124; 189B12:6; 205A4:82; 5:58;
205B3:7; 206B3:16
- vs. iron/aluminum ratio, 152B25:297
- vs. iron oxide, 205B3:9
- vs. magnesium number, 179B2:39
- vs. sodium/titanium ratio, 137/140B5:56
- wind velocity, 117B24:434–435
- aluminum yield
 - vs. depth, 138A(2)13:726
 - vs. natural gamma ray activity, 138A(2)13:727
- aluminum/zirconium ratio
 - Oman margin N, 117B23:412
 - Owen Ridge, 117B23:412
 - sediments, 171B_B4:5
 - vs. age, 184B12:21
 - vs. depth, 157B31:554; 160B17:210–212; 171B_B4:11
- alunite
 - hydrothermal alteration, 193B1:16
 - photomicrograph, 193A3:169
 - X-ray diffraction data, 126A7:150
 - See also* natrojarosite
- alveolinids
 - abundance in carbonates, 144B6:131
 - Paleogene, 144B50:887–893
 - Pleistocene, 133B26:371–374
 - Site 821, 133B26:371–374
- Alvin* dives, fluid flow, 170A1:11
- amalgamated beds, lithology, 210A3:27
- Amaranthaceae
 - influx frequency spectrum, 108B6:101–103
 - See also* Chenopodiaceae/Amaranthaceae ratio
- amino acids
 - acidic vs. basic aminos, 117B32:536–537
 - adsorption by organic matter, 117B32:538
 - aromatic and sulfur-containing, 126B35:532, 536
 - aspartic acid/alanine acids, 117B32:538
 - biogeochemistry, 126B35:537–538
 - correlation, 155B39:596–597
 - deamination, 135B44:712–713
 - degradation pathways, 117B32:529
 - fluid flow, 168B1:4–5
 - glutamic acid/aminobutyric acid ratio, 117B32:538
 - microbial degradation, 117B32:538, 540–541
 - nonprotein acids, 126B35:537–538
 - organic acids, 144B27:473
 - organic matter, 201B1:5
 - peptide bond stability, 117B32:536
 - pore water, 116B12:141–144; 117B32:538–542;
201B12:1–7
 - Prydz Bay, 119A4:114–117
 - racemization, 155B22:375–378; 174AXS_A7:27–29,
64
 - sediments vs. pore water, 117B32:534–538, 543
 - shells, 150X_B26:355–357
 - Site 744, 119A4:114–115
 - Sites 723 and 724 comparison, 117B32:538, 540, 543
 - source material, 126B35:536–537
 - Sumisu Rift, 126B35:532–540
 - vs. biogenic silica, 117B32:540
 - zones, 174AXS_A3:18
 - See also* alanine; aminobutyric acid; aminostratigraphy; aspartic acid; D-allisoleucine/L-isoleucene ratio; deamination; glutamic acid; glycine; ornithine; phenylalanine; proline; serine; valine
- amino acids, dissolved combined (DCAA)
 - diagenetic indicators, 126B35:531
 - pore water, 126B35:534, 536–539
- amino acids, dissolved free (DFAA)
 - pore water, 126B35:531
 - Site 681, 112B36:563
 - vs. depth, 126B35:532–537
- amino acids, dissolved hydrolyzable (DHAA)
 - dissolved organic carbon contribution, 117B32:539
 - Oman margin N, 117B32:533
 - Site 681, 112B36:559, 563
- amino acids, total hydrolyzable (THAA)
 - Oman margin N, 117B32:533
 - pore water, 126B35:532–535
- amino compounds
 - Cornaglia Terrace, 107B36:594, 596–597
 - dissolved hydrolyzable amino acids/dissolved hydrolyzable amino sugars ratio, 112B36:563
 - dissolved phases, 112B36:559–560
 - distribution, 112B36:559
 - glucoseamine/galactoseamine ratio, 112B36:563–564
 - particulate phases, 112B36:558–559
 - Salaverry Basin, 112B36:560, 562
 - total hydrolyzable amino acids/total hydrolyzable amino sugars ratio, 112B36:563
 - Tyrrhenian Sea, 107B36:594–598
- amino sugars
 - sediments vs. pore water, 117B32:534–535
 - vs. total organic carbon, 117B32:540
- amino sugars, dissolved hydrolyzable (DHAS)
 - Oman margin N, 117B32:533
 - Site 681, 112B36:559–560
- amino sugars, total hydrolyzable (THAS), 117B32:533
- aminobutyric acid
 - Oman margin, 117B32:538

- Sumisu Rift, 126B35:537–538
- aminostratigraphy
correlation, 155B39:596–597
lithology, 174AXS_A3:18–19
Quaternary, 150X_B26:355–357
See also amino acids; amino compounds; geochronology; Mercenaria; Mulinia; racemization
- Ammodiscidae
biostratigraphy, 210A1:23
lithology, 210A4:8
- ammonia
bacteria, 168B13:164
diagenesis, 168A4:80
fluid flow, 168A4:84
organic matter, 168A4:83
pore water, 149A5:135; 6:191; 7:244; 151A6:129; 9:181; 157A4:78; 5:124; 6:155; 7:355; 8:415; 9:457–458; 168A6:176
sediments, 149A4:98; 169S_B1:39–40
vs. depth, 149A4:99; 5:135; 6:192; 149B14:303; 151A6:130; 157A9:460; 157B38:630; 168A4:83; 5:144; 6:180; 168B13:164; 169S_A2:54, 57
vs. sulfate, 157A1:99; 6:157; 157B38:629; 168A4:84
- ammonites
abundance in carbonates, 144B9:180, 182, 184, 186
Cenomanian/Turonian boundary, 207A1:7
lithology, 171B_A4:116; 6:257–258; 207A5:9
photograph, 171B_A6:259
photomicrograph, 207A5:50
See also protoconchs
- ammonium
amino compound degradation, 117B32:543
bacteria, 169B2:8; 180A9:40–41
Cagayan Ridge, 124A12:328
carbon dioxide reduction zone, 188A3:45
Celebes Sea, 124A10:155
chloride uptake, 125B21:381
clay minerals, 127A5:204; 6:279–280; 7:362
concentration, 131A6:128–138
Conical Seamount, 125B21:384
deformation, 205A5:33
diagenesis, 124B14:208; 146B(1)25:381; 172A3:60; 4:123, 125; 174A_A3:73–74
Dronning Maud Land margin, 113A8:375
fluid flow, 166A10:330
geochemical cycles, 205B6:9; 7:12
geochemical data, 152A8:98–99
high-resolution vs. regular sampling, 119B20:395
hydrothermal fluids, 139B20:399
Jane Basin, 113A12:735–737
Kerguelen sediment ridge, 119A14:518; 15:544–545
lateral flow, 160A8:250; 9:311, 313
Lima Basin, 112A11:184, 186; 19:823, 826; 112B9:153; 25:426, 432
lithology, 181A1:14
Maud Rise, 113A6:230
methane, 180A9:45
nitrogen budget, 201B5:10–12
nonsteady-state model, 201B5:12–13
Oman margin, 117A11:349; 12:403; 13:432; 14:458–459; 15:480; 18:578
organic carbon decomposition, 127A5:204; 6:279–280; 7:362; 127/128B(2)79:1262; 204A3:17; 10:14–15
organic matter, 124B18:241; 159A6:194; 160A8:247; 9:310–311; 10:363; 161A5:145–146; 6:236; 185B3:5
Owen Ridge, 117A9:230–231; 10:281; 19:618
particulate organic nitrogen, 201B1:6–7
Peru margin, 112A1:16
Pisco Basin W, 112A1:19; 18:726–727, 733, 735; 112B10:153; 25:426
Pleistocene, 202B1:9
pore water, 115B34:631, 634; 116A4:60–61, 66; 5:108–109; 6:167; 116B34:422–423; 117B30:510–511; 119B18:369, 373; 19:386; 21:402–403; 124B18:242; 127/128B(2)79:1264; 130A8:324; 12:549; 131A6:162, 168; 131B13:166–168, 170, 174; 31:392; 133A(1)8:265–267; 13:522–524; 15:633–634; 16:708–709; 17:783; 134A7:114; 9:204; 10:279–280; 11:347; 12:417; 135A(1)5:216; 6:266; 7:316–318; 135B42:683–688; 136A4:55; 5:71; 138A(1)10:223–224; 11:299; 139A5:115, 191; 143A6:136; 7:215; 9:331; 144A3:68; 4:129; 5:179; 6:232; 8:302; 144B27:469–474; 145A3:53; 4:97; 5:151; 6:239; 7:312–313; 8:352; 145B45:671; 150A6:99; 7:167; 9:286; 10:330; 151A7:182; 8:240; 9:286; 10:333; 11:367; 154A6:249; 7:304; 8:359; 155A1:1; 6:106; 7:141; 8:190–191; 9:217; 10:260; 11:295; 12:349; 13:398; 14:424; 15:450; 16:476; 17:520; 19:584; 20:610; 21:650; 156A6:149; 159A7:243; 8:284; 160A7:187; 11:392; 161A4:83; 7:320–321; 9:405; 162A3:76, 79; 4:115; 7:246; 8:274; 9:309; 10:361; 164A5:89; 6:128; 8:264; 9:300; 164B17:171–172; 165A3:75; 4:166; 5:259; 6:317; 165B19:288; 166A6:94; 7:161; 8:189; 9:251–252, 254; 10:313–316; 167B32:343; 169A4:171–175; 5:218; 6:277–281; 170A3:73; 4:133–134; 5:173–175; 7:235–236; 171B_A3:77; 5:209; 6:286; 7:334; 172A5:221; 7:311–313; 174A_A3:72–73; 4:122–123; 5:170–171; 175A3:72; 4:100; 5:129; 6:163; 7:188–189; 8:212; 9:255; 10:294–295; 11:325; 12:367; 13:409; 14:444; 15:472; 177A3:12; 4:16; 6:14–15; 7:15; 8:17; 9:13; 178A4:21; 5:18; 6:14; 7:16; 8:13; 9:15; 180A1:26; 6:54, 57, 61; 7:21; 9:39; 12:36, 38; 181A3:22; 4:19; 5:20; 6:29; 7:38; 8:31; 182A5:19; 6:29; 8:24–25; 9:19; 10:24; 12:20; 184A4:21; 5:18; 6:13–14; 7:18; 8:8; 9:22; 186A5:25–27; 188A3:43–47; 4:29; 5:23; 189A3:43, 161; 5:47, 158; 6:51, 166; 7:44, 140; 190A4:19, 64; 8:17, 44; 191A4:21; 194A3:16; 4:22; 6:13; 9:15; 198A3:34; 4:26; 5:27; 6:24; 7:23–24; 8:21; 9:30; 199A12:25; 13:21; 202A3:13; 4:15; 5:13; 6:14; 7:17–18; 9:18–19; 10:17; 202B9:5; 205A4:46; 5:31; 6:16; 205B1:28; 206A3:38; 207A5:26
production rates, 113B50:889
profiling models, 201B5:29
redox, 165A5:257; 185A4:27

rock-water reaction zone, 188A3:46
 Salaverry Basin, 112A1:19; 12:267, 270, 13:322,
 112B9:153; 25:426
 sampling results, 119B20:395
 sediments, 134A8:157–158; 152A11:234–235;
 156A7:232; 166A11:363–364; 167A(1)4:74;
 5:104; 6:144; 7:166; 8:193; 9:232; 10:261;
 11:295; 12:328; 13:368; 14:406; 15:447; 16:475;
 172A6:285–286; 180B(synthesis):15; 186A4:38;
 190A5:23–24, 70; 6:17; 7:14–15; 9:19
 serpentinization vs. sodium effects, 125A12:284–285
 Site 682, 112A14:388, 390
 Site 685, 112A17:626, 628, 631, 632
 Site 688, 112A20:909, 912
 Site 695, 113A10:561–562
 Site 696, 113A11:647–648
 Site 709, 115A7:480
 Site 710, 115A8:609
 Site 711, 115B36:674
 Site 714, 115A11:857, 863
 Site 716, 115A13:1013, 1015
 Site 720, 117A8:180
 Site 728, 117A16:521
 Site 736, 119A5:137–138, 140, 156
 Site 737, 119A6:187; 119B18:359
 Site 738, 119A7:257
 Site 739, 119A8:313
 Site 740, 119A9:362–363, 374
 Site 741, 119A10:385
 Site 742, 119A13:429
 Site 743, 119A12:466
 Site 744, 119A13:491
 Site 765, 123A4:147; 123B3:80–81
 Site 766, 123A5:303
 Site 779, 125A7:126
 Site 780, 125A8:158, 161
 Site 786, 125A14:328–329
 Site 787, 126A5:88
 Site 790, 126A7:188
 Site 791, 126A7:188, 194
 Site 792, 126A8:270
 Site 793, 126A9:378
 Site 794, 127A4:108
 Site 795, 127A5:204
 Site 796, 127A6:279–280
 Site 797, 127A7:362, 368
 Site 798, 128A4:173, 181
 Site 799, 127/128B(1)34:610; 128A5:317–318, 328
 Site 803, 130A5:133
 Sites 849 and 850 comparison, 138A(2)15:854
 solubility, 166A11:365
 sources and sinks, 201B5:8–10, 26–27
 sulfate, 117A11:347; 119B19:380, 385; 21:401, 403
 Sulu Sea, 124A11:235, 239
 Trujillo Basin, 112A1:19; 16:552, 563; 112B25:426
 vs. age, 130A10:532; 12:550
 vs. alkalinity, 181B7:10; 198A4:65
 vs. chloride, 201B5:9, 25
 vs. depth, 113A6:237; 8:380; 9:485–486; 11:650–651;
 133A(1)13:525; 15:634; 16:711; 17:783;
 134A7:113; 8:160; 9:207; 10:282; 12:422;

13:506; 134B8:113, 117–118, 124–126;
 135B44:714; 136A4:56; 138A(1)10:233; 11:299;
 12:361; (2)14:777, 780; 15:853; 138B26:603;
 139A5:129; 6:196; 7:339; 8:477; 139B27:489–
 490; 43:688; 141A8:281; 10:406; 143A6:140;
 7:217; 9:333; 144A3:73; 4:130; 5:182;
 144B27:473; 145A3:64; 5:152; 6:244; 7:321;
 8:360; 146A(1)4:86; 5:189; 6:270; 7:345;
 150A6:103; 7:172; 8:236; 9:290; 10:333;
 151A5:82; 152A8:102; 11:238; 12:271;
 155A6:112; 7:149; 8:192; 9:219; 10:261; 11:296;
 12:354; 13:402; 14:426; 15:456; 16:481; 17:528;
 18:558; 19:585; 20:615; 21:651; 22:677;
 156A6:148; 7:240; 159A5:110; 6:194; 7:244;
 8:285; 160A4:79; 5:114; 7:191; 8:253; 9:312;
 10:366; 11:394–396; 12:436; 161A4:94; 5:153;
 6:260–261; 7:333; 8:387; 9:412; 161B33:425–
 427; 162A3:80–81; 4:119; 5:162; 6:196; 7:248;
 8:281; 9:318; 10:374; 164A5:93; 6:131; 7:203;
 8:271; 9:303; 164B17:172; 165A3:75–76; 4:166;
 5:257; 6:319; 7:372; 165B19:289, 294;
 166A6:94; 7:163; 8:189–191; 9:253; 10:314;
 11:363; 166B17:182–185, 189; 167A(1)4:79–80;
 5:110–111; 6:148; 7:170; 8:204; 9:232; 10:265;
 11:302; 12:339; 13:371; 14:414; 15:447, 456;
 16:480; 167B32:349; 169A3:115; 4:176; 5:220;
 6:276–278, 280; 169B2:8, 18; 170A3:79; 4:133;
 5:178; 7:237; 171B_A3:84; 4:147; 5:217; 7:341;
 172A3:62; 4:136; 5:226; 6:285; 174A_A3:75;
 4:126; 5:173; 175A3:78; 4:107; 5:134; 6:169;
 7:191; 8:215; 9:260; 10:300; 11:331; 12:370;
 13:415; 14:450; 15:478; 17:512, 522; 20:549;
 177A3:33; 4:48; 5:51; 6:43; 7:34; 8:50; 9:41;
 178A4:77; 5:70; 6:49; 7:52, 53; 8:47; 180A1:48;
 6:162; 9:114; 12:118; 180B(synthesis):35;
 181A3:54; 4:40; 5:46; 6:73; 7:93–94; 8:75; 9:49;
 182A5:46; 7:50; 8:53; 9:43; 10:54; 11:31; 12:46;
 184A4:59; 5:57; 6:38; 7:56; 8:23; 9:68;
 185A4:113; 185B1:31; 3:11; 186A4:128; 5:73;
 188A3:125; 4:75; 5:65; 189A3:93; 5:92; 6:105;
 7:84; 190A4:69; 5:70; 6:46; 7:38; 8:44; 9:51;
 191A4:76; 194A3:46; 4:80; 5:63; 6:48; 8:53;
 9:43; 195A3:115; 4:132; 198A1:140; 3:94; 4:64;
 5:65; 6:58; 7:54; 8:51; 199A8:35; 9:26; 10:39;
 11:64; 12:69; 13:53; 14:38; 15:30; 202A3:36;
 4:48; 5:42; 6:47; 7:55; 8:67; 9:63; 10:58; 11:53;
 12:63; 13:51; 202B9:17; 204A3:59; 4:61; 5:28;
 6:39; 7:36; 8:48; 9:46; 10:52; 11:35; 205A4:145;
 5:85; 205B6:20; 7:28; 206A3:148; 207A1:79;
 4:57; 5:67; 6:66; 7:62; 8:58; 207B1:22; 9:14–15
 vs. magnesium, 137/140B13:146; 185A4:118
 vs. magnesium number, 169A3:118; 4:172, 178
 vs. phosphate and alkalinity, 119B19:383
 vs. phosphate in pore water, 119B19:384
 vs. subbottom depth, 141A6:120; 7:217
 vs. sulfate, 115B34:642; 154A4:103; 177A3:34;
 207A6:69
 vs. time, 205B1:54
 vs. vitrinite reflectance, 139B27:490
 Weddell Basin, 113A9:484
 Yaquina Basin, 112A15:463, 467

- ammonium, dissolved
 microbial activity, 201A1:11–13
 pore water, 201A1:19–20, 23–24, 27, 31, 37, 40; 6:17;
 7:16; 8:16; 9:14; 10:14; 11:13; 12:14; 201B5:5–8,
 28, 30
 vs. depth, 201A6:44; 7:47; 8:37; 9:38; 10:40; 11:49;
 12:34; 201B1:41; 5:20, 22–23, 27; 202A1:107;
 202B9:19–22
- ammonium, mineral, time-temperature history,
 139B27:485–494
- ammonium/chloride ratio, 164A8:273
- ammonium/pH ratio, 125B29:511, 514–515
- Ammosphaeroidinidae, Site 766, 123B14:273
- amorphous material, vs. depth, 178B13:12
- amphibole crystals, composition, 157B14:204
- amphibole formula, calculation, 176B4:20–21
- amphibole gneiss
 lithology, 176B6:3
 magnetic susceptibility, 176B11:16
 photograph, 176A3:160
- amphibole grains
 photomicrograph, 173A9:289; 180A12:68
 sandstone, 180B7:10
 volcaniclastic sand, 180B7:5
- amphibole mica schist, photograph, 195A3:97, 99;
 195B4:15
- amphibole veins. *See* veins, amphibole
- amphiboles
 alteration, 118B9:209–210; 147A3:68–69, 71; 5:12–20;
 6:10–14; 10:12–15; 148B8:103; 176A3:139;
 176B6:3–4; 209A5:82
 aluminum, 161B18:256
 amphibolites, 173A6:130–131; 7:190–191
 anisotropy and orientation, 118B12:249, 251
 Baffin Bay, 105B7:98
 basalts, 169A5:213
 Bengal Fan, 116B6:62
 binary intercationic correlations, 153B31:544–545
 boninites, 125B13:257–258; 38:643–644
 breccia, 173A7:188–189, 193–194
 calc-silicate rock, 161B18:254–256
 chemical composition, 124B35:474, 485; 125B25:421;
 137/140B14:160; 20:237; 149B26:455, 466;
 155B7:155–156; 157B15:238; 17:307; 27:455;
 176B4:10–11, 41–42; 9:43–46
 chromatography, 125B38:643–644
 classification, 153B31:541
 clastic mineral phases, 157B15:232
 clasts, 149A6:167; 173A9:282–283
 color, 103B14:227
 composition, 147B10:199; 14:271; 15:303–305;
 148B8:106; 34:425; 153B5:97; 30:524;
 176B4:36–37; 209B4:22
 Costa Rica Rift, 111B6:64–67, 71–73
 crystallization, 125B30:528; 129B17:318–319;
 140A2:110
 dating, 113B5:55, 58, 59, 61–63
 De Marchi Seamount, 107A12:961; 107B2:34
 deformation, 118A4:68; 6:130; 147A3:74–76;
 209A6:20
 diabases, 129B18:346
 drift deposits, 178B8:7
 electron microprobe data, 137/140B18:210–213;
 148B8:105; 149B32:545
 fault gouge, 180A11:4
 ferric vs. ferrous iron, 118B9:190, 197–199
 fluid inclusions, 147A3:76–78
 formation, 103B14:231–232; 118A6:132; 125B10:182;
 176B4:11–12
 fractionation, 121B14:287; 124B35:476
 gabbro replacement, 118A6:137
 gabbros, 147B1:6; 3:69–75; 153B13:282–391; 31:544–
 545; 176B8:3–14
 Galicia margin W, 103A8:134; 103B16:246–247
 geochemistry, 137/140B6:67–72; 157B12:164–166;
 18:316, 318; 176B8:52–53
 geothermometry, 137/140B15:178
 groundmass, 125B10:187
 harzburgites, 195A3:17
 heavy minerals, 150X_B7:75–79; 174A_B6:2–4;
 174B(synopsis):10
 isotopes, 147B14:281
 lithology, 152A7:77; 165A6:308; 167A(1)9:227;
 10:359; 169A6:267; 170A3:53; 7:219–220;
 174A_A4:113–115; 5:162–163; 176B6:3–14;
 180A5:7; 180B6:6–13, 16; 188A3:16; 193A4:14;
 195A3:13; 202A3:6–9
 magnesium number, 153B11:251, 254
 Mariana forearc, 125B24:408
 meta-anorthosite, 173A6:131
 metadiabase, 180A7:14–15
 metagabbros, 118B8:165; 173A7:191
 metamorphic vs. hydrothermal origin, 118B9:208
 metamorphism, 153B21:391–393
 metatonalite clasts, 173A7:191
 mineral chemistry, 103B14:227; 118B9:190–198;
 129B17:313–314; 147B15:299, 301; 153B9:167–
 170, 173, 175–176; 28:501–502; 31:539, 541–
 545; 180B8:10; 209B4:5
 minor elements, 118B3:56
 modal data, 148B5:66; 176A3:18
 mud, 195A3:19–20
 mylonites, 209A3:12
 olivine gabbros, 176B4:6–7, 53–54
 orientation, 118B11:240–241
 oxygen isotopes, 118B6:136; 137/140B8:103;
 147B14:280
 peak intensity, 113B3:29; 174A_A3:59; 4:116; 5:163
 pegmatites, 173A9:280
 peridotites, 125B12:230–232; 30:523, 527
 petrography, 125B10:173; 129B17:307; 161B27:357–
 359
 photograph, 147A4:119; 147B3:64; 148A2:67;
 153A3:85; 4:155; 5:201; 153B6:119; 7:125, 137–
 141; 9:158, 174; 22:403; 157A5:118; 169A3:100;
 173A9:280–281; 176A3:148; 206A3:238, 243;
 209A3:85, 87; 6:55, 82; 10:56
 photomicrograph, 157A7:356; 8:416; 161B18:261;
 163X_A6:42; 165A3:81; 169A3:100; 176A3:128–
 129; 176B4:31–32; 9:64–66; 179A4:120;
 179B2:33; 180A11:15, 21; 195A3:74;
 206A3:239–241; 209A1:114–115; 3:82, 88; 5:59,

- 71, 76–77, 83–85, 90, 138; 6:58–61, 67–68, 72–76, 84–87, 94; 10:78
 Pigafetta Basin, 129B5:140
 “placer sands,” 157B12:149
 provenance, 119B7:139
 Prydz Bay, 119A13:453; 119B7:138
 sand fraction, 146B(1)2:34–37, 40–42; 157B17:302
 secondary minerals, 118B26:504, 506; 137/140B14:159–160; 15:169, 172, 174–177; 148B6:76–80; 34:427–428; 180B3:7–8
 sediments, 139B8:115–116; 150X_B4:50, 54
 serpentine mud, 125B36:605
 serpentinites, 149B32:543
 shape, 103B14:227
 shear zones, 209A6:23–24
 Site 699, 114B37:688–689, 698
 Site 701, 114B40:739
 Site 778, 125B25:417–418, 423
 Site 779, 125B19:358
 Site 792, 126B44:678
 smear slides, 188A4:14–15
 strontium isotopes, 118B6:136
 structural formulas, 103B14:228
 sulfides, 176B7:5
 tectonic breccia, 173A6:132
 tephra layers, 121B14:284
 textures, 147B3:60–65; 176B4:8–9
 thin sections, 176A3:24–25
 turbidites, 168A4:57–59; 5:111–112
 Tyrrhenian Sea, 107B3:42
 ultramafic rocks, 125B26:437
 veins, 147A3:72–73, 85–86; 148A2:66; 153A3:79; 153B30:525; 176A3:42–43; 176B4:7–8, 25–26; 9:3–5, 9–10, 17–19, 30; 209A5:87; 6:65, 71
 volcanic ash, 127/128B(2)87:1379; 145B23:349, 381; 151B17:315; 156B28:346–348; 201B19:8–10
 volcanoclastics, 157B13:189
 vs. depth, 113B3:30; 148B5:60; 150A7:144; 195A3:76–78; 202A3:25; 4:32
 vs. plagioclase, 137/140B15:179
 X-ray diffraction data, 190A6:8
See also actinolite; alkali amphiboles; clino-amphibole; crossite; cummingtonite; edenite; ferriwinchite; ferro-actinolite; glaucophane; grunerite; hastingsite; hornblende; kaersutite; katophorite; magnesio-hornblende; micro-amphibolite; olivine-amphibole-talc assemblage; pargasite; richterite; tremolite; veins; winchite
 amphiboles, acicular, photograph, 209A10:80
 amphiboles, actinolitic, oscillatory zonation, 118B9:198
 amphiboles, blue-green, Atlantis Bank, 118A6:133
 amphiboles, brown
 alteration, 176A3:140; 209B4:4
 dikelets, 153B11:247
 gabbro deformation, 118A6:131
 high-temperature minerals, 176A3:35
 lithology, 209A6:3–10
 magmatic origin, 118B9:186
 olivine and ferrogabbros, 118A5:126–127
 oxide association, 118A6:133–134
 photomicrograph, 209A5:84–85; 7:67; 10:81
 replacement pattern, 118A4:69
 Site 733, 118A4:66
 amphiboles, brown-green, Atlantis Bank, 118B8:160
 amphiboles, calcic
 aluminum, 180B8:20
 Atlantis Bank, 118B8:166
 basement/sediment contact, 161A6:215
 Bengal Fan, 116B6:64–65, 69
 metagabbroic rocks, 147A4:133–134
 amphiboles, cross-fiber secondary, 209A6:86
 amphiboles, euhedral brown, 209A6:61
 amphiboles, fibrous
 photograph, 153A5:199
 photomicrograph, 209A6:73; 10:81, 105
 transmission electron microscopy, 147B12:244
 amphiboles, green
 alteration, 176A3:140
 high-temperature minerals, 176A3:34–35
 moderate-temperature minerals, 176A3:36
 oxygen isotopes and formation, 118B8:174
 photomicrograph, 209A10:82, 91–92
 sulfide minerals, 118A6:127; 118B5:117
 amphiboles, interstitial, 209A6:74
 amphiboles, iron-magnesium
 high-temperature minerals, 176A3:35
 reaction coronas, 118B9:198
 amphiboles, magnesian, volume increase, 118A6:138
 amphiboles, pleochroic, granite porphyry, 180A7:13
 amphiboles, poikilitic, igneous rocks, 173A6:130–131
 amphiboles, recrystallized, 153B5:81–82, 90–93
 amphiboles, schistose, shear zones, 209A6:23–24
 amphiboles, secondary
 near-static, 209A6:86
 photograph, 176A3:161
 photomicrograph, 209A6:84–85; 7:67
 strontium isotopes, 118B6:132–133
 vs. depth, 176A3:135
 amphiboles, zoned
 photomicrograph, 173A9:283; 180B3:28
 quartz gabbros, 180B3:5–6
 amphibolite facies
 alteration, 147B10:201–202
 Atlantis Bank, 118B26:497; 27:545
 conditions, 118B24:422
 deformation, 118A4:60; 209A5:103; 6:20
 dislocation slip, 118B22:407; 24:421–422
 gabbros, 147A3:68–71; 147B12:232–233; 173A6:155–156
 geology, 188A1:7–8
 internal structures, 173A4:199–201
 metamorphic rocks, 161A6:230
 metamorphism, 176A3:45–47
 petrography, 147A1:12; 173A6:130–131
 petrology, 173A7:215–217
 protoliths, 180A1:13
 shear zones, 176A1:8–10; 209A6:23–24
 Skaergaard Intrusion comparison, 118B26:505–506
 stable isotopes, 147B13:245
 subsidiolus deformation, 118B26:503
 timing of formation, 147B10:206
 veins, 176B9:17–19

- volcaniclastics, 180B8:5–6
- amphibolite fragments, volcanoclastics, 180B8:5–6
- amphibolite gneiss, composition, 179A4:9
- amphibolite mylonite
 - metamorphism, 118A5:86
 - petrography, 118A5:85
 - Site 734, 118A5:84
- amphibolite schist, photograph, 162A9:302
- amphibolites
 - alteration, 153A3:82–83; 209A3:13
 - basement, 160B54:735; 173A1:13
 - breccia, 173A6:131–132
 - chemical composition, 149B26:466
 - clasts, 173A9:279
 - contamination, 152B41:508–509
 - emplacement, 173A6:137
 - foliation, 118A4:63; 173A6:139
 - gabbroic protolith, 173A6:155–156
 - geochemistry, 173A6:133–135, 139–141, 198; 7:195–199
 - heat flow, 173B3:2
 - lithology, 153B10:186–198; 163X_A6:9; 173A6:130
 - melting, 125B12:231; 13:258; 38:658–659; 153B10:214; 163X_A1:3–4
 - mineralogical evolution, 173A6:135
 - mylonites, 176A1:14–16
 - Peru margin, 112A6:96
 - petrography, 173A6:130–131
 - petrology, 153A3:63–64; 180A7:14–15
 - photograph, 153A3:53, 89–90; 6:244; 153B9:165; 173A6:147; 7:188, 191
 - photomicrograph, 209A6:48–49, 57, 60
 - plastic deformation, 118A4:60
 - primary mineralogy, 118A4:65
 - saturation remanence, 173B8:24
 - stable isotopes, 125B28:500
 - static and dynamic metamorphism, 153A6:241
 - whole-rock geochemistry, 173B10:1–20
 - See also* micro-amphibolite
- amphibolites, brecciated
 - lithology, 173A6:127–129
 - X-ray diffraction data, 173A6:138
- amphibolites, deformed, lithology, 173A6:130
- amphibolites, folded, photomicrograph, 173A6:134, 144
- amphibolites, foliated
 - breccia, 173A7:188–189
 - lithology, 173A6:124, 126–127
 - photograph, 173A6:128–130
 - photomicrograph, 173A6:132–133
 - plastic deformation, 118A4:75
- amphibolites, garnet, composition, 149A7:234–235
- amphibolites, gneissic, structure, 176A1:7–8
- amphibolites, mafic, partial melting, 163B9:108–110
- amphibolites, poikilitic, photomicrograph, 173A6:135
- amphibolites, retrogressed, photomicrograph, 173A6:145
- amphibolites, sheared, petrology, 149B36:581
- amphibolitization
 - photograph, 153A5:190; 153B21:392–393
 - recrystallized gabbros, 118B26:488–489
 - secondary stages, 118A6:132
- See also* microgabbro
- amplitude
 - subseafloor reflections, 200B6:17
 - vs. depth, 156B23:299, 301; 168A6:201; 179B1:14
 - See also* synthetic seismograms
- amplitude time series analysis, carbonate, 138B14:329
- amplitude vs. offset, bottom-simulating reflection, 141B18:247–249
- amygdaloidal aphyric basalt. *See* basalts, amygdaloidal aphyric
- amygdaloidal texture. *See* textures, amygdaloidal
- amygdules
 - basalts, 151A5:77–78; 169A5:212–214
 - distribution and types, 193A3:276
 - igneous units, 163X_A6:22–23
 - lithology, 163X_A6:16–17; 193A3:26–33; 4:18; 198A9:13
 - photograph, 206A3:244, 269
 - photomicrograph, 168A5:134; 193A1:45; 3:126, 129, 134, 162, 166; 4:99–100, 103, 123–127, 151, 163; 195A4:105; 196A3:76
 - Site 738, 119A7:241
 - Site 747, 120A6:129
 - vs. depth, 140A2:70
 - zeolites, 120B(1):4:64
- amyryns
 - maturation, 139B24:458
 - sediments, 155B35:564
 - vs. depth, 155B35:561–562
 - See also* hydrocarbons, polycyclic aromatic
- amyrones, maturation, 139B24:458
- anaerobic bacterial degradation. *See* bacteria; methanogenesis; sulfate reduction
- anaerobic conditions
 - basins, 146B(2)22:302–303; 23:309–312, 322–323
 - photomicrograph, 193A4:197
 - pore water, 208A4:19–20
 - sediments, 195B3:11
- anaerobic methane oxidation zone. *See* methane oxidation, anaerobic
- analcime
 - alteration, 124B13:191–192; 135A(1)11:596; 135B43:694–697; 139A7:498, 500–510; 152B35:426; 176B1:5; 183B15:7; 192A1:26; 4:17; 200A3:25
 - Bermuda Rise, 102B10:143
 - breccia, 143A7:227; 173A7:194–195; 173B1:3–5
 - Cagayan Ridge, 124B13:187
 - clasts, 173A9:283
 - composition, 148B10:124
 - lava flows, 152A9:134–135
 - lithology, 192A1:16; 195A3:14
 - Marsili Basin, 107A6:142
 - mineral chemistry, 152B34:419
 - occurrence, 152B34:418
 - origin, 160B45:587
 - paleosols, 144B19:386
 - photograph, 148A3:146
 - photomicrograph, 129B4:134
 - Pigafetta Basin, 129B1:13
 - sediments, 139B8:127

- serpentinized peridotites, 173A7:192–193
 sill zoning, 210A3:67
 Site 748, 120A7:220
 Site 792, 126B44:678
 Site 797, 127/128B(1)9:139, 143
 Site 802, 129B4:124
 spectra, 134B9:145
 strontium isotopes, 148B10:137
 Sulu Sea, 124B13:184, 186–187
 tuff, 129B4:127, 129–130
 turbidites, 131A6:96
 veins, 192A4:18
 volcanic ash, 131A6:173–184; 131B14:177
 volcanoclastics, 134B9:137–144; 197A3:19
 vs. depth, 173B1:7, 11
 X-ray diffraction, 134B8:114–116, 119; 195A4:16–17
 analcime, euhedral, photograph, 139A7:499
 analcime, isotropic, photomicrograph, 173A9:283
 analcime cement. *See* cements, analcime
 analcime-wairakite series
 photomicrograph, 195A4:90
 sediments, 195A1:20
 analcite. *See* analcime
 anatase
 basalts, 148B38:473, 475–477
 deep copper zone, 169A3:77
 deuteric oxidation, 137/140B29:332
 magnetic minerals, 137/140B22:257–259
 paleosols, 144B19:383–386
 sediments, 139B8:116
 See also leucoxene
 anchimetamorphism
 detrital provenance, 131B2:30
 thermal history, 159B10:97–98
Anconichnus, lithology, 181A6:7
 andalusite
 gneisses, 161B19:264–265; 20:283–284
 heavy minerals, 174A_B6:6, 9–11
 photograph, 161A6:228
 photomicrograph, 161A6:244–246; 161B19:278–279;
 20:285
 pressure-temperature conditions, 161B44:566–567
 schists, 161B19:264–265; 20:282–283; 23:312
 andalusite porphyroblasts
 basement/sediment contact, 161A6:215, 220
 textures, 161A6:223–224
 andesine
 amphibolites, 173A6:138–139; 7:190–191
 diabases, 180B3:7
 volcanic rocks, 141B28:351
 andesite clasts. *See* clasts, andesites
 andesite fragments, subrounded, 180A9:89
 andesites
 alteration, 125B9:153, 164; 12:222–223
 aluminum oxide-magnesium oxide, 126A9:370
 amphiboles, 125B10:187
 aphyric to sparsely phyric, 126A9:367; 126B28:432,
 438
 basement, 126B28:444
 boninitic affinity, 126B28:442
 Cagayan Ridge, 124A6:93; 11:255; 12:313–315;
 14:402
 clinopyroxene-orthopyroxene, 126B15:233
 composition, 126B28:433, 438; 127/128B(2)51:844;
 141A3:24
 crystallization of iron-titanium oxides and sulfide seg-
 regation, 118B4:93–94
 deposition, 202A12:10
 ductile shearing, 125A14:331
 fractionation, 124B35:476
 geochemistry, 124B19:257; 21:305; 23:333–334;
 126B27:419, 421, 426, 429; 28:432, 442;
 134B19:388–390; 145B44:664–665
 groundmass, 125A10:205
 incompatible-element comparisons, 124B23:332
 lava, 134A8:153–154
 lithology, 125B9:166; 126A9:367, 369, 371;
 126B28:432, 434, 442; 193A1:4
 magmatism, 161B44:574
 magnesium number, 125B10:196
 magnesium-chromium-nickel, 126A9:370
 mineralogy, 125B10:194
 Neogene–Quaternary interval, 104A4:81
 Norwegian Sea, 104A4:101
 olivine- and chromium-spinel, 126A9:367;
 126B28:432
 Palawan Island, 124B9:124
 petrography, 125B10:180; 13:239; 134B16:338, 342;
 161B27:357–359; 165A3:83
 petrology, 134B17:353; 18:364–367; 141B28:349–360;
 180A7:13–14
 phenocrysts, 125B10:182; 126B27:419, 421
 photomicrograph, 127/128B(2)52:859; 180A8:59;
 9:76, 84
 rare earths, 127/128B(2)58:924
 rhyolite transition in oceanic arcs, 126B26:395
 Sabah, 124B9:128
 Sardinian margin, 107B4:53, 70
 shallow-level processes, 125B12:227
 Site 699, 114A6:193
 Site 701, 114A8:375
 Site 782, 125B13:258
 Site 786, 125A14:321, 323, 325–326; 125B14:268
 Site 788, 126A6:120
 Site 792, 126B44:677
 Site 795, 127/128B(2)52:850, 854; 83:1338
 spidergrams, 127/128B(2)58:924
 stable isotopes, 125B13:259
 strontium isotopes, 125B13:256
 Sulu Sea, 124A6:93; 11:270–271
 Sunda ash, 123B8:181
 thin sections, 161A9:1020, 1023
 trace elements, 125B12:222; 126A9:370–371;
 126B27:419
 volcanic ash layers, 127/128B(1)48:793
 volcanic breccias, 126A9:361–362
 volcanic glass inclusions, 126B11:171–175
 volcanic pebbles, 161B44:569
 volcanism, 201B19:3
 water content and phase equilibria, 125B10:186–187
 Zamboanga Peninsula, 124B9:128

- zirconium/strontium ratio, 125B12:223
See also ferroandesites
- andesites, basaltic
 brecciation, 127A5:221–222
 clasts, 135A(1)8:354–356
 composition, 127A5:174, 217; 135A(1)5:199–200;
 11:657; 135B25:433–455; 27:489–503; 39:647–
 651
 geochemistry, 135A(1)6:272–273; 7:323, 325–326;
 135B3:43–44; 29:519–531; 30:533–542
 lithology, 135B16:248–249
 melts, 163B9:95–112
 modal data, 135B24:386–389
 origin, 134A1:16
 petrography, 135A(1)4:142–143; 7:319–323; 9:435–
 443; 161B27:357–359
 petrology, 135A(1)8:368–371; 11:630–631
 phase equilibria, 135B32:557–563
 photomicrograph, 161B27:362; 180A6:107
 post-late Miocene, 135B55:897
 rare earths, 127/128B(2)58:924; 147B3:73
 sediment provenance, 180B6:16–24
 Site 795, 127/128B(2)58:918; 83:1338
 Sites 834–835 analyses comparison, 135A(1)7:326;
 135B52:836, 837
 spidergrams, 127/128B(2)58:924
 vesicularity, 135B37:615–623
 volcanic ash, 145B23:371; 151B17:317–323
 volcanic glass, 135B3:28–30
- andesites, boninitic
 Bonin-Mariana region, 125B10:186–187, 200
 rock-water phase diagram, 125B10:200
- andesites, bronzite
 alteration, 125B14:268
 evolution, 125B10:188
 geochemistry, 125B9:150
 lithology, 125B9:166
 mafic phenocrysts, 125B10:182
 magnesium number, 125B10:197
 mineralogy, 125B10:177–178, 184, 190–193; 38:632
 petrography, 125B10:173
 shallow-level processes, 125B12:225–227
 Site 786, 125B9:154–155; 10:179–180; 14:264, 268
 stable isotopes, 125B13:249–250
 trace elements, 125B12:213, 217, 222
- andesites, calc-alkaline basaltic, photomicrograph,
 180B8:42–43
- andesites, high-magnesian, igneous activity, 190A1:3
- andesites, hornblende, photomicrograph, 180A10:31
- andesites, oceanic
 incompatible element enrichment, 121B31:592
 Ninetyeast Ridge, 121B30:572, 577
- andesites, plagioclase, petrography, 135A(1)6:267–268
- andesites, plagioclase-hornblende phyric, 180A6:23–24
- andesites, porphyritic
 blebs, 134A11:338–340
 calc-alkaline affinity, 126B28:442
 clinopyroxene-rich composition, 126A9:367
 Izu-Bonin forearc, 126B11:171–172; 28:442
 petrology, 126A8:262–266; 9:361
 plagioclase-rich composition, 126A9:367; 126B28:432
- pyroxene-rich composition, 126B28:432
 Trujillo Basin, 112A16:528
 xenoliths, 126A8:267
- andesites, tholeiitic, basement, 180B(synthesis):6
- andesites, two-pyroxene
 Izu-Bonin forearc, 126B28:431
 petrography, 134A11:338–341
 porphyritic texture, 126B29:450–451
 Site 792, 126B27:419, 430
- andesitic-dacitic composition, volcanic ash, 201B19:11–
 12
- andesitic source, deposition, 202A8:11–12
- andradite
 breccia matrix, 173B1:3–5
 veins, 153B30:524
 vs. depth, 173B1:7, 11
- anelastic strain recovery
 analytical methods, 123B24:472, 474
 Blanton model, 123B24:470–471
 elastic properties, 123B24:477
 equipment, 123B24:471–473, 489
 in situ stress, 131A6:170–171, 173–176
 low-permeability rocks, 123B24:489
 Poisson's ratio, 123B24:471
 Site 765, 123A4:206, 209–211
 Site 766, 123A5:328–331
 stress indicators, 123B24:470
 techniques, 131A5:65, 67
 thermal azimuthal anisotropy, 123B24:475–476, 488
 thermal stabilization, 123B24:474–475
 Warpinski and Teufel model, 123B24:471
- anemones, hydrothermal fields, 158A1:9
- angiosperms
 Cenomanian/Turonian boundary, 207A1:7
 continental rise, 178B2:1–10
 palynomorphs, 188B2:4–5; 3:11
 pollen, 133B9:109; 10:116, 123; 183B3:8, 11–13
 Site 750, 120B(1)17:258
 Sites 815, 820, and 823, 133B9:109; 10:116
 soft tissues, 201B4:21
See also Acanthaceae; Acanthostyles; Amaranthaceae;
 Artemisia; Asteraceae; Carduoideae; Casuari-
 naceae; Chenopodiaceae; Chenopodiaceae/Am-
 aranthaceae ratio; Cichorioideae; Cunoniaceae;
 Cupressaceae; Cyperaceae; Elaeocarpaceae; Eri-
 caceae; Euphorbiaceae; Gramineae; Juncaceae;
 Malvaceae; Meliaceae; Poaceae; Proteaceae; Res-
 tionaceae; Rhizophoraceae; Ulmaceae
- angular standard deviation
 paleolatitude, 192A5:22
 paleomagnetic units, 192A7:11
- angular unconformities. *See* unconformities, angular
- anhydrite
 active zones, 158A2:19
 alteration, 139A4:96–510; 139B10:155–201; 11:214;
 169A3:82–84; 169B9:5; 193A3:39–41, 51;
 193B1:15, 21
 amygdules, 193A3:29–30
 breccia, 158A7:71, 73–79
 carbonates, 144B26:462
 chicken-wire texture, 107B38:646

- Cornaglia Terrace, 107B13:190
 Costa Rica Rift, 111B3:31, 33; 6:67
 dissolution, 169A3:117; 182A4:32
 electron microprobe data, 148B8:107
 fluid inclusions, 139B21:413–416; 158B13:178–190
 flux, 161A4:83; 5:145
 fresh and altered dacite, 193B12:3–4
 geochemistry, 158B3:46–70; 27:366–367; 193B7:1–23
 gypsification, 107B13:198
 gypsum relationship, 107B13:194–195
 hydrothermal circulation, 169A1:7–8
 hydrothermal fields, 158A1:7–13; 158B1:9–11, 13–17,
 22; 3:42–46; 27:368–369
 laminations, 107B13:194
 lithology, 139A7:456; 161A5:125–126, 128, 131;
 169A4:164–168; 169B10:15; 193A4:15–41;
 200A3:13
 microthermometry, 158B13:166–170
 morphology, 107B13:194
 nodules, 107B13:194; 139A7:448
 petrology, 158A11:216, 219
 photograph, 139A6:178; 158A7:78, 80, 86–87, 91, 95,
 98, 100, 102–109; 8:147, 153, 156, 161; 9:215–
 217; 158B11:134; 12:147–149; 18:249;
 161A5:146; 169A3:61, 75, 80–81, 85, 108; 4:166;
 193A1:58–60; 3:106, 111, 151; 4:69, 90, 182–
 183; 200A3:74
 photomicrograph, 193A1:45, 57, 68; 3:139, 182, 197;
 4:122, 128–129, 161, 164, 171, 198; 193B1:56;
 6:15; 8:10; 9:25; 200A3:81, 102
 plagioclase replacement, 127/128B(1)9:148
 pore water, 169A3:115
 porosity vs. seismic velocity, 158B23:313–327
 precipitation, 137/140B13:144–146; 14:163–165;
 158B10:119–127; 22:307–308
 rare earths, 158B12:143–159
 role in growth rate of mineralization, 158B28:411
 rubble, 169A4:168
 sandstone replacement, 127/128B(1)9:143
 Sardinian margin, 107A8:418, 435; 107B1:13; 12:179;
 13:208–209; 39:645, 666
 saturation, 111A3:87; 137/140B13:147
 secondary minerals, 137/140B15:176; 148B34:426,
 429
 sediments, 139A6:208–209; 139B8:115–116;
 200A1:21–22
 separates, 193B7:16–23
 Site 715, 115A12:945
 stable isotopes, 158B6:85–90
 stratigraphy, 158A7:67–68
 strontium isotopes, 107B37:607; 158B11:129–141;
 22:306–308; 193B1:30–32
 sulfides, 139B18:377; 169A3:71, 76; 6:270; 193B1:22–
 23
 sulfur, 111B3:38; 4:41–45; 5:56–57
 sulfur isotopes, 139B48:739–748; 158B1:19–20; 5:74–
 79
 thermal properties, 158B24:329–335
 veins, 140A2:74; 158A7:68, 81–83, 86–87, 91, 95, 98,
 100–109; 8:144; 11:211; 169A3:75–76;
 169B10:9; 193A1:26; 3:59–65
 vs. depth, 193A3:171; 4:117
 X-ray diffraction data, 200A3:20, 97
 xenoliths, 193B6:3
See also breccia; clasts; gypsum-anhydrite series; veins
 anhydrite, anhedral, photomicrograph, 193B6:14
 anhydrite, authigenic, photograph, 169A3:80
 anhydrite, coarse, photograph, 169A3:71
 anhydrite, colloform, photograph, 158A8:152
 anhydrite, euhedral, photograph, 139A7:496
 anhydrite, granular, photograph, 158A7:74
 anhydrite concretions. *See* concretions, anhydrite
 anhydrite crusts, photograph, 137A2:39
 anhydrite-indicator ratio logs, vs. depth, 166A6:103
 anhydrite intergrowths, photomicrograph, 193B6:14
 anhydrite matrix, photomicrograph, 193A4:105
 anhydrite nodules. *See* nodules, anhydrite
 anhydrite overgrowths, photomicrograph, 193A4:140
 anhydrite percentage, vs. velocity, 158B23:325
 anhydrite-pyrite-pyrophyllite alteration, 193B8:1–18
 anhysteretic magnetic susceptibility. *See* magnetic sus-
 ceptibility, anhysteretic
 anhysteretic remanence susceptibility. *See* magnetic sus-
 ceptibility/anhysteretic remanence susceptibility
 ratio
 anhysteretic remanent magnetization. *See* remanent
 magnetization, anhysteretic
 Aniai-type flora, Japan Sea, 127/128B(1)15:249; 28:486
 anions
 pore water, 195A4:131
 vs. cations, 134B8:119; 141A10:408
 vs. depth, 141A10:408; 150X_B24:332–333
 Anisian, palynology, 173A4:103–104
 anisochelas
 Site 748, 120B(2)43:837
 Site 795, 127/128B(1)30:543
 anisotropy
 anhysteretic remanent magnetization, 121B15:361;
 16:372–374, 376; 191B9:3–4, 7, 15; 209A9:24–
 25, 98, 111
 Atlantis Bank, 118B11:231
 azimuth, 102B8:97
 compressional wave velocity, 168A5:156
 conductivity, 201A6:69
 consolidation behavior, 131B21:268
 décollement zone, 131B29:365–378
 deformed gabbros, 118B11:234, 236
 foliated gabbros and metagabbros, 118A6:157, 159
 isothermal remanent magnetization, 180A11:35
 Maastrichtian chalks and limestones, 121A13:498
 magnetic minerals, 178B14:3
 magnetic properties, 183A4:26, 29, 74; 5:146; 6:152;
 7:162
 magnetic susceptibility, 137/140B21:249–251;
 172B(overview):4; 4:1–22; 176A3:75, 222, 288–
 299, 191B9:4, 16–19; 192B5:17; 193A3:237, 301;
 4:209, 259; 6:11, 31, 45; 209A3:44, 165; 5:45,
 186; 6:35, 128; 7:31, 133; 9:24–25, 98, 110;
 10:35, 140, 165–166
 maximum strength vs. depth, 136A5:77
 microfabrics, 185B9:6–7, 29
 midcrust region, 102B8:112

- mineralogical effects, 118B11:236; 12:248–249
- mylonitic metagabbros, 118A6:163, 209–210
- Norwegian Sea, 104A4:186–189, 191
- oblique seismic experiment (OSE), 102B8:108–110
- oceanic crust, 127/128B(2)70:1110–1115
- permeability, 131B19:240–242; 169B8:4, 24
- preferred crack orientation, 118B11:231
- sediments, 159A6:199; 7:249; 8:288; 186A4:200; 5:117
- seismic reflection, 176B5:6
- shallow crust, 102B8:111–112
- shear wave velocity, 149B24:426–429
- Site 700, 114A7:289
- Site 752, 121B16:376
- Site 865, 143A6:156–157
- Site 869, 143A9:344–346
- Sites 867–868, 143A8:292
- strain, 131B11:155
- thermal conductivity, 209A6:111; 7:104
- velocity, 127A5:229; 176B2:4; 194A5:69; 6:56; 7:100
- vs. depth, 139A7:547; 139B37:587; 143A7:238, 243; 8:293; 149A4:107; 5:140; 6:196; 7:252; 149B19:357; 159A5:115; 6:199; 7:249; 8:289; 169A3:130; 176B5:32; 185B9:17; 191B9:8, 12; 192B5:19; 194A7:93; 8:57; 9:48; 196A3:74
- vs. pressure, 118B11:240–241
- See also* magnetic anisotropy; magnetic susceptibility anisotropy; thermal conductivity anisotropy
- anisotropy, acoustic
 - calcareous sediments, 130B40:665–670
 - microfabrics, 131B18:221–233
 - reorientation, 131B18:223
 - vs. bedding angle, 131B18:229
 - vs. depth, 131A6:211; 131B18:227–228, 230
- anisotropy, compressional wave velocity
 - horizontal, 186A5:80
 - vs. depth, 180A6:172; 8:95; 12:128; 185A4:137; 186A4:135; 5:80; 209A7:101
 - vs. magnetic declination, 186A4:136
- anisotropy, magnetic susceptibility
 - confidence angle, 191B9:10
 - discrete samples, 180A7:20, 79; 11:34, 43
 - ellipsoids, 191B9:9, 11
 - faults and bedding structures, 186B16:5–6
 - gabbros, 180B21:1–7
 - vs. depth, 180A5:78, 93; 6:153, 161; 8:87; 9:107; 12:112
- anisotropy, seismic
 - crust, 102B8:122–124
 - deformed gabbros, 118B22:405
 - parallel vs. perpendicular to foliation, 118B28:554
 - vs. carbonate content, 154B9:164, 167–168
- ankaramite
 - alkaline basalts, 144B28:487
 - geochemistry, 134B19:388–390
 - petrology, 144A6:236; 144B29:499–500
 - trace elements, 144B30:523
- ankerite
 - authigenesis, 172A5:226
 - basement/sediment contact, 161A6:215
 - breccia, 161A6:217; 173A7:194
 - fault gouge, 180A1:13; 11:4; 180B3:3–4
 - formation, 180A9:40–41
 - lithology, 150A7:147; 174A_A3:54–55; 180B6:6
 - magnetic susceptibility, 161A7:309, 316, 322
 - Mossbauer parameters, 127/128B(1)43:741
 - origin, 160B45:586–587
 - Sardinian margin, 107B13:195; 15:235
 - sediments, 159A7:244; 160B45:581
 - Site 758, 121A12:374
 - Site 796, 127A6:266
 - Site 799, 127/128B(1)6:82
 - vs. calcian dolomite, 123B3:79
 - X-ray fluorescence data, 161A6:237–238
- annealing, peridotite deformation, 125B30:528–529
- annite
 - breccia, 161A6:217
 - high-grade schist, 161A6:213, 215
 - pore water, 201A1:40
 - X-ray fluorescence data, 161A6:237–238
- anomalies
 - basement, 173A1:11
 - See also* free-air gravity anomalies; magnetic anomalies
- anomalinids, biostratigraphy, 133B26:366–371
- anorthite
 - Atlantis Bank, 118A6:99
 - basement secondary mineral geochemistry, 206B8:3
 - Celebes Sea, 124B20:282
 - compared to europium anomaly and calcium oxide in gabbros, 147B1:6
 - composition, 118B1:12, 18; 3:42, 49, 62, 64, 68–69; 127/128B(1)8:121–123, 126; 135B27:492; 31:545; 147B2:41; 152B33:408; 163X_A8:25; 176B(synthesis):52, 61; 8:12–13, 28–30; 187B2:4
 - cores and rims, 147B6:126; 9:179
 - crystal mush, 176B10:23–25
 - cumulates, 179B2:52
 - gabbros, 147B6:125; 153B6:105–109; 27:480; 176B6:21; 10:9–11, 55; 179B2:30
 - geochemistry, 193B8:4–5
 - iron, 106/109B11:141
 - lithology, 138A(1)10:193; 170A3:58–60
 - magnesium, 106/109B11:141
 - magnesium number, 176A3:49
 - major elements, 179B2:56–60
 - melt-rock interactions, 153B5:82–83, 93
 - mineral chemistry, 179B2:10; 200B3:11
 - mole percent, 179B2:51
 - olivine gabbro host vs. microgabbro, 176B8:22
 - petrography, 148A2:47
 - phase equilibria, 163B9:103
 - pillow basalts, 183A8:17–19
 - plagioclase, 118B1:12, 18; 3:42, 49, 62, 64, 69; 22:399; 126B11:174; 34:523; 153B5:96, 98; 6:112; 161B19:267–268; 176B4:27; 179B(synthesis):90; 193B2:25
 - potassium logs vs. photoelectric effect logs, 178A5:85
 - sediments, 192A6:104
 - Site 738, 119B16:301
 - Sites 794 and 796, 127/128B(1)8:126
 - strontium, 106/109B11:141

- veins, 147B10:196; 176B9:8, 29
vs. augite, 179B2:49
vs. calcium oxide/sodium oxide ratio, 148B3:26
vs. depth, 147B11:216; 29:485–486; 153B6:112;
10:225; 176B4:22; 6:33; 8:12–13, 28–30; 10:53;
179B(synthesis):92; 2:45
vs. forsterite, 153B17:338; 163B9:104; 176B10:54;
179B(synthesis):91; 2:49, 52; 209B1:28
vs. iron oxide, 176B10:35; 11:68
vs. magnesium number, 137/140B1:9; 3:39; 153B5:94;
11:251; 17:338; 176B8:18; 10:42; 179B(synthe-
sis):91; 2:46
vs. magnesium oxide, 148B34:428
vs. magnesium/(magnesium + iron) ratio of coexist-
ing clinopyroxenes, 147B2:53
vs. orthoclase, 127/128B(1)8:122; 179B2:35
vs. potassium oxide, 153B5:96; 179B(synthesis):89
vs. strontium, 153B17:347
X-ray diffraction data, 172B5:21; 209A10:80
zoning patterns, 106/109B11:130–132
- anorthite/(anorthite + albite) ratio
vs. strontium/aluminum ratio, 176A3:51, 174
vs. titanium oxide, 176A3:49, 167
- anorthoclase
ash fall layers, 157B14:202–205; 19:334
ignimbrites, 157B15:230–231
photomicrograph, 157B15:266; 16:289, 291
resorbition, 157B14:212
stratigraphy, 157B15:231, 234–235
- anorthosites
crystal clots, 140A2:59
deformation, 173A6:144
photograph, 173A6:130
photomicrograph, 173A6:137
pods, 173A6:127–129
veins, 173A6:141, 143
vs. magnesium oxide, 137/140B15:173
See also meta-anorthosite
- anoxia
bottom waters, 169S_A2:14
isotopic stratigraphy, 160B13:178–179
lithology, 161A4:62
organic carbon in sapropels, 160B20:257; 23:285–295
Paleocene/Eocene boundary, 199B23:4–5
provenance of trace elements, 160B16:202
sapropels, 160A2:21, 23–24; 160B3:33; 21:267–268,
274; 161A1:12
sediment fabric and composition, 160B49:659–660
Zanclean, 160B9:120
See also oceanic anoxic events; photic zone; redox
- anoxia Event 1, vertical profile, 167B24:275
- anoxic basins, geology, 160A10:337
- anoxic deposits
black shale, 207A10:12
deposition, 171B_A6:260, 262
diffusion, 205B6:10–11
Holocene, 178B7:10–14
lithology, 171B_A3:59; 4:116–118; 189A3:18;
191A4:15–16
mid-Cenomanian event, 207B1:6
organic-rich sediments, 162B15:215
- passive margins, 159A7:234
Quaternary, 165B7:125–140
sea ice, 178B25:9
sediments, 165B4:88–93, 98
sulfur isotopes, 159B13:127, 129–131
synthesis, 171B_A7:354–355
- anoxic reactions, remineralization, 155B30:503
- antarctic environment, clay mineralogy, 189A5:18–19
- Antarctic fauna, radiolarians, 183B10:3–6
- anteiso-alkanes
chromatograms, 208A3:22–23; 5:16
sediments, 208A4:21
- anteiso-branching pentadecanoic acids, 205B8:17
- Anthocerotaceae, sporomorphs, 183B3:7
- anthophyllite
porphyroclast cores, 118A6:137
high-temperature minerals, 176A3:35
- anticlines, lineaments, 160B54:759
- antiferromagnetic component/ferrimagnetic component
ratio, 150B19:353
- antigorite
chlorine, 195B6:7
fault gouge, 180A11:4; 180B3:3–4
formation temperature, 125B26:439
hydrothermal alteration, 209A5:12
lithology, 195A3:12–13
photograph, 153B3:46
serpentine deposits, 125B19:361
serpentinization, 153B3:39–42, 47–49
Site 778, 125B19:355
Site 779, 125B19:358
textures, 106/109A8:214; 106/109B9:105–106
Tyrrhenian Sea, 107B3:43
ultramafic rocks, 125B26:436
- antilocaprinids, Cretaceous–Paleogene, 144B50:887–
893
- antimony
altered rocks, 193B1:49
Cretaceous/Tertiary boundary, 119B40:724–725
hydrothermal sequences, 145B27:418, 421–422
jasperoids, 193B9:6
mineral separates, 158B2:33
Paleocene/Eocene boundary, 199B16:3
pore water, 193B4:4–5
postoxic conditions, 157B32:567
Site 795, 127/128B(1)41:711, 714
Site 798, 127/128B(2)86:1370–1371
Site 799, 127/128B(1)42:724–725
sulfides, 158B2:37, 39; 3:45
vs. depth, 158B4:54–55, 58, 60, 62
- AOM Zone. *See* anaerobic methane oxidation zone;
methane oxidation
- apatite
amphibolite clasts, 173A7:190–191
authigenesis, 178A8:13
basalts, 144A3:74; 144B29:497, 501; 191A4:29
basement/sediment contact, 161A6:215
breccia matrix, 173B1:3–5
cleavage traces, 113B1:14
composite sample, 129B7:171

- composition, 116B7:92; 129B7:171; 176A3:18;
 176B6:10; 9:56
 Costa Rica Rift, 111A3:58
 deep copper zone, 169A3:77
 diagenesis, 160B32:408; 175A8:214; 9:256
 dikelets, 153B11:247
 electron microprobe data, 113B1:7; 129B7:171
 Eocene, 151B33:583–591
 euhedral crystals, 129B7:171
 fission-track data, 129B7:169–176; 141B13:181–190;
 159B4:35–41; 5:43–48; 11:105; 161B21:297
 fluid inclusions, 118B9:201; 147A3:76–78;
 147B11:218–219; 153B22:404–405
 formation, 113B6:75
 fractionation, 183A7:41–42
 gabbros, 153B17:339, 341
 groundmass, 206A3:57–59
 hardgrounds, 144B22:421
 heavy minerals, 174A_B6:6, 9–11
 hydrothermal alteration, 145B27:417–424; 193B1:16
 iron-titanium oxide gabbro, 118A6:116
 jasperoids, 193B9:5
 Labrador Sea, 105B10:145, 148, 153
 lithology, 171B_A4:114; 6:258; 175A8:205; 15:460;
 183A1:31–32; 189A6:18; 209A7:4
 magmatic and metamorphic phases, 118B8:167;
 147B11:216
 major elements, 179B2:74
 meta-anorthosite, 173A6:131
 metatonalite clasts, 173A7:191
 mineral chemistry, 179B2:12
 Miocene, 133B34:502
 mylonites, 209A3:12
 needles, 129B17:306; 163X_A6:42
 olivine gabbros, 176B4:6–7
 Oman margin N, 117A12:388, 394
 Peru margin synthesis, 112B8:126
 petrography, 129B19:363; 147A3:62–63
 phase equilibria, 179B2:44
 photograph, 144B22:426–427; 44:764; 147A3:64;
 147B11:215; 153A3:89, 91; 5:184, 198, 201;
 153B3:45; 22:402, 406; 157B12:177
 photomicrograph, 129B1:27; 7:172–173; 174A_B7:56;
 179B2:33; 191A4:102; 206A3:210; 209A10:76
 pore water, 175A3:73; 4:101; 6:164; 7:189
 precipitation, 117A12:403–404
 primary origin, 118A6:117
 rare earths, 113B1:10; 147B3:62–63
 replacement, 206B7:3
 saturation, 118B4:99–100
 schists, 161B19:265
 secondary minerals, 137/140B15:176; 148B6:77;
 206B8:3, 16
 sediments, 129B1:8; 178A5:19; 192A6:104
 serpentinization, 153B3:39
 sill zoning, 210A3:67
 Site 732, 118A3:50
 Site 755, 121A9:238
 Site 765, 123A4:101; 123B8:180
 smectite, 123B4:108
 stratigraphy, 116B7:76
 Sulu Sea, 124A11:261
 tephra layers, 121B14:284
 textures, 113B1:13; 141B8:106
 thermal conductivity, 116B7:78–81
 tonalite gneiss, 173A6:131
 veins, 176B9:13
 vs. depth, 173B1:7, 11
 X-ray diffraction data, 159A6:170; 201A9:10, 36
See also fluorapatite, francolite
 apatite gabbros. *See* gabbros, apatite
 apertures, vertical, well-logging, 127/128B(1)23:396–397
 aphanitic texture. *See* textures, aphanitic
 aphyric basalt. *See* basalts, aphyric
 aphyric texture. *See* textures, aphyric
 apolar fraction
 gas chromatograms, 160B23:290
 lipids, 160B23:287, 294–295
 apophyllite
 alteration, 157B12:150; 26:436
 Raman spectra, 157B26:434
 apophysis
 lower sill complex, 210A3:69
 photograph, 165A6:327; 193A4:91
 apparent age, thorium/uranium isotopes, 169B4:1–15
 apparent oxygen utilization, organic carbon,
 138B42:831, 833
 apparent polar wander path (APWP)
 African plate, 115B11:115
 aragonite, 120B(2)59:1065
 Cretaceous, 143B27:413
 Indian plate, 115B15:115
 Kerguelen Plateau central, 120A8:258–259;
 120B(1)7:94–95
 Lower Cretaceous, 192B5:8
 Ninetyeast Ridge, 121B39:782
 paleolatitude, 143B26:401–403
 See also polar wandering; true polar wander
 aprons
 geochronology, 157B19:329–341
 volcanism, 157A2:16–17, 19–22; 157B9:97–114;
 17:293–294; 27:443–469
 See also volcanism
 aprons, clastic, drilling, 157A2:11–25
 aprons, volcanic
 drilling, 157A2:11–12; 157B27:447–451, 453
 evolution, 157B12:141–181
 Formation MicroScanner imagery, 157B4:39–46
 seismic reflection, 157B1:3–9; 2:11–27
 Aptian
 age vs. depth, 198A10:23
 basal limestone, 192A3:13
 basalts, 130B1:19–20
 basement, 192A1:27; 3:23–24; 6:14
 biostratigraphy, 130B5:68–70; 7:95–96; 143A7:209–
 213; 143B32:547–548; 144B10:199–219;
 149B2:29–34; 8:204–205; 159B35:489;
 171B_A3:59–69; 171B_B3:1–12; 174AXS_A1:36;
 4:29; 185B6:4; 198A3:20, 24; 9:23; 198B7:9;
 210A3:81, 86; 210B13:6–8
 carbonate compensation depth, 192A3:16
 chalk, 160B32:406

- deformation, 159B4:35–41
deposition, 144B17:337–359; 18:361–380
dolomite, 143B11:161–169
eruptions, 192A1:29–30
geology, 188A1:8–9
heating, 159B5:46
laminations, 192A3:13–14
limestone, 130B5:76; 192A1:30
lithology, 143A7:195–197, 199; 144A10:339–345,
349–351, 353; 11:418–422; 149A4:59–62;
6:158–175; 171B_A3:55, 59; 174AXS_A1:28–29;
4:24–28; 192A1:13; 3:9–12; 7:3–4; 198A9:11;
210A1:15; 3:46–50, 61–63
mud breccia, 160A1:12–14
Neotethys, 160B54:726
oceanic anoxic event, 171B_B(introduction):2–3
oceanic plateaus, 130B48:791–795
oolites, 143B8:112–113
ooze, 171B_A1:5–6
organic-rich sediments, 198A3:30–32
organic carbon, 198A3:129
paleobathymetry, 171B_A1:6
paleoenvironment, 192A3:24–25; 6:14–15
paleolatitude, 143B25:397
paleomagnetism, 130B4:51–59
photograph, 192A3:64–66; 7:22–23
quartz-feldspar-lithic fragments system, 210B2:25
quartz-potassium feldspar-plagioclase system,
210B2:29
reduction, 198A9:16
rifting, 149B1:11; 39:627
sedimentary instability, 159B10:95
sedimentation, 159B11:108–109; 192A7:4–5
sediments, 173A1:11–12
seismic units, 149B39:625; 45:693
sequence stratigraphy, 143B10:148–150
serpentinite breccia, 149B36:584
stratigraphy, 143B6:103; 174AXS_A4:41
synrift sedimentation, 210B1:26–27
unconformities, 198A9:25
zoning, 160B30:384
See also Barremian/Aptian boundary; Clansayesian;
Gargasian
- Aptian, lower
aliphatic hydrocarbons, 198A3:91–92
basement, 192A6:9
biostratigraphy, 198B1:27; 7:9
black shale, 198A3:42–43; 9:33
hydrocarbons, 198A9:27
hydrogen index vs. oxygen index, 198A3:90; 9:26–27,
77
lithology, 198A3:14
magmatism, 192B1:4
oceanic anoxic events, 198A1:21–22, 54, 64–66, 128;
3:5–7; 198B1:5–6; 16:1–31
organic carbon, 198A9:3–4
organic matter, 149B13:295–299; 198A1:62–63
photograph, 192A6:58; 198A3:71; 9:43–45; 10:19;
198B1:37
photomicrograph, 192A6:60–61
sedimentation, 192A6:9–10
strontium isotopes, 192B3:3
Aptian, lower–middle, oceanic anoxic events, 192A3:14
Aptian, middle
biostratigraphy, 192A3:21–25; 6:13
See also Gargasian
Aptian, upper
biostratigraphy, 129B8:180; 9:193–194; 11:221;
12:229; 192A5:11; 198B7:9–10; 210A3:80
clay, 192A3:12
hiatuses, 160B40:522
lithology, 129A2:40–44; 129B14:268; 173A9:272–273;
192A1:18–21, 24–26; 210A3:39–57, 61–63
paleomagnetism, 129B23:435; 192A5:21, 119
Pigafetta Basin, 129A4:186–187; 129B5:148
rifting phases, 210B1:11–14
sedimentation, 173A9:293; 210A3:90
Site 585, 129B31:555
Site 800, 129A2:33; 129B2:32
Site 802, 129B31:557
strontium isotopes, 192B3:6
unconformities, 192A6:12
- Aptian/Albian boundary
biostratigraphy, 192A6:13
claystone, 192A3:13–14
Galicia margin W, 103A1:3; 9:272; 12:573
hiatuses, 143B21:351
lithology, 171B_A3:59
magnetostratigraphy, 171B_B9:6–7
oceanic anoxic events, 192A3:14
paleobiogeography, 144B50:887–888
sedimentation, 192A6:10
Site 765, 123A4:85; 123B38:727, 730
Site 766, 123B38:733
Sites 1276 and 398 comparison, 210A1:27
strontium isotopes, 144B25:452–453, 455
subcontinental mantle lithosphere, 210B1:13
total organic carbon, 123B11:218
- Aptian–Albian interval
bedded chert-chalk sequence, 132A1:13
Formation MicroScanner imagery, 192A6:56, 89
lithology, 192A3:10–11; 6:6–8
normal polarity, 129B23:434
oceanic anoxic events, 192A3:14
paleoclimatology, 192B2:3
paleoenvironment, 130B5:73–74
photograph, 192A3:63; 6:52, 55, 57
photomicrograph, 192A3:67, 69
sedimentation rates, 198A10:12–13
splice makeup, 171B_A3:78
well-logging, 192A6:27
- Aptian–Cenomanian interval, Pigafetta Basin,
129A8:185–186, 188; 129B9:190–192
- Aptian–Coniacian interval, Pigafetta Basin, 129A4:185
- Aptian–Eocene interval, magnetostratigraphy,
171B_B9:1–58
- Aptian–Maastrichtian interval, carbonate compensation
depth, 192A3:14–16
- Aptian–Santonian interval, magnetostratigraphy,
207B3:14
- Aptian event, synrift sedimentation, 210B1:26–27

- aquifers
brines, 207A4:26–27; 6:32; 8:28–29
chemistry, 150X_B25:344–354
coastal plains, 174AXS_A(summary):1–38
correlation, 174AXS_A5:63
hydrostratigraphy, 174AXS_A7:56
lithology, 150X_A1:22; 174AXS_A4:15–28; 5:19–42, 51–52
lower Miocene, 150X_B24:318–320
overpressure, 174A_A3:74
resources, 174AXS_A(summary):14–15
sand, 174AX_A1:42
- Aquitanian
biostratigraphy, 151B14:261–262; 189B5:40
deposition, 160B33:433–434
extensional basins, 161A1:9
sediments, 161B5:71–73
thermal history, 161B21:296
See also Chattian/Aquitanian boundary
- Ar-40/Ar-39. *See* argon isotopes
- Ar/Ar age. *See* age; argon isotopes; radiometric ages
- aragonite
alteration, 135A(1)9:444; 168A4:74; 168B10:123, 126, 129
authigenic carbonates, 164B29:287–289
bank-derived variations, 115B29:540, 558, 562–565
bathyal environment, 194A8:9
biogenic component, 189B11:3
black shale, 207A4:26
bladed habit, 106/109A7:169
bulk sediments, 165B17:255
burial diagenesis, 115B35:657
calcite replacement, 103B8:109
carbonates, 101B16:221; 115A11:848; 115B29:560–562; 133B2:29
causes of fluctuation, 101B15:219
cements, 144B24:440–443
chimney structures, 125B19:355
color reflectance, 166A9:242
composition, 148B10:124
Conical Seamount, 125A12:281
cycles, 115A11:849; 133B17:242–246; 166B6:66–68
decline, 101B29:462
deformation, 147B14:264
deposition, 166A2:14–18; 3:33–34; 166B16:170–171
diagenesis, 166B3:24–30; 17:191
dissolution, 101B17:250; 115B30:582; 133B16:206–207; 36:528–532; 166A7:168; 11:365; 180A9:40
electron microprobe data, 168B11:141–142
Exuma Sound, 101A9:344–345, 352; 10:396, 400–401; 11:444, 448, 452
ferrobasalts, 200B3:5
fine vs. total sediment, 115B29:551
fluid inclusions, 148A3:148
fluid upflow, 125B36:602
genesis, 209A5:20
geochemistry, 195B6:6–7
geothermometry, 168B11:145
intermediate water masses, 101B16:222
laser-ablation inductively-coupled plasma–mass spectrometry data, 168B11:145
lithology, 133A(1)10:351; 17:776; 155A17:507; 164A5:75; 8:246–247, 249; 165A5:238, 241, 247, 260; 165B4:87; 172A4:84, 91; 5:172–174; 180A7:9–10; 9:8; 12:19; 180B6:5, 7, 11; 183A5:5–6; 195A3:13–14
Little Bahama Bank, 101A6:131, 138–140; 7:217, 226–228; 8:273–276, 279, 283–286
low-temperature minerals, 176A3:38
magnesian calcite, 115B29:551, 557
Mariana forearc seamounts, 125A4:71
mass accumulation rates, 165B17:261–262
microfacies, 133B21:292–299
mineralogy, 166A9:255
mud, 195A3:18–20
Nazareth Bank, 115A4:145–146
Northeast Providence Channel, 101A16:535–536
Northwest Providence Channel, 101A12:498
oxygen isotopes, 101B15:215–216; 16:237–244; 115B29:540, 551–558, 564–565; 166B2:14–21
percentage, 133B16:209–210; 31:477; 166B13:141; 194A8:80; 9:71
periplatform ooze, 115B29:539–541; 35:648–649; 133A(1)4:116
petrography, 168B10:119–148
photograph, 147A4:137; 153A3:70
photomicrograph, 159A6:171; 160B33:424–425; 164A8:255; 164B29:290; 168A5:138; 168B11:147–148; 187A6:28; 187B5:19; 206A3:205
Pleistocene cyclicity, 115A1:13–14; 115B29:539–541
Pliocene, 101B16:234–235
pore water, 119B19:390; 166A10:316; 182A1:21
precipitation, 115B9:99; 125B21:376–377
preservation, 115B30:582, 584, 587; 166A3:39
pseudomorphs, 149B34:560–561
pteropod ratios, 101B16:225, 234
Quaternary, 101B16:233–234
recrystallization, 101B24:372; 115B35:656; 133B31:478–479
reduction, 168B10:133
saturation, 133B16:207; 165A8:383
scanning electron microscopy, 164B29:291
secondary minerals, 148A2:56; 3:141; 148B11:153–154
sedimentation, 166A9:267
sediments, 133A(1)7:217–218; 10:379; 12:477; 13:526; 14:583; 15:635; 134B6:93; 135B53:843–855; 166A6:95; 7:164; 8:192; 10:317–319; 166B14:147–151; 182A1:41; 4:32; 5:21; 7:21; 8:25; 9:19–20; 12:21; 182B7:3–4; 10:1–14; 13:7; 194A4:110–111; 5:101; 6:88; 7:139, 146
seismic stratigraphy, 166A10:328; 166B5:46–47
serpentinized sediments, 125A8:152; 125B18:332–333, 340; 19:347; 23:399; 36:603; 153B3:42; 195A1:13
shallow-water carbonates, 101B20:279
Site 708, 115A6:406, 416
Site 714, 115A11:859; 115B29:546
Site 716, 115A13:1005–1006; 115B29:544–546
Site 734, 118A5:87
Site 765, 123A4:78, 82–83, 87, 100

- Site 778, 125A6:101; 125B19:344; 25:416, 418–419
 Site 779, 125A7:119
 Site 784, 125A12:281
 stable isotopes, 125A2:12; 4:75; 144B48:859
 stratigraphy, 101B15:214–215
 strontium, 115A11:857
 strontium/calcium ratio, 115B9:98
 strontium isotopes, 115B34:635; 119B41:741, 745;
 144B25:454–455
 strontium/magnesium ratio, 115B9:97
 supercycles, 115B29:562–565
 time variations, 133B17:245–246
 trace elements, 182B16:5–6
 ultramafic rocks, 125B26:437
 uranium/thorium dating, 166B6:64–65
 veins, 153A3:86; 200A4:40; 206A3:72; 206B10:1–6;
 209A9:68
 volcanic rocks, 141B28:355
 vs. age, 133B16:212; 189B11:9–12
 vs. clay matrix, 101B22:324
 vs. depth, 133A(1)9:319; 15:626–627; 164A8:255;
 165A5:240, 259; 166A8:194; 9:242, 263; 10:298,
 320; 11:354; 166B2:16–17; 6:65–66, 68; 13:141;
 14:151; 182A4:68; 5:49; 7:51; 8:55; 9:45; 10:57;
 182B7:7–8, 9–12; 8:11–12; 9:15; 10:6, 9; 11:8;
 183A8:70; 194A6:50; 8:54; 9:45; 195A3:76–78
 vs. oxygen isotopes, 101B16:229–233
 vs. strontium, 125B18:336; 23:398–399
 worldwide correlations, 101B16:235
 X-ray diffraction data, 133A(1)5:157; 14:584–585;
 160B33:428, 474; 194A6:14; 8:18; 9:17;
 200A4:38, 117; 209A7:63
See also carbonate compensation depth; carbonate
 content; carbonate dissolution
 aragonite, acicular, vesicles, 135A(1)6:277, 282
 aragonite, biogenic, pore water, 180A9:41
 aragonite, botryoidal, Miocene, 133B34:500
 aragonite, fibrous, textures, 168B11:139
 aragonite/calcite ratio
 sea level changes, 115B36:667, 671
 strontium, 115B36:669
 aragonite compensation depth
 meteoric diagenesis, 144B48:865, 869
 sea level changes, 124B29:387–389
 Site 714, 115A11:848
 Site 716, 115A13:1005–1006
 Site 778, 125B19:344
 X-ray diffraction data, 194A8:18
 aragonite dissolution, vs. depth, 168B8:98–102
 aragonite laths, photomicrograph, 195A3:74
 aragonite needles
 lithology, 166A6:77–78; 7:154–156; 8:177, 179–180;
 9:238–241; 11:353–355
 vs. depth, 166A6:80; 7:157; 8:177; 11:351, 354
See also “mikado-like” aragonite needles
 aragonite shells, photograph, 171B_A6:259
 Araucariaceae
 Cretaceous, 183B3:10–11
 palynomorphs, 133B9:109, 113; 10:116, 119;
 188B3:9, 11
 Site 820, 133B9:109, 113
 Sites 815, 820, and 823, 133B9:109, 113; 10:116, 119
 araucariacean affinity, pollen, 183B3:8
 arc basalts. *See* basalts, arc
 arc/continent collision, paleoceanography, 195B3:2–3
 arc structures, lineaments, 160B54:759
 arc volcanism. *See* volcanism, arc
 Archaea
 DNA products, 148B14:211
 hydrothermal vents, 201B2:5
 lipids, 207B1:9; 12:4–5
 microorganisms, 168B14:172
 oligonucleotide probe hybridization, 148B14:209
 phylogeny, 201B3:15
 sediments, 175B10:11; 205B8:6–11
See also bacteria; chain reactions; Crenarchaea; Deep-
 Sea Archaeal Group; DNA; microbial activity;
 microorganisms; Miscellaneous Crenarchaeotal
 Group
 Archaea, pelagic, concentration, 175B10:30
 Archaea, subsurface, lineages, 201B2:4–6, 17–18
 Archaea Marine Benthic Group A, D, and I, 201B2:4–5
 Archaean
 basement, 163X_A8:6
 ophiolites and tonalitic-trondhjemitic intrusions,
 125B13:258
 Archaeomonadaceae
 abundance, 114B33:618, 621, 624, 641–646
 Site 698, 114A5:105
 vs. depth, 144B3:64
 Archie parameters
 formation factor logs, 133A(1)13:552
 physical properties, 204B8:4–5
 porosity, 133B45:662–663; 148B23:320
 Site 815, 133A(1)8:288
 Site 817, 133A(1)10:397
 well-logging, 133A(1)5:168; 7:235; 12:496;
 164B19:187–189
 Archie's cementation exponent, vs. depth, 147A3:103
 Arenicolites
 lithology, 161A5:118
 photograph, 161A5:120
 arenite
 chemical composition, 107B12:172–176, 182
 De Marchi Seamount, 107B2:35
 lithology, 207A6:8
 photograph, 173A8:230, 240
 photomicrograph, 180B8:43
 Site 652, 107B1:21
 Site 699, 114A6:156, 159, 193
 sources, 107B12:176
See also gypsarenite; litharenite; meta-arenite; quartz
 arenite; sandstone
 arenite, feldspathic, Site 799, 127/128B(1)7:105
 arenite, glauconitic quartz, lithology, 174A_A4:111
 arenite, lithic
 lithology, 173A4:75
 petrography, 195A4:14–16
 photomicrograph, 173A4:78; 195A4:85
 tectonic genesis, 195A4:87
 arenite, polygenic, photomicrograph, 180B8:41, 43

- argillite
 Paleozoic, 103A9:223
 petrography, 161B3:39
 See also lonestone
- argon
 loss, 180B1:5
 organic matter, 201B1:6
 pore water, 141B26:326
 time-pressure-volume plots, 164A8:265
- argon/argon age. *See* argon-argon age; radiometric ages
- argon-argon age
 apparent age vs. potassium alteration, 180B2:28
 basement, 183A1:5–8; 183B1:4, 11, 25
 chronology, 183B7:7
 diabases, 180B1:5–7
 hotspots, 183B1:38
 incremental heating ages, 180B1:18
 isochrons, 183B9:40
 plagioclase, 180B(synthesis):5:2:5, 20–23, 29–32
 potassium feldspar, 180B2:25–26
 rhyolite clasts, 180B2:9–10
 tephrachronology, 183B9:8–9, 47
- argon isotopes
 age dating, 143B17:279; 145B22:340, 342;
 152B40:486; 41:510; 161B21:300–305;
 165B9:151; 185A3:67; 192B1:4–5
 anorthoclase phenocrysts, 157B11:132–133, 138
 Argo Abyssal Plain, 123B30:558
 argon-36/argon-40 ratio vs. argon-39/argon-40 ratio,
 157B19:335–338
 argon-39/argon-40 ratio vs. argon-36/argon-40 ratio,
 130B1:7; 157B19:335–338
 basalts, 115B4:46–47; 121B26:509–516; 39:799;
 144B32:550–556; 145B22:333–344; 163X_A8:6;
 165B15:233–236
 basement, 115B4:43–50; 127/128B(2)50:822–833
 correlation diagrams, 152B8:111; 32:391–393, 396–
 397, 399–400
 cumulate gabbros, 149B27:474–475, 484–485
 feldspars, 116B8:93–108; 165B20:306
 geochronology, 149B28:489–495; 157B11:127–129;
 15:329–341; 163X_A1:14
 Gortani Ridge, 107B6:95
 lava, 152B32:387–402
 Mascarene Plateau, 115B4:48
 metagabbro, 149B47:721
 milligram-sized fractions, 178B22:24
 multigrain fractions, 178B22:25–26
 muscovite, 116B8:93–97, 103, 109–111; 210B4:1–13
 Nazareth Bank, 115B4:48
 plagioclase phenocrysts, 157B11:131
 radiometric age, 129B20:389–404; 130B1:4–7, 19–20;
 136B10:119–132; 191B1:6
 Réunion hotspot track, 115B4:46
 sediments, 178B(synthesis):9
 Seychelles dikes, 115B12:120–121
 sills, 198B1:4
 single-crystal vs. bulk sediment, 116B8:113–114
 Site 713, 115B4:48
 Site 715, 115B4:48
 tephra, 152B8:105, 107
- tholeiites, 151B19:351–365
 Tyrrhenian Sea, 107B6:95–96
 volcanic ash, 185B13:1–20; 191B1:5
 volcanic clasts, 178B22:1–26
 volcanic glass, 161B12:147–148
 volcanic history, 163B6:53–62
 volcanic pebbles, 161B44:574
 volcanic rocks, 141B35:421–426; 161B27:357–373
 volcanism, 165B20:299–314; 197B1:13–14
 vs. calcium/potassium ratio, 152B8:109
 vs. potassium, 152B8:109
See also age release; argon-potassium dating; calcium/
 potassium ratio; geochronology
- argon-potassium dating, volcanic arcs, 124B23:321, 323–
 325
- aridification
 lithology, 184A9:11
 nanofossil clay, 184B14:2–3
- aridity
 continental climate, 145B14:228–229
 global ice volume, 117B21:371
 ice sheets, 117B22:396–397
 mass accumulation rates, 117B21:386
 Quaternary, 161B36:465–466
 terrigenous flux, 117B24:435
 vs. age, 175B23:29
 wind intensity, 121A1:20
- aridity, continental, wind transport, 130B28:483–484
- aridity signal, well logs, 128A4:188–192
- Arkhangelskiellaceae, photomicrograph, 198B7:76–77
- arkose
 lithologic motifs, 173A7:173–174
 See also meta-arkose; sandstone; subarkose
- ARM. *See* anhysteretic remanent magnetization
- aromatic compounds
 chimney structures, 125B21:376
 Site 799, 127/128B(1)35:627
 yield, 180B16:19
 See also methylphenanthrenes
- aromaticity, vs. vitrinite reflectance, 139B27:492
- arsenic
 alteration, 147B26:450; 169A3:39; 193B1:49
 clay geochemistry, 184B12:10
 Cretaceous/Tertiary boundary, 119B39:724–725
 diagenesis, 167B23:265–266
 element correlations, 158B27:378–381, 384
 galena, 193B3:3
 hydrothermal sediments, 145B27:418, 421–422;
 199B15:3
 jasperoids, 193B9:6
 mineral separates, 158B2:33, 37, 39; 25:349; 27:370–
 376; 28:395
 Paleocene/Eocene boundary, 199B16:3
 postoxic conditions, 157B32:569; 38:631
 pyrite, 193B3:3
 sediments, 167B23:264
 serpentine mud, 195B1:8; 4:8
 Site 794, 127/128B(2)85:1362
 Site 795, 127/128B(1)41:711, 714; (2)85:1365
 Site 797, 127/128B(2)85:1366
 Site 798, 127/128B(2)86:1368–1369

- Site 799, 127/128B(1)42:724
sulfides, 135B40:660; 158B3:44
vs. depth, 139B11:229–250; 17:359–367; 147B26:449;
158B4:54–55, 58, 60, 62; 27:374–376;
160B16:201; 164B15:159; 199B15:3; 16:6
- arsenic/aluminum ratio
lithology, 207B8:25
vs. age, 184B12:24
vs. depth, 157B32:569
- arsenic/tin ratio, vs. cesium/sodium ratio, 154B31:470
- Artemisia, vs. depth, 167B17:220–222
- arthropods
abundance, 144B6:131; 9:179, 181–183, 185
lithology, 194A3:5; 6:3
- artinite, Site 778, 125B19:355
- artostrobids, percentage in Zone RP15, 199B24:19
- asbolane, nickel, photograph, 144B44:768
- asbolane-buserite assemblage
ferromanganese crusts, 144B44:751
hardgrounds, 144B22:421–422
photograph, 144B44:766
- ascidians. *See* Pyuridae
- Ascomycete, funginite, 180B10:7
- aseismic ridges, subsidence curve, 119A7:280, 282
- ash. *See* volcanic ash
- ash fall deposits
basement, 183A6:24–25, 36–37
photograph, 183A6:93–95
summary, 183A7:195
- aspartic acid
decomposition, 126B35:538
pore water, 201B12:3, 7
racemization, 174AXS_A7:27–29
ranges, 201B12:6
- aspect ratios
a'a flows, 163B3:31–32
spectra vs. concentration, 163B3:33
vs. porosity, 163B3:32
- asphalt
hydrocarbon fraction, 107A10:778
Sardinian margin, 107A9:754
Straits of Florida, 101A5:57, 66–67
- asphaltenes
chromatographs, 180B16:5–6
spropels, 160B22:274
sediments, 151B23:409
yield, 180B16:19
- ASR. *See* anelastic strain recovery
- Asseni-Verbeeki Zones, radiolarians, 185B6:4
- assimilation, altered oceanic crust, 137/140B4:43–51
- Asteraceae
pollen, 133B9:109
Site 658, 108B6:96
Site 820, 133B9:109
- asteroid isochela, Site 748, 120B(2)43:837
- asteroids
impacts, 178A2:17–18
melting, 192B1:9
- asteroliths
biostratigraphy, 138B9:166, 173
mass accumulation rates, 138B9:172–173
- Miocene, 138B9:168–169
- asthenosphere
deformation, 147B20:366
depletion, 183A1:9
dynamic riftting models, 149B40:644–645
evolution, 180A3:4–5
geochemistry, 135B28:509
injection, 127/128B(2)57:903
melts, 125B28:500
replacement, 135B24:399–406
seismicity, 161B27:371
See also mantle
- astrochronologic age models
Site 925, 154B1:6; 2:19
See also astronomical timescale; geochronology; timescales
- astronomical calibration
lower Pleistocene, 160B15:191–197
stratigraphy, 145B19:283–292
timescales, 138B6:88–89; 154B2:70–71; 29:302–304;
23:352
See also obliquity; precession
- astronomical forcing, 184B11:8
- astronomical timescale
cyclostratigraphy, 198B1:18; 22:5; 208B1:6–7
Neogene, 208A1:10–11
obliquity, 198B22:21–26
See also eccentricity; orbital cycles; orbital rhythms; precession
- Astrorhizida
Australian distribution, 123B14:278, 283
Site 766, 123B14:272
- atacamite
halos, 145B25:391–395
hydrothermal fields, 158A1:8
- Ataxophragmiidae, absence in Australian fauna, 123B14:284
- Athy's law, porosity and lithology automatic association with laboratory measurements, 210B7:4
- Atlantic-Tethys oceanic anoxic Event 1b, 171B_B9:6–7
- atmosphere, carbon dioxide, 177B(synthesis):12
- atmospheric circulation
Atlantic Ocean E, 108A(1)2:34
Cenozoic, 138B28:615–625
climate models, 199A3:5–6
evolution, 184A1:4–7, 45
patterns, 161B37:476
polar-to-equator temperature gradient, 121A8:211
sea-surface productivity, 121A1:20
shifts, 145B21:322
tephra transport, 165B5:105–110
vegetation zones, 159B41:558–559
volcanic ash, 132B5:57–66
- atmospheric composition, glaciation, 145B21:316–317
- atmospheric precipitation
Quaternary, 146B(2)11:160–161
See also rainfall
- atmospheric pressure, modern, 167B32:344
- atolls
carbonate buildup, 144B16:311–335
Cretaceous, 143A2:18

- Darwinian theory of development, 143A2:29
deposition, 144B18:361–380
drill hole data, 143A2:16
drowning, 143A1:7–8; 144B32:554
geology, 143A10:375–376
geomorphology, 143B13:223; 144B14:274
Lau Basin, 135A(1)4:91
models, 144B51:910–911
origin, 144A1:3; 144B53:936–937
physiography, 144B33:561–583
stratigraphy, 143B5:89–97
See also carbonate platforms; guyots; reefs; seamounts
- attapulgitite. *See* palygorskite
- attenuation
compressional wave velocity, 164B27:265–271
data summary, 176B5:42–69
oceanic crust, 176B5:14–15
seismic waves, 176B5:8–9
statistical analysis, 176B5:70
velocity, 176B2:3–4, 15–17
vs. depth, 176B5:31
waveforms, 176B5:40
See also linear attenuation coefficient; Q-factor
- attenuation, tidal signal, fluid flow, 146B(1)19:308–309
- attenuation, ultrasonic
alteration/deformation, 118B13:256
errors in measurement, 118B13:254–255
experimental setup, 118B13:253–257
pressure effect, 118B13:255–256
vs. velocity, 118B13:258–259
- attenuation coefficients
computed tomography, 131B7:89; 10:136–140
vs. density, 131B7:90
- Atterberg limits
Argo Abyssal Plain, 123B25:494–495
Prydz Bay, 119B8:150–152
sediments, 160B48:633, 638; 204B12:6, 71
Sites 798 and 799, 127/128B(2)71:1124, 1126
stress, 131B21:265
- augen
deformation, 209A6:20
photomicrograph, 209A5:113; 6:86
- augen, plagioclase, photograph, 173A6:128
- augen, pyroxenes, with plagioclase, 118B26:461
- augen gneiss
deformation, 161A6:220
lithology, 173A6:126
metamorphic rocks, 161A6:230
photomicrograph, 161A6:247
tonalite gneiss, 173A6:131, 141
- augen tails, fabrics, 153B8:148–149
- augite
anhydrous pressure, 127/128B(2)54:871
augite-liquid relations, 127/128B(2)54:870–872
basalts, 195B8:6; 206A1:29; 3:57; 206B5:6
basement phenocrysts, 123A8:189
boninite, 125B10:178–179
bronzite andesites, 125B10:180
Cagayan Ridge, 124A12:313–314; 14:402–433
chromium and titanium vs. magnesium/(magnesium + iron) ratio, 127/128B(2)53:867
clay alteration, 127/128B(2)55:885
composition, 106/109B2:13; 127/128B(2)52:851–853; 53:867–868; 163X_A8:23; 179B2:53–55
cooling rate, 127/128B(2)52:852; 54:870–871
crystallization, 106/109B2:14; 127/128B(2)54:870–872
diabases, 137/140B1:3–9; 180B3:7
diopside-enstatite-ferrosilite-hedenbergite system, 163X_A8:24
exsolution, 176A3:20
formation temperature, 137/140B15:177–178
gabbros, 176B10:11–12; 179B(synthesis):22–23; 2:14–16; 205A4:27–28
grain size, 176A3:16–17, 114; 206A3:61–63, 187; 206B5:9–10
groundmass, 206A3:57–59
host magma, 115B3:38
hypersthene-normative composition, 127/128B(2)53:864
igneous rocks, 176A1:11
iron/magnesium ratio in olivine vs. iron/magnesium ratio in coexisting liquid, 127/128B(2)53:866
lithology, 170A3:60; 4:108; 172A4:88; 176A3:16–17; 176B6:9; 180A6:35; 180B6:9–11; 183A1:28
magnesium, 115B3:37
magnesium/(magnesium + iron) ratio, 127/128B(2)52:855
magnesium number, 115B3:34, 40
megacrysts, 115B3:39
melting, 127/128B(2)53:861–862
metamorphic minerals, 153B31:536
mineral chemistry, 129B17:308; 134B18:366–367
minor elements, 127/128B(2)52:854
modal data, 135B24:386–389
natural vs. experimental augite, 127/128B(2)54:870–871, 878–879
Nazareth Bank, 115A4:147
oxygen isotopes, 118B9:206
parent magma, 127/128B(2)52:854, 856
peak intensities, 155A9:212; 10:255
percentage vs. depth, 148A3:138
phase equilibria, 163B9:103
phenocrysts, 115B3:27–28; 140A2:54–55; 163A3:27–28; 5:57; 163X_A4:13, 24
photograph, 153B9:158, 160; 170A3:60
photomicrograph, 157A7:357; 8:416; 176A3:116; 179B2:29; 180A6:126; 10:32; 206A3:220; 210A3:247, 250
pressure affecting composition, 106/109B2:10–11, 13
reaction textures, 176A3:21
recrystallization, 153B9:158–159
relative abundance, 176A3:103–104
scanning, 176A3:125
secondary minerals, 148B34:428
sediments, 136B5:66–68; 155A6:104; 7:137; 8:185
Site 786, 125B10:172
Site 794, 127/128B(2)52:851–852
Site 795, 127/128B(2)52:852
Site 797, 127/128B(2)52:852–853
sodium, 127/128B(2)52:858
titanium, 127/128B(2)52:855–856

- velocity and orientation, 118B11:236
volcanic basement, 163X_A8:8
volcanic rocks, 141B28:351
volcaniclastics, 126B10:160; 157A8:414–415;
180B8:8–9
vs. anorthite, 179B2:49
vs. depth, 136B5:68; 155A12:343; 179B2:47–48
zoning, 163A4:38
See also ferro-augite; iron/magnesium ratio; magnesio-
augite; titanaugite
augite, chromian, phenocrysts, 140A2:54–55
augite, granular, photomicrograph, 206A3:183
augite, sodic, Costa Rica Rift, 111B6:67
augite, titaniferous, Nazareth Bank, 115B6:63
augite microphenocrysts. *See* microphenocrysts, augite
augite phenocrysts. *See* phenocrysts, augite
augite/plagioclase ratio, vs. calcium oxide/aluminum ox-
ide ratio, 176A3:21, 119
Austral Conifer Woodland, palynomorphs, 188B3:12
Austral Faunal Province, foraminifers, 183B2:1–28
Austral Paleobiogeographical Zone (PBZ), 198B5:9–11
authigenesis
accretionary prisms, 156A1:4
alteration, 144B28:478–480, 484–487; 169A3:82;
169B10:15
apatite, 178A8:13
black shale, 207A5:28
carbon/nitrogen/phosphorus ratios, 155B31:515
carbonates, 146B(1)6:117–136; 15:265; 151B24:425–
429; 164B29:285–311; 178A5:19–20; 204A4:66
celestite, 154B34:495–498
clay, 144B26:466; 169B6:7; 180A9:40; 190/196B6:11–
12; 198A1:55–56
décollement zone, 190/196B1:6
diagenesis, 172A4:125–126
dolomite, 133B35:518–520; 175B15:6–7
formation, 160B29:368–370
geochemistry, 171B_A6:287; 180A12:39; 200A3:31
glaucinite, 146A(1)5:151
iron-rich crusts, 155B13:245–247
lithofacies, 175A16:487–504
lithology, 164A5:78–79, 96; 177A5:7; 183A4:12;
184A5:7–9; 201A8:12–13; 210A3:24
magnetite, 130B31:534
magnetostratigraphy, 162A8:270
mineralization, 201B1:25–26; 202A1:24–25
New Jersey continental margin, 174A_B(synopsis):9
oceanic anoxic events, 198B16:6
oxidation, 172B2:4–6
paleoenvironment, 159A6:175–176
palygorskite, 159B11:106; 15:148–150
phosphorus, 154B32:479; 167B13:195–202; 202B8:1–
19
photomicrograph, 164A5:75; 210B2:24
pore water, 131B34:423–425; 145A3:53; 167B32:343;
172A3:63; 175A3:72–74; 4:100–102; 6:164;
199A10:17; 202A12:16
precipitation, 172A5:225–226, 228
remanent magnetization, 155B14:252
sediments, 131B28:353, 355; 150X_B4:53–54;
159A9:311; 164A7:190; 167A(1)5:105; 15:447;
172A6:286–288; 205A4:24; 6:10
siderite, 184B13:5–6
silica, 198B16:4–5
smectite, 136B5:69–70
stable isotopes, 144B48:859
thaumasite veins, 129B4:131
volcanic ash, 131B14:175–183; 185A4:28–29
zeolites, 134B8:112, 114–116, 119–120
See also alteration; diagenesis; dissolution
authigenesis, hydrothermal, sediments, 129B1:8
authigenic carbonates. *See* carbonates, authigenic
authigenic component, lithology, 175A3:56; 4:91; 5:119;
8:205; 12:351–352
authigenic minerals
biostratigraphy, 155A7:132
carbonates, 186B12:1–6
clay, 145A7:307
concretions, 139B9:140–142
décollement zone, 170B3:11
diagenesis, 139B7:109–110
geochemistry, 156B13:171–182
hydrothermal alteration, 139B12:295–298
lithofacies, 144B51:900
lithology, 171B_A6:257–258; 195A3:13–14; 4:11–12
magnetite, 150B19:356–357
metasandstone, 133B37:536
origin, 133B36:532–533
paragenetic sequence, 124B13:192
phosphorus, 138B36:760–761
photograph, 134B9:172–173
photomicrograph, 195A4:92, 104–109
sediments, 135B6:92
sequence stratigraphy, 133B25:363
serpentinites, 149B31:531–532
volcaniclastics, 134B9:134–144
X-ray diffraction data, 156A3:29–37
See also secondary minerals
autobrecciation
basement, 183A9:21; 183B14:3–8; 197A5:10
lithology, 193A3:124
photomicrograph, 131A6:195
Site 765, 123A4:176
autocyclic processes, deposition, 178B25:10–11
autotrophic fixation, carbon dioxide, 201B2:4
avulsion deposits, sand, 155A21:653
awaruite
harzburgite, 147B5:93
iron-nickel-sulfur-oxygen system, 209A3:97
saturation remanence, 173B8:24
axial flows, sedimentation, 131B2:19
axial strain
rates, 131A6:215
sediments, 141B33:407–410
vs. stress ratio, 141B33:414–416
axial thermal structures, slow-spreading centers,
179A4:10
axial trench wedge unit, microstructures, 190/196B7:3
axial valley, tectonics, 153A1:10–12
Axopodorhabdaceae, photomicrograph, 198B7:68–69

azimuth

- bedding, 159A5:121–122; 9:309
- boreholes, 180A12:148, 150
- Formation MicroScanner imagery, 180A8:107
- joints vs. depth, 135A(1)4:112
- magnetic logs, 106/109B29:310
- orientation, 161A4:76; 5:138; 6:207; 7:319; 9:404
- vs. depth, 157B4:46; 159A5:118, 122; 159B9:85; 176B5:32; 200A4:146; 209A10:149
- See also* bedding azimuth; fault azimuth; fracture azimuth

B

- b-amyryne, sediments, 175B10:6–7
- BABB. *See* basalts, backarc basin
- Bacillus*, cultured isolates, 201B1:15; 2:8
- Bacillus-Clostridium* group, microbes, 187B1:6; 6:7
- Bacillus subtilis*, sediments, 195B3:11
- back from ocean bottom module (BOB), 186A3:16, 39, 50, 53
- backarc basins. *See* basins, backarc
- backarcs
 - sediments, 185A1:7, 26–27
 - uplifts, 186B1:5
- backbarrier environment, lithology, 174AXS_A5:18
- background correction, X-ray pole goniometry, 131B11:144–145
- backoff hardware, design, 142A6:157–180
- backreef facies, progradation, 133A(1)9:309
- backscattered electron imaging
 - microfabric, 135B49:798
 - microstructures, 137/140B19:220–228
 - sediments, 155B26:427–432; 27:451
 - shear zones, 153B7:138–141
- backstripping, sea level, 174AXS_A(summary):9, 28
- backthrusting, accretionary wedges, 160B50:673–675, 677
- backtracked paths
 - drilling sites, 138B1:9
 - Pacific Ocean E, 138B35:718; 42:831
 - Site 849, 138A(2)14:790
 - Site 850, 138A(2)15:859
 - Site 851, 138A(2)16:946
 - Site 852, 138A(2)17:1006
 - Site 853, 138A(2)18:1059
 - Site 854, 138A(2)19:1089
 - using pole of rotation, 138A(2)13:731
- Backus-Naur form (BNF), core vs. log, 123B33:609
- bacteria
 - abundance, 177B3:1–12
 - acetogens, 127/128B(1)46:766–768
 - activity rates, 127/128B(1)46:771–772
 - adenosine-5'-triphosphate proxy, 164B37:393–398
 - aerobic ammonifiers, 127/128B(1)46:766–768
 - aerobiology, 209B1:18
 - anaerobic ammonifiers, 127/128B(1)46:766–768
 - anaerobic environment, 127/128B(1)46:767, 770–771
 - basaltic glass alteration, 148B13:196–198
 - biogeochemical flux, 164B36:388–389; 201B1:27–29
 - biomarkers, 149B13:298–299

- biomass, 164B36:387–388
- biomineralization, 193B1:35–36
- bis*-homohopanoic acid, 127/128B(1)38:669
- black shale, 207B13:2
- bottom water, 209A3:170
- carbon, 161A5:145
- carbonates, 200A4:44
- chemistry, 127/128B(1)46:765
- colonies, 114B37:691–694, 699
- comparison of near-surface populations, 190A4:139; 5:142; 6:87; 7:77; 9:103
- contamination, 127/128B(1)45:757–758
- counts, 193A3:294; 201A6:19–20; 8:19; 11:19–20
- cultivation, 201A6:21–22; 8:21; 201B1:14–16; 3:5–7
- dacites, 193A6:26
- dark-light cycles, 127/128B(1)46:772
- deep aquifers, 127/128B(1)45:755, 759
- deep sediment layers, 138B26:599–604
- deep water, 185B3:1–11
- depth of dividing and divided cells, 127/128B(1)45:757–758; 46:765–766, 769, 772; 138B26:602
- diagenesis, 128A4:178–179; 146B(1)25:380–381
- direct counts, 127/128B(1)45:756; 46:765–766
- distribution, 127/128B(1)46:769–771
- dormant biology, 127/128B(1)45:759
- filaments, 114B37:690–691, 694, 702–704, 707; 127/128B(1)45:757–758
- fluid flow, 168B1:4–5
- fluid venting, 146B(1)27:399–411
- fluorescence micrograph, 204A10:64
- gas hydrates, 164B1:8–9
- growth, 114B37:695–696; 127/128B(1)45:755–760
- heterotrophs, 127/128B(1)46:766–768
- hydrocarbons, 180A1:26–27; 180B18:5–6
- hydrogen-thymidine incorporation, 127/128B(1)45:757, 759; 46:767, 769, 771–773
- importance, 127/128B(1)46:761
- incubation, 127/128B(1)45:756, 764
- iron oxidation, 200A4:45
- lipids, 207B12:4
- liquid cultures, 200A3:125
- magnetosome preservation, 201B17:1–17
- metabolic stress, 127/128B(1)45:759
- methane, 149A4:97; 5:133–134; 172A3:55; 190A1:36
- methanogenesis, 127/128B(1)46:767–769, 772–773; 146A(1)4:80–83
- methods of study, 127/128B(1)45:755–756; 46:761–765
- microbial divergence indexes, 205B8:9
- microbiology, 190/196B1:8; 191A4:20
- nitrate reducers, 127/128B(1)46:766–768
- oceanic anoxic events, 198A3:29
- oxidation, 180A9:40–41
- oxygen isotopes, 201B7:5–9
- paragenesis, 165B14:228–230
- Peru margin, 127/128B(1)45:755, 757, 759; 46:761, 769, 773
- photograph, 148B13:205; 185A1:56
- photomicrograph, 193A4:196–198; 200A1:53; 3:124, 126–128; 4:127

- populations, 164B36:383–384, 386; 180A5:34–35
pore water, 188A3:45–46; 195B1:9
potential activity, 127/128B(1)46:763, 767–769;
164B36:384–386
presence at depth, 127/128B(1)46:761
preservation, 114B37:696–697
productivity, 127/128B(1)45:758–759; 164B36:387–
388
profiles, 135B9:147–150; 139B29:509–516;
146B(2)10:139–144; 169B2:1–18
proxies, 164B37:393–398
reduction, 168A5:135–137; 201B6:1–21
regression models, 177B3:12
sampling times, 127/128B(1)45:756
sapropels, 160B20:249–259; 21:266–267; 22:274–281;
25:303–307
sediment degradation, 139A7:316–318;
146B(2)14:205
sediments, 141B9:127–128; 146B(1)26:387–392;
155B36:565–571; 161B34:433–438;
164B36:381–391; 37:393–398; 168B13:161–165;
172A5:210–211; 180A1:9; 5:124; 6:60–61, 263;
7:22, 84; 8:32; 9:45–46, 193; 12:41, 191;
180B(synthesis):15; 19:1–12; 185A1:5–6, 56;
190/196B14:3; 200A1:15; 3:41–43; 4:43–45;
205A4:49–50; 6:20
ship-shore transportation, 127/128B(1)46:762
shipboard handling, 127/128B(1)46:761–762
shore laboratory handling, 127/128B(1)46:762–765
Site 798, 127/128B(1)45:755–776; 128A4:125–126
sulfate, 190A1:36
sulfate reducers, 127/128B(1)46:766–768, 770, 772–
773; 149B46:710; 160B29:368–371; 50:677;
181B7:1–15
temperature, 127/128B(1)46:761
total anaerobic counts, 127/128B(1)45:758; 46:766–
767, 772
total enumeration, 190A4:23–24, 138–139; 5:28, 141;
6:19–20, 86; 7:17, 76–77; 8:19–20; 9:22–23,
102–103; 193A3:72; 4:49, 250–251; 6:9, 39
viability, 127/128B(1)45:759; 46:763–767, 773
vs. depth, 138B26:601; 29:511–515; 146B(1)27:403–
408; (2)10:141; 155B36:567–569; 160B25:304,
306; 161B34:434–435, 437; 164B36:383, 385,
387–389; 37:397; 168B13:163–164; 177B3:10–
11; 180A1:48; 5:88; 6:168; 7:58; 9:120; 12:124;
180B(synthesis):35; 185B1:31; 3:1–11;
190A1:86; 4:68; 5:74; 6:48; 7:41; 9:54
vs. depth and organic carbon, 180A5:125
vs. in situ methane, 190A4:70
vs. temperature, 190A4:68
See also Agrobacterium tumefaciens; Archaea; cyanobac-
teria; Cytophaga-Flavobacterium-Bacteroides
group; dividing cells/divided bacterial cells ra-
tio; dividing cells; DNA; Eubacteria; Euryar-
chaetotal Group; *Geobacillus*; geomicrobiology;
microbial activity; microorganisms; Miscella-
neous Crenarchaeotal Group; photoautotrophic
green sulfur bacteria; photoautotrophs; Pro-
teobacteria; ubiquinones; ubiquinones/me-
naquinones ratio
- bacteria, green nonsulfur, sediments, 201B1:18
bacteria, iron-oxidizing
microbial populations, 187B6:8
photomicrograph, 200A4:128
bacteria, living, sediment density, 119B37:687–689
bacteria, magnetotactic, greigite, 141B5:72, 74; 182A1:20
bacteria, methanogenic, sediments, 141A6:110–111;
7:203; 8:269; 10:388–389; 175B5:4
bacteria, methanotrophic, organic matter,
146B(2)10:217
bacteria, mineralized, bacterial habitation, 193A3:226
bacteria, subsurface, lineages, 201B2:6, 17–19
bacterial biomass
laboratory technique, 112B40:607–610
Salaverry Basin, 112B40:611–613
Site 680, 112B40:613–614
Site 681, 112B40:610–612, 614
sulfate-reducing biology, 112B40:611, 615–617
bacterial cells
nucleotides, 158B26:358–359
sediments, 135B9:148–150
vs. depth, 169B2:4, 6, 14–17
vs. temperature, 169B2:6–7, 16–17
See also microorganisms
bacterial degradation, aromatic hydrocarbons,
155B35:559, 561–562
bacterial habitation
mineral particles, 193A3:225–226
photomicrograph, 193A4:198–199
bacterial mats
bacteria-Archaea, 204A8:13
Conical Seamount, 125B36:600
gas hydrates, 204A1:6
laminites, 146B(2)6:81
photograph, 204A1:54
Site 780, 125B19:349
See also microbial mats
Bacteroides. *See* Cytophaga-Flavobacterium-Bacteroides
group
Bacteroidetes, cultured isolates, 201B1:15
bacteriohopanepolyols, sediments, 175B10:11
Bacteriostrium hyalinum, scanning electron micrograph,
172B5:18
baddeleyite, gabbros, 153B17:338, 341
bafflestone, lithofacies, 143B30:475, 477, 488–489
Bagginidae, Site 766, 123B14:279
Bagnold effect, vein fillings, 127/128B(2)75:1180
Bairnsdalian, biostratigraphy, 182B3:18
Bajocian
biostratigraphy, 129B10:206
lithology, 159A7:228–231; 185A3:8
Balcombian, biostratigraphy, 182B3:18
ball-and-pillow structures
lithologic motifs, 173A7:173
photograph, 149A7:225; 159A6:174
ballistic ejecta, Creaceous/Tertiary boundary,
174AXS_A(summary):2
banding
contacts, 209A10:4–10
deformation, 209A6:20
dunites, 209A3:7

- dunitites and harzburgites, 209A3:28
gabbros, 153B9:159–161
lithology, 163X_A5:4; 6:10; 174AXS_A4:17; 209A5:4
mafic rocks, 149A7:232
orthopyroxenes, 209A3:7–8
photograph, 149A6:166; 149B26:453; 152A8:95;
153A4:134–136; 5:189, 201; 6:244; 158A7:98–
103; 158B15:197; 161A6:228–229, 240;
173A6:149; 195A3:91; 209A3:128–129; 5:116,
136; 7:45, 77
photomicrograph, 169A3:72; 209A5:58, 85, 91, 118;
6:73–74, 85
stereo plots, 209A5:120
structures, 180A6:42
textures, 161A6:223–224
See also colloform banding; color bands
- bank and trough topography
hypotheses, 101B29:456
Little Bahama Bank, 101B26:396
- barite
authigenic precipitation, 127/128B(1)37:665;
160B29:368–370
barium source, 166B9:109
bentonitic claystone, 123B4:97–98
biogenic opal correlation, 119B11:218
biogenic production, 165A3:79; 202B8:7
black shale, 207A5:28
carbonates, 151B24:429
crystals, 127/128B(1)37:664
diagenesis, 112A16:536–537; 139B7:109–110;
166B17:190–191, 194
disseminated sulfides, 169A6:270
energy dispersive spectra, 127/128B(2)87:1378
Eocene/Oligocene boundary, 198B11:1–16
estimated ion activity product (IAP) formation,
112B30:498–499
fronts, 112B30:500
geochemical cycles, 205B6:26
geochemistry, 139B48:737–738
halos, 145B25:392
hydrothermal alteration, 119B11:217; 139B11:215;
145B27:417
hydrothermal circulation, 169A1:11
inorganic sediments, 154B35:515–516
lithology, 138A(1)10:193; 159A6:166; 167A(1)16:468;
193A4:34; 201A7:11; 8:9–10, 13; 207A6:8; 8:6–
7; 207B8:10
marl turbidites, 123B4:121, 125
Mascarene Plateau, 115B37:687
mass accumulation rates, 206A3:44
mineralization, 159B2:17
nodules, 127/128B(1)36:637–638
Owen Ridge, 117B23:415
oxygen isotopes, 115B32:618
Paleocene/Eocene boundary, 199B1:19; 22:1–23
photograph, 159A5:81–82; 7:229; 185A4:86
photomicrograph, 193A4:140
Pigafetta Basin, 129B6:159
Pleistocene cyclicity, 115B32:619
pore water, 201A1:32; 8:14–15
precipitation environment, 115B37:688
- radiolarian claystone, 123B1:17–18
replacement mineral in sandstone, 127/128B(1)9:143
rubble, 169A4:168
scanning electron micrograph, 159B16:155–156
sediments, 151B24:420; 204A3:18; 205B2:9–10; 3:4
Site 709, 115B32:613, 616–617; 37:687
Site 711, 115B37:687, 695
Site 738, 119B11:216–217
Site 744, 119B11:216–217
Site 765, 123A4:101
Site 795, 127/128B(1)36:640
solubility, 156B12:165–167
sources, 115B37:687–688
strontium and sulfur isotopes, 193B1:31–32
sulfate in precipitation, 123B41:786
sulfides, 139B18:377; 169A3:59–61; 6:270; 193B1:22–
23; 10:5–7
sulfur isotopes, 127/128B(1)36:637–638; 139B48:739–
748
Trujillo Basin, 112A16:539–540
veins, 159B1:4–5
vesicles, 183A5:40
volcanic ash layers, 127/128B(2)87:1392
vs. carbonate content, 198B11:13
vs. depth, 198B11:12; 199B22:17–18, 23
winnowing, 112B30:499
X-ray diffraction data, 159B15:14
- barite, calcium carbonate-free, vs. depth, 199B22:19
barite nodules. *See* nodules, barite
barite veins. *See* veins, barite
- barium
abundance, 127/128B(1)37:663
alteration, 119B16:313–314; 193B1:18–20, 36–37, 47–
48; 200A3:31
amphibolite, 173A6:134
authigenesis, 127/128B(1)37:654; 201B1:25–26
basalts, 130B1:7–10, 14–20; 135B26:475–476;
142B2:13; 5:37–38; 144B29:504; 163A4:40–41;
5:59–60; 163X_A8:11; 183A5:34–35; 187A1:12;
6:10–12; 7:11; 8:11; 11:13; 12:11; 14:8;
196A3:32, 96; 200A4:36–37
basement, 126A7:184; 128A3:99; 183A7:132; 8:18;
9:27
Bengal Fan, 116B9:120
biogenic source, 127/128B(1)37:653, 656, 659
bioreactors, 207A7:28
black shale, 207A4:25; 5:28; 210B8:16; 10:5
breccia clasts, 173A7:195
bulk sediments, 199A8:17; 9:11; 10:18; 11:27; 12:27;
13:23; 14:19; 199B14:15
burial rates, 127/128B(1)37:652
Cagayan Ridge, 124B13:395
carbon mass accumulation rates, 162B14:206
carbonates, 166B13:141–142; 198B13:5
chimneys, 193B1:35
clay mineralogy, 169B6:9
comparison in mid-ocean-ridge basalts, 119B16:318
convergent margins, 205B2:1–22; 5:5–7
Cretaceous/Tertiary boundary, 119B39:725;
121B21:424
décollement zone, 205A1:13; 205B2:7

- depositional environment, 112B30:502
 detrital component, 167B23:266–270
 detrital vs. biogenic component, 127/128B(1)37:657
 diabases, 137/140B9:108; 180A6:36; 209A7:24
 diagenesis, 127/128B(1)37:652; 162B14:201–202, 205–206
 dissolution, 127/128B(1)37:659, 661
 enrichment, 135B37:615; 156B13:173
 Eocene sediments, 199B20:1–33
 felsic rocks, 183A7:41
 fine-grained sediments, 210B8:15
 flux, 170A1:14–15
 fractionation, 183A7:41–42
 gabbros, 176B6:16; 180B1:4–5; 209A6:30; 10:25
 geochemical controls, 112B30:498; 166B9:108–109
 geochemical diagram, 127/128B(1)37:664
 geochemical fronts, 112B30:502; 127/128B(1)36:637, 663
 geochemical signals, 187B1:16–19
 granites, 161A6:216
 green clay, 184B15:5
 hydrothermal fluids, 139B20:402
 hydrothermal sediments, 199B15:3, 11
 igneous rocks, 135A(1)4:149–151; 209A10:27
 in volcanic rocks, 183B17:2
 inorganic sediments, 154B36:509–516
 isotopic boundary, 187B1:4–5
 jasperoids, 193B9:5
 Kerguelen Plateau central, 120B(1)3:56
 lamprophyres, 180A7:15
 lava, 183A1:15; 197A3:22; 206B1:7
 limestone, 143B13:210, 212, 220
 lithology, 137/140B7:86; 183A7:39; 207B8:9–10
 mafic rocks, 209A7:25
 magmas, 183A7:40
 manganese minerals, 126B7:115
 mantle domains, 187A1:13; 13:14
 mass accumulation rates, 127/128B(1)37:660–661, 665; 162B14:205, 206
 metadiabase, 180A8:18
 metalliferous sediments, 138B37:771, 774
 metasedimentary rocks, 152B10:135–137
 microbial activity, 201A1:16
 mineral separates, 158B2:30
 mobility, 183B15:9–10
 orbital-insolation forcing response, 117B23:417
 organic carbon ratio, 127/128B(1)37:653–654, 661
 Paleocene/Eocene boundary, 199A1:85; 13:24; 14:20; 199B1:19; 16:3; 22:1–23
 paleoproductivity indicator, 117B23:417; 127/128B(1)37:651–656, 661–662; 198B11:3–4
 Peru margin, 112B30:498–500
 Pigafetta Basin, 129B1:16
 pillow basalts, 187A4:6–7; 5:7
 pore water, 116B9:117–119, 121; 12:146–147; 13:149; 127/128B(1)37:657–659; 135B42:680–688; 156B12:165, 167–168; 169B1:2, 4; 180B17:1–20; 193B4:4; 198A3:37; 4:28; 5:28–29; 6:26; 7:25; 8:23; 9:30; 199A8:16; 9:10; 10:17; 12:26; 201A1:32, 41, 46; 9:13; 10:13–14; 11:15–16; 202A3:13; 5:13; 6:14–15; 7:18; 9:19; 10:18; 11:15; 12:16; 13:14; 202B8:1–19; 204A6:11; 7:11, 39; 8:13; 9:12; 10:15; 205A4:46–47; 5:31; 6:16; 205B1:18–19; 2:19; 208A3:21; 4:19; 5:15; 6:23; 7:22; 8:23
 preservation, 127/128B(1)37:652
 productivity, 160B17:211, 213; 210A3:98; 210B10:5
 quartz gabbros, 180A11:6
 recommended and found mean values, 142B8:64
 remobilization, 127/128B(1)37:654–659; 204A3:67
 Salaverry Basin, 112B30:498–500, 502
 sand, 147B26:449
 sediment flux, 185A1:39
 sedimentation, 161B2:29
 sediments, 129B2:56; 145B13:210–211; 161B2:28, 32–33; 162B14:201–202, 205–206; 166B17:185–188; 167B23:265; 170A3:77, 79; 4:137–141; 5:177–178; 6:206; 171B_B4:4–5; 178A4:23–24; 5:21; 6:15; 178B4:1–12; 180B6:5, 14, 16; 189B12:2–3, 7–12; 199B14:4; 204A3:18–19; 205A4:24; 5:17; 6:10; 205B5:21; 208A5:17
 serpentinite, 149B30:522
 shipboard vs. shore-based digestion, 206B3:14
 shore-based flux vs. shore-based microwave acid digestion, 206B3:12–13
 siliceous deposits, 129B2:41; 198B17:20
 Site 680, 112B30:498
 Site 711, 115B38:706
 Site 752, 121B21:439
 Site 765, 123A4:160; 123B8:177
 Site 784, 125A12:280–281
 Site 786, 125B12:223
 Site 794, 127/128B(1)37:653–656; (2)85:1362
 Site 795, 127/128B(1)41:710; (2)85:1365
 Site 796, 127/128B(1)37:654, 656
 Site 797, 127/128B(2)85:1366
 Site 798, 127/128B(1)37:654, 656; (2)86:1368–1369
 Site 799, 127/128B(1)37:654, 656; 42:724–725
 Sites 1040 and 1039 correlation, 205B2:18
 stratigraphy, 163X_A8:12, 35
 sulfides, 158B3:43, 45; 193B10:3–7
 veins, 176B9:16
 volcanic ash, 165A4:180
 volcanic glass alteration, 127/128B(2)87:1377–1378
 volcanic rocks, 161B27:370
 volcanism, 163X_A8:16
 vs. age, 177B(synthesis):40
 vs. alteration percentage, 137/140B9:110
 vs. aluminum oxide, 158B19:263
 vs. barium/samarium ratio, 135B3:46
 vs. calcium carbonate, 123A4:156–157
 vs. carbon dioxide, 209A1:125
 vs. cesium, 153B14:302
 vs. chlorinity, 139B22:435
 vs. chromium, 137/140B9:111
 vs. cobalt, 205B3:13
 vs. copper, 205B3:12
 vs. depth, 131B28:350, 358; 135B7:116; 137/140B13:145; 139A6:224–228; 7:360; 139B11:229–250; 17:359–367; 22:435; 43:689; 49:749–750, 755; 145B13:212; 147B26:448; 149A6:169; 149B30:522; 156B12:167–168;

- 13:179, 181; 160B16:200; 29:370; 161B2:32–34;
164B15:161; 165A3:79; 166B9:105; 13:142;
17:190; 167B23:267; 168B9:107–115; 169B1:12–
13; 170A3:81; 4:139; 5:181; 6:210; 171B_B4:10,
13; 173A6:140; 180B17:8; 183A4:59; 8:66; 9:93;
189B12:5; 191B3:7; 193A3:224; 4:192, 194;
195B10:6; 197A1:40; 3:106; 5:69; 198A3:96;
198B13:8–14; 199A8:35–36; 9:26–27; 10:39–40;
11:64–65; 12:69–70; 13:53–54, 56; 14:39, 41;
15:30; 199B15:5; 16:6; 21:17; 200B2:14;
202A3:36; 4:48; 5:42; 6:47; 7:55; 8:67; 9:63;
10:58; 11:53; 12:63; 13:51; 204A3:60, 67; 4:62;
5:29; 6:40; 7:37, 39; 8:49; 9:47; 10:53, 57;
205A1:52; 4:83, 114, 147; 5:60, 84; 205B1:51;
2:16–17; 5:14–16; 6:23; 206A3:152; 206B3:15;
6:6; 207A1:79; 4:57; 5:67; 6:66; 7:62; 8:58;
207B1:22; 9:14–15; 208A3:57; 4:58; 5:48; 6:67;
7:57; 8:56; 210B8:55
- vs. iron oxide/magnesium oxide ratio, 180A12:95
- vs. lanthanum, 187B1:36
- vs. magnesium, 137/140B13:146; 139B20:404
- vs. magnesium oxide, 135B24:409; 26:477;
163X_A8:32; 187A3:25; 4:18; 5:18; 6:37; 7:34;
8:52; 9:22; 10:25; 11:36; 12:42; 13:42; 14:29;
15:43; 197A3:97; 200A1:65; 3:108; 4:113;
200B2:11
- vs. manganese, 199B14:16
- vs. manganese oxide, 180B6:14, 38
- vs. niobium, 183A1:75; 4:60; 5:123
- vs. rubidium, 135B26:477
- vs. sedimentation rates, 127/128B(1)37:661
- vs. silica, 134B19:384
- vs. sulfate, 201A11:52
- vs. yttrium, 128A3:100
- vs. zinc, 205B3:11
- vs. zirconium, 121B30:565; 128A3:100; 134A10:279;
12:417; 135A(1)8:372; 9:448; 11:656; 135B4:61;
25:452; 157A7:363; 8:418; 157B12:169, 171;
13:192; 187B1:36; 197A3:94; 4:71; 6:72
- vs. zirconium/barium ratio, 187A1:4–5, 43–44; 3:26;
4:19; 5:19; 6:38; 7:35; 8:53; 9:23; 10:26; 11:37;
12:43; 13:43; 14:30; 15:44; 187B1:32
- X-ray fluorescence data, 142B8:65–66; 152B35:426
Zone A, 187A8:12
- See also* chromium/barium ratio; copper/barium ratio
- barium, acid-soluble fraction, 150B17:318
- barium, barite
sediments, 202B8:19
vs. excess barium, 202B8:15
- barium, biogenic
particulates, 202B1:4
vs. age, 175A6:146
vs. core depth, 178B23:27
- barium, carbonate-free, vs. depth, 162B14:204
- barium, dissolved, vs. depth, 201A1:70, 77; 8:35; 9:37;
10:39; 12:33
- barium, excess
power vs. frequency, 175A3:53
sediments, 202B8:19
vs. barite barium, 202B8:15
vs. depth, 202B8:16
- See also* phosphorus
- barium, shipboard, sediments, 199B22:22
- barium accumulation rate. *See* mass accumulation rates,
barium
- barium/aluminum oxide ratio, vs. depth, 131B35:445
- barium/aluminum ratio
biomediation, 184B12:8–10
inorganic sediments, 154B36:509–516
lithology, 207B8:10, 25
Owen Ridge, 117B23:418
paleoproductivity, 117B23:417; 24:432–435
sediments, 171B_B4:5; 185A1:24; 210A3:98
spectral analysis, 154B36:522–526
uranium/thorium ratio correlation, 117B28:466–468
vs. age, 181B1:27; 9:5; 184B12:23
vs. depth, 154B36:519–525; 160B17:210, 212;
171B_B4:12; 185A1:55; 4:122; 210A3:280
- barium/calcium ratio, sediments, 166B13:138–140
- barium/cerium ratio, sediments, 170A4:140–141; 5:177–
178
- barium/lanthanum ratio
basalts, 135B38:630
basement, 206B6:3
lava, 135B24:410
Ninetyeast Ridge, 121B32:640
vs. age, 135B3:47
vs. depth, 206B6:7
vs. oxygen fugacity, 135B36:609
vs. sulfur, 135B36:610
- barium/niobium ratio
basalts, 121B32:638–639; 129B19:387; 152B40:491
Ninetyeast Ridge, 121B30:568
Site 738, 119B16:318
vs. depth, 152B40:489; 183A8:66
vs. lanthanum, 121B32:640
vs. lanthanum/niobium ratio, 135B3:47; 29:527;
136B9:113–114
- barium/phosphorus ratio
productivity, 199B22:9
sediments, 202B8:9
vs. depth, 199B22:19
- barium/rubidium ratio
basalts, 163B8:87
sediments and volcanic ash and gabbros, 170A4:140–
141
vs. lead-206/lead-204 ratio, 135B26:480, 482
vs. magnesium oxide, 135B26:477
- barium/sodium ratio, arc basalts, 185A1:39
- barium/strontium ratio
Izu-Ogasawara arc, 126B30:465
tephras, 126B30:462
volcanics, 135B3:39–40
vs. age, 135B3:46; 53:853
vs. depth, 203A3:50
vs. titanium/zirconium ratio, 203A3:52
- barium/tantalum ratio
basalts, 119B16:318
vs. lanthanum/tantalum, 130B1:14
vs. lead-206/lead-204 ratio, 163B8:89
- barium/thorium oxide ratio, 115B2:20

- barium/thorium ratio
basalts, 142B5:37–38
vs. cerium, 142B2:16
vs. zirconium, 142B2:16
- barium/titanium ratio
detrital component, 167B23:267–270
mass accumulation rates, 206A3:45–46
sediments, 189B12:2–3; 202B8:6; 206A1:25; 3:154
vs. age, 199A1:70
vs. depth, 165A3:79; 189B12:6; 206A1:67; 206B3:16
vs. magnesium oxide, 197A5:71
- barium/ytterbium ratio, vs. aluminum oxide, 195B4:35
- barium/zirconium ratio
basalts, 152A11:229; 13:279–281; 152B40:491;
187A14:8
geochemistry, 126B26:386
igneous rocks, 135A(1)4:149–151
isotopic boundary, 187B1:5
mantle domains, 187A3:10–11; 4:7; 5:7; 6:11; 7:12;
9:9–10; 13:14; 14:8; 15:12
mid-ocean-ridge basalts, 187A1:4–5, 12
Peru margin, 112B30:499
relative position, 163X_A1:16; 8:35
Site 680, 112B30:498
Site 791, 126A7:190
volcanic rocks, 152B28:339–340, 342
volcaniclastics, 135B4:63
vs. age, 135B3:47; 53:853
vs. barium, 187A1:4–5, 43–44; 3:26; 4:19; 5:19; 6:38;
7:35; 8:53; 9:23; 10:26; 11:37; 12:43; 13:43;
14:30; 15:44; 187B1:32
vs. cerium/zirconium ratio, 141B27:345
vs. depth, 135B4:66, 68, 70; 152A9:139; 152B31:378
vs. lead-206/lead-204 ratio, 187A1:41
vs. magnesium oxide, 197A5:71
vs. niobium/zirconium ratio, 144B29:509
vs. relative stratigraphic height, 163B7:71
vs. silica, 152B27:320–321
vs. zirconium/niobium ratio, 152A13:287
- barnacle fragments
accessory components, 188B4:16
biogenic components, 161B6:78–80
geochronology, 178B27:1–8
photograph, 178B27:7
scanning electron microscopy, 178B27:8
- Barnes-Uyeda tool
accuracy of logging, 102A3:110
alteration, 102A3:97, 102–106, 133, 138–143;
102B3:34–35; 9:128, 131; 10:145, 150–151;
11:161–162
Atlantic Ocean N mid-ocean-ridge, 104A4:97, 99,
111–112
calcium source, 102B9:128
- baroid capillary suction test, Site 765, 123A4:217
- Barremian
biostratigraphy, 129B8:180; 10:205; 11:221;
143A7:209–213; 143B32:547; 149B2:29–34;
173A7:175–182; 183B3:9; 185B6:3–4; 191A4:20;
198A3:20, 24; 9:20; 10:2–3; 198B7:9
continental margin, 149B1:6
deposition, 171B_A6:260
dolomite, 143B11:161–169
geology, 171B_A1:5–10
limestone, 143A2:18; 171B_A1:6
lithology, 129A2:44; 143A7:199–203; 149A6:158–175;
174AXS_A4:25–28
paleobathymetry, 171B_A1:6
paleoenvironment, 174AXS_A4:10–12
quartz-potassium feldspar-plagioclase system,
210B2:29
rifting phases, 210B1:11–14
sedimentation, 185A1:53; 210A1:12; 3:64
sediments, 173A1:11
seismic units, 149B39:625
serpentine breccia, 149B35:571–575
stratigraphy, 143B6:100
subtidal-supratidal environment, 143B10:141, 147–
148
synrift sedimentation, 210B1:26–27
tectonics, 173A7:216–217
volcanism, 143B17:282
See also Berriasian–Barremian interval; Hauterivian–
Barremian interval; Hauterivian/Barremian
boundary
- Barremian, lower
rifting phases, 210B1:9–11
synrift sedimentation, 210B1:25–26
- Barremian, upper, lithology, 198A3:13–14
- Barremian/Aptian boundary
biostratigraphy, 123B39:740; 130B5:64–65
juvenile–mature ocean transition, 123B43:807
magnetic properties, 123A4:138, 140
magnetostratigraphy, 123B28:534; 143B25:396–397
ocean anoxic event (OAE-1), 123B12:234
seismic stratigraphy, 132B1:5–8
Site 766, 123A5:288; 123B38:733
- barrier reefs
evolution, 133A(1)1:16–22
paleoenvironment, 174AX_A1:18
- Bartonian
biostratigraphy, 182B4:8; 189B5:37; 210A3:85–86
correlation, 171B_B9:15–16
magnetostratigraphy, 171B_A5:199; 6:275;
171B_B9:10, 12
- Bartonian/Priabonian boundary, sedimentation,
189B10:8–9, 15, 17
- basal contacts, photograph, 172A5:166
basal scour, photograph, 155A18:545
basal sequence boundary, photograph, 189A6:86
basalt breccia. *See* breccia, basalt
basalt clasts. *See* clasts, basalt
basalt cobbles. *See* cobbles, basalt
basalt-d diabase clasts. *See* clasts, basalt-d diabase
basalt flows
altered sediments, 121B29:549
ancient oceanic crust, 129B31:551; 32:574
axial summit caldera, 142A2:34–35
continental shelf, 163X_A8:13–16
crystallization, 163X_A8:11
evidence, 130A9:439
feldspars, 129B17:309
ferrobasalts, 200B3:4–6

- Formation MicroScanner imagery, 192A6:28–29
geochemistry, 210B9:14–19, 32
grain size, 121B29:549
lithology, 121A10:275; 11:321–322; 12:389–390;
121B29:548–549; 32:627–632; 129B24:448;
29:507–549; 192A5:6; 7:4; 194A4:10; 200B1:7–
8; 210A1:22; 4:4–6
lower Aptian, 192A6:9
magnetic properties, 129B24:450
mid-Cretaceous, 129B31:568
Ninetyeast Ridge, 121A15:531
ophiolites, 121B29:556
paleolatitude, 121B39:801–802
petrology, 126A7:174; 191A4:26–35
phase equilibria, 163X_A8:11
photograph, 141A9:313; 191A4:92, 94, 99; 192A6:59
photomicrograph, 210B9:54–55
preglacial sedimentary basin fillings, 163X_A8:4–5
quench zones, 121B29:549; 32:630
seismic reflection profiling, 121A12:421–422
Site 61, 129B31:555
Site 757, 121A11:321–322
Site 758, 121A12:387–391; 121B32:629
Site 765, 123A4:176, 178
Site 766, 123A5:316–317
stratigraphy, 129B25:456; 163X_A8:12–13
vertical thickness, 121B29:54
See also lava flows
- basalt flows, ankaramitic, photograph, 144A6:240–241
basalt flows, aphyric
 lithology, 185A3:11–12; 4:22–23
 photograph, 185A3:82–89
 radiometric age, 129B20:390–391
basalt flows, marine, lithology, 141A9:313
basalt flows, massive, lithology, 210B9:8–9, 11–13
basalt fragments
 glaciomarine sediments, 163X_A8:3
 lithology, 163X_A4:5–11; 183A5:4, 13; 197A5:5
 photograph, 180A12:82
 photomicrograph, 163X_A6:36; 180A9:86
 plagioclase phyrlic, 180A9:81–62
 subrounded, 180A9:89, 92
 well-rounded, 180A12:85
- basalt grains
 lithology, 183A6:5
 photomicrograph, 180A12:62
- basalt lobes
 photograph, 197A4:47
 photomicrograph, 197A4:50–52
- basalt pebbles. *See* pebbles, basalt
- basalt provinces, maps, 183B1:36
- basalt-seawater interaction
 accretionary prisms, 141B25:316–319
 alteration, 144B28:478–480, 484–487
 carbonates, 107B4:63; 144B26:462–463
 Celebes Sea, 124B20:277
 chemical exchange, 129B19:368–369
 fluid flow, 141B29:365
 Gortani Ridge, 107B4:57
 major element modification, 107B5:78
 Marsili Basin, 107A6:158
- Site 699, 114B39:721, 730
Site 700, 114B39:721, 730
Site 702, 114B39:721, 730
strontium isotopes, 144B25:454–455
Tyrrhenian Sea, 107B4:52, 62
- basalt/sediment contacts
 alteration, 185A3:24–25
 lithology, 201A12:10
 Marsili Basin, 107B1:26
 Tyrrhenian Sea, 107B1:25
 See also sediment/basalt contact
- basalt shards, lithology, 183A5:13
basalt texture. *See* textures, basaltic
basaltic andesite. *See* andesites, basaltic; andesites, calc-
 alkaline basaltic; andesites, tholeiitic
- basaltic mousse
 description, 126B25:371
 emplacement mechanisms, 126B25:373, 379
 geochemistry, 126B25:371; 26:391, 401, 404; 29:451
 juvenile glass clasts, 126B29:450
 magnetic properties, 126A7:170–171; 126B25:371–
 377
 origin, 126B25:371, 373, 375, 379
 petrology, 126A7:174, 179, 181; 126B26:391–392
 physical properties, 126A7:200
 Site 790, 126A10:415
 Site 791, 126A10:415; 126B25:371–372; 26:400
 sulfate-sulfur concentration, 126B29:450
 sulfur isotopes, 126B29:452
 vesicular components, 126B26:391
 X-ray diffraction data, 126A7:184
- basaltic rocks
 alteration, 147A4:133
 cumulative curated thickness, 147A4:128
 geochemistry, 147A3:89–91
 petrology, 147A1:11; 4:114–122
 veins, 147A4:136
- basaltic texture. *See* textures, basaltic
- basalts
 abundance in breccia, 187A7:27
 AFM diagram, 127/128B(2)54:874
 age, 106/109B25:285–286, 289; 107A11:890, 901;
 107B1:25; 111B9:105–106; 113A6:189;
 115A4:129; 5:236, 265; 12:918; 115B4:48, 50;
 121B26:510–516; 125B16:296–297; 161B27:363;
 163X_A8:6; 180B(synthesis):6
 Albian–Aptian interval, 130A10:507
 alkali basalt fields, 151A5:80
 alkaline magma production, 115B6:63
 alteration, 107A6:148; 107B4:58; 38:656; 111A4:259;
 111B5:55, 58; 6:62, 64, 73, 75; 9:99, 105–106;
 11:124–125; 114A5:109; 115A4:146–148;
 115B3:26, 30–31, 33; 7:72, 77; 8:85–91;
 118A3:49; 119A7:241, 243; 121A10:274, 277–
 278; 11:321–322, 324; 121B28:534–535;
 30:563–565; 124B1:5–6; 127/128B(1)38:669–
 701; (2)51:838; 55:883–889; 56:891; 57:899,
 901; 58:908–916; 130A7:254; 12:549–551;
 136B11:133–146; 137/140B13:146–147;
 139A7:362; 144B28:475–491; 147B12:227–234;
 148B11:156–157; 12:171–189; 34:419–421;

- 35:441; 152A11:229; 168A4:70; 183A6:50–52;
8:20–22; 9:30–35; 183B15:1–40; 185A3:25–31;
4:25–26, 110; 187A3:7–8; 8:8; 14:4–5; 15:7–9;
187B1:6–9; 192A4:14–15; 203A3:15–17;
206A1:31–32; 3:65–73; 209A7:9–10
- alteration halos, 106/109A4:66–67; 106/109B14:182,
190
- Ambenali Formation, 115B2:13, 18; 5:56
- analytical methods, 125B16:297–299
- arc vs. rift, 126B26:395–396
- Archie's law, 111B9:101; 12:135–137, 139–140
- argon geochronology, 115B4:48
- ash fall layers, 157B14:202–205
- augite-liquid relations, 127/128B(2)54:870–872
- backarc basins, 135B32:559–560
- backscattered electron photographs, 151B19:353
- Baffin Bay, 105A1:7, 9; 4:64
- Baffin Island association, 105B46:873; 52:1000
- basement, 102A3:102, 114; 126A7:184; 126B26:397–
398; 27:407–417; 130A10:524–527; 165A8:391–
393; 165B19:293–294; 168A6:169–175;
173A1:13; 179A1:11–12; 180B(synthesis):5–7;
183A6:23, 25–35, 37–46; 9:13–16, 30;
183B1:10–11; 197A6:7; 198A9:5–6
- bathymetry, 102B7:79
- breakup volcanism, 152A13:287–288
- bulk density, 135A(1)4:159
- Cagayan Ridge, 124A6:93, 100; 11:255; 12:313–315;
14:402–403
- calc-alkaline composition, 107A6:148; 107B4:65, 70;
127/128B(2)54:870, 875
- calcite-cemented conglomerate, 115B9:95
- calcium/potassium ratio, 115B4:46–47
- calcium vs. magnesium number, 118A3:55
- carbon isotopes, 104B25:453–454
- carbonate-filled veins, 107A7:304
- carbonate/sandstone contact, 115A12:933
- cation exchange capacity, 111B9:99–101
- Celebes Sea, 124A10:163, 168–169; 13:351, 359–360,
362–369; 124B3:40; 20:277–278
- cerium isotopic ratios, 111B7:78, 81, 83
- chemical composition, 105B46:868–870, 872, 882;
107B1:15; 111B3:34–37; 124B21:305, 307;
139B22:429–438; 144B28:480, 482–483;
176B(synthesis):68; 183A1:80, 88; 6:132–139
- chemical fluxes, 111B11:124–131
- chemical type I and II, 121B30:569–571, 576–577
- chilled margins, 105B46:863; 107A11:890, 901
- chromium spinel, 127/128B(2)51:837–847
- CIPW-normative composition, 130A9:445
- classification, 102B6:73; 111A3:50–51; 118A1:10
- clasts, 180A7:16
- clay authigenesis, 107B19:316
- clay-filled vesicles, 115B9:95
- clinopyroxenes, 195B8:15
- colatitude arcs, 198B20:13
- color and alteration minerals, 121A10:274
- composition, 106/109A4:62; 131A6:157–158;
139A5:146–149; 7:332; 144A7:277–280;
147B9:177–178; 152A11:229; 152B31:376;
201A7:82–83; 203B2:35
- compressional wave velocity, 102B3:36–37; 11:174
- contamination, 183B1:9
- continental margin, 149B47:730; 163A1:9, 11
- cooling units, 105B46:870, 872
- copper, 104B21:414–416
- cores, 136A1:7; 5:77–82; 180A6:122; 200A4:58–59
- correlation, 180B1:3
- Cretaceous, 145A6:273–274; 149A6:203
- Cretaceous–Cenozoic interval, 103B4:42
- Cretaceous/Tertiary boundary, 105A1:7–9; 115A5:236;
121A12:360
- crust, 195B2:7–9
- cryptocrystalline groundmass, 115A4:147
- crystallization, 115A2:35; 115B3:40; 10:106–107; 127/
128B(2)52:853–854; 148B3:21–35
- cumulus phase assemblage, 118A4:72
- data-reduction methods, 102B7:82
- De Marchi Seamount crust formation, 107B1:15
- Deccan traps, 115A1:6–7
- deepwater eruption, 121A12:375
- demagnetization, 134B26:471; 144A3:69–70;
165B9:159–162; 197A5:23–24
- density, 102B3:31; 143B28:423–429; 169B7:5–6
- depleted normal type, 118A3:54
- deposition, 115A5:236; 119A7:279; 121A11:350;
121B26:509
- derivation, 121A10:277; 124A14:404
- detritus source, 126A7:157
- Detroit Seamount, 145A5:179
- digital imaging, 206A3:90–93, 318–320,s
372
- diopside-quartz-plagioclase system, 163X_A8:33
- dipping-reflector sequence, 104A4:200, 207
- disappearance, 103B41:752
- dolomitization, 107B9:136
- drilling, 168A1:14, 19
- elastic properties, 102B4:49
- electrical conductivity modeling, 124B7:96–99
- electrical impedance, 169B8:5–8
- electron microprobe data, 105B47:887; 111A3:58;
111B2:23; 121B28:535–540
- emergence and submergence events, 115B9:98
- emplacement, 107A6:148, 168; 7:325; 107B1:17;
38:721
- enriched, 203B2:1–36
- enriched vs. depleted, 115B6:63
- Eocene, 104A1:13, 16; 4:54–55, 205–206; 115B4:50;
183A1:29
- Eocene/Oligocene boundary, 115B4:50
- eruptive environment, 121A1:13
- experimental 1-atmosphere melting, 142B6:41–49
- experimental vs. core data, 127/128B(2)54:870
- extrusives, 129B4:119
- FAMOUS, 106/109B25:285–286, 288; 26:292–295;
27:301
- flows, 104A4:195–198; 107A10:784; 115A5:236
- flows vs. sills, 121B29:547, 556
- forearc lithology, 125A2:7
- formation, 115A5:265
- formation factor, 102B6:73; 111B9:102–105
- Formation MicroScanner imagery, 183A5:164

- formation properties, 102B3:43; 11:157–159
formation waters, 102B9:131
fractional crystallization, 115B6:64; 124B35:476; 127/
128B(2)54:872–874; 152B27:318–321
fractures, 102B3:40; 111B9:104–106; 165B14:227–232
fusion experiments, 111B2:21
Galicia Bank N, 103B4:45–46
Galicia margin W, 103A5:92
gamma ray logs, 102B3:46; 10:135–145
geochemistry, 102A3:138–141; 102B9:127, 133;
104A4:98; 106/109A4:56–63; 106/109B6:57–64;
107A11:890; 107B4:51–54; 57–60, 63–67; 5:78–
85; 111A3:181, 183; 111B7:78, 81; 11:121–122,
129; 115A1:9; 4:154–155; 5:271; 10:736, 758–
759; 12:934; 115B1:7; 2:18; 3:25–26, 30–40;
6:68; 7:72–73; 10:104; 118A3:54; 4:71–73;
118B26:471–472; 121A10:275–281; 11:306;
12:402–403; 121B29:567–569; 30:561–562, 569,
571–572; 123B15:805; 124A11:262–268;
13:369–373; 124B20:282; 125B16:302–304; 127/
128B(2)51:839–842; 130A5:149; 134A9:200–
201; 13:504; 135A(1)5:223–224; 6:272–273;
135B24:385–425; 26:471–485; 27:498–503;
28:505–517; 29:519–531; 30:533–542; 35:595–
613; 52:837; 137/140B5:53–61; 7:81–97;
10:117–120; 14:162; 139A5:117–118; 7:478;
142B2:9–29; 10:75–81; 11:83–85; 143B15:253;
31:503–504; 144B29:495–512; 148A3:150–155;
148B2:10–13; 153B10:181–241; 158B17:213–
229; 19:269–270; 163B7:63–93; 165A6:329–330;
168A4:70; 5:123–124, 126; 169A3:96; 5:215–
216; 183A1:59–63; 183B1:26; 15:28–31;
185A3:15–18; 4:24; 187A3:31; 4:22; 5:22; 6:41–
42; 7:38–39; 8:56; 9:26; 10:29; 11:41–42; 12:47;
13:46; 14:33; 15:48; 191A4:32–33, 145;
192A4:15; 5:115; 6:17; 7:8, 58; 193B6:3–4, 19;
195A1:17–18; 4:22–23, 195–196; 195B1:11;
196A3:32, 96; 200A1:13–14; 200B2:18–19;
206A1:30–31; 3:64–65, 375–382; 206B1:5–9;
209A7:97–100
geochronology, 136B10:120–123; 145B22:333–344;
157B11:129; 163B6:55–60; 165B15:233–236;
180B2:1–35
geology, 209A1:78–79
geotechnical units, 144A3:77; 4:137; 5:188
geothermal gradient, 104B25:454
giant plagioclase crystals, 115B3:25
glassy chilled margins, 115A4:146–147; 125A9:183
grain size, 127A7:370; 206A3:373–374
grain texture, 115B10:105–106
Greenland, 105B6:77
groundmass, 111A3:55–58; 111B5:48; 6:61;
121B32:658
growth experiments, 111B2:21
hafnium-thorium-tantalum system, 210B9:61
high- and low-titanium composition, 115A4:148
homogeneity, 107B5:79
horizontal and vertical stress, 121B35:704–706
hydrogen isotopes, 111B5:51–52, 54–55
hydrothermal alteration, 118A1:4; 148B10:122–123;
158A8:160–163; 10:193–199; 11:219
hydrothermal fields, 158A1:7; 158B18:231–254
hygromagmaphile element spidergram, 107B5:90–91
hysteresis, 198B20:5
igneous provinces, 183A1:15–22
impedance, 124B37:509
incompatible elements, 105B46:877; 107B4:66–67;
118A3:54; 121A11:332; 124B23:332; 183B1:43–
44
index properties, 135A(1)4:152; 144A10:377
Indian Ocean, 115A1:5
instrumental neutron activation analysis, 142B12:87–
89
intersite correlation, 107B5:79; 121A11:324, 326, 330
ion concentration, 185B11:11
iridium, 115B7:82
iridium/cesium ratio, 121B19:417
iron-rich composition, 106/109B14:187, 191;
121B29:567, 571
iron-titanium oxides, 115B10:104–105
island arc basement, 126B39:583
islands, 157A2:14–15
isotopes, 107B4:54; 115B1:8; 5:53–60; 6:65–66;
136B10:125; 152B29:355–356; 153B15:310;
183A1:59–60; 191B3:1–11
Jeanne d'Arc Basin, 103B44:791–792
Kerguelen archipelago/plateau comparison, 115B1:3;
121B31:592
Kwaimbaita Formation, 192A1:7
laboratory determinations, 102B11:176
Labrador Sea, 105A6:697
lanthanum vs. lanthanum/ytterbium ratio,
153B10:230
lanthanum/ytterbium ratio, 153B10:232
lateritic alteration, 115A12:935
latitudinal drift, 143B31:504–508
lava, 127/128B(2)50:819; 134A8:153–154;
165A6:325–330, 347; 197A6:12–13
Layer 2, 118B21:377, 380
lead isotopes, 145B24:386
light carbon, 115B9:99
limestone-filled veins, 107A11:877, 887–889
liquid line of descent, 127/128B(2)54:869–882
liquidus trends, 118B21:380–381; 176B8:19
lithologic contacts, 115A4:157
lithology, 111B9:99; 12:142–143; 115A5:261–264;
10:753–754; 134A10:273; 139A5:141;
142A4:57–60; 143A6:123–124; 7:203; 144A3:72;
4:118; 6:220; 7:267; 144B45:771; 145A7:307;
8:342; 145B38:579, 581; 152A7:78; 11:204–205;
157A4:68; 8:406–407; 158A10:202–205;
167A(1)5:92; 168A5:113–114; 169A3:44–53;
177A8:7–8; 180A6:24, 28–31; 9:19; 12:22;
183A1:27, 32; 8:6; 190A4:9; 191A4:27–29;
193A1:4; 194A8:7–9; 196A3:18; 198A9:11–13;
199A8:6; 10:8; 11:10; 12:11; 13:9; 14:9; 15:6;
200A1:11–12, 48; 4:2–3; 201A12:11; 206A3:53–
65
loss on ignition, 118A3:54
low-pressure experiments, 152B30:359–372

- low-temperature alteration, 102A3:144; 102B4:50;
 105B12:179, 181; 106/109B14:181–192;
 123B42:793; 187A13:9–10; 187B3:1–29
- lowest recovery, 104A4:113
- macroscopic description, 102B11:180; 115A12:930–
 933; 192A3:25–26; 4:13–15; 5:12–13; 6:16; 7:7
- magma chambers, 118B26:472; 142B3:28
- magmas, 105B46:872–873; 115A4:126; 115B2:20–21;
 3:40–41; 5:56; 6:64
- magmatic affinity, 107A7:304–305; 107B4:52, 59, 64–
 65; 5:78–79, 81
- magnesium, 124B14:215
- magnesium number, 115A12:936
- magnesium oxide, 105B46:873, 876
- magnesium oxide vs. titanium oxide, 123A5:326
- magnetic fabric, 192B5:1–21
- magnetic field, 148B24:335–336
- magnetic mineralogy, 121A11:333
- magnetic properties, 102A3:131; 102B7:77–95;
 107A11:891; 107B7:108, 109; 115A4:138, 140;
 5:252, 255; 10:734, 747, 755–756; 12:918, 926,
 934–935; 115B4:50; 10:103–105; 121A10:281–
 282, 287–288; 12:394–396, 410; 121B28:526–
 537, 542–543; 30:561; 39:779, 792; 123A4:138;
 124A10:150–151; 11:230–231; 125A9:189;
 129A3:123; 4:204–205; 129B25:455–470;
 135A(1)4:125–126; 5:210, 212; 135B45:717–
 735; 136B12:147–149; 144B37:632–637;
 152B23:276–278; 158B25:347; 165A6:314;
 183A8:112; 185A3:32–35; 187B1:9–10; 7:1–25;
 192B5:20; 197A4:27–28
- magnetostratigraphy, 135A(1)6:263; 192A5:20; 6:22
- major elements, 105B46:866, 871–872, 882;
 107B4:58; 5:84, 86; 111A3:71, 74; 111B1:4–10;
 5:50–51, 53; 11:122, 123, 126–127; 115B2:11–
 13, 18; 7:73–76; 121A11:331; 12:401;
 121B29:567; 124B22:314; 127/128B(2)54:869–
 870, 873; 148B39:483–487; 149A6:172;
 165A6:326; 183A5:34–36, 183–185; 6:47–48
- manganese-rich analyses, 106/109B14:187, 192
- mantle, 115A1:9; 10:736, 754–755; 115B2:19–20;
 5:54; 6:67; 123B42:791, 797; 187B3:2–4
- margins, 152A1:12–15
- marine magnetic anomalies, 118B16:300–305
- Mascarene Plateau, 115B4:48; 6:66
- mass balance, 183B15:40
- Mauritius and Réunion basalts, 115A4:148–149;
 115B2:19
- mean deviations, 111B11:126
- mechanical behavior, 137/140B31:347–351
- melting, 115B6:63–64; 119B5:62, 64; 153B10:184–185
- melts, 163B9:95–112; 176B10:26–27; 179B(synthe-
 sis):19
- metamorphism, 118A4:67–71
- methane content, 115B9:99
- microbiology, 168B14:167–174; 187B6:1–27;
 200B1:10–11; 206A1:34–35
- mid-ocean-ridge basalt, 118B21:361; 142A4:68;
 180B1:12–14
- mineral assemblages, 203A3:78
- mineral chemistry, 115B3:26–32; 124B11:282;
 12:300–303
- mineral composition, 105B46:866; 163B10:113–117
- mineral paragenesis, 111B6:68–69, 72; 118B7:149
- mineralogy, 107A11:890; 107B4:51–54, 56, 62–63;
 5:76–78; 115B3:26, 30–31, 33; 4:45; 7:74;
 121A10:275, 282–283; 121B29:567;
 124B11:265–266; 12:314; 125B16:299–302;
 195B8:1–24; 198A9:92–93
- minor elements, 104B22:425
- Miocene, 131A6:91
- modal composition, 111B4:49; 115B10:105;
 131A6:195; 139A5:142; 168A4:66; 5:119; 6:172;
 206A3:371
- modality, 121A10:276–277; 11:323–325; 12:394–395
- multiple mantle sources, 121A15:525
- nature and origin, 143B23:381–388
- Nazareth Bank, 115A1:5; 4:145, 149; 115B4:48; 6:66;
 8:86
- neodymium isotopes, 115B4:55–56; 5:57–58; 7:78–83;
 127/128B(2)57:901–903
- neutron absorption cross section, 148B30:389–394
- neutron porosity logs, 102B11:173; 124B6:89
- Ninetyeast Ridge, 115B1:3; 121B32:612–614
- niobium depletion, 107B5:82, 84
- niobium-zirconium-yttrium plots, 169A5:216;
 210B9:58
- normative composition, 163X_A8:33; 191A4:146
- Norwegian Sea, 104A4:83, 92–93
- oblique seismic experiment (OSE), 102B8:106
- occurrence, 102B3:45; 149A6:172
- ocean-floor basalt and West Philippine Basin affini-
 ties, 105B52:1007
- oceanic crust, 115B9:93–100; 144B39:649–663
- oceanic plateaus, 165A1:11
- optical examination, 121B28:534–535
- origin, 107B19:316; 124B1:3, 5–6; 21:303–305;
 125A9:195
- osmium and rhenium, 158B7:95–100
- oxidation state, 106/109B25:283–286, 288–289
- oxygen isotopes, 102B10:136; 104B25:450–453;
 111B3:34–35, 38; 5:51–52, 54–55
- paleointensity, 197B1:9–11
- paleolatitude, 197A5:24–25
- paleomagnetism, 104A4:166–167; 130A9:412;
 130B4:51–59; 136B3:45–63; 165B9:157;
 183A4:24–26; 191A4:25; 191B7:1–20; 8:1–27;
 198B20:14–15; 200A1:14; 206A1:33–34
- parent magma, 127/128B(2)52:855–856
- pedogenic alteration, 144B19:381–398
- pelagic and hydrothermal infill, 107B38:654–655
- permeability, 139B41:671–674; 169B8:3–5; 185B11:6
- petrogenesis, 105B46:874; 124B21:307–309; 187B2:23
- petrography, 105B46:865, 866; 107B4:51–55, 62–63;
 5:71–73, 76–78; 7:103–105; 115A4:147, 156;
 10:734; 12:932, 934–936; 118A3:49; 4:65–67;
 6:117; 121A10:275; 11:322–326, 330–331;
 12:392–393; 121B26:507–509; 32:621;
 125A9:183–184; 125B16:299; 127/
 128B(2)56:892; 134B16:339–349; 135A(1)4:131–
 135, 138–147; 5:219–220, 222; 6:268;

- 161B27:357–359; 165A6:326–329; 168A5:127;
169A3:90–93; 183A4:17–19; 183B15:5–6;
187A1:8–9; 8:5–6; 12:6–7; 187B2:13–15;
192A3:26–28; 4:13–15; 5:13–14; 6:16–17; 7:7–8;
195A4:20–22; 195B8:4–5; 197A3:19–20;
200A1:12–13; 4:29–36; 201A6:12; 203A3:10–12;
203B2:29; 206A1:28–30; 3:55–64
- petrology, 106/109A4:56–63; 107A10:766; 11:889–
890; 111A3:38–40, 52, 181, 183; 119A7:240–
241; 124B20:273–277; 126A7:176–177, 183;
131B16:197–207; 134A9:198–199; 10:276;
134B17:353–357; 136B9:107–118; 137A2:24,
26–27; 137/140B2:19–33; 140A2:52–64, 119–
121; 142B1:3–8; 143A2:28–29; 6:139–143;
143B16:263–276; 145A6:219–220; 7:308; 8:344;
149A6:169, 172; 151A5:77–78; 13:418;
152A7:80–81; 13:279–281; 168A5:114–123;
6:171; 169A6:271–272; 169B10:22; 183A5:30–
32; 185A3:14–15; 187B1:10–19; 191A1:14–15;
200A4:26–29; 209A8:2–3
- petrophysics, 123A4:223–224, 248
- phase equilibria, 111B2:22; 127/128B(2)54:870
- phenocrysts, 102A11:418; 102B10:135–136;
107A11:890; 115B3:34
- photograph, 149A6:176; 157A10:514; 158A10:196;
165A6:327–328; 168A4:73; 169A3:91–93; 5:214;
170A6:201; 183A5:73, 130–133; 6:84; 8:73–74;
9:62, 76, 103; 187A4:12; 7:28, 30; 8:33, 39;
10:13; 11:22–24; 14:19–21, 24; 190A1:72; 4:46;
8:36, 39; 191A1:42; 192A3:65, 77, 80; 5:40, 75–
76, 82; 7:45; 194A8:41; 195A4:83; 197A3:65;
198A9:60; 200A4:95–96, 99–100, 103;
201A6:51; 7:53; 206A3:213, 224, 237–238, 244
- photomicrograph, 169A5:215; 180A5:48–49, 58;
6:115; 7:46–48; 8:56–59; 9:72, 76–77, 80;
180B8:43; 183A5:84, 97, 104; 6:86–88;
187A8:42; 9:18; 14:22; 191A4:93, 101–108;
192A1:54; 3:103–107; 7:39–40; 193B6:7–15;
194A4:60; 195A4:108; 198A9:62; 200A4:104–
107; 206A3:177–186, 309
- physical properties, 102B3:42–44; 4:50–51; 6:69;
115A5:264; 10:766; 121A10:297; 12:404;
123B23:454; 137/140B25:295; 168A1:15; 4:94;
5:141, 152; 192B7:7–8; 200A1:15–16; 200B1:10;
203A1:26; 3:65; 206A1:34
- plagioclase, 115A4:148–149
- Pliocene/Pleistocene boundary, 107A10:784
- pore fluid evolution, 102B10:143–144
- porosity, 102B6:70–75; 111B9:101–102, 104–105
- porosity vs. velocity, 102B3:35–39; 6:71–75;
158B23:313–327
- post-late Miocene, 135B38:628–633
- postmagmatic alteration, 121B32:625
- potassium, 102B10:135; 106/109B10:118–121
- potassium-argon dating, 105B47:885–886;
134B22:413–414; 143B17:279–282
- potassium-rich analyses, 106/109B14:185–189
- preservation, 115A12:925
- pseudotachylite, 104A4:106
- pseudoternary normative projections, 127/
128B(2)54:875
- pyroxene-liquid relations, 127/128B(2)54:878–879
- pyroxenes, 105B46:867, 883
- Q-factor, 102B7:90, 92
- quench textures, 118A3:49–50; 121A12:391
- radioactivity, 102A3:114; 102B11:171
- radiometric dating, 105B52:999; 143A1:9;
143B31:504
- rare earths, 105B46:878; 111B7:77–83; 123B42:795;
152B40:481; 183B15:5–6
- recovery, 121A16:365–366; 136A5:81; 139A5:140;
145A5:134–136
- recrystallization, 206A3:59–64
- remanent magnetization, 115A10:749; 12:927;
129A4:205; 135A(1)4:119; 136A5:69; 137/
140B22:253–262; 143A6:134–135; 7:213–215;
183A7:202; 192A3:35; 7:10–11; 197A4:83–84
- resistivity, 102B6:71; 111B9:99–103; 12:133–145
- resistivity-at-the-bit images, 196A3:59
- Réunion hotspot track, 115B1:8–9
- rift basement, 126A7:128–129
- rift valleys, 147A1:8
- rock magnetism, 139B30:531; 141B4:51–57;
183B1:24–25; 12:1–28; 197A4:25–28
- Rockall Plateau, 105B52:1002–1003
- Rodrigues Island and Nazareth Bank, 115A4:149
- rubidium, 106/109B10:118–121
- sampling, 106/109B14:183; 121B39:779–780
- Sardinian margin, 107A10:753, 757; 107B1:25
- Saya de Malha Bank, 115B4:45
- scanning electron microscopy, 206B5:16, 18, 20
- secondary alteration, 105B47:885
- secondary carbonate geochemistry, 115B9:93–100
- secondary clays, 168B12:149–157
- secondary minerals, 119B18:364; 139B8:116–117;
142B9:71–74; 168A4:72; 5:128
- sediment contacts, 107A6:147, 152, 168; 7:306;
107B39:654, 665
- seismic experiments, 142A2:35–36
- seismic profiles, 121A10:295–296; 12:421–422;
125A3:43–44; 135B21:346; 139B63:593
- seismic properties, 139B34:597–612; 152B38:453–
462; 163B3:29–35
- Seychelles dikes, 115B12:120
- silica undersaturation, 107B4:63
- silicification and paragonitization, 158B19:257, 263–
264
- silicon-aluminum-magnesium-iron composition,
106/109B14:185–187
- Site 698, 114A5:99, 107; 114B2:23, 26, 37
- Site 699, 114A6:156, 159–160, 193; 114B39:722
- Site 700, 114A7:304; 114B39:722
- Site 701, 114A8:375, 393
- Site 702, 114B39:722
- Site 703, 114A10:558; 114B1:7
- Site 732, 118A3:48
- Site 736, 119A5:130
- Site 757, 121A11:335
- Site 758, 121A12:360, 374
- Site 766, 123A5:323–324
- Site 782, 125A10:202
- Site 794, 127/128B(2)54:869–870

- Site 795, 127/128B(2)83:1338
 Site 797, 127/128B(2)54:869; 57:899-900, 911
 Site 803, 130A5:109
 Site 872, 144A4:132-135
 Sites 321, 1226, and 1231, 201A12:53-54
 Sites 504 and 896, 148A3:150-151; 148B2:13
 sodium vs. niobium, 115A1:13
 source depletion, 115B6:68
 sources, 105B46:873-874; 107A6:169; 183A5:37
 spinels, 135B34:585-594; 195B8:16
 stable isotopes, 115B9:95-97; 125B16:304
 standard deviations, 111B11:126
 stratigraphy, 115A5:270; 143B15:247; 197A1:14-15
 stress, 124A11:275
 strontium, 106/109B10:118-121
 strontium and neodymium isotopes, 105B46:870, 880
 strontium isotopes, 107B4:60-61; 111B5:57-58; 7:83;
 127/128B(2)57:901-903
 structural maps, 104B49:988
 structure, 206A1:32-33
 subaerial emplacement, 115B2:18; 121A10:260, 265,
 267, 274-275; 15:524; 121B10:229; 183B1:20
 subaerial weathering and cooling, 115B9:99
 subdivision, 191A4:142
 Suiko Seamount, 115B1:8
 sulfur, 111B3:35, 38-39; 5:55-57
 sulfur isotopes, 111B3:35, 38-39; 4:41-45; 5:54, 56;
 126B29:450, 452; 139B48:739-748
 Sulu Sea, 124A6:93, 100; 11:252-262
 summary, 102B11:175
 Tanzawa Mountains, 111B6:72, 75
 tectonics, 153A1:11; 195A1:59
 tectonomagmatism, 105B46:867, 869-870, 872
 temperature gradient, 111B8:92
 tephra, 151B18:341-343
 Tertiary, 163B12:135-148
 textures, 111B6:64; 118A6:117; 151A5:80; 203A3:11-
 12; 206B5:1-32
 thermal conductivity, 111A3:104; 118A1:20-21;
 148B31:397-400; 158B24:332; 169B8:8-10
 thermal fracturing and drilling, 124B8:112-114
 thermomagnetic behavior, 134B28:499
 thickness of altered layer, 127/128B(1)40:699-701
 thorium, 105B47:879-881
 Tiburon Rise N dating, 110A4:260
 titanium, 105B46:870, 879
 titanium-zirconium-yttrium system, 210B9:58, 61
 tortuosity, 102B6:71, 73, 74
 trace elements, 105B46:866-867, 878; 52:1002;
 107B4:64-66; 5:79-81, 89; 111A6:69-70, 72, 75;
 111B1:4-10; 5:50-51, 53; 115B1:7; 2:11-13, 18;
 7:73-76; 124B22:315; 142B8:61-68; 165A8:393;
 183A1:59-63, 81; 5:34-36, 120, 124; 6:47-48;
 7:135; 8:67; 9:97; 183B1:9; 197A4:114-115;
 205B9:9-10; 210B9:59, 62
 transition to sediment, 169A5:210-211
 trapped melt, 118A4:72; 121B32:658
 Tyrrhenian Sea, 107B9:129
 upper crust, 102B11:166
 upper vs. lower lava groups, 115B2:13
 valley vs. transform walls, 118B21:380-381
 vanadium vs. titanium, 195A1:59
 Vavilov Basin emplacement, 107B1:17
 vein alteration, 127/128B(2)55:886-887
 velocity, 102B6:71-75; 11:175-176; 107A11:893, 899;
 121A10:289, 293; 124B6:78-83; 169B7:7-8
 velocity-porosity relationships, 142B7:51-59
 vesicles, 107A6:148; 107B38:722; 126B27:403; 127/
 128B(2)55:887-888; 135B37:615-623;
 197A1:10-12
 vesicular glass, 157B14:212
 volatiles, 142B4:31-36
 volcanic ash, 151B17:317-323
 volcanic glass, 107B4:58, 66, 70; 135A(1)11:638;
 135B3:28-30
 volcanic pebbles, 161B44:569
 volcanic stratigraphy, 148A3:129-132
 volcanoclastics, 157B13:189
 volcanism, 157B12:141-181; 163X_A1:5
 volume magnetic susceptibility, 135A(1)9:427-428
 Vøring Plateau, 104A7:766
 vs. age, 192A1:38
 vs. depth, 183A4:46; 5:99; 185A1:48; 206A1:71-72
 Walvis Ridge Tristan and mantle plume, 115B5:54
 water content, 111B5:54-56; 11:130-131
 waveforms, 102B4:52-54
 weathering sequence, 102B10:145
 well-logging, 102A3:120-121; 102B11:173-177;
 121A10:274; 124A11:272-274; 13:379-381;
 144A11:434-435; 200A1:16-17
 wet and dry resistivity, 185B12:15-16
 whole-rock geochemistry, 169A5:216
 xenoliths, 193B6:1-19
 X-ray diffraction data, 121A12:396; 195A4:194
 X-ray fluorescence data, 121A11:326-331; 132A3:63;
 143B15:258-261; 152A7:83; 163X_A4:23; 5:5-6,
 13-14; 6:47-48; 7:14
 Zijderveld plots, 191A4:88
See also alkali basalts; alkali olivine basalts; basement;
 basanites; boninites; breccia; clasts; clay/basalt
 contact; claystone/basalt contact; Day plot; dia-
 base/basalt, massive; ferrobasalts; flood basalts;
 glass inclusions; gravel; hawaiites; hyaloclas-
 tites, basaltic; interbasaltic horizons; Kroenke-
 type basalt; Kwaimbaita-type basalt; lapilli-
 stone; lava; lava flows; limestone/basalt contact;
 metabasalt; mid-ocean-ridge basalt; pebbles;
 peperites; picrites; pillow basalt lobes; pillow ba-
 salts; pillow lava; pseudotachylite; rubble; sedi-
 ment/basement contact; tholeiites;
 trachybasalts; tuffs; volcanoclastics
 basalts, altered
 abundance, 187A15:46
 aphyric, 192A4:63
 brecciated aphanitic, 183A9:25-26
 density, 124B6:87-88
 enrichment/depletion diagram, 169A3:99
 geochemistry, 158B20:281
 isocons, 169A3:99
 lithology, 144A5:159; 163A5:52
 low-grade mineral assemblages, 129B19:367
 mass balance, 169A3:99-101

- neutron absorption cross section, 149B37:595–599
- petrology, 137/140B4:43–51; 158A8:150; 158B22:301
- photograph, 152B9:127; 158A7:116–117; 8:162;
 10:197–199; 11:217–218; 158B18:246–248;
 163A5:52–53; 165A6:306; 168A5:117;
 180A5:114; 185A3:79–85; 192A5:49
- potassium composition, 124B6:84
- strontium and oxygen isotopes, 158B22:302
- basalts, amygdaloidal, lithology, 163X_A4:10;
 167A(1)14:395; 180A5:8–9
- basalts, andesitic
 - Site 702, 114A10:559; 114B22:387, 389, 399, 403, 404
 - thin sections, 161A9:1020, 1023
- basalts, aphanitic
 - photograph, 192A1:63; 5:46–47
 - Site 797, 127A7:345–346
- basalts, aphyric
 - alteration, 127/128B(2)55:885, 887
 - basement, 134A8:147, 149; 183A5:14; 6:25–38; 7:20;
 8:13–14; 197A5:10
 - chemical composition, 140A2:86–88
 - chilled margins, 168A5:120, 122
 - clasts, 183A1:18–19
 - dikes, 147A3:67
 - geochemistry, 147A4:144
 - lava flows, 152A9:132–133
 - lithology, 163A3:26; 4:35, 37–38; 163X_A4:7–13;
 180A10:7; 187A3:4–6; 6:4–5; 8:3–7; 9:3–5; 10:2–
 3; 11:3–4; 12:3–8; 14:3–4; 15:3–7; 197A4:11–19;
 209A3:4
 - massive, 168A5:113–114; 187A11:4–5
 - occurrence, 105B46:863, 866, 883; 52:999
 - ocean island basalts, 120A6:133; 8:267; 9:321;
 120B(1)5:73
 - petrography, 135A(1)4:133–135, 138–145; 6:268–270;
 142A4:58–59; 147A3:56; 152A11:228;
 187A13:4–6; 15:5–6
 - petrology, 158A8:163–164; 191A4:26–35
 - photograph, 135A(1)4:139–140; 187A4:11; 11:20;
 12:15, 18, 25, 29; 14:10–11, 23; 15:13, 20–21,
 28–30; 195A4:96, 102; 197A5:44; 203A3:42;
 210A4:17
 - photomicrograph, 127/128B(2)52:859; 165A6:329;
 168A5:120, 122; 187A8:16; 12:23, 27; 14:13–16;
 15:31, 36; 203A3:42
 - plagioclase microphenocrysts, 119B20:295
 - radiometric age, 127/128B(2)50:822–823, 825
 - remanent magnetization, 210A1:23–24
 - recovery, 132A1:12; 3:55–60
 - Site 794, 127/128B(2)52:853; 83:1339; 128A3:68–69,
 90–91
 - Site 797, 127A7:369–370, 375–380; 127/
 128B(2)52:850; 58:911
 - Site 803, 130A5:149
 - textures, 165A6:326
 - volcanic basement, 163X_A8:7–8
- basalts, aphyric-olivine
 - lava flows, 152A9:132
 - petrography, 152B33:404–405
 - petrology, 163B2:20–24
 - photograph, 152A9:131, 134
- basalts, aphyric pillow
 - photograph, 203A3:43
 - photomicrograph, 203A3:43
- basalts, aphyric to slightly plagioclase phyrlic, 142A4:59–
 60
- basalts, arc, barium/sodium ratio, 185A1:39
- basalts, augite phyrlic, 127/128B(2)52:854
- basalts, backarc basin (BABB)
 - carbon dioxide and water content, 125B8:138
 - composition, 135B25:433–455; 32:559–560
 - geochemistry, 126B26:389; 42:642
 - isotopes, 127/128B(2)49:805
 - magma composition, 126B26:383
 - petrology, 134B16:337, 343; 17:353–357
 - rift basins, 126B38:555
 - source, 126B38:393
- basalts, backarc tholeiitic, 124B21:304–305, 309
- basalts, basanitic
 - ternary diagrams, 144B30:519
 - trace elements, 144B30:531–532
- basalts, brecciated
 - massive, 210B9:50
 - petrology, 183A5:41–43
 - photograph, 151A5:79; 185A4:98–100
 - seabed morphology, 163X_A8:4
- basalts, calc-alkaline
 - evolution trend, 127/128B(2)54:870, 875
 - island arc geochemistry, 134A10:278
 - Site 795, 127/128B(2)58:919
 - Site 797, 127/128B(2)83:1339–1340
- basalts, chloritized
 - geochemistry, 158B19:267, 270–271; 21:290–291
 - plagioclase and clinopyroxene-phyric, 180A12:81
 - photograph, 158B18:246–248
 - rare earths, 158B19:266
 - strontium and oxygen isotopes, 158B22:302–308
 - trace elements, 158B4:53–56; 19:264–266
 - vertical distribution, 158B1:14–17; 18:237–238
- basalts, clinopyroxene-olivine, 135A(1)9:433–435
- basalts, clinopyroxene-olivine-phyric
 - petrography, 135A(1)9:436–442
 - pillow, 183A8:53–54
- basalts, clinopyroxene phyrlic
 - lithology, 163X_A4:6–14
 - occurrence, 105B46:866–867, 884
- basalts, clinopyroxene-plagioclase phyrlic
 - lithology, 163X_A6:5–19
 - occurrence, 131A6:153
- basalts, coeval
 - submarine emplacement, 157B14:211–212
 - vs. depth in ash fall layers, 157B14:211
- basalts, continental flood, rifted margins, 163X_A1:1–19
- basalts, cryptocrystalline
 - contact with gabbro, 205A4:29–35
 - photograph, 205A1:59; 4:97–98
 - photomicrograph, 205A4:99
- basalts, depleted, chromian spinel, 135B33:565–584
- basalts, diabasic
 - lithology, 170A6:195, 197
 - photomicrograph, 169A5:215
 - Site 794, 128A3:68, 86, 88

- basalts, enriched mid-ocean-ridge, 203B2:8–9
- basalts, feldspar phyrlic, 183A5:84
- basalts, fine-grained
 photograph, 192A5:41, 50–51
 photomicrograph, 192A5:85
- basalts, flood. *See* flood basalts
- basalts, flow-banded, lithology, 180A12:14
- basalts, fractured massive, 210B9:49–52
- basalts, glassy
 aphyric, 125A14:324–325
 photomicrograph, 180A1:61, 63; 7:31; 10:41
 pillow margin, 192A1:44
- basalts, glomerophyrlic, lithology, 163X_A6:6–19; 7:4
- basalts, glomeroporphyritic
 lithology, 163A3:27
 ocean island basalts, 120A8:267–268
 Site 791, 126A7:176
 textures, 105B46:863, 866, 884
- basalts, gray
 low-temperature alteration, 192B6:3–4
 photograph, 192A3:116
 photomicrograph, 192A3:112–115, 119
- basalts, green
 photograph, 192A5:84
 photomicrograph, 192A5:83
- basalts, hawaiitic, Site 713, 115A10:753–754
- basalts, high-aluminum
 composition, 127/128B(2):56:893
 Site 794, 127/128B(2):53:861
 Site 797, 127/128B(2):53:861; 57:900; 58:920;
 83:1339–1340
- basalts, holocrystalline
 ash fall layers, 157B14:204–205
 petrography, 200A4:29–36
 photograph, 187A3:14
 radiometric age dating, 123B30:558
 Site 732, 118A3:53
- basalts, hyaloclastite, Site 765, 123A4:94
- basalts, hypocrySTALLINE, photomicrograph, 129B5:152
- basalts, ice-rafted debris, mass accumulation rates,
 163B14:159
- basalts, intraplate, chromian spinel, 159B15:138
- basalts, iron-titanium
 composition, 135B25:433–455
 formation, 125B24:406
 thin sections, 201A12:11
- basalts, island arc
 isotopes, 127/128B(2):49:805
 Sulu Sea, 124B21:305
- basalts, Kwaimbaita-type, geochemistry, 192A1:28–30
- basalts, low-potassium, sills, 180A6:37–38
- basalts, magnesian, geochemistry, 115B6:65
- basalts, massive
 alteration, 123B9:193
 aphyric texture, 123A4:174–176
 Argo Abyssal Plain, 123A4:176, 178–179
 basement units, 183A9:16, 19, 22, 25–26; 192A1:61
 chill zones, 121A12:389–390
 compressional wave velocity, 102A3:95, 146
 Formation MicroScanner imagery, 192A6:93–96
 magnetic inclination histograms, 192B5:16
 mineralogy, 121A12:392–393
 neutron porosity logs, 102B3:34
 petrography, 121A12:387–389
 petrology, 121B28:526; 187A1:7
 photograph, 187A1:23; 11:16, 29; 192A5:45
 photomicrograph, 187A11:31
 physical properties, 102A3:95, 112, 146; 102B3:39–
 40; 4:60–61; 8:106
 Site 781, 125A15:373
 thickness of zones, 121A12:390
 vesicle zones, 121A12:389
 vs. depth, 192A1:68, 71
 waveforms, 102A3:116, 118, 149
 well-logging, 197A3:44
- basalts, massive plagioclase-clinopyroxene-olivine phyrlic, 163X_A5:3–4
- basalts, medium-grained brecciated, 210A4:18
- basalts, metamorphosed, chemistry, 149B26:451
- basalts, microcrystalline
 ash fall layers, 157B14:204
 photograph, 169A6:272
 photomicrograph, 168A5:136
- basalts, microcrystalline aphyric
 petrography, 187A12:7
 photograph, 187A1:27
- basalts, microgabbroic, photomicrograph, 169A5:215
- basalts, mid-ocean-ridge (MORB)
 clasts, 149B29:497–515
 comparative mineralogy and chemistry, 147B9:181–
 182
 depletion, 153B18:361
 evolution, 147B7:145–146
 geochemistry, 135B28:509–517; 29:528–530;
 139A5:136–140; 158B22:307
 helium isotopes, 127/128B(1):44:747
 hydrothermal alteration, 148B1:6
 isotopic profiles, 148B5:57–69
 lava, 135B1:3
 lead isotopes, 158B8:104–107
 melting, 130B1:16–20
 New Hebrides island arc, 134B35:610–613
 origin, 147B7:147; 8:167–169
 petrology, 134B16:337, 341–345; 17:353–357;
 203B1:4–5
- basalts, nephelinitic, ternary diagrams, 144B30:519
- basalts, normal gray, alteration, 192A6:19
- basalts, normal mid-ocean-ridge, 206B6:1–10
- basalts, ocean island (OIB)
 age, 120B(1):3:55; 7:89
 alteration, 120A6:135; 8:268; 120B(1):3:55–56
 basalt flows, 120A5:74, 79–82; 120B(1):1:19–27; 4:63
 basement nature, 120B(1):2:55; 5:73–74
 clays, 120B(1):4:64
 composition, 120B(1):6:79
 dikes, 120B(1):1:25
 erosion, 120A7:229; 120B(1):9:126–127
 fluid conditions, 120B(1):4:68
 genesis, 120B(1):10:146
 geochemistry, 115B2:12–13, 19; 120A6:136; 7:224–
 225; 8:268; 9:322; 120B(1):2:38–39
 hydrothermal circulation, 120B(1):5:73

- Indian Ocean Ridge, 120B(1)3:59–60
 Kerguelen Plateau evolution, 120B(2)48:903
 low-temperature alteration zone, 115B8:89, 91
 petrography, 120A8:267–268; 9:321; 120B(1)9:118
 petrology, 120A8:265; 9:318
 potassium-argon dating, 120B(1)5:74–76
 pressure, 120B(1)4:67
 seawater reaction, 115B8:89, 91
 remanent magnetization, 120A7:200; 8:255; 9:306
 seismic stratigraphy, 120A6:143; 7:226, 229
 Site 747, 120A6:147
 Site 748, 120A7:175
 Site 749, 120A8:247
 Site 750, 120A9:295, 332–333
 temperature, 120B(1)4:67–68
 trace elements, 120B(1)3:56
 velocity, 120A7:216
 weathering, 120B(1)8:103–105
 well-logging, 120A6:139; 120B(2)58:1055–1056
- basalts, ocean-plateau, basement, 130A10:526
- basalts, oceanic
 composition, 190A1:3
 continental margin, 163B7:71–72
 geochemistry, 129B19:376–383; 21:406–412
- basalts, olivine
 lithology, 158A10:202–205; 194A5:6, 8; 9:6
 Maldives Ridge, 115A12:917
 Ontong Java Plateau, 130A10:535
 Rodrigues Island, 115A1:7
 Sardinian margin, 107A10:786
- basalts, olivine-clinopyroxene phyric, 163X_A6:9
- basalts, olivine phyric
 basement units, 183A9:26
 lava flows, 152A9:132
 Nankai Trough, 131A6:152–153
 petrography, 152B33:404–405; 192A5:13–14; 6:16–17
 photomicrograph, 163X_A6:40; 169A6:271;
 192A3:89, 95
 Site 701, 114A8:373; 114B22:387
 Site 794, 127/128B(2)52:849, 853
 Site 797, 127/128B(2)52:850, 854–857
 Tyrrhenian Sea, 107A10:757
 weathered, 194A5:54, 55
- basalts, olivine-phyric tholeiitic, basement, 197A5:10
- basalts, olivine-plagioclase
 Nankai Trough, 131A6:152
 Site 791, 126A7:176–177
- basalts, olivine-plagioclase-clinopyroxene phyric,
 152A9:132
- basalts, olivine-plagioclase phyric
 lava flows, 152A9:132
 petrography, 152B33:404–405; 192A5:13–14
 Site 794, 127/128B(2)58:908
 Site 797, 127A7:369
- basalts, olivine-pyroxene microphyric
 intergranular matrix, 143A6:151
 Site 794, 128A3:68, 90
- basalts, olivine-rich, alteration, 121B30:564
- basalts, olivine tholeiitic, liquidus, 127/128B(2)53:864
- basalts, ophitic, ocean island basalts, 120B(1)5:73
- basalts, paragonitized
 geochemistry, 158B21:291–292
 trace elements, 158B4:53–56
- basalts, paragonitized-silicified, 158B19:267
- basalts, phyric
 argon isotopes, 141B35:421–426
 clasts, 183A1:18–19
 cracks, 137/140B19:224
 igneous units, 163X_A6:21–23
 lithology, 187A12:7–8
 ocean island basalts, 120A8:266–268; 11:319–320;
 120B(1)5:73
 petrography, 129B17:307–308; 187A13:4–6
 photograph, 187A1:36
 photomicrograph, 163A5:60; 168A5:121
 plagioclase, 131A6:151–152
 Site 698, 114A4:96; 114B22:387
 Site 786, 125A14:326
 stratigraphy, 141B27:333–334
- basalts, picritic
 geochemistry, 135B29:529–530
 photograph, 147B9:186
- basalts, pillowed aphyric
 photograph, 203A3:47
 photomicrograph, 203A3:47
- basalts, pillowed plagioclase and olivine phyric
 photograph, 203A3:45–46, 48
 photomicrograph, 203A3:45–46, 48
- basalts, pilotaxitic, lithology, 180A5:8–9
- basalts, plagioclase
 Atlantic Ocean S subantarctic, 114A12:801
 Nankai Trough, 131A6:152
- basalts, plagioclase and olivine phyric
 photograph, 203A3:44
 photomicrograph, 203A3:44
- basalts, plagioclase-clinopyroxene-olivine
 petrography, 135A(1)6:270–271
 petrology, 169A6:271
 photomicrograph, 169A6:271
- basalts, plagioclase-clinopyroxene phyric
 basement units, 183A5:30; 6:46–47
 lithology, 163X_A4:8–9, 12–13; 6:6–19
 petrology, 169A5:212–214
 photomicrograph, 163X_A4:20
 volcanic basement, 163X_A8:7–8
- basalts, plagioclase-olivine aphyric, 187A12:14
- basalts, plagioclase-olivine-clinopyroxene phyric
 lithology, 163X_A4:6–13; 6:6–19
 photomicrograph, 163X_A6:39
- basalts, plagioclase-olivine phyric
 lithology, 183A9:23–24; 187A6:3–5; 7:4–5; 8:3–7; 9:3–
 5; 11:5–6; 12:3–8; 14:3; 15:4–7
 petrography, 187A12:3–8; 13:4–6; 15:4–6
 petrology, 163B2:20–24
 photograph, 187A1:31; 8:24, 27, 31; 12:13, 16–17, 20,
 26; 13:24, 33; 15:18, 22; 197A5:42
 photomicrograph, 163X_A4:20; 187A12:28; 15:35
- basalts, plagioclase phyric
 basement, 183A5:15, 17, 30; 6:25–33, 37–41; 8:13–16;
 9:24; 196A3:30
 crystal accumulation, 127/128B(2)52:853–854

- lava flows, 152A9:132
- lithology, 187A13:4; 190A8:9
- petrography, 135A(1)4:140–141
- petrology, 169A6:272
- photograph, 157A4:67; 183A5:135
- photomicrograph, 165A6:329; 169A6:271; 180A12:75
- radiometric age, 127/128B(2)50:823, 826
- Site 698, 114A5:112
- Site 715, 115A12:918
- Site 757, 121A6:121; 11:311, 321; 121B32:624–625
- Site 758, 121B29:567
- Site 794, 127/128B(2)52:849, 853
- Site 795, 127A5:174, 217; 127/128B(2)52:850, 854
- Site 797, 127A7:370–371, 380; 127/128B(2)52:850, 854
- textures, 165A6:326
- basalts, plagioclase phyrlic alkali, photograph, 197A5:41
- basalts, porphyritic
 - mass balance, 169A3:96, 98–99
 - petrography, 139B6:81–84
 - petrology, 139A5:130, 132, 135–140
 - photomicrograph, 180A9:84
 - Site 781, 125A9:181
- basalts, pseudotrachytic, ocean island, 120B(1)5:74
- basalts, pyroxene, sediment provenance, 180B7:21
- basalts, pyroxene phyrlic
 - lithology, 180A9:22, 24
 - photograph, 169A3:92
 - Site 795, 127/128B(2)52:850
- basalts, pyroxene-plagioclase phyrlic
 - petrography, 152A11:228
 - radiometric age, 127/128B(2)50:826–827
 - Site 795, 127A5:174, 217; 127/128B(2)58:918
- basalts, scoriaceous, petrology, 144B29:500–502
- basalts, shoshonitic, Celebes and Sulu seas, 124B25:325, 329
- basalts, silicified
 - clasts, 158A7:104–105, 107
 - geochemical section, 158B27:367
 - photograph, 158A7:126, 130
 - strontium and oxygen isotopes, 158B22:302
 - vertical distribution, 158B1:14–17, 22
- basalts, Singgalo-type, geochemistry, 192A1:28–30
- basalts, subaerial, median destructive field, 183B12:11–12
- basalts, subalkalic, petrology, 141B28:349–360
- basalts, submarine, composition, 157B27:451–453
- basalts, subtrachytic, Site 698, 114A4:96; 114B22:387
- basalts, tachylitic
 - ash fall layers, 157B14:204
 - lithology, 180A5:8–9
 - photomicrograph, 157A10:524
- basalts, tholeiitic
 - age, 129B20:393
 - alteration, 119B16:307, 313–315
 - argon-40/argon-39 age, 129B20:402
 - basement, 130B1:4–5; 183A1:6; 197A4:18–19
 - chromium vs. yttrium, 165A6:329, 331
 - composition, 107A11:890; 107B4:54; 126A9:370; 135B3:39–40
 - continental flood basalts, 119B16:318
 - continental margin basalts comparison, 119B15:296
 - crystal chemistry, 129B17:315–320
 - Dupal isotopic signature, 121B32:640
 - Eocene, 192A1:29
 - evolution trend, 127/128B(2)54:870, 875
 - formation, 121A15:526
 - generation, 115B6:67; 129B19:384
 - geochemistry, 119B15:294; 16:312; 135B29:529–530; 183A5:34–36
 - high-velocity properties, 129B28:504
 - immobile elements, 119B16:317
 - incompatible elements, 121A15:525–526, 534; 121B31:592
 - isotopes, 119B15:294–295
 - Jurassic, 129B32:581
 - lava flows, 183A1:14
 - lithology, 192A1:12
 - magnesium oxide, 183A8:19
 - Mascarene Plateau, 115B6:63
 - mineralogy, 119B15:293–294; 129B20:396
 - neodymium isotopes, 129B21:410
 - Ninetyeast Ridge, 121A10:277; 15:526
 - niobium, 119B15:294
 - ocean island basalts, 120A8:268–269
 - petrography, 119B16:300–301; 129B17:307–308; 19:363–364
 - petrology, 151A5:80; 151B19:351–365; 203B1:4–5
 - photomicrograph, 129B18:347; 180B8:42; 197A5:66
 - physical properties, 129B27:486
 - plume component, 119B16:317
 - post-late Miocene, 135B55:897
 - remanent magnetization, 144B38:644–646
 - reversed magnetic polarity, 115B4:50
 - rock magnetism, 129B25:461
 - seafloor spreading-ridge axis sites, 121A10:279
 - Site 738, 119B16:302–303, 307
 - Site 794, 127/128B(2)57:899; 58:916
 - Site 797, 127/128B(2)57:900; 83:1339–1340
 - Site 801, 129B1:4; 23:442
 - Site 803, 130A5:146–149
 - sources, 119B15:296
 - strontium isotopes, 129B21:409–410
 - subduction-related arcs, 119B16:319
 - ternary diagrams, 144B30:519
 - volcanology, 197A3:15–18
 - vs. alkaline composition, 121B32:622
 - well-logging, 144A9:322
- basalts, tholeiitic and alkalic, normative, 129B18:379
- basalts, tholeiitic microphyric, petrography, 129B18:346, 348
- basalts, trachytic
 - dispersed ashes, 119B17:326
 - Site 698, 114A5:96; 114B22:387, 389, 396, 403
- basalts, unweathered, photograph, 197A5:40
- basalts, variolitic
 - lithology, 139A7:507–513; 180B6:11
 - petrology, 135A(1)11:644
 - photograph, 165A6:329
- basalts, vesicular
 - age, 129B20:389–404
 - alteration, 129B14:270; 27:485–499

- Aptian, 129B31:565
 argon-40/argon-39 incremental heating, 129B20:403
 Bathonian–Callovian interval, 129B1:10
 chemical composition, 129B19:370–377
 core ages, 129B2:35, 37
 Cretaceous, 129B18:345–359
 differentiation trends, 129B27:489
 dissolution, 129B14:275
 eruptions, 144A5:185
 geochemistry, 129B21:405–413
 interlaboratory chemical data, 129B19:363; 35:669
 Jurassic, 129B28:501–506
 Jurassic–Lower Cretaceous interval, 129B36:677
 lead/lead vs. initial strontium/strontium and neodymium/neodymium data, 129B21:409
 lithology, 129B2:35, 37; 134A12:408; 144A10:342–344; 180A5:8–9
 Marsili Basin, 107A6:129; 107B4:51
 mineralogy, 129B17:306; 20:397
 paleomagnetism, 129B24:447–454; 25:465–470
 petrography, 129B5:138; 17:307
 petrology, 144A8:308
 photograph, 132A3:59; 135A(1)4:139, 147; 197A3:63; 4:46; 209A1:96
 photomicrograph, 129B20:388; 209A4:10–11
 recovery, 129B34:635
 samarium/samarium vs. initial neodymium/neodymium data, 129B21:409
 Site 802, 129A3:186–187; 129B33:621
 strontium, neodymium, and lead isotopes, 129B21:407
 basalts, vesicular amygdaloidal plagioclase-clinopyroxene-olivine phyrlic, 163X_A7:3–4
 basalts, vesicular aphyric
 lithology, 183A5:29
 photomicrograph, 163X_A6:40
 basalts, vitric, ash fall layers, 157B14:204–205
 basalts, weathered
 basement rocks, 183A9:20
 clays, 152B9:119, 121
 lithology, 163X_A6:5–19
 basalts, whole-rock, geomagnetism, 197B1:9–10
 basanites
 guyots, 144A3:86
 isotope geochemistry, 144B31:541
 petrography, 157A7:353–355
 petrology, 144B29:496, 502
 basanitoids, petrology, 144B29:501–502
 base metals
 electron microprobe analyses, 147B5:94
 hydrothermal mounds, 158B27:370–380
 mineral photograph, 147B5:101
 stratigraphy, 158A1:11–13
 See also metals; precious metals
 basement
 age, 105A6:734; 107A6:168; 7:289; 107B1:22; 38:626; 114B2:24, 36–37; 120B(1)3:55; 4:63–64; 123B9:191; 30:557, 559; 38:731, 739; 124B5:69; 12:174; 125B8:131; 9:145; 10:173; 11:208; 13:237; 126A7:174; 126B26:388; 44:677–680; 127A1:22; 4:107; 5:192–193, 195; 7:361; 127/128B(2)50:819–836; 58:906–908; 83:1333–1337; 128A3:69; 138A(1)9:122; 10:241; 138B1:9; 152B40:484–488; 180B(synthesis):5–7; 2:12–13; 185A3:67; 185B1:4–5; 192A1:27–28; 3:23–24; 6:14; 195A1:17; 200B2:17; 203B1:2; 206A1:41; 3:103
 age and lithosphere, 127/128B(2)81:1304–1305
 age determination, 127/128B(2)81:1303–1304
 age vs. carbon dioxide, 136B11:144
 Albian–Cenomanian interval, 103A7:114
 alteration, 111A3:59–60; 111B9:19–194; 119B16:314–315; 123A4:193; 127A1:23; 4:122–125; 5:217–219; 6:280; 7:369–380; 127/128B(2)47:779; 49:849; 55:883–889; 56:891; 58:908–916; 79:1265–1267; 83:1338; 128A3:68–69; 5:321; 129B22:426–427; 168A4:70–77; 5:103, 124, 126–133; 6:162, 173–175; 185A1:11–12; 3:18–31; 185A1:24; 4:25–26, 29–30; 191A4:33–35; 192A4:19; 7:9; 206A1:32; 3:65–73
 Aptian, 192A1:27; 6:14
 Armorican margin, 103B2:26; 4:37; 14:226; 41:744–745
 Atlantis II Fracture Zone, 118A1:11
 Atlantis Bank, 118A6:89
 Baffin Bay, 105A4:67
 baked contacts, 127A7:369–380
 basal sediments, 107A6:169; 7:289
 basalt flows, 114A5:116; 115A4:126
 basaltic-rock differentiation, 127/128B(2)56:895–897
 basalts, 168A5:113–114; 179A1:11–12
 bathymetric highs, 102A3:108
 biostratigraphy, 192B1:4–5
 blocks, 135A(1)4:93
 boron as alteration product, 127/128B(1)26:639
 bottom water circulation, 111B8:88–89
 brecciation, 126A10:407; 127/128B(2)80:1296
 Cagayan Ridge, 124A11:255; 124B1:5–6
 calc-alkaline suite, 127/128B(2)83:1338
 calcium, 111A3:180
 carbonate contacts, 134B35:615
 Celebes Sea, 124A13:351, 384; 124B3:40–41
 Chagos Bank, 115A10:751–756
 chemical fluxes, 111B11:129–130
 chilled margins, 127A7:369–380
 clasts, 158B18:243–244
 composition, 103A10:448; 114A5:115; 6:153; 114B39:722; 125A2:6–10
 compressional wave velocity, 102A3:113, 118, 120–121
 continental crust, 180B3:3–4
 contour maps, 149A1:9; 161A6:186; 164A1:10; 173A6:110; 9:269
 convection, 102A3:96; 168B1:4
 cooling, 105A6:695–696; 111A4:255–256
 core-log correlation, 179B3:1–29
 coring operations, 123A4:74; 189A1:9–10; 192B7:21; 196A1:7–8; 200A1:5; 203A1:7; 206A1:3–6, 40, 103–104
 correlation, 180B1:7
 Corsica-Sardinia margin, 107A3:37
 Costa Rica Rift, 111A2:25–26

- Cretaceous, 192A1:6–7; 210A1:28–29; 210B9:33
 crust, 127/128B(2)70:1107–1121; 206A1:11
 crystalline structure, 103A9:281–282; 103B2:20–21,
 30; 4:38–42; 39:700; 45:817
 deformation, 125B30:529; 149A4:88–93; 7:237–241;
 173A6:138–144
 density, 102B3:34; 103A8:151, 155; 149A7:258
 depositional environment, 115B13:126
 depth, 111A4:265; 127/128B(2)70:1120; 161B25:339;
 173A4:102; 173B5:19; 180A3:16; 183A5:178
 digital imaging, 206A3:90–93
 downhole measurements, 206A3:93–97
 drilling rubble, 127A4:125
 electrical resistivity, 127/128B(2)84:1354
 emplacement, 107A6:168; 107B13:125–126; 38:634;
 115A4:125; 127A7:381
 erosion, 120A6:151
 eruptive history, 127A5:174
 extensional basins, 161A1:9–10
 fault-block tectonics, 123A4:248; 5:272
 flood basalts, 163X_A8:13–16
 fluid flow, 168A5:137–138; 202A1:25
 forearc basins, 126A1:6
 Formation MicroScanner imagery, 183A5:163–164;
 192A6:28, 91–96
 formation-water composition, 102B9:133
 fractionation models, 127/128B(2)54:872–874
 fractures, 127A5:217; 128A3:69
 Galicia Bank, 103B1:8; 2:19; 4:39; 44:800
 Galicia margin W, 103A1:3; 5:95; 8:123, 131, 134–
 140, 157, 161–162
 gas samples, 111A3:72, 78
 geochemistry, 107A7:289; 9:194–200; 111B3:36–37;
 119A6:187–188; 119B16:309–311; 124A19:262–
 268; 125B24:408; 126A8:269–271; 9:369–371;
 126B27:410–413, 418; 127A1:24–25; 4:123, 126;
 5:174, 219, 223; 7:325, 381–383; 127/
 128B(2)47:779–789; 49:805–817; 51:839;
 54:872; 56:892–894; 58:905–916; 83:1338–
 1340; 128A3:68–69, 96, 98; 129B15:291;
 131A6:150–159; 161B28:375–379; 183A1:35–
 36; 5:34–38; 200B1:8
 geochronology, 144B32:547–557; 161B21:295–305
 geological models, 123A5:272; 188A1:7–8
 Gondwana, 159B10:94
 Gortani Ridge, 107A10:884; 11:900–901
 grain size, 128A3:90–91
 Grand Banks, 103B44:798
 groundmass, 127/128B(2)52:849–859; 56:892;
 128A3:88–91
 heat flow, 149B44:675–682; 168A2:30–31; 173B3:1–4
 Hercynian, 103A10:423; 103B5:55
 highs, 102B1:9–10, 13
 horst-like structures, 112A20:921
 hydrology, 111A3:108
 hydrothermal alteration, 111B14:162–164;
 126B26:392; 158B19:255–276; 21:289–293
 hydrothermal circulation, 111A3:37; 111B8:94–95;
 11:130; 17:207–208
 hydrothermal deposits, 129B27:485
 Iberian Meseta, 103B42:767, 773
 igneous lithology, 102A3:102; 102B3:34; 9:138;
 107B3:37–38; 115A12:930–933; 125A:14:320–
 327; 125B9:146–149; 126A9:367, 369;
 127A4:73, 121–125; 5:174, 217–219, 221;
 7:369–380; 127/128B(2)47:779–781; 55:884;
 58:907–910; 128A3:68–69, 75, 86–95; 135B1:5;
 37:535–540
 igneous petrology, 103A10:423–425; 119A7:240;
 206A3:52–65
 igneous provinces, 183A1:1–101
 igneous rocks, 111A2:23, 30; 135A(1)5:203;
 143B31:501–509; 165A8:391–393; 165B19:293–
 294; 183A1:5–8, 34–36; 183B1:7–14, 25–27;
 191B1:3; 198A1:75–76
 igneous stratigraphy, 126A7:176; 9:362–367;
 126B27:408; 28:439–440; 128A3:95–97
 index properties, 173A6:153
 interaction with sediments, 169A5:221
 iron bacteria, 111A3:181
 irregular configuration, 107B38:626
 island arc tholeiite suite, 127/128B(2)83:1338
 Islas Orcadas, 114A12:801; 114B1:7, 9, 18–19; 39:721–
 722
 isopach maps, 102B1:11
 isotopes, 127/128B(2)47:779–789; 49:805–817;
 55:884–888, 83:1338–1341
 Izu-Bonin forearc, 125A15:367; 125B1:5; 126A8:223–
 224
 Japan Basin N, 127A5:169, 176–177
 Japan Sea, 127A2:24–25, 29; 128A1:32–33; 3:67
 Jeanne d’Arc Basin, 103B44:791
 Jurassic, 129B1:4, 27; 19:362–363; 24:447–454;
 144A9:319–321; 185A1:15–19
 Kerguelen Plateau, 120B(1)1:14; (2)47:883–884,
 48:903; 51:935–937; 53:951
 Kita-Oki Bank, 128A4:127–129
 Kita-Yamato Bank, 128A5:247–249
 Labrador Sea, 105A5:423
 lava flow units, 115A12:931; 197A3:156; 4:112–113;
 5:98; 6:7–14; 192A1:8–9
 lithology, 102B1:6; 10:137; 11:158, 170, 171, 172;
 105A6:676; 107A6:166; 7:325–326; 11:877;
 107B38:652–653; 111A2:48; 111B3:29; 10:116–
 117; 118A6:98; 118B10:203–204; 123A4:169,
 172–181; 123B30:557; 42:793; 124A11:257–262;
 13:359–369; 125A1:6–10; 125B11:203–204;
 12:211–213; 126A7:180; 9:366; 126B4:76;
 131A6:150–159; 160B54:745; 161A6:195, 224–
 226; 163X_A4:6; 167A(1)4:57; 5:92; 14:395;
 168A4:59–77; 5:113–133; 6:169–175;
 173A7:186, 215–217; 183A1:31–32; 5:29–30;
 185A3:10–12; 4:22–23; 187A15:3–7; 190A8:9;
 191A4:91; 192A3:11–12, 79; 5:6; 7:4; 196A3:30–
 31; 197A1:52, 61, 70; 3:55–56, 154; 4:45, 111;
 5:8–18, 39, 95–96; 203A1:9–13, 25; 203B2:12
 low-temperature alteration, 126A8:265
 lower Aptian, 192A6:9
 lower volcanic complex (LVC), 127/128B(2)47:780
 Luzon Strait, 124E_A15:99
 macroscopic characteristics, 115A5:261–263; 10:753–
 754; 12:930–933

- mafic rocks, 173A6:155–156
 magma, 127/128B(2)54:869–870; 83:1340–1341;
 128A4:96
 magmatic rocks, 107A3:57–58
 magnesium, 111A3:180
 magnesium oxide, 115B6:65
 magnetic data, 173A6:124; 183B12:3–4
 magnetostratigraphy, 152A11:224
 magnetic anomalies, 210B1:17
 magnetic polarity, 127/128B(2)59:936–938; 128A3:86
 magnetic properties, 111B13:149; 115A4:127; 12:927;
 115B11:111–116; 124A10:150–151; 11:229–231;
 125A10:212; 126A8:263; 127A4:174; 5:203, 209;
 7:358–359; 127/128B(2)59:933–945;
 128A4:101–102; 173A6:155–156; 183A5:47–48;
 6:55–56
 magnetic source bodies, 102A3:99
 magnetic susceptibility, 102A3:95; 102B1:171–173;
 115A12:934–935; 17:264; 127A5:174
 magnetic vs. biostratigraphic age, 123B36:662
 major elements, 127/128B(2)54:869–870; 56:893
 Mariana forearc, 125A15:367; 125B1:15
 mass balance, 169A3:99
 Meseta, 103B42:760
 Mesozoic, 160B54:734–736
 metamorphic lithology, 112A6:95–99
 metamorphic rocks, 159B12:120; 161B44:565–568
 metamorphism, 161B18:251–261; 19:263–279;
 20:281–294; 23:311; 44:576–577
 Meteor Rise, 114A3:31; 114B1:6–7, 9, 17
 microbiology, 206A3:85–87
 mid-ocean-ridge and backarc basin basalt compari-
 son, 127A4:126; 5:219
 middle volcanic unit (MVU), 127/128B(2)47:780
 mineralogy, 126A8:264; 126B27:409
 multichannel seismic surveys, 125A10:199
 natural remanent magnetization, 111A3:149–152
 nature and age, 198A1:15–16
 Nazareth Bank, 115A4:146
 neodymium isotopes, 127/128B(2)47:786–787
 neutron absorption cross section, 148B30:389–394
 neutron porosity logs, 102A3:114; 102B11:171
 Newfoundland-Flemish Basin, 103B43:781–782
 normalized composition, 127A1:25; 4:126; 5:223;
 7:383; 127/128B(2)52:850–853
 Northeast Georgia Rise, 114B2:23–24, 31, 33
 oblique seismic experiment (OSE), 102B8:102–104
 ocean–continent transition, 149B47:728
 oceanic crust, 148A2:32–34; 148B25:340–341;
 183A1:26–30
 Oki Islands, 128A4:127–129
 Oki Ridge, 128A4:127–129
 Ontong Java Plateau, 192A1:1–75
 opaque minerals, 197A4:116; 6:104–105
 origin and formation, 107A7:303; 115A5:233–237;
 124B1:8; 143B31:508–509
 original basement, 102B3:44–45
 Ortegá Spur, 103A7:107, 109
 outcrops, 139A2:11–12
 paleolatitude, 197A1:9–10
 paleomagnetism, 152B21:259–264; 183A4:24–26;
 7:48–49; 206A3:80–85
 Paleozoic, 103A5:85
 parent magma, 127/128B(2)52:855–856; 56:894
 peridotite ridge, 103B41:747, 749
 peridotites, 149A4:75–83
 permeability, 111A3:38
 Peru margin, 112A6:91
 petrography, 115A5:263–264; 12:934–936;
 123A4:179–189; 127/128B(2)52:849–850;
 56:891–892; 128A3:86–91; 131B16:197–199;
 183A5:30–34, 181–182; 200A1:12–13
 petrology, 120A8:265; 124B1:3; 4:58–59; 19:253–255;
 126A8:262–263; 126B24:362–367; 131A1:13;
 139A5:130; 191A1:14–15
 phenocrysts, 126A9:365; 127/128B(2)52:849–859;
 56:892
 photograph, 161A6:242; 191A4:92
 photomicrograph, 183A5:84
 physical properties, 102B3:42–45; 127A1:26; 4:135,
 139–140; 5:227–228; 127/128B(2)80:1282–
 1284, 1289–1291; 128A4:102; 161A6:241;
 192B7:1–33; 200B1:10; 206A3:87–90
 plutonic and metamorphic rocks, 103B13:210
 pore water chemistry, 111A2:30
 porosity, 103A8:151, 155; 103B11:172; 111A3:38, 92–
 93, 98–99, 166–167, 169
 present-day configuration, 125B38:624
 pressure-temperature conditions, 180B3:10–11
 Precambrian, 163X_A8:6; 182A1:5
 pre-Jurassic rocks, 178B8:5
 pre-Tortonian rocks, 107A3:55–57; 119A7:277
 primary mineralogy, 127/128B(2)56:891–892; 58:908
 radiogenic isotopes, 127/128B(2)49:807
 ray paths, 102B11:165
 reactions with seawater, 165B19:293–294
 recovery, 198A1:50–51; 9:5–6
 reflections, 103A8:151–154; 183A6:61
 regional context, 161A6:230
 relief, 168A1:9–10; 4:50–52
 resistivity-at-the-bit images, 196A3:59
 resistivity logs, 102B11:172–173; 106/109B16:206–
 210; 115A12:939
 rhyolitic rocks, 103A10:462
 rift systems, 107B38:623; 173A1:8–15; 210A1:5–6
 rock magnetism, 197A4:25–26
 SCREECH transect 2, 210A5:6
 sealing, 168B3:71
 secondary mineralogy, 111B3:29; 6:62–68; 127/
 128B(2)56:891; 58:908; 206B8:1–16
 sediment-igneous rock interlayers, 127A7:369
 sediment thickness, 102B1:17
 sedimentary cover, 161B44:562
 sedimentary units, 107A7:287
 sedimentation, 152A13:281–282
 seismic expression, 127A1:28–29; 4:143; 5:234–236;
 6:312–313
 seismic profiles, 125B1:8; 35:586; 126A1:6–7;
 139A5:103–104; 140A2:42, 44; 168A1:14–19;
 200A1:17–18; 210A1:26

- seismic stratigraphy, 115A12:937-938; 120A7:225-227; 124A10:180-181; 11:277; 194A1:47; 4:30
- seismic surveys, 210A4:11-12
- seismic velocity, 103A8:150
- Serravallian, 161B44:573
- sills and flows, 127A4:126-127; 127/128B(2)52:853-855
- Site 700, 114A7:304; 114B39:721-722
- Site 701, 114A8:364, 406; 12:801
- Site 734, 118A5:79, 87
- Site 747, 120A6:105, 151; 120B(1)1:21-22; (2)47:883-884
- Site 748, 120A7:225-227; 120B(1)1:23
- Site 749, 120A8:265; 120B(1)1:24-25
- Site 750, 120B(1)1:26
- Site 786, 125A14:339, 15:375, 377-378
- Site 794, 127A4:73, 120-127; 127/128B(2)52:849; 55:883-889; 56:891-894; 58:906, 927; 59:933; 70:1112-1113; 83:1336, 1339; 84:1354; 128A1:32-33, 36; 3:67-69, 86; 3:93-95
- Site 795, 127A5:174, 217; 127/128B(2)52:849; 58:906; 59:933; 83:1336-1339
- Site 797, 127A7:325, 369-383; 127/128B(2)52:849; 56:891-894; 58:906-908; 59:933; 83:1336, 1339-1340
- Site 800, 129A2:81
- Site 801, 129A3:91-170
- Snake Pit hydrothermal area, 106/109A5:144-147
- sources, 115A4:146; 124B22:316-319
- spidergrams, 127/128B(2)58:923-924, 926
- stratigraphy, 107B3:40, 41; 125B8:131; 10:173; 126A8:265; 126B27:421; 127/128B(2)54:871; 57:901; 129B19:383; 26:456; 137A2:24, 26; 185A1:48; 3:10-14, 67, 71-76; 4:21-23, 93-95; 206A1:71; 3:162-163; 206B1:15
- stress, 124A11:275
- strike-slip faults, 102B1:10
- strontium isotopes, 127/128B(2)47:786-787; 138B41:817
- structural and magnetic data, 173B8:34
- structural maps, 149A4:44; 188A1:35
- structural models, 125B14:275
- structure, 102B1:10; 117A11:319-320; 119B16:300; 120B(1)5:73-74; 127/128B(2)75:1181-1184; 128A4:91-93; 135A(1)4:110-112; 148B18:267-268; 29:384; 173A4:98-102; 6:150; 206A3:73-80
- subsidence, 105B52:998, 1003-1004, 1007; 120B(2)52:945; 124A5:87-88; 11:253, 255, 279; 124B1:5-6; 30:402-406; 126B42:630
- superfast spreading, 206A3:52-97
- synthetic seismograms, 183A7:55-56
- Takuyo Bank, 128A6:248-249
- tectonics, 114A12:798-799; 127/128B(2)83:1337-1341; 149B38:607-608; 161A6:209-230; 161B24:319-329; 25:331-344
- temperature, 106/109A7:182-186; 106/109B15:200, 202-203; 127A4:137
- thermal conductivity, 127/128B(2)80:1281
- thickness, 119A2:7; 127/128B(1)40:699-701; 192B1:4
- tholeiitic basalts, 197A4:18-19
- tilting, 149B47:722
- topography, 102B1:9-14; 11:157, 164; 105B48:896-897, 900; 49:924, 928; 117A5:55; 149B39:629
- trace elements, 127/128B(2)49:807; 206B6:1-10
- Tyrrhenian Sea, 107A7:326; 107B38:667
- ultramafic rocks, 103B4:42-43; 41:750
- underpressured region, 111A4:255
- upper structure, 102B4:50
- upper volcanic complex, 127/128B(2)47:780
- velocity anomalies, 102B8:110-111
- velocity vs. porosity, 127A4:140
- vertical motion history, 126B19:299-301
- vertical variability lack, 107A11:901
- volcanic rocks, 183A1:19-22
- volcanism, 152A5:49-50
- water content, 111A3:92-93, 98-99; 168A4:84-85
- water samples, 111A3:73, 76-77, 79
- well-logging, 102A3:111; 102B3:30; 7:77; 11:165, 173; 120B(2)58:1055-1056; 124A11:272-274; 13:379-381; 125A10:217, 220; 14:335; 127A1:28; 127/128B(2)80:1282; 128A3:86, 93-95, 103-104; 135A(1)4:164-169
- X-ray fluorescence data, 127/128B(2)56:892-894
- Yamato Bank, 128A6:247-249
- Yamato Basin, 127A4:72, 77-81, 7:331-334; 128A1:23-24, 32-33; 3:73-75, 117
- Yamato Rise, 128A5:247-249
- youngest ages, 135B51:827
- See also* igneous basement; sediment/basement contact; volcanic substrate
- basement, acoustic
- acoustic events, 102A3:107-108
- Alpine units, 107B38:716
- basalt-plateau penetration, 130A9:464
- Bengal Basin, 120B(1)2:38
- Bermuda Rise, 102A3:107-108
- Berriasian-Valanginian interval, 173A8:237
- crystalline rocks, 117A5:61
- depressions, 130B2:25-27
- depth map, 130B2:29
- geochemistry, 130B1:3-22
- heat flow, 173B3:4
- Hercynian, 107B2:35
- Juan de Fuca Ridge, 139A6:164-165
- Lima Basin, 112A5:77
- lithology, 107B38:629; 130A10:527; 130B1:4; 173A9:279
- magnetic polarity, 130A5:130
- Marsili Basin, 107B38:631
- Ontong Java Plateau, 130A1:12
- photograph, 194A4:59
- physical properties, 173A7:210-211
- reflections, 165A4:133-135
- Sardinian margin, 107B2:33; 38:618
- sediments, 183A1:23
- seismic facies, 194A5:30; 8:24
- seismic stratigraphy, 107B1:21; 130B3:36; 154A3:48; 183A4:29-30; 194A9:25
- stratigraphy, 130A9:452-454
- structure, 117A4:43; 130B2:23-31; 149A6:183-189
- tectonics, 149B39:625-627; 47:719-721
- topography, 194A1:63

- unconformities, 194A1:54–55
- Vavilov Basin, 107B38:629, 631
- Yaquina Basin, 112A15:471
- basement, basaltic
 - acid-leaching procedures, 121B31:592–593, 596
 - age, 121B28:526; 30:561; 39:811; 129B20:389–404; 135B14:221, 223
 - alteration, 123A4:189–190, 192–193
 - Amsterdam-St. Paul hotspot, 121B39:811
 - basalt flow units, 121A10:274
 - Broken Ridge, 121A1:5
 - Costa Rica Rift, 111A2:28
 - Cretaceous, 165A6:294, 327, 347
 - Galacia margin, 103B4:42
 - geochemistry, 121A12:393, 404; 15:526, 528; 121B31:594–595; 123A4:194–203; 123B10:204–206
 - incompatible element ratios, 121A2:527
 - intersite variations, 121A15:526, 528; 121B30:562
 - Japan Sea, 127/128B(2)53:861–868; 56:891–898
 - Kerguelen-Heard Plateau, 121A1:5
 - lithology, 123B10:201–203; 183A1:13; 192A1:12
 - macroscopic description, 121A10:273–275
 - magnetic properties, 121B39:792, 796, 798, 801; 123A4:200–203
 - magnetostratigraphy, 123A4:201–202; 195A4:32–33
 - major oxides, 121A11:327, 329, 335
 - megacrysts and gabbroic fragments, 123B10:201–204
 - mid-ocean-ridge normative basalts, 123B10:204–205, 210
 - mineral chemistry, 123B10:207
 - neodymium isotopes, 121B31:596
 - Ninetyeast Ridge, 121A1:5
 - Ontong Java Plateau, 130A10:524–527, 532
 - paleolatitude, 121B39:811
 - petrography, 123A4:191–192; 123B10:204
 - physical properties, 121A11:337, 339, 344; 123A4:203–206
 - radiogenic isotopes, 121A1:13–14
 - seismic profiles, 123A12:228
 - Site 765, 123A4:195–198
 - sources, 121B39:811
 - stress, 123A5:206–214
 - strontium isotopes, 121B31:593, 596
 - trace elements, 121A1:13; 11:330, 334
 - Tyrrhenian Sea, 107B9:129
 - upper Bathonian–lower Callovian interval, 129B36:675
- basement, continental
 - Sardinian margin, 107B38:629
 - Site 861, 141A8:290–291
- basement, crystalline, continental affinity, 112A14:364, 398
- basement, hydrothermal
 - deposition, 189A1:7
 - maturation, 139B35:568–569
 - seismic velocity, 139B37:597–612
 - Site 857, 139B44:700–704
- basement, igneous
 - bulk permeability, 139B39:622–623
 - demagnetization, 144B34:591–593
 - Paleocene–Eocene interval, 117A1:5
 - structure, 139B36:573–583
- basement, magnetic
 - depth estimates, 121B34:683–684, 687–689, 692
 - sediment thickness, 121B34:683–684
- basement, metamorphic
 - Beacon Supergroup (Antarctica) correlation with Permian Amery Group, 119B45:795
 - Beaver Lake kaolinite, 119B6:114
 - erosion with rift onset, 119B1:20
 - metasedimentary strata, 119B5:65–66
 - Phanerozoic, 119B1:7
 - Precambrian age, 119B2:33, 36–37
- basement, oceanic
 - chemical alteration, 123A4:247–248
 - crust, 205A2:11
 - fluid flow, 205B6:9–11
 - fracture density, 205B13:1–22
 - oxidative alteration, 123B9:196–197
 - potassium-argon dating, 123B43:805
 - Site 765, 123B42:791
 - vertical seismic profiles, 178B17:23
- basement, ophiolitic, seismic profiles, 117A13:420; 14:442; 15:468; 16:495–496; 17:548, 556
- basement, rhyolitic, Eocene, 135B20:313–329
- basement, serpentinized, 210B9:20–21
- basement, serpentinized ultramafic, 210B9:5–6
- basement, silicic, pre-late Eocene, 135B38:633–643
- basement, volcanic
 - basalt flows, 163X_A8:6–11
 - depth, 165B13:219–224; 165B13:219–224
 - geochemistry, 126B27:419, 421, 424–425; 126B31:483
 - geochronology, 165B15:233–236
 - igneous stratigraphy, 126B27:405, 419
 - initiation, 123A1:7–8
 - lithology, 123A4:64; 123B42:792; 126B42:634; 163X_A6:6–19; 7:3–4
 - magnetic anomalies, 123B43:804
 - petrography, 126B28:432
 - petrology, 134B18:363–373
 - photograph, 163X_A6:33
 - seismic profiling, 123A1:4, 66; 123B31:567; 43:804
 - Site 765, 123B4:91–92
 - stable isotopes, 126B27:421–422
 - stress, 123A3:50–52
- “basement,” volcanic
 - comparison with terrigenous sedimentation, 183B7:31
 - petrology, 143A7:221–222
 - refraction velocity, 119A6:161
- basement depth
 - alteration, 168A4:70–77; 5:103, 124, 126–133; 6:162, 173–175
 - basalts, 168A5:113–114
 - contour maps, 161A9:393
 - convection, 168B1:4
 - fluid flow, 168A5:137–138
 - heat flow, 168A2:30–31
 - lithology, 168A4:59–77; 5:113–133; 6:169–175
 - relief, 168A1:9–10; 4:50–52
 - sealing, 168B3:71

- seismic profiles, 168A1:14–15, 17–19
- water-rock reactions, 168A4:84–85
- basement recovery, vs. depth, 192A5:95–96
- basement relief
 - magnetic anomalies, 149B5:159; 43:670–671
 - ocean–continent transition, 149B47:726
- basement ridges
 - gabbros, 210A1:32–33
 - lithology, 173A8:228–234
- basement/sediment contacts
 - deformation, 161A6:210–211
 - domains, 141A9:324–325
 - fluid circulation, 126B41:619
 - internal boundaries, 183A6:183
 - Juan de Fuca Ridge, 139B42:671–675
 - photograph, 183A6:89–100, 103–123; 195A4:83
 - photomicrograph, 183A6:101–102, 125–131
 - seismic profiles, 126B39:580
 - serpentinization, 173A9:290
 - sonic velocity, 126A8:284
 - well-logging, 126A8:289
- basement units
 - alteration, 183A6:50–52; 9:16–22; 197A3:24–28
 - boundaries, 183A8:122; 192A3:158; 7:57
 - characteristics, 203A3:77; 203B1:13
 - chemical composition, 183A7:132
 - clast rounding, 183A7:76
 - contacts, 183A7:192
 - geochemistry, 183A5:47–48; 203B2:5–8
 - internal textures, 183A7:76
 - lithology, 183A5:6–8, 13–27; 6:23–47, 50–52; 7:14–35, 44–47; 8:13–15; 9:12–22, 39–35; 192A1:22
 - magnetic inclination, 183A9:37
 - major elements, 183A7:39; 8:110
 - median destructive field, 183A8:24; 9:37
 - mineralogy, 183A5:47
 - petrography, 183A6:47, 187; 7:37–39, 196–197; 8:109; 9:24, 129
 - photograph, 183A6:99–100, 103–123; 7:98–106; 9:49, 51, 54–80; 192A1:63
 - photomicrograph, 183A9:81–90
 - remanent magnetization, 183A9:37
 - secondary minerals, 183A6:190
 - summary, 183A7:189; 183B14:22; 203B1:3–5
 - thickness, 183A8:108; 9:126–127
 - trace elements, 183A7:39; 8:110
 - true dip, 183A6:191
 - vs. depth, 192A1:61, 68, 71; 5:43; 6:62–65; 7:24
 - well-logging, 183A8:30–32; 197A3:43
 - X-ray fluorescence data, 183A7:198–200; 8:110; 9:130
- basic volcanic rocks. *see* volcanic rocks, basic
- Basidiomycete*, funginite, 180B10:7
- basin facies, lithofacies, 131B27:332–333
- basin infills
 - alteration, 157B38:619–634
 - history, 157B30:529–531
- basin margins, paleoclimatology, 184A1:14
- basin plain deposits, sorting, 146B(1)1:11–13
- basins
 - basement tectonics, 149B38:607–608
 - correlation, 152B41:520–521
 - crust, 152B41:521–522; 180B3:1–28
 - debris flows, 149B47:719–721
 - deposition, 161B7:95
 - Early to mid-Cretaceous, 160B54:726
 - evolution, 133B51:756–757; 157A2:23–24; 180A3:4–5; 184A1:13–14
 - extension tectonics, 159B10:96
 - genesis, 152A13:282–283
 - geology, 160B54:737–738
 - geometry and kinematics, 161B44:576
 - Late Triassic, 160B54:725
 - marginal ridges, 159B4:41
 - Messinian, 161B43:543–551
 - oceanography, 169S_A2:15–16
 - onlapping fills, 178A7:24–26; 178B34:3
 - origin and tectonic history, 161B44:555–580
 - paleobathymetry, 161B5:73–75
 - paleoecology, 173B7:6–8
 - paleoenvironment, 159A6:175–176; 178A7:9–10; 178B34:3
 - palygorskite, 159B15:148–149
 - preglacial sedimentary basin fillings, 163X_A8:5
 - rifting, 149B40:636–645
 - sedimentary succession, 166A10:304–305
 - sedimentation, 146B(2)22:303–304
 - sediments, 180B6:20–24; 184A1:7–8
 - seismic units, 188B8:5
 - strike-slip faults, 161B26:348–352
 - tectonics, 149B1:8–9; 39:625–627; 160A4:56–58; 160B52:704; 181A1:4
 - terrains, 161B44:557
 - thin-skin tectonics, 149B1:13–15
 - ventilation paleoclimatology, 146B(2)23:318–323
 - See also* depressions; extensional basins; forearc basins; paleorift basins; pull-apart basins; sedimentary basins
- basins, backarc
 - basalts, 107B5:81, 92; 135B26:471–485; 33:565–584
 - crust, 135B4:55
 - evolution, 107A1:5; 135B2:9–21; 25:429
 - extensional basins, 161A1:5–11
 - formation, 107B1:4; 5:75; 131A1:6
 - geochemistry, 135B24:385–425; 25:433–455; 35:595–602; 36:603–613; 43:689–707
 - geological setting, 135A(1)1:9–11; 135B51:819–828; 193A1:1–84; 195A1:23–27
 - geophysical setting, 135A(1)1:7–9
 - hydrogeochemistry, 135B42:677–688
 - hydrothermal circulation, 126B38:555, 557
 - Izu-Bonin arc, 126B38:557
 - late Eocene–middle Miocene, 207A5:24
 - late–middle Eocene, 207A7:24
 - Lau Basin, 135A1:5–47; 135B5:75–86
 - lithology, 161A4:62
 - New Hebrides island arc, 134B2:21–23, 28, 34
 - Northeast Georgia Rise, 113B2:31–32, 35, 38
 - opening, 135B28:505–517
 - petrology, 134B18:363–373; 135B55:879–905
 - reduction halos, 135B10:159–161
 - seafloor depth, 107A8:407

- sedimentation, 126B1:3; 135B3:26; 22:367–371;
 52:829–842
- seismic reflection, 135B56:909–917
- site maps, 135A(1):7
- tectonics, 134B2:21, 26; 135A(1):11; 135B18:287–
 299; 191A1:5
- uplifts, 134A3:39–41
- vein structures, 126B13:205
- basins, forearc
 - Chile margin triple junction, 141A7:222–229
 - cross section, 186B1:14
 - deformation bands, 141A7:200–201
 - deposition, 135B6:99
 - diagenesis, 141B11:160–161
 - environment, 180A6:32
 - evolution, 135B12:178–188; 25:454; 141B13:184–185
 - felsic rocks, 135B40:653–663
 - genesis, 135B53:853–855
 - onshore–offshore structures, 112A6:92; 112B5:60
 - paleoclimatology, 186B6:6–7
 - Peru margin, 112A3:55; 5:78; 112B4:44
 - sediments, 141B11:154
 - seismic reflection, 135B56:917; 141A2:15–19
 - subduction plate coupling, 186B1:1–27
 - subsidence history, 112B30:491
 - tectonics, 135B18:287–299; 20:313–329
 - thaumasite, 135B39:647–651
 - unconformities, 180A1:6
 - upwelling oceanography, 112A1:11–16
 - volcaniclastics, 141B10:133–151
- basins, intra-arc
 - crust, 134B31:559–562
 - evolution, 134A1:11–16; 14:564
 - origin, 134B35:610
 - paleomagnetism, 134B28:501
 - petrology, 134B19:375–392
 - physical properties, 134B29:527–528
 - stratigraphy, 134B4:59–69
 - tectonics, 134A14:576; 134B2:27–31; 24:431–444
- basins, marginal, Messinian evolution, 161B43:547
- basins, piggyback, accretionary, 146A(1):8:384–387
- basins, rolling, Cenozoic, 150X_B27:364–368
- basins, slope, accretionary, 146A(1):8:384–387
- basins, starved, lithology, 152A11:208
- basins, syntransform, transform faults, 159A9:299–305
- basins, transtensional, tectonics, 124B3:39
- basins, trench slope
 - sedimentation, 141B10:141
 - sediments, 141A7:222–229; 141B7:98–100
 - turbidity currents, 131B3:35–43
 - volcanogenic sediments, 141B12:169–180
- bastite
 - bathymetric chart, 149A1:6
 - chrysotile and talc association, 106/109A8:213
 - clasts, 173A7:189–190; 9:282–283
 - hydrothermal alteration, 209A5:12; 209B4:3–4
 - photograph, 149A4:79; 153A3:81, 88, 97; 153B3:41,
 48; 173A7:190; 9:281; 210A4:14
 - photomicrograph, 147B14:289; 209A3:60, 77, 99;
 5:57, 105; 7:61, 82; 9:61
 - serpentinization, 149B32:543; 153B3:38–39; 20:382;
 173A7:192–193; 9:280–282
 - textures after orthopyroxene, 147A4:131
 - ultramafics, 209A3:11
- bastite, protogranular orthopyroxene, 209A5:130
- bastite, serpentine, photomicrograph, 209A3:99–100
- bastitic texture. *See* textures, bastitic
- Batesfordian, biostratigraphic datums, 182B3:18
- Bathonian
 - interflow sediments, 129B32:581
 - lithology, 129B14:268; 185A3:7
 - rifting phases, 210B1:8
- Bathonian, lower, palynology, 173A4:104
- Bathonian/Callovian boundary, biostratigraphy,
 129B20:396
- Bathonian–Callovian interval
 - lithology, 129A3:104–106; 129B23:437
 - paleomagnetism, 129B23:436
 - photomicrograph, 129B3:108–110
 - Site 801, 129A3:91–170
- bathyal environment
 - biostratigraphy, 146B(1):5:102; 181A3:16–17;
 182A1:26, 34, 37, 40; 8:17–18; 10:18–20; 12:15–
 16; 183B2:6–7; 189A3:28; 6:27, 33; 7:28;
 189B3:11; 194A4:16–17
 - deposition, 188B4:9–10
 - Eocene–Oligocene interval, 189A7:24–25
 - indicators, 130B5:72–75
 - lava flows, 183A8:5
 - lithology, 178A4:6; 181A4:8–15; 183A6:10; 7:8; 8:7;
 194A5:7
 - Oligocene, 189B1:15, 21
 - paleoenvironment, 181A7:25–26
 - sedimentation, 182A1:17
 - sediments, 194A8:13
 - Upper Cretaceous, 160B32:408
- bathyal sedimentation. *See* sedimentation, bathyal
- bathymetric barriers, paleoceanography, 162B11:174–
 175
- bathymetric gradients, paleoceanography, 172B(over-
 view):5–6
- bathymetry
 - accretionary prisms, 156A2:13–16
 - acoustic basement, 165A4:134; 6:294
 - Allison Guyot, 143A2:15; 6:114, 116; 143B30:481;
 31:502
 - Amazon Fan, 155A1:8–9
 - Atlantic–Arctic Northern Gateway, 162A1:17
 - Atlantis II transform fault, 179A1:14; 4:74; 179B(syn-
 thesis):58–60
 - Atlantis Bank, 176A1:6, 45–46; 176B5:33; 179A4:77
 - Australia NE, 133B58:823, 836–845
 - benthic species, 129B12:231
 - Broken Ridge, 183A1:55
 - Caribbean plate, 171A_A1:7
 - Caribbean Sea, 165B17:253
 - Cascadia continental margin, 204B3:12
 - Ceara Rise, 154A1:5–6; 3:39–41
 - Central Hill (Juan de Fuca Ridge), 169A6:262
 - channels, 155A3:26–27, 32, 35
 - Chile margin, 141A2:13; 3:33–34

- Chile Ridge, 141A8:242
 Chile triple junction, 141A1:8; 7:228; 9:304
 Cocos plate, 206B11:8
 collision zones, 134A1:12
 continental margin, 163A1:8
 continental rise, 189A1:7–8
 contours, 164A1:10
 Cook-Austral Islands, 144B35:608
 cross sections, 135B4:58
 currents, 181A1:6
 data quality, 102A2:7
 Demerara Rise, 207A3:3, 5
 Detroit Seamount, 145A5:124; 6:212; 145B38:582
 drill intersections, 169A6:271
 drilling sites, 139A1:6
 East Pacific Rise, 142A2:33
 embayments, 188A1:5
 Emperor Seamounts, 197B6:6
 environmental hazards, 167A(1)12:315
 extensional basins, 161A1:9
 Faeroe Islands, 151B1:13
 geology, 169A1:13
 geophysical surveys, 180A2:1–20
 Hawaiian arch, 136A3:28, 32
 Heezen Guyot, 143B29:465
 hemipelagic mud, 168B5:51
 Hess Deep, 147A1:8–9; 147B28:464
 Horizon Guyot, 143B29:466–467
 Hydrate Ridge, 204A1:51; 204B1:26; 3:13; 10:9
 hydrothermal circulation, 168A1:9
 hydrothermal fields, 158A1:6–7; 2:16–18; 158B1:6;
 11:131
 Iberia Abyssal Plain, 149A3:35–37; 149B1:22;
 173A1:9, 13; 4:67; 6:111
 Jacqueline Guyot, 143B29:458–461
 Juan de Fuca Ridge, 139A2:18
 Kane Fracture Zone, 153A1:8
 Kerguelen Plateau, 183A1:52
 Lau Basin, 135B4:71
 lead isotopes, 158B8:105
 Limalok Guyot, 144B33:569
 maps, 147B6:115; 148A3:125; 165A6:300; 170A3:49;
 170B5:26; 178A1:29; 2:33; 4:43; 5:38; 6:24;
 7:28–29; 8:25; 9:28; 178B(synthesis):33;
 185A1:37; 4:53, 58; 189B1:28; 190A2:10; 190/
 196B4:17; 191A5:22, 25; 192A1:36; 3:44; 4:29;
 5:28; 6:32; 7:15; 192B1:14; 5:13; 7:12;
 193A1:34; 193B1:51; 2:15; 194A1:61–63;
 195A1:34; 195B1:26–28; 198A11:7; 198B1:26;
 205A1:42–44; 205B1:39; 7:25; 8:15; 10:7; 14:15;
 206A4:11, 23, 35, 47
 Marshall Islands, 144A5:147
 Mid-Atlantic Ridge, 209A1:78–79; 209B1:25; 3:7; 4:10
 Mid-Pacific Mountains, 143A1:10–11; 143B29:434–
 437; 31:498–499
 Middle America Trench, 170A1:16
 Middle Valley (Juan de Fuca Ridge), 139B1:4; 2:20;
 3:30; 169A3:38; 4:157
 Nankai Trough, 131A1:10, 16
 New Hebrides island arc, 134A1:7; 12:389
 New Jersey margin, 150A1:7; 5:47–48; 174A_B7:11
 Newfoundland margin, 210A1:47; 5:9–10; 210B1:47;
 2:16; 8:22; 9:42; 13:36; 14:20; 15:18
 Nordic seas, 162A1:6–8, 10
 Norwegian-Greenland Sea, 151A1:7–11; 2:47–48;
 13:398–399
 observatories, 200A4:75
 oceanic plateaus, 130B3:36
 Ontong Java Plateau, 130A1:6, 10; 3:46; 4:77, 81;
 5:104; 7:225; 8:293; 9:372; 10:498–499;
 130B2:24
 Pacific Ocean, 129A2:35; 3:94; 4:172; 129B31:561;
 134A1:6; 14:562
 Pacific Ocean equatorial, 138A3:43, 55, 57
 Palmer Deep, 178B34:13
 Patton-Murray seamount platform, 145A8:337;
 145B16:249; 38:583
 Pedro Channel, 165A5:234
 physiography, 180B(synthesis):28
 Pigafetta Basin, 129B5:151
 profiles, 177A3:17
 Prydz Bay, 188A1:31; 188B14:17
 Renard Guyot, 143B29:462–464
 residual depth anomaly, 187A1:46
 Resolution Guyot, 143A2:17; 7:184, 191; 8:275;
 143B19:306; 28:420
 rough basement transect (Juan de Fuca Ridge),
 168A5:103
 SeaBeam maps, 134A2:21, 23, 25
 seamounts, 160A1:8–10; 160B53:710
 seismic profiles, 133B27:396–397
 seismic refraction, 142A2:39
 seismic surveys, 178A1:46
 Shatsky Plateau, 132B1:6
 shipboard data, 131A3:21
 Sio Guyot, 143B29:464
 Site 463, 143B28:421
 Site 800, 129B37:695
 Site 801, 129B37:695; 185A3:65
 Site 802, 129B37:695
 Site 828, 134A8:140–141
 Site 833, 134A13:481–482
 Site 834, 135A(1)4:90–91; 135B7:103
 Site 835, 135A(1)5:183–184
 Site 836, 135A(1)6:249–251
 Site 837, 135A(1)7:292–293
 Site 838, 135A(1)8:340–341
 Site 839, 135A(1)9:401–403
 Site 840, 135A(1)10:496
 Site 841, 135A(1)11:577–579
 Site 848, 138A(2)13:680
 Site 849, 138A(2)14:738
 Site 850, 138A(2)15:812
 Site 851, 138A(2)16:894
 Site 852, 138A(2)17:970
 Site 853, 138A(2)18:1026
 Site 854, 138A(2)19:1066
 Site 855, 139A5:104–105
 Site 856, 139A6:166
 Site 857, 139A7:290–291
 Site 858, 139A7:436
 Site 859, 141A6:77

Site 863, 141A10:346
Site 871, 144A3:46–47
Site 872, 144A4:107, 111
Site 878, 144A10:338; 144B16:313
Site 882, 145A4:88
Site 906, 150A10:311
Site 920, 153B1:8
Site 964, 160A5:87–88
Site 994, 164A6:102, 104
Site 1037, 169A5:206
Site 1046, 171A_A5:60
Site 1047, 171A_A6:80
Site 1048, 171A_A7:96
Site 1094, 177A9:21
Site 1165, 188A3:10–11
Site 1205, 197A5:33
Site 1236, 202A7:23
Site 1238, 202A9:27
Site 1244, 204A3:44
Site 1245, 204A4:35
Site 1246, 204A5:21
Site 1247, 204A6:27
Site 1248, 204A7:25
Site 1249, 204A8:36
Site 1250, 204A9:31
Site 1251, 204A10:39
Site 1252, 204A11:22
Site 1256, 206A1:49–52; 3:108
Site 1268, 209A3:53–56
Site 1269, 209A4:7–9
Site 1270, 209A5:50–52
Site 1271, 209A6:41–43
Site 1272, 209A7:39–41
Site 1273, 209A8:5–7
Site 1274, 209A9:32–34
Site 1275, 209A10:45–47
Site ALIJOS, 206A1:52
Site GUATB-01, 206A1:51
Site GUATB-02, 206A1:50; 3:111
Site GUATB-03, 206A1:49; 3:110
Sites 834 and 835, 135B2:13
Sites 836 and 837, 135B2:16
structures, 160A14:466–467
submersible observations, 134A4:46–47
subsidence, 149B39:628–629
Taitao Ridge, 141A1:9
Takuyo-Daisan Guyot, 144A11:416
Tanner Basin, 167A(1)8:180
Tasmanian Gateway offshore regions, 189A1:68
tectonic windows, 153B4:63–64
tectonics, 161B26:351
three-dimensional images, 202A5:18; 6:20
transform faults, 159A3:47–48, 61
turbidity currents, 155B4:58–59
underway geophysics, 143A3:32, 36–37
Vancouver Island margin, 146A(1)10:408
Walvis Ridge, 208A1:52–54
water circulation, 168A4:50–52
Wodejebato Guyot, 144A5:151; 6:214, 216;
144B33:571
Woodlark Basin, 180A1:33, 40; 2:12

See also paleobathymetry
bathymetry, multibeam
contour maps, 206A4:10, 34, 46
SCREECH Transect 2, 210A5:1–36
tectonics, 190A2:3
bathymetry, swath
Chile margin, 202A1:122
Site 1236, 202A7:24
Site 1237, 202A8:30
Site 1238, 202A9:28
Site 1239, 202A10:27
Site 1240, 202A1:135; 11:23
Site 1241, 202A12:23
Site 1242, 202A13:20
Bathymodiolus, seamounts, 195A1:4
beach deposits
sand provenance, 146B(2)5:63, 66–69
sedimentation, 143A8:288
beach facies, well-log units, 194A7:35–36
beach sand
petrography, 161B3:42–51
photomicrograph, 161B3:56
beach sedimentation. *See* sedimentation, beach
bead contamination test, comparison with perfluorocar-
bon tracer, 201A1:78
bed structures, internal, sediments, 129B6:159
bed thickness
columns, 155A6:94–95; 7:129–131; 8:180; 9:206–207;
10:245; 11:282–283; 12:326–327; 13:389;
14:414–415; 16:468; 18:543; 19:572; 20:596–
597; 21:639; 22:660; 155B4:55
exponential decline, 180B9:25
impedance logs, 188B10:27
log-log plots, 155B2:28
logarithmic tendency, 180B9:24
statistics, 155B2:27, 29–31
turbidites, 155B5:82, 88; 180B9:1–30
vs. depth, 157B28:483–485
bed thickness/maximum particle size ratio, 126B5:97, 99
bedding
blue tuff, 127/128B(1)8:117
chalk, 133A(1)8:259
clasts, 160B45:583
color banding, 127A5:186, 189
core-log integration, 166A6:100, 104
décollement zone, 170A7:229
deformation, 159A9:309; 170A3:60
dip, 127/128B(2)75:1176, 1178; 131A6:135–136;
131B8:111; 29:370–371; 135A(1)8:358;
146A(1)4:77–78; 6:261; 7:325–326; 159A5:98,
121–122; 8:279; 159B3:8; 173A4:100, 102; 7:197
domains, 141A10:374
fine layers, 129B6:159
folding axis, 180B25:114
Formation MicroScanner imagery, 134A12:452;
160B40:521; 180A8:110; 180B24:6; 25:20
histograms, 152B37:446–447
lava, 163A3:26–27
Lingayen Gulf, 124E_A13:76
lithofacies, 160B32:408

- lithology, 146A(1)5:173–175; 154A4:60–61;
155A17:508–509; 170A6:197–198;
171A_A7:100; 173A4:84–85; 6:110–114;
178A7:5–6; 180A5:11–18; 6:25; 8:11–12
- magnetic anisotropy, 146B(1)14:237, 240, 243, 247,
252, 254
- Messinian–Pliocene interval, 160B36:458–459
- metasediments, 173A8:246–247
- ooze and chalk, 159A5:97–98
- orientation, 135A(1)6:260; 9:419; 135B20:323–326;
141A8:262; 156A6:116, 129
- parallel slip, 126B13:205–206
- photograph, 135A(1)7:302; 144A10:354; 152B10:131;
160A7:184; 162A3:66; 6:186–187; 9:305;
173A4:91; 8:231; 180A6:106; 8:70; 190A5:54;
191A4:64
- photomicrograph, 173A8:251
- porcellanite, 159A7:238–239
- projection, 135A(1)5:201; 9:418; 141A7:191; 8:270;
9:328; 10:391–392; 146A(1)5:173–174;
160A4:75; 190A4:50; 6:37; 7:32; 9:38
- sedimentary wedges, 170A4:109–113
- sediments, 205A4:35–36
- shear zones, 180A8:26
- structural data, 159A6:185–186; 7:238–239; 8:278;
160A10:358–359; 12:431; 13:458; 14:481, 492;
160B40:520; 161A8:373–374; 169A3:107–112
- structural domains, 156A6:117; 170A5:162; 7:223–
226; 180A9:29–31
- underthrust section, 170A4:114–115
- velocity anisotropy, 130B40:669–670
- viscous remanent magnetization, 173A6:136–138
- vs. depth, 156A6:116; 171A_A6:78; 190A9:37
- well-logging, 171A_A3:29–31
- See also* chaotic bedding; cross bedding; cross lamina-
tions; cross stratification; disconformities; flaser
bedding; laminations; lithified layers
- bedding, contorted
- basement, 183A6:23
- lithology, 162A3:61; 10:353–356; 168A5:110;
177A4:7; 183A3:4–5
- photograph, 150A6:75; 155A7:134; 9:211; 16:469;
20:598–599, 601–603; 162A10:361; 177A4:36;
190A8:35; 192A5:39; 210A1:66; 3:222
- structure, 190A6:9–10, 35–39, 75; 210A3:168
- turbidites, 190/196B3:4
- bedding, convolute
- Bonin-Mariana region, 125A2:22
- chalk, 133A(1)8:257
- claystone, 159A6:188
- Conical Seamount, 125B36:603–605
- Lima Basin C, 112A11:172, 175
- lithology, 135A(1)10:510–512; 135B6:88; 139A7:452;
155A8:178–180; 157A10:507; 166A7:156; 8:178;
10:301; 171B_A4:112, 116; 178A9:7; 180A5:15–
16; 184A9:8; 189A3:12–13; 204A7:5; 9:6–7;
10:5; 11:4–7
- photograph, 157A9:446; 159A5:102; 171B_A5:184,
187; 175A13:397; 197A1:51; 210A1:67; 3:49,
196, 205, 217–218, 225, 230
- rheology, 159B2:17
- sandstone, 159A5:101
- sediments, 159A7:240–241; 159B2:16
- textures, 174A_B3:4, 9
- turbidites, 131A6:85; 135B6:97; 53:846
- vitric sandstone, 135A(1)11:590
- bedding, cyclic, lithology, 154A4:60–66
- bedding, deformed
- lithology, 182A6:5–6; 8:6–7
- photograph, 182A6:49–50; 192A4:51
- bedding, folded
- lithology, 151A7:166–171
- photograph, 146A(1)7:330; 151A7:170; 155A20:601
- bedding, flaser
- photograph, 144A10:355; 171B_A5:188; 184A9:59
- Pigafetta Basin, 129B6:159
- bedding, graded
- lithofacies, 155A4:80, 82–84
- photograph, 155A10:544; 12:328–329; 21:641–644;
22:661–662
- bedding, hemipelagic, photograph, 167A(1)4:56
- bedding, inclined
- contacts, 129B6:156
- deformed, 182A4:51
- dip and direction, 192A4:8
- Formation MicroScanner imagery, 129B3:89; 6:157,
159
- lithology, 192A4:7–8
- Lower Cretaceous, 129B36:686
- orientation, 192A4:8, 53
- photograph, 192A4:49
- vs. depth, 192A4:38
- bedding, laminar
- lithology, 135A(1)10:509–511
- vitric siltstone, 135A(1)11:592–593
- volcaniclastics, 135B52:833–834
- bedding, lenticular
- photograph, 159A8:268
- Site 688, 112A20:888
- bedding, overturned, lithology, 180A12:9
- bedding, prifert, orientation, 180B25:89
- bedding, slumped, turbidites, 190/196B3:4
- bedding, steepened, occurrence, 131A6:113–114
- bedding, synrift, orientation, 180B25:90
- bedding angle
- shear bands, 131A6:133
- vs. acoustic anisotropy, 131B18:229
- bedding azimuth, vs. depth, 159B9:85, 87, 89
- bedding contacts, photograph, 208A6:47
- bedding dip
- clastic wedges, 159B2:19
- compressional wave velocity, 156B8:120–122
- Formation MicroScanner imagery, 180A6:211;
180B24:6, 34–37; 25:58
- histograms, 180A5:67; 6:208
- lithology, 173A4:84–86; 190A9:9
- Lower Cretaceous, 159B2:16–17
- magnetic fabric, 159B20:196
- number, 180A6:137, 139
- photograph, 155A20:602; 21:644; 179B3:19
- resistivity-at-the-bit images, 196A4:19–20

- sediments, 159B2:16; 187A8:10; 190A6:9, 35;
205A5:21
Site 1114, 180A8:21, 26, 68–69, 83, 87, 111–117;
180B24:22
Site 1115, 180A9:96–99; 180B25:86, 109
Site 1116, 180A10:44, 49, 53
Site 1118, 180A12:97; 180B25:31
stereographic projection, 205A5:65, 67
structural domains, 149A4:83–84; 156A7:213
structures, 180A1:56; 5:20–23; 12:28; 196A1:6–7
vs. age, 159B1:9
vs. depth, 149A4:84; 156A7:214; 156B8:122; 159B1:9;
9:85, 87, 89; 171A_A6:88; 173A6:142; 7:199;
8:250; 180B24:33; 190A4:48–49; 5:49; 6:35;
7:31; 190/196B9:12; 196A3:55; 4:48; 205A4:120;
5:65, 67
- bedding orientation
cores, 141A7:191, 193
paleomagnetism data, 141A7:184
sediments, 156A7:215
- bedding-plane hypothesis, sectional preservation,
130A10:521
- bedding planes
anisotropy of magnetic susceptibility, 186B16:5–6
dip, 134B24:432; 186A1:14; 5:96
fabric, 160A12:428
Formation MicroScanner imagery, 134B34:596, 598,
603; 159B9:88
lithology, 152A8:93; 160A8:220–222; 185A4:15–16
magnetic foliation, 186B16:17–18
orientation, 186A4:175; 5:40, 96, 125; 205A4:122
photograph, 146A(1):6:250; 160A12:426; 180A8:50;
185A4:80
photomicrograph, 207A5:50; 207B2:29
projection, 131A6:140–145; 160A10:359; 13:459;
14:481
sediments, 186A4:65
structural data, 134A7:115; 160A4:63–64; 5:136;
192A3:32
vs. depth, 134A12:454–455
- bedding strike, vs. depth, 196A4:48
- bedding thickness, lithology, 174AX_A1:18
- bedrock, Precambrian rocks, 119A1:8
- Beggiatoa*, bacterial mats, Site 1249, 204A8:13
- beidellite
alteration, 129B22:425
basement secondary minerals, 206B8:2–3
diagenesis, 156B1:27
Formation MicroScanner imagery, 160B47:619
Marsili Basin, 107B19:316
mineral chemistry, 152B34:421
Site 782, 125B7:120
Site 786, 125B7:124
slope-apron facies, 190/196B4:5–6
Tyrrhenian Sea, 107B19:309, 311, 313
- beidellite, magnesium, Site 786, 125B7:124
- beidellite-nontronite series
chemical composition, 104B20:401–403
X-ray diffraction data, 104B20:399–402
- belemnites
biogeography, 123B22:446–448
- Boreal/Tethyan affinities, 123B22:446; 39:751
homeomorphy, 123B22:446
Indian Ocean E, 123B22:443–445
Indonesian affinities, 123B22:446–447
lithology, 171B_A6:258
Mediterranean vs. Indo-Pacific provinces, 123B22:446
preservation, 123B22:445–446
pseudo-apical channel, 123B22:446
sandy silt/clay, 123B4:95
Site 765, 123A4:129; 123B1:9
Site 766, 123A5:297
- Benioff Zone
Andean margin, 112A1:5
collisions, 134A1:5
configuration, 112A1:21
deformation, 141A3:30
Peru margin and associated volcanic gaps, 112B5:75
tectonics, 134B2:20, 24, 28
See also Wadati-Benioff Zone
- Bennettitales, pollen, 183B3:8
- benthic environment, sedimentation, 182A1:17
- benthic extinction event
biostratigraphy, 208A3:11, 16; 6:13, 19; 7:17–18; 8:19
See also Paleocene/Eocene boundary benthic extinction event
- benthic fauna, hydrothermal fields, 158A1:8–9
- benthic foraminifers. *See* foraminifers, benthic
- benthic oxygen isotope events, 130B19:337
- bentonites
age, 123B4:95
background sediment association, 123B4:97–98
classification, 123B4:91
clay minerals, 156B1:17
color and chemical composition, 123B4:94–95
definition, 123B4:89
geographical and structural setting, 123B3:94–97
horizons, 123B4:95
inoceramid sediments, 123B1:9
mineralogy, 123B4:98, 110; 41:785
Neocomian claystone, 123A4:104
opal-A and opal-CT, 123B2:67–68
photograph, 171B_A4:110
sediments, 131B28:347
Site 765, 123A4:246
Site 766, 123A5:283; 123B43:806–807
site correlation, 123A5:343
smectite, 123B4:98
source, 123B1:47
tectonic-paleogeographic environments, 123B4:101–102
transport distances, 123B4:105
volcanic ash turbidite thickness, 123B4:104
volcanic sources, 123B4:102, 104
- benz[a]anthracene, gas chromatograms, 169A6:286
- benzene
sediments, 169A6:282
vs. depth, 169A6:285
See also alkylbenzenes; ethane/benzene ratio
- benzene, alkylated, sapropels, 160B23:288
- benzene acetonitrile, mass chromatograms, 172B1:9

- benzene/luene ratio
 biomarkers, 159B43:599
 vs. depth, 159B43:599
- benzofluoranthene
 maturation, 139B24:459
 sediments, 139B15:331–336
- benzopyrene
 maturation, 139B24:460
 sediments, 139B15:336–337
- Bernard ratio
 sediments, 190A1:34–35; 5:26; 8:18–19
 vs. depth, 190A5:73; 9:53
- Berriasian
 basement, 173A1:10
 biostratigraphy, 129B8:180; 11:221; 185A4:21;
 198A9:19; 198B7:7–8
 continental margin, 149B1:6
 lithology, 129A2:44; 129B15:268; 173A8:234–236;
 198A9:10–11
 paleomagnetism, 198B21:1–14
 photograph, 198A9:46–48
 rifting, 173B7:8; 210B1:7–9
 sediments, 198B1:4
 sill emplacement, 129B18:346
 Site 800, 129A2:33; 129B2:32
 synrift sedimentation, 210B1:25–26
 unconformities, 173B7:14
- Berriasian, upper, pelagic drape, 173A8:237
- Berriasian–Barremian interval, Pigafetta Basin, 129B2:32
- berthierine
 sediments, 143B12:177, 179–180
 X-ray diffraction data, 159A5:77
- beryl. *See* cordierite
- beryllium
 Indus Fan, 117B26:455–457
 magnetostratigraphy, 117B26:457–458
 mineral separates, 158B2:30
 Oman margin S, 117B26:455–457
 Owen Ridge, 117B26:455–457
 sediment change, 117B26:457
 sulfides and sediments, 158B3:45
 vs. depth, 139B11:229–250
 vs. sedimentation rates, 117B26:458
See also boron/beryllium ratio
- beryllium, acid-soluble fraction, 150B17:318
- beryllium-9, sediments, 154B26:389–394
- beryllium-9 flux, vs. beryllium-10 flux, 154B26:393
- beryllium-10
 island arcs, 145B24:386
 sediments, 154B26:389–394; 170A1:13, 15
 vs. age, 154B26:393
 vs. depth, 154B26:392; 205A1:48
- beryllium isotopes
 Indonesian volcanics, 123B8:186
 lithology, 185B1:13
 mantle source, 127/128B(2)49:815
 sediments, 154B26:389–394; 181B1:13–14, 32
 stratigraphy, 181B1:90
 submarine ferromanganese hardgrounds, 194B8:4, 21
 vs. depth, 194B8:14
See also beryllium-9; beryllium-10
- beta*-carotene derivative, sapropels, 160B23:287
- beta*-hopanes, sediments, 164B5:48–51
- beta*-sitosterol
 sapropels, 160B21:266
 sediments, 162B15:213
- BHMS. *See* Bent Hill Massive Sulfide
- BHTV. *See* borehole televiewer
- bibliography, dinocyst biostratigraphy, 189B5:44–45
- bicarbonates
 alkalinity, 128A4:173
 carbonate reactions, 165B19:291
 lithology, 162A9:298, 302
 seawater reactions with basement, 165B19:294
 vs. depth, 184A9:51
- bifurcations, channels, 155A3:29–41
- Big Lost excursion event, sediments, 184A1:23;
 190A7:11
- bindstone, photograph, 144B16:333
- biocalcarenite
 petrography, 161B1:6; 3:42
 photomicrograph, 164A8:255
- biocalcirudite
 lithology, 164A8:246–247
 photograph, 164A8:252
See also calcirudite
- biocenoses
 diatoms, 172B8:4
 foraminifers, 133B26:370
- biochronology
 calcareous nannofossils, 138B12:236, 249; 21:500–
 501; 167B32:367, 369; 168B4:39–49
 Cenozoic, 145B37:570, 573
 Cretaceous, 130B5:64–65
 diatoms, 138B7:105–106
 foraminifers, 129B13:254; 161B14:187–190; 35:442–
 447; 170B6:18
 Late Cretaceous–Paleogene interval, 171B_B9:20–21
 Miocene, 167B1:26, 30
 nannofossils, 133B18:257–260; 160B8:109
 Neogene, 133B1:6
 Norwegian-Greenland Sea, 151B1:21
 Pleistocene, 167B1:24
 Pliocene, 167B1:25
 radiolarians, 185B6:1–17
 sapropels, 160B15:193
 sedimentation rates, 160B8:108–109
 stable isotopes, 160B13:167–180
 synthesis, 127/128B(2)77:1219–1228
 tephra ages, 165B20:302, 306–308
 zoning, 166A8:183–185
- biochronostratigraphy, plankton, 181A8:58
- bioclastic carbonates. *See* carbonates, bioclastic
- bioclastic detritus, volcanoclastic sand, 180B7:8
- bioclastic limestone. *See* limestone, bioclastic
- bioclastic sand. *See* sand, bioclastic
- bioclastic sandstone. *See* sandstone, bioclastic
- bioclastics
 carbonate platform accretion, 194B2:6
 depositional sequences, 144B47:826–828, 836–840
 lithofacies, 144B14:277–278, 281–282

- lithology, 166A7:156; 183A5:176; 207A6:9; 207B8:4-11; 210A3:33-34, 45
photomicrograph, 210A3:150
volcanic substrate, 144B12:238
- bioclasts
alteration, 166A3:34
ash fall layers, 157B14:204-205
basement, 197A6:7
Bonin arc-trench system, 126B9:141
carbonates, 194B5:27
Cenozoic, 133B27:401
color, 103B31:524-526
composition, 161B6:78, 80
deposition, 166A9:242-243
diagenesis, 160B33:427; 37:475
fluid inclusions, 210B5:7-8
genesis, 157B14:213-214
lithofacies, 160B37:476; 38:495
lithology, 133B27:385; 159A6:168-170; 166A6:77-83, 115; 7:155-156; 8:177-178; 9:240-242; 10:299-300, 303; 11:350-355; 171B_A6:258-259; 180A5:8-9, 13; 8:10; 9:19-20; 10:5; 12:13, 17-21; 180B6:5-7, 13-14; 182A1:17, 28, 39; 4:5-9; 5:4-8; 6:6-7; 7:5-6; 8:4-7; 9:5-8; 10:4-10; 11:3-6; 12:4-7; 182B9:4-7; 183A5:5-6; 6:7-8; 7:7; 189A3:10-11; 4:7-9; 6:13-14; 194A3:6; 4:8-10; 5:7; 6:3; 194B5:11; 197A5:5-6; 202A6:6; 210A3:22-25
Miocene, 133A(1)10:357
mud breccia, 160B46:598, 602
paleoecology, 180A1:11
petrography, 161B7:86-87
petrology, 157B16:273
photograph, 133A(1)10:363; 161A8:364; 161B6:79; 164A8:252; 171B_A6:261-262; 180A6:88; 8:55; 182A10:44-45; 194A4:43-44, 56; 210A3:135
photomicrograph, 159A6:171; 160B37:475; 38:506; 180A8:48, 56; 182B12:8; 194A4:45-46, 55; 210A3:133, 171
postbasement flooding, 194B2:4
provenance of Eocene sandstone, 210B2:9-10
sandstone, 210B2:4-5
turbidites, 166B5:50-53, 57-60
volcaniclastics, 157B13:189; 180B8:4-5
vs. depth, 133B25:358; 157B14:212; 161A9:399; 161B1:15; 189A3:67
See also clasts; microbioclasts
- biocoenosis. *See* biocenosis
- bioconstructions, photograph, 144B16:332
- biodegradation
green clay, 184B15:5-8
oil seeps, 135B41:673-675
sediments, 146B(2)14:210
volcanic glass, 187A6:30
- bioenergetic divergence index
vs. depth, 205B8:21
vs. microbial divergence index, 205B8:22
- bioerosion
carbonates, 133B21:298-299; 194B2:6
Cretaceous, 144B45:785
guyots, 144B53:947
- lithology, 171B_A4:100; 194A5:7; 7:6-7, 10-11
- bioevents
sample and depth constraints, 138A(1)10:212-215
Site 846, 138A(1)11:286-287
Site 847, 138A(1)12:350-351
See also biostratigraphic events
- biofacies
benthic foraminifers, 150B5:69-83; 150X_B19:267-275; 159B31:402; 174AXS_A1:30-31; 3:17, 39-42; 5:44-45
biostratigraphy, 174A_B(synthesis):5-7
change within sequence stratigraphy, 150B5:78-83
Eocene, 150X_B16:207-228
foraminifers, 129B12:231; 146B(1)5:79-113; 150X_B8:83; 14:169-186; 15:198-199, 201; 15:198-199; 16:213-214; 17:232; 178A6:10-11
lower Pliocene, 178A6:28
nannofossils, 182A5:12
Oligocene, 150X_B15:194-201
ostracodes, 150X_B21:289
Pleistocene, 174A_B(synthesis):9-10
sedimentation, 178A9:9
Sequence S3, 178A1:12
summary, 178A1:43; 6:41
See also diatomaceous facies; ichnofacies; lithofacies; palynofacies
- biogenic aragonite. *See* aragonite, biogenic
- biogenic bloom event. *See* bloom events, biogenic
- biogenic components
bulk mineralogy, 189B11:3
carbonates, 161B6:78-80
coarse fraction, 178B15:10
concentration, 199B20:26
Eocene-Oligocene interval, 189B1:14
flux, 178B3:4-7
geochemistry, 167B23:266
histograms, 186A4:77
lithology, 164A6:110-111; 167A(1)4:55; 168A4:57; 170A3:60-61; 171B_A3:59; 172A4:84-92; 175A4:89, 91; 5:119; 7:179; 9:233; 10:281; 11:315-317; 12:351-352; 13:395; 14:434; 177A1:20-22; 178A7:35, 39; 8:3-9; 186A4:19-21; 5:13; 201A11:12; 204A6:3-8
microfacies, 194B5:32-33
paleoenvironment, 189A3:18-21
photograph, 172A4:84; 172B7:18
sedimentation, 161B2:32, 34; 4:59-67
sediments, 131A6:134; 146A(1)6:253; 152A11:234-235; 12:270; 175B11:5
temporal variations, 167B14:203-206
volcaniclastics, 180B8:4-5
vs. depth, 138A(2)15:858; 146A(1)7:314; 161A9:399; 178A4:49; 5:76-77; 8:30, 54; 186A4:78; 5:52; 186B16:10; 189A4:29-30; 202A4:7-8, 33; 6:30; 204A3:4-8; 4:36-40, 42; 5:22; 6:29-30; 7:26; 8:37; 9:32-33, 38; 10:40-43; 11:23-24, 26
See also detrital components
- biogenic export, Eocene-Oligocene, 177B(synthesis):5-6
- biogenic fragments, textures, 201B14:7-11

biomarkers

age-depth relationships, 130A9:417–418
 Baffin Bay, 105B15:235, 240
 carbon number, 198A3:131–132; 9:105
 chromatograms, 162B15:214; 180B16:5–6
 Cretaceous black shale, 207A10:5–7
 definition, 112B34:539
 deposition, 198A3:32
 geochemistry, 123B11:221–223; 12:232
 hemipelagic environment, 155B34:551
 hydrocarbons, 139B15:334–335
 identity, 198A3:133
 ketones, 138A(1)11:302
 lipids, 108B22:387; 175B5:1–26; 10:1–32; 184B18:5–6
 maturation, 135B41:672–673; 139B24:457
 molecular stratigraphic studies, 108B22:387
 Neogene, 202B1:3–4
 oceanic anoxic events, 198A3:130
 organic carbon, 151B22:397–398
 organic matter, 155B34:551; 159B43:595–599;
 160B21:261–269; 22:271–283; 23:285–295;
 28:352, 355–356; 198A9:29; 201B4:5–11;
 207A10:19–22
 organic-rich sediments, 198A9:104
 paleotemperature, 161A4:82; 5:144; 6:233; 7:318;
 167B12:183–194
 pelagic environment, 155B34:551
 sediments, 139A6:200; 141B9:127–128; 22:290–291;
 143B12:188; 151B23:412; 152B24:285;
 205B1:24; 8:6–11, 23
 stratigraphic variations, 198A3:30
 synchronicity, 162B2:27, 29
 total organic carbon, 202B7:1–14
 upwelling sites, 108B20:351, 356–357
 vs. depth, 151B23:412
See also alkenones; alkyl diols; alkyl keto-ols; biogeochemical markers; *Botryococcus braunii*; *Botryococcus* colonies; Chlorobiaceae; cholestane; dinosterol; ethers; ethylcholestane; gammacerane; hopanes; hopanoic acid; hopene; hopanoid thiophene; hopanoids; hopanone; hopenes; hydroxybenzyls; isorenieratane; isorenieratene; ketones; lupanes; lycopane; methylalkadienone; methylcholestane; molecular stratigraphy; moretanes; *n*-alkyls; norlupane; oleananes; perylene; phenols; steradienes; steranes; sterenes; steroids; sterol ethers; thianes; thiolanes; thiophenes; triterpenoids; tryptophane
 biomarkers, organic, Eocene–Oligocene, 199B25:1–11
 biomarkers, terrestrial, carbon isotopes, 208B5:9
 biomass activity
 microbial, 164B36:387–388; 193A3:72, 294; 4:49–50;
 169B3:1–19
 productivity, 146B(2)9:128
 biomediation, clay geochemistry, 184B12:8–10
 biometrics, *Scyphosphaera*, 161B17:239
 biomicrite
 Cretaceous, 143B9:138–139
 lithology, 160A7:162
 mud breccia, 160B46:601

petrography, 161B1:6; 3:42
 photograph, 144B16:331; 160A6:132
 photomicrograph, 160B32:405, 407; 33:426; 37:473,
 475
 Sardinian margin, 107B2:31–32; 38:645
 Site 738, 119A7:238
 Site 793, 126B15:231–232, 234
See also pelbiomicrite
 biomicrite, recrystallized, photograph, 144B16:335
 biomicrite, sandy, photomicrograph, 161B1:18
 biomicrite, spiculitic, photograph, 144B16:333
 biomicrite clasts. *See* clasts, biomicrite
 biomineralization, biosphere, 193B1:35–36
 biomineralization, siliceous, 129B1:21
 biopackstone, pteropod, sediments, 166A11:372
 bioprovince indexes, Paleogene, 135B16:252–256
 bioprovinces
 Neogene, 198B1:15
 planktonic foraminifers, 152B12:176–177
 bioreactors, black shale, 207A5:27–29; 6:30–32; 7:27–29;
 207B1:8–9
 biosedimentation, paleoenvironment, 194B5:1–38
 biosilica. *See* silica, biogenic
 biosiliceous components
 biogenic opal, 178B23:8–9
 lithology, 172A5:164–165, 168–174; 198A4:13–14
 Oligocene, 189B1:16
 paleoenvironment, 189A5:16
 productivity, 177A6:12
 vs. depth, 198A5:44; 8:34
 biosiliceous events
 deposition, 129B12:232
 Oligocene–early Miocene interval, 159A9:312
 biosiliceous fragments
 lithology, 154A8:344–346; 162A8:263; 167A(1)16:468
 Paleogene, 152B19:249–250
 sedimentation, 154A9:424–426; 154B33:487–488
 sediments, 162A8:267
 vs. age, 154A9:427
 vs. depth, 154A8:346
See also siliciclastics
 biosparite
 lithology, 160A8:223
 photograph, 160A6:133; 7:173
 Site 793, 126B15:232–233
See also pelbiosparite
 biosparite, coarse-grained, Cretaceous, 143B9:138
 biosphere
 biogeochemistry, 201B1:4–10
 biomineralization, 193B1:35–38
 microbes, 177B3:5–6; 180A1:27
 sediments, 185A1:5–6, 26–30; 205B8:6–11
 subduction zones, 195A1:7
 sulfur isotopes, 201B6:1–20
 volcanism, 185B1:17
 biosphere, active deep, 207B1:1–26
 biosphere, shallow marine, 204A10:19, 64
 biosphere, subsurface
 exploration, 187A1:5
 microbial populations, 187B1:5–6
 slow-spreading ridges, 158B26:355–360

- biostratigraphic age. *See* age, biostratigraphic
- biostratigraphic assemblages
 biogeography, 144B50:887–893
 foraminifers, 134A8:152; 141B15:215–217
 ostracodes, 143B4:78–80
- biostratigraphic controls
 composite section, 154A5:178
 lithology, 154A4:64
 sedimentation, 154A4:89; 5:183; 6:259; 7:302; 8:367
- biostratigraphic correlation. *See* correlation, biostratigraphic
- biostratigraphic datums
 age estimates, 138B23:522–527, 530–536; 154A9:435; 154B1:5–10; 186A4:195; 5:113
 age models, 181A6:25–26; 183B9:9–11; 189B9:12
 astronomical ages, 160B15:193; 161B13:163–166, 169–170
 bioevents, 189B13:3
 biostratigraphy, 133B2:29–33; 175B(synthesis):15–16
 calcareous nannofossils, 130B11:179, 182; 164B33:333–334, 336; 171B_A4:118, 121; 5:190; 6:266; 7:327; 172A3:41–42; 4:94–96; 5:179–183; 6:260–261
 calibration, 138B23:536
 Cenozoic, 149B16:323, 328, 333
 chronostratigraphy, 149B45:693
 coccoliths, 175B12:16
 correlation, 182A6:96; 8:82; 182B3:4–8; 5:3–6
 depth range, 138B23:520; 162A3:67; 4:110; 5:156; 6:188; 7:240; 170A3:73; 4:130; 5:174; 7:236
 depths and ages, 182B5:14–15
 diatoms, 150B2:311; 162B4:52, 55–57; 178B29:3–24; 183B9:7, 15, 44–48; 186A5:111; 186B2:12–14; 188A3:177–178; 4:102; 188B6:19, 25
 dinocysts, 133B8:98, 101; 189A7:128
 Eocene–Holocene timescale, 183B8:14–16
 epoch boundaries, 167A(1)4:72
 foraminifers, 133B55:787–790; 138B15:339; 150A6:81; 181A9:81; 189A4:52
 levels, 145B37:561–569, 572–573; 182A6:90; 182B3:43–47
 magnetostratigraphy, 167A(1)8:200; 15:449; 189B9:21
 mass accumulation rates, 157A4:93; 5:134; 6:171; 10:543; 157B29:509–511; 159A5:97; 8:278
 nannofossils, 133B2:23; 23:318; 165A3:63; 4:153; 5:249; 6:310; 165B1:3–15; 20:306; 181A4:57; 5:9–10; 8:60; 9:80; 186A5:105; 186B4:22; 189A4:50; 5:119; 6:138; 7:112; 189B6:9; 7:16; 8:14; 192B2:13; 3:5; 198B3:10–15; 7:57
 Neogene, 138B23:518; 177A1:22–23
 new events, 164B33:336
 Oligocene, 195A4:24–26
 paleoceanography, 161B14:193–194
 Paleogene and Neogene, 150B1:4
 paleomagnetism, 173B11:57, 60, 63, 67, 69, 71
 placement, 138B23:529
 planktonic foraminifers, 130B10:142–143; 154B1:5–10; 2:32–42; 165A3:65; 4:157; 5:251; 6:310; 165B2:23–29; 17:256; 20:306; 171B_A4:122, 126; 5:191; 6:267; 7:329; 184B2:29; 189A5:126; 6:143; 7:119
 radiolarians, 175B14:4–5; 188A3:178; 4:102; 189A5:135; 6:144; 7:120
 sedimentation rates, 160A8:231, 233; 177A3:11; 7:13–14; 181A4:17–18; 182A4:88; 5:14, 71; 6:90; 7:16, 68; 8:19, 42, 74; 9:13–14, 33, 59; 10:48, 72; 11:10, 24, 37; 12:16–17, 36, 61; 182B3:40; 186B5:4–5; 188A4:26; 189A3:33–34; 207A8:89
 seismic reflectors, 138B24:546
 Site 819, 133A(1)12:473
 Site 902, 150A6:79
 Site 903, 150A7:150
 Site 904, 150A8:222
 Site 905, 150A9:274
 Site 906, 150A10:321
 Site 1192, 194A3:68
 Site 1193, 194A4:102
 Site 1194, 194A5:94
 Site 1195, 194A6:79
 Site 1197, 194A8:72
 Site 1198, 194A9:64
 temperature, 186B3:7
 thickness vs. age, 157B29:511–512
 vs. depth, 159A6:185; 199A8:25; 210A3:266–267; 210B13:48
 vs. paleomagnetic datums, 149A4:73
 vs. timescales, 154B3:72
 zonation, 166A3:29–30; 175A3:67; 4:93; 5:123; 9:246; 10:284; 11:318; 12:353; 13:399
See also biomagnetostratigraphic datums; microfossil datums; nannofossil datums
- biostratigraphic datums, diachronous, 157B10:121–122
- biostratigraphic events
 age, 154B5:109; 161A4:76; 5:138; 6:207; 7:319; 8:378; 9:404; 161B15:209, 211, 213; 189A3:150; 4:54; 5:35–36, 145–146; 7:129–130; 204A3:107; 4:105; 5:55; 6:71; 7:65; 8:82; 9:80; 10:96; 11:54; 204B8:28
 biomarkers, 149B13:298–299
 biostratigraphic datums, 189B13:3
 calcareous nannofossils, 149B4:83, 89–90; 154A4:88–89; 5:182; 6:242; 7:290–291; 166A6:85; 7:159; 8:183; 9:244; 10:306; 166B4:35–43; 7:159
 Cenozoic, 141B30:373–377; 152B12:163, 166, 169, 173
 chart, 189A6:154–155
 composite depth section, 154A4:79–80, 87; 7:300
 composite events, 160A10:355; 11:392; 12:433; 13:457; 14:480; 160B8:102, 108
 correlation, 162B8:129–130
 depth, 166B1:4; 7:160, 162–165
 depth and proposed age, 135A(1)7:309; 8:363; 9:422; 10:529; 11:614; 160B12:162
 diatoms, 167A(1)12:329; 178B29:13–17, 22; 189A4:15; 5:29, 140; 6:150; 7:125
 dinocysts, 189A5:142; 6:153; 189B3:28–29; 4:9; 5:1–98
 Eocene–Oligocene interval, 189A5:73
 foraminiferal biofacies, 150X_B18:262
 foraminiferal datums, 138B25:556

- interval and depth constraints, 190A4:121; 5:122;
 6:79; 7:69; 8:74; 9:89
- list, 160B13:169–170
- magnetostratigraphy, 135B54:860–865; 189B10:3
- mid-Paleocene biological event, 198A1:32
- nannofossils, 149B4:90–91, 97–103, 116–118;
 160B8:102, 108; 161B13:176–180; 16:224–226;
 185B5:5; 189B7:22–23; 190A4:120; 5:121; 6:78;
 7:68; 8:73; 9:88; 197B4:4, 11–12
- Ontong Java Plateau, 130A9:416–417; 130B47:773
- Paleocene/Eocene boundary, 199A1:25–26
- Paleocene/Eocene Thermal Maximum, 208B1:11–12
- pelagic environment, 189B6:11
- planktonic foraminifers, 160B30:380; 166A6:85;
 7:159; 8:184; 9:244; 10:309; 166B15:156–159
- radiolarians, 167A(1)10:259; 12:332; 14:406; 15:447;
 175B14:4–5, 26; 183B10:14
- sedimentation rates, 167A(1)11:301; 189A3:33–34
- silicoflagellates, 151B6:102–104, 111; 185B4:15
- Site 963, 160A4:70
- Site 964, 160A5:101
- Site 965, 160A6:134
- Site 966, 160A7:174–175
- Site 967, 160A8:240–241
- Site 968, 160A9:301
- vs. depth, 135A(1)4:116
- zonation, 181A3:87; 4:55–56, 71; 5:18–19; 6:127;
 7:173–174; 8:130–131; 9:91
- See also* biosiliceous events
- biostratigraphic hiatuses. *See* hiatuses, biostratigraphic
- biostratigraphic horizons. *See* biohorizons
- biostratigraphic markers. *See* biomarkers
- biostratigraphic ranges
- calcareous nannofossils, 167A(1)4:58–59; 5:96–97;
 6:137–138; 7:163; 8:188–189; 9:229; 10:250–
 251; 11:295; 12:324–325; 13:363; 14:399–400;
 15:441–442; 16:470–471
- diatoms, 167A(1)4:60–64; 5:98–99; 6:140; 7:164;
 8:190–192; 9:230; 10:252–255; 11:296; 12:326–
 329; 14:401–404; 15:443–444; 16:472
- planktonic foraminifers, 167A(1)4:70–71; 5:94–95;
 6:136; 7:162; 8:186; 9:228; 10:249; 11:294;
 12:322; 13:361; 14:397; 15:440; 16:469
- radiolarians, 167A(1)4:66–69; 5:102–104; 8:194–197;
 10:256–258; 11:297; 13:363–364; 14:405–406;
 15:445–446; 16:474
- biostratigraphy
- accretionary prisms, 190A1:27
- age, 127/128B(2)83:1335–1337; 132A4:89;
 161B37:472; 177A3:46–47; 4:80–82; 5:70–75;
 6:60–62; 7:48–55; 8:78–81; 9:58–59; 180B4:1–13
- age models, 175B(synthesis):100–102; 22:14;
 198A4:55–59; 201B16:17; 202A7:57; 8:71; 9:75;
 10:68; 11:57; 12:73; 13:53
- algae, 144B11:221–230
- Ancora Site, 174AXS_A1:29–45
- Arctic Gateways, 151B35:627–644
- ash fall layers, 157B18:318
- Atlantic Ocean NW, 172B(overview):12
- basement, 192B1:4–5
- Bass River Site, 174AX_A1:35–41
- Bethany Beach Site, 174AXS_A3:35–44
- benthic foraminifers, 141B15:213–221; 143B32:538–
 544; 149B9:217–239; 159B28:347–359; 33:433–
 444; 44:605–610; 194B2:8–9; 198A3:23–25
- biofacies, 174A_B(synthesis):5–7
- biostratigraphic datum levels, 127/128B(2)77:1222
- calcareous nannofossils, 130B11:179–229; 13:245–
 256; 134B10:179–245; 135B13:191–205;
 17:267–284; 138B12:234–249; 21:479–502;
 144B7:141–156; 145B39:599–638;
 146B(2)24:329–330; 152B11:147–160;
 154A9:438; 157B29:501–520; 159B26:320–329;
 32:413–431; 37:509–523; 161B13:159–183;
 167A(1)4:57–59; 5:101; 6:139; 7:162–163; 8:185;
 9:229; 10:248–249; 11:293; 12:322–323; 13:361;
 14:398; 15:439; 16:469–470; 167B1:3–40;
 32:364; 168A4:77–78; 5:133–134; 6:175;
 168B4:39–49; 170B5:1–63; 174A_B5:1–16;
 178B26:1–21; 28:1–22; 198A3:18–20
- Callovian/Oxfordian boundary, 129B32:589
- Campanian–Miocene interval, 173B9:2
- Cape May Site, 150XS_A1:24–26
- Cape May Zoo Site, 174AXS_A7:23–24
- carbonate platforms, 166A3:28
- Ceara Rise, 154A9:438
- Cenomanian–Turonian anoxic event, 183B3:3–4
- Cenozoic, 129B4:119; 134B26:458–459; 141B30:373–
 377; 149B10:241–265; 151A13:414–416;
 157B9:97–114; 173B11:1–73; 177A1:11;
 178A1:14–15; 181B1:13–19; 192A6:12–13;
 202A1:14–16, 115
- closing, 165A8:384–385
- chronostratigraphy, 149B45:693–694; 190A1:28
- comparison with magnetostratigraphy, 151A10:331–
 332; 11:366
- correlation, 127/128B(2)77:1219–1228; 133B24:329,
 331–332; 135A(1)1:27; 151A5:74; 6:123; 7:172;
 8:237; 9:281; 10:328; 11:361; 159A5:87–88;
 167B32:366; 172A5:176, 178; 7:313; 177A3:30;
 4:43; 6:38; 7:30; 8:45; 9:37; 189A6:91; 190A1:77
- Cretaceous, 130B5:63–84; 7:93–102; 144B8:157–169;
 14:275; 45:781–782; 149B36:579–580; 207A1:69
- Cretaceous–Cenozoic interval, 132B2:15–36
- Cretaceous–Paleocene interval, 159B24:253–318
- Cretaceous–Paleogene interval, 144B49:873–885;
 149B8:203–216
- Cretaceous–Quaternary interval, 149B6:165–192
- Cretaceous/Tertiary boundary, 130B45:745;
 198A1:32–33, 36–37, 113
- Demerara Rise, 207A1:39–42
- diatoms, 138B7:105–128; 145B1:3–19; 2:21–41;
 146B(1)4:63–77; 151B4:61–99; 154B33:484;
 162B4:51–62; 164B35:365–376; 167A(1)4:59;
 5:101; 6:139; 7:163; 8:185–186; 9:229; 10:249,
 251; 11:293; 12:323; 13:362, 364; 14:398;
 15:439–440; 16:470; 167B3:63–11; 6:119–125;
 32:364; 170B2:1–22; 172B8:1–49; 177A4:45;
 177B10:1–14; 178B29:1–25; 35:1–57; 183B9:1–
 53; 185B2:1–31; 186B2:1–38; 188B6:1–25;
 199B6:1–25; 204B6:1–10

- dinoflagellates, 151B12:203–242; 13:243–253;
 14:255–287; 162B6:83–109; 178B2:1–10;
 189B4:8–10
- Eocene, 150B25:430; 160B31:395–401; 171B_B7:1–28;
 173B4:1–35
- Eocene/Oligocene boundary, 181B1:42–45
- Eocene–Oligocene interval, 177B8:1–9; 189A6:90
- Eocene–upper Miocene interval, 150B26:435–437
- foraminifers, 127/128B(1)12:188–189; 133B55:787–
 790; 135B15:231–243; 144B6:127–139; 10:199–
 219; 145B9:157–170; 146B(1)5:79–113;
 150X_B10:111–127; 151B8:153–167; 9:169–185;
 10:187–196; 162B11:173–175; 175B7:1–26;
 186B7:1–23
- Fort Mott Site, 174AXS_A4:28–29
- high-resolution study, 127/128B(1)12:193–200;
 161B15:197–221
- ichthyoliths, 136B2:27–43
- integration, 199B2:6–7
- intercalibration, 133B47:697–704
- Japan Sea, 127A1:19–22; 128A1:28–30
- Jurassic, 149B7:193–201; 173B7:3–5
- Jurassic–Cretaceous interval, 129B8:179–187; 30:532
- Jurassic–Lower Cretaceous interval, 129B10:203–220
- late Eocene–Quaternary interval, 189B2:1–36
- late Miocene–early Pliocene interval, 183B10:1–17
- latest middle to late Eocene, 171B_B6:1–25
- Lau Basin, 135A1:23–26
- Leg 127, 127A1:19–22
- Leg 128, 128A1:28–30
- Legs 127 and 128 correlation, 128A1:29
- lower Cenozoic, 208A1:26–30
- Lower Cretaceous, 129B11:221–228
- lower Eocene–lower Oligocene interval, 199B5:1–74
- lower Pleistocene, 160B15:191–193
- magnetostratigraphy, 162B8:114–116; 10:151–154;
 181A6:66–67; 8:25–27; 183A7:48; 195A4:31–32
- Marion Plateau, 194A4:103–104; 5:95–96; 6:80–81;
 7:132–136; 8:73–74; 9:65–66
- mass flow units, 160B37:467
- Mesozoic, 129A1:13–18; 149B2:27–59; 159B35:481–
 490
- Messinian/Pliocene boundary, 160B2:9–17
- micropaleontology, 181B1:59–60
- mid-Cretaceous, 129B9:189–201; 171B_B3:1–12
- Mid-Maastrichtian Event, 198A1:33–34, 37
- Mid-Paleocene Biological Event, 198A1:32
- middle Eocene, 199B24:6
- middle Pliocene, 167B4:111–113
- Millville Site, 174AXS_A5:42–48
- Miocene, 150X_B11:129–145; 156B2:33–48
- Miocene–Pleistocene interval, 177B(synthesis):3;
 178A4:62
- Miocene–Pliocene interval, 177B7:1–14
- Nankai accretionary prism, 131A7:276
- nannofossils, 133B53:773–785; 139B5:61–64;
 150X_B9:91–110; 154B4:85–93; 164B33:331–
 341; 182A1:17; 183B8:1–19; 185B5:1–21;
 186B4:1–31; 5:1–15; 188B11:1–14; 189B7:1–39;
 8:1–14; 197B4:1–12; 198B3:1–15; 6:1–60
- Neogene, 130B10:137–178; 44:718, 721; 133B1:3–66;
 8:97–105; 10:119–120; 16:245–266;
 135B54:857–877; 138B23:517–536; 25:558–559;
 141B14:193–211; 167B32:364–376; 172A7:319–
 321; 177A1:13; 178B13:10; 182A1:10–12;
 182B3:1–67; 189A1:13; 191B1:3–4; 2:1–34;
 198B1:16
- neritic environment, 194A4:15–17
- Newfoundland Basin, 210B13:1–53
- Ocean View Site, 174AXS_A2:33–40
- Oligocene, 130B9:113–136; 183B5:6–7; 199B8:1–26
- Oligocene–Miocene interval, 149B4:79–145
- ostracodes, 144B4:87–96; 150X_B21:287–292;
 151B11:197–201; 159B38:525–531
- Pacific Ocean NW, 144B42:691–736
- paleobathymetry, 160B39:511
- paleoceanography, 151B36:652, 654
- Paleocene/Eocene boundary, 199A1:25–26
- Paleocene–Eocene interval, 130B8:103–111; 183B4:1–
 59; 199B7:1–34
- Paleocene/Eocene Thermal Maximum, 198A1:36, 40,
 112; 5:39; 208B1:11
- paleoenvironment, 181A4:13–15; 121A12:375–376;
 192A3:24–25
- Paleogene, 199B1:6–8; 207A1:67
- palynomorphs, 178B26:1–21; 28:1–22; 183B3:9–13;
 186B6:1–19; 188B2:1–20
- phytoliths, 188B5:1–12
- phytoplankton, 181B1:18–19
- planktonic foraminifers, 130B12:231–244;
 134B11:247–263; 135B14:207–229;
 150X_B8:82–85; 152B12:161–189; 154B2:33–68;
 159B27:335–345; 161B14:185–195; 37:469–479;
 162B2:19–34; 167A(1)4:61–63; 5:93, 95; 5:101;
 6:138–139; 7:162; 8:183–185; 9:228–229;
 10:248; 11:291–293; 12:321–322; 13:360–361;
 14:397–398; 15:439; 16:469; 167B2:41–62;
 5:115–117; 32:367; 170B1:1–58; 6:3–4;
 198A3:20–23; 198B4:1–56; 5:1–15
- Pleistocene, 131B1:3–13; 172A7:319–321; 202B5:1–10
- Pliocene, 138B15:339; 145B8:141–156; 175B22:1–19;
 180B11:2–3
- Pliocene–Miocene interval, 166B1:3–12
- Pliocene–Pleistocene interval, 130B19:335;
 149B5:147–164; 159B39:533–538; 177B11:1–10;
 178A5:58; 6:42
- Pliocene–Quaternary interval, 151B3:39–59;
 160B7:83–112; 10:125–135
- pollen, 146B(2)20:265–279
- problems, 127/128B(2)77:1219
- Prydz Bay-Cooperation Sea region, 188A1:14
- Quaternary, 139B2:39–58; 155B38:577–594;
 161B35:441–455; 40:505–518; 175A19:543–546;
 175B(synthesis):15–16; 182B5:1–16; 189B6:1–26
- radiolarians, 134B14:309–317; 136B1:3–25;
 138B11:191–232; 145B4:55–91; 5:93–140;
 146B(1)3:48–57; 151B7:125–152; 159B29:363–
 373; 165B2:57–81; 167A(1)4:59–61; 5:101–102;
 8:186–187; 11:293; 13:364; 12:398; 15:440, 442;
 16:473; 167B32:367; 175B14:1–26; 180B14:3–5;
 199A9:19; 10:29; 200B4:1–25; 202B6:1–29

- radiometric age, 127/128B(2)50:821–822; 83:1337
repeated interval, 154A6:249
Sea Girt Site, 174AXS_A6:48–57
sediment accumulation, 149A5:122; 6:155; 7:218
sedimentary overburden, 206A3:26–29
sedimentary wedges, 205B1:14–16
sedimentation rates, 181A3:21; 184A7:12; 8:7;
184B2:10–11; 185A1:53; 186A4:35–37; 5:23–24;
199A8:14–15; 210A3:88–90
sediments, 178B(synthesis):11–12
silicoflagellates, 151B6:101–124; 159B36:493–508;
162B5:63–81; 183B11:1–20; 185B4:1–18;
199B9:1–29; 10:1–9; 207B4:5–6
Site 752, 121A6:121–130; 121B16:364; 36:722
Site 753, 121A7:173–179; 121B16:368; 36:731–732
Site 754, 121A8:195–205; 121B16:369
Site 755, 121A9:242–246; 121B16:370
Site 756, 121A10:267–273
Site 757, 121A11:311–320
Site 758, 121A12:375–387
Site 794, 127A4:72, 96–103; 127/128B(1)12:187–224;
(2)77:1221–1225; 128A3:99–100
Site 795, 127A5:174, 192–199; 127/128B(1)12:187–
224; (2)77:1223, 1225
Site 796, 127A6:250–251, 269–274; 127/
128B(1)12:187–224; (2)77:1223, 1225
Site 797, 127A7:324, 351–357; 127/128B(1)12:187–
224; (2)77:1223, 1225
Site 798, 127/128B(1)10:155–169; (2)77:1223–1226;
128A1:28–30; 4:124–125, 158–166
Site 799, 127/128B(1)10:155–169; (2)77:1224, 1226;
128A1:28–30; 5:244, 298–312
Site 800, 129A2:48–52
Site 801, 129A3:113–118; 144A9:315, 317; 185A3:7–9
Site 802, 129A4:195–200
Site 803, 130A5:118–127
Site 804, 130A6:187–193
Site 805, 130A7:232–245
Site 806, 130A8:307–316
Site 807, 130A9:393–408
Site 808, 131A6:99–109
Site 810, 132A4:82–88
Site 811, 133A(1)4:95–98
Site 812, 133A(1)5:151–153
Site 813, 133A(1)6:185–187
Site 814, 133A(1)7:210–213
Site 815, 133A(1)8:261–264
Site 816, 133A(1)9:311–313
Site 817, 133A(1)10:364–368
Site 818, 133A(1)11:427–428
Site 819, 133A(1)12:464–465
Site 820, 133A(1)13:516–519
Site 821, 133A(1)14:578–580
Site 822, 133A(1)15:627–629
Site 823, 133A(1)16:703–705
Site 824, 133A(1)17:779–781
Site 825, 133A(1)4:98–99
Site 826, 133A(1)18:809
Site 828, 134A8:149–152
Site 829, 134A9:194–198
Site 831, 134A11:333–336
Site 832, 134A12:409–412
Site 833, 134A13:499–500
Site 834, 135A(1)4:112–116
Site 835, 135A(1)5:203–207
Site 836, 135A(1)6:260–261
Site 837, 135A(1)7:306–308
Site 838, 135A(1)8:360–361
Site 839, 135A(1)9:419–422
Site 840, 135A(1)10:523–527
Site 841, 135A(1)11:602–614
Site 842, 136A4:41–42
Site 843, 136A5:68
Site 844, 138A(1)9:131, 134–135, 138–142
Site 845, 138A(1)10:208–216
Site 846, 138A(1)11:285–293
Site 848, 138A(2)13:685–692
Site 849, 138A(2)14:744–745, 748
Site 850, 138A(2)15:817, 820–822, 825
Site 851, 138A(2)16:903, 906–909
Site 852, 138A(2)17:980–985
Site 853, 138A(2)18:1029–1032
Site 854, 138A(2)19:1068–1071
Site 855, 139A5:110, 113
Site 856, 139A6:180–188
Site 857, 139A7:300, 302–305
Site 858, 139A7:457–459
Site 859, 141A6:88–92
Site 860, 141A7:173–181
Site 861, 141A8:253–259
Site 862, 141A9:316–318
Site 863, 141A10:363–365
Site 871, 144A3:55–65
Site 872, 144A4:119–125
Site 873, 144A5:164–166, 169–177
Site 874, 144A6:225–231
Site 878, 144A10:356–362
Site 879, 144A11:425–426
Site 880, 144A12:444–445
Site 881, 145A3:45–50
Site 882, 145A4:90–91, 93
Site 883, 145A5:138–145
Site 884, 145A6:220–228
Site 887, 145A8:344–349
Site 888, 146A(1)4:71–73
Site 889, 146A(1)5:155–162
Site 890, 146A(1)5:155–162
Site 891, 146A(1)6:255–256
Site 892, 146A(1)7:319, 321–323
Site 893, 146A(2)2:44–46, 48–49
Site 897, 149A4:52, 62–70
Site 898, 149A5:127–129
Site 899, 149A6:175–179
Site 900, 149A7:223–230
Site 902, 150A6:76–86
Site 903, 150A7:149–159
Site 904, 150A8:221–227
Site 905, 150A9:272–280
Site 907, 151A5:69–74; 162A7:231, 234, 238–240
Site 908, 151A6:122–125
Site 909, 151A7:171–176
Site 910, 151A8:230–236

- Site 911, 151A9:277-281
Site 912, 151A10:326-329
Site 913, 151A11:360-365
Site 914, 152A6:62-64
Site 915, 152A7:78
Site 916, 152A8:94, 96
Site 917, 152A9:117-119
Site 918, 152A11:208-223
Site 919, 152A12:264-266
Site 925, 154A4:66-78, 88-89; 154B1:3-31
Site 926, 154A5:160-167, 182
Site 927, 154A6:238-244, 249, 258-259
Site 928, 154A7:285-293, 300-302
Site 929, 154A8:347-353, 366-367
Site 930, 155A6:96, 98-100
Site 931, 155A7:131-132, 136-138
Site 932, 155A8:183, 185-188
Site 933, 155A9:209-213
Site 934, 155A10:249-250, 254-255
Site 935, 155A11:281, 286-291
Site 936, 155A12:339-343
Site 937, 155A13:394-395
Site 938, 155A14:419-422
Site 939, 155A15:445-447
Site 940, 155A16:472-474
Site 941, 155A17:512-513, 517-519
Site 942, 155A18:549-550
Site 943, 155A19:578-579
Site 944, 155A20:605-606
Site 945, 155A21:646-648
Site 946, 155A22:666-670
Site 948, 156A6:129-131
Site 949, 156A7:215, 217-220, 228-229, 233
Site 950, 157A4:70-75
Site 951, 157A5:114, 118-121
Site 952, 157A6:147-152
Site 953, 157A7:341-347
Site 954, 157A8:407-412
Site 955, 157A9:449-453
Site 956, 157A10:515-520
Site 959, 159A5:87-93; 6:177-182; 7:234-238; 8:270-274
Site 963, 160A4:60-63
Site 964, 160A5:100-102
Site 965, 160A6:132-135
Site 966, 160A7:164, 170, 173-176
Site 967, 160A8:224-231, 264-265
Site 968, 160A9:298-303
Site 969, 160A10:344, 348, 351-355, 374
Site 970, 160A11:385-387, 389-390
Site 971, 160A12:431-435
Site 972, 160A13:454-458
Site 973, 160A14:477-479
Site 974, 161A4:64-73
Site 975, 161A5:132-137
Site 976, 161A6:197-204
Site 977, 161A7:309, 311-313
Site 978, 161A8:362-363, 365-367
Site 979, 161A9:397-399
Site 982, 162A4:108-112
Site 983, 162A5:152-154
Site 984, 162A6:184, 186-189
Site 985, 162A8:268-269
Site 986, 162A9:303-304; 162B1:3-17
Site 987, 162A10:356-357
Site 991, 164A5:81-82
Site 992, 164A5:82
Site 993, 164A5:82
Site 994, 164A6:114-117
Site 995, 164A7:185-189
Site 996, 164A8:256, 258
Site 997, 164A9:290-292; 164B34:344-351
Site 998, 165A3:62-67; 165B1:3-17
Site 999, 165A4:152-158; 165B1:3-17; 2:19-56
Site 1000, 165A5:248-251; 165B1:3-17
Site 1001, 165A6:309-314
Site 1002, 165A7:368; 165B4:85-99
Site 1003, 166A6:84-89
Site 1004, 166A7:156-158
Site 1005, 166A8:180-185
Site 1006, 166A9:243-246; 166B15:155-166
Site 1007, 166A10:305-309
Site 1008, 166A11:356-358
Site 1009, 166A11:357-358
Site 1010, 167A(1)4:57-63
Site 1011, 167A(1)5:92-102
Site 1012, 167A(1)6:135-139
Site 1013, 167A(1)7:161-163
Site 1014, 167A(1)8:183-187
Site 1015, 167A(1)9:227-229
Site 1016, 167A(1)10:247-256
Site 1017, 167A(1)11:291-293
Site 1018, 167A(1)12:320-325
Site 1019, 167A(1)13:359-364
Site 1020, 167A(1)14:395-399
Site 1021, 167A(1)15:438-442
Site 1022, 167A(1)16:468-473
Site 1035, 169A3:38-39, 57-58
Site 1036, 169A4:169
Site 1037, 169A5:211-212
Site 1038, 169A6:268
Site 1039, 170A3:61-71; 170B1:2-3
Site 1040, 170A4:116-126; 170B1:3
Site 1041, 170A5:163-170; 170B1:3-4
Site 1042, 170A6:199-201; 170B1:4
Site 1043, 170A7:227-233; 170B1:4-5
Site 1049, 171B_A3:59-70
Site 1050, 171B_A4:118-132
Site 1051, 171B_A5:188-196
Site 1052, 171B_A6:262-274
Site 1053, 171B_A7:325-329
Site 1065, 173A4:77-81
Site 1067, 173A6:114-121
Site 1068, 173A7:177-182
Site 1069, 173A8:241-244
Site 1070, 173A9:273-275
Site 1071, 174A_A3:58-65
Site 1072, 174A_A4:115-120
Site 1073, 174A_A5:163-168
Site 1075, 175A3:57-58, 60, 62, 64, 66-69
Site 1076, 175A4:92-98
Site 1077, 175A5:120-126

- Site 1078, 175A6:155, 157–159
Site 1079, 175A7:179–180, 182–183
Site 1080, 175A8:206–207, 209
Site 1081, 175A9:241–251
Site 1082, 175A10:283–291
Site 1083, 175A11:317–320
Site 1084, 175A12:352–363
Site 1085, 175A13:398–406
Site 1086, 175A14:434, 436, 438–442
Site 1087, 175A15:465–468
Site 1088, 177A3:6–10
Site 1089, 177A4:9–14
Site 1090, 177A5:8–17
Site 1091, 177A6:7–11
Site 1092, 177A7:6–12
Site 1093, 177A8:10–14
Site 1094, 177A9:8–11
Site 1095, 178A4:13–16; 178B35:1–57
Site 1096, 178A5:12–15; 178B35:1–57
Site 1097, 178A6:8–11; 178B35:1–57
Site 1098, 178A7:10–11; 178B35:1–57
Site 1099, 178A7:10–11; 178B35:1–57
Site 1100, 178A9:11–12; 178B35:1–57
Site 1101, 178A8:9–11; 178B35:1–57
Site 1103, 178A9:11–12; 178B35:1–57
Site 1108, 180A5:24–27
Site 1109, 180A6:43–48
Site 1114, 180A8:27–29
Site 1115, 180A9:31–34
Site 1116, 180A10:14–15
Site 1117, 180A11:8
Site 1118, 180A12:31–33
Site 1119, 181A3:11–18
Site 1120, 181A4:7–15
Site 1121, 181A5:8–15
Site 1122, 181A6:13–20
Site 1123, 181A7:13–26; 181B1:91
Site 1124, 181A8:12–23
Site 1125, 181A9:9–16
Site 1126, 182A4:12–23
Site 1127, 182A5:9–14; 182B6:1–11
Site 1128, 182A6:11–22
Site 1129, 182A7:12–16
Site 1130, 182A8:10–19
Site 1131, 182A9:9–14
Site 1132, 182A10:13–21
Site 1133, 182A11:7–10
Site 1134, 182A12:8–17
Site 1135, 183A3:7–13
Site 1136, 183A4:6–10
Site 1137, 183A5:8–13
Site 1138, 183A6:10–22
Site 1139, 183A7:9–13
Site 1140, 183A8:5–12
Site 1141, 183A9:7–12
Site 1143, 184A4:11–14
Site 1144, 184A5:9–11
Site 1145, 184A6:7–8
Site 1146, 184A7:10–12
Site 1147, 184A8:4–5
Site 1148, 184A9:12–14
Site 1149, 185A4:19–21
Site 1150, 186A4:23–26
Site 1151, 186A5:17–21
Site 1165, 188A3:21–38
Site 1166, 188A4:13–26
Site 1168, 189A3:21–34
Site 1169, 189A4:9–17
Site 1170, 189A5:19–36
Site 1171, 189A6:25–40
Site 1172, 189A7:22–36
Site 1173, 190A4:11–13
Site 1174, 190A5:14–17, 121–124, 128
Site 1175, 190A6:10–11, 78–80
Site 1176, 190A7:8–10, 68–70
Site 1177, 190A8:10–12
Site 1178, 190A9:11–14
Site 1179, 191A1:15–16; 4:16–20
Site 1183, 192A3:21–25
Site 1184, 192A4:11–13
Site 1185, 192A5:7–11
Site 1186, 192A6:12–15
Site 1187, 192A7:5–6
Site 1192, 194A3:8–11
Site 1193, 194A4:11–17; 194B1:1–7
Site 1194, 194A5:9–13
Site 1195, 194A6:6–10
Site 1196, 194A7:16–20
Site 1197, 194A8:9–14
Site 1198, 194A9:8–12
Site 1199, 194A7:20–22
Site 1200, 195A3:21–25
Site 1201, 195A4:23–28
Site 1202, 195A5:8–9
Site 1203, 197A3:10–11
Site 1204, 197A4:10–11
Site 1205, 197A5:7–8
Site 1206, 197A6:5–6
Site 1207, 198A3:18–25
Site 1208, 198A4:16–21; 198B2:1–44
Site 1209, 198A5:16–22
Site 1210, 198A6:13–20
Site 1211, 198A7:13–19
Site 1212, 198A8:12–17
Site 1213, 198A9:18–24
Site 1214, 198A10:9–12
Site 1215, 199A8:6–10
Site 1216, 199A9:6–7
Site 1217, 199A10:9–12
Site 1218, 199A11:10–19
Site 1219, 199A12:13–20
Site 1220, 199A13:10–18
Site 1221, 199A14:9–15
Site 1222, 199A15:7–9
Site 1223, 200A3:29–30
Site 1224, 200A4:40–41
Site 1225, 201B16:1–19
Site 1232, 202A3:9–11
Site 1233, 202A4:9–10
Site 1234, 202A5:8–10
Site 1235, 202A6:9–11
Site 1236, 202A7:11–15

- Site 1237, 202A8:14–20
 Site 1238, 202A9:12–17
 Site 1239, 202A10:10–15
 Site 1240, 202A11:10–13
 Site 1241, 202A12:10–13
 Site 1242, 202A13:9–12
 Site 1244, 204A3:10–13
 Site 1245, 204A4:11–13
 Site 1246, 204A5:5–7
 Site 1247, 204A6:8–9
 Site 1248, 204A7:7–9
 Site 1249, 204A8:9–11
 Site 1250, 204A9:9–10
 Site 1251, 204A10:11–13
 Site 1252, 204A11:9–11
 Site 1257, 207A4:11–16
 Site 1258, 207A5:10–18
 Site 1259, 207A6:11–21
 Site 1260, 207A7:11–18
 Site 1261, 207A8:10–19
 Site 1262, 208A3:9–17
 Site 1263, 208A4:8–15
 Site 1264, 208A5:6–12
 Site 1265, 208A6:10–19
 Site 1266, 208A7:9–18
 Site 1267, 208A8:9–20
 Site 1276, 210A1:16–19; 3:73–90
 Site 1277, 210A1:23; 4:8
 Sites 875–876, 144A7:269–274
 Sites 885–886, 145A7:308–310
 Sites 980–981, 162A3:66–70
 Sites 1023–1025, 168A4:77–78
 Sites 1054–1055, 172A3:40–44
 Sites 1056–1059, 172A4:93–97
 Sites 1060–1062, 172A5:178–184
 Sites 1063–1064, 172A6:259–262
 Sites 1110–1113, 180A7:17–19
 spectral analysis of age model, 175B22:12
 splice correlation, 182A4:93
 strontium isotope stratigraphy, 150B6:107–112
 summary, 152A7:80–81; 171B_A3:61; 4:119; 5:189;
 6:264–265; 7:326; 175A19:544–546; 177A1:22–
 23; 178A1:41, 52; 181A5:35; 6:57; 7:70; 9:37;
 182A1:17, 20–23, 26–31, 34, 37, 40, 49; 7:39–40;
 182B2:1–24; 189A1:35–37; 198A1:56–58;
 198B1:29–34; 204A1:60; 206A1:23–24; 206B1:4;
 210A3:331
 tektites, 150B13:250–252
 timescales, 138B6:74; 157A2:23–24
 transform faults, 159A1:14; 9:311–313
 units and ages, 180A6:148–149; 8:84; 9:100–101;
 10:50; 12:107–108; 180B4:1–13
 upper Cenozoic, 206B2:1–25
 Upper Cretaceous, 129B13:247–264
 Upper Cretaceous–Paleocene interval, 173B5:1–50
 upper Oligocene–lower Miocene interval, 199B4:1–13
 upper Quaternary, 169A3:38–39
 vs. age, 165B17:256; 199A1:76
 vs. depth, 135A(1):1:24–25; 164A5:80; 177A5:44–45;
 188A1:42; 4:66; 5:58; 189A7:68; 191A4:74;
 192A3:133; 197A1:33–34; 3:55–56; 199A15:22;
 210A3:263–265
 vs. gamma ray attenuation density, 138A(1):6:88–90
 vs. magnetic susceptibility, 154A6:252
 vs. paleolatitudes, 129B33:624
 vs. radiometric ages, 165B20:305–307
 Zanclean, 160B9:113–123
 zonation, 163A5:54; 188B3:25; 199A11:47–48; 12:53–
 54; 13:38–39; 14:30; 198A3:58–59; 4:39; 5:42;
 6:36; 199A8:25
See also biochronology; biomagnetostratigraphic da-
 tums; biomagnetostratigraphy; zonation
 biosynthesis
 sapropels, 160B22:276; 23:290, 292
 sediments, 175B10:11
 Biot-Gassman theory, velocity logs, 204B22:11–12
 biota, Paleocene/Eocene Thermal Maximum, 198B1:10–
 12
 biotic events. *See* biostratigraphic events
 biotic turnover, paleoclimatology, 207A1:6–8
 biotite
 alteration patches, 129B17:321
 aluminum-magnesium-iron composition,
 129B17:320
 argon-40/argon-39 laser data, 129B21:401
 argon-isotope age, 161B12:147–155; 21:300–305
 basalts, 169A5:213
 Cagayan Ridge, 124A12:304
 Celebes Sea, 124A10:131, 183
 chemical composition, 112B28:476; 124B35:474;
 149B26:455, 462
 clasts, 173A9:282–283
 Cornaglia Terrace, 107A9:633
 crystal chemistry, 129B17:315
 deposition, 124A10:143; 171B_A7:324–325
 diabase, 129B18:346
 electron microprobe data, 113B1:7
 felsic rocks, 118A6:117
 fractionation, 121B14:287
 gneisses, 161B19:267; 20:283–284
 Gortani Ridge, 107B5:77–78
 granite porphyry, 180A7:13–14
 high-grade schist, 161A6:213, 215, 220
 isochrons, 161B22:304
 lava, 197A5:14–15
 lithology, 167A(1):4:55; 9:227; 171B_A6:257–259;
 174A_A4:113–115; 175A8:205; 180A5:7–9;
 12:5–6, 14–15; 180B6:6–7, 11–16; 186A5:12–13;
 202A11:7; 204A3:6–8; 210A3:27, 37
 magnetite association, 118B8:167
 major elements, 179B2:75
 metadiabase, 180A7:14–15
 metagabbro clasts, 173A7:191
 metasedimentary rocks, 152B10:132–133
 mineral chemistry, 118B9:200; 129B17:322–323;
 161B19:269–271; 179B2:12; 180B8:10
 petrography, 119B3:50; 129B19:363; 160B36:455
 petrology, 144B29:501
 photograph, 152B10:144; 161A6:199, 233; 7:312;
 173A4:76

- photomicrograph, 157A9:457; 161A6:239, 241–246;
 161B19:276–279; 20:286–287; 25:344; 27:362;
 165A3:81; 173A6:136; 180A1:61; 5:49, 52; 6:94,
 102–103, 107; 7:33, 45; 8:53, 56; 9:70, 76–77,
 80, 82; 10:26; 12:74; 180B3:28; 7:55–58; 8:41;
 183A1:100; 5:111, 116; 197A5:52; 209A3:82;
 7:67; 210A3:152, 174, 206, 208, 223–224;
 210B2:34
- pressure-temperature conditions, 161B44:566–567
- quartz gabbros, 180B3:5–6
- red-green association, 118B8:167
- sand fraction, 157B17:303
- sandstone, 161B25:334–335; 210B2:4–5
- scanning electron microscopy images, 174A_B7:47
- schists, 161B19:264–266; 20:283, 288
- sediment provenance, 180B6:20–24
- Site 638, 103A9:234
- Site 701, 114A8:369; 114B40:739
- Sulu Sea, 124A11:212, 260–263
- tephra, 121B14:284; 165B20:302–304; 183B9:7–8
- textures, 161A6:223–224
- thermobarometry, 161B20:288–293
- tonalite gneiss, 173A6:131
- turbidites, 168A4:57–59
- Tyrrhenian Sea, 107B4:63; 5:77–78, 83
- veins, 176B9:11
- volcanic ash, 127/128B(2)87:1379, 1392; 201B19:8–
 10
- volcaniclastic sand, 180B7:6–7
- volcaniclastics, 157B13:189; 180B8:8–9
- vs. age, 178B15:11
- vs. depth, 151B31:556
- X-ray diffraction data, 161A6:230
- biotite, altered, photomicrograph, 210B2:22
- biotite, euhedral, sill/sediment contacts, 210A3:66
- biotite, green, synkinematic minerals, 118B8:180
- biotite, interstitial, photomicrograph, 206A3:207
- biotite, recrystallized, composition, 153B5:81–82, 90–93
- biotite grains
- photomicrograph, 180A9:92; 12:62, 68; 180B7:49–50
- sandstone, 180B7:10, 16
- volcaniclastic sand, 180B7:5
- biotite/muscovite ratio, 180B7:30–33, 36, 39–42
- biotite phenoclasts. *See* phenoclasts, biotite
- biotite phenocrysts. *See* phenocrysts, biotite
- biotite schist
- breccia, 173A7:188–189
- photograph, 173A4:76
- photomicrograph, 173A4:78
- biotopes. *See* neritic biotopes; paralic biotopes
- bioturbated facies, lithology, 178B25:7–12
- bioturbated sediments. *See* sediments, bioturbated
- bioturbation
- Aptian–Albian interval, 192A3:13–14
- basement, 197A6:7
- bioclasts, 133A(1)15:623
- biofacies, 174A_B(synthesis):7
- Cenozoic, 151A13:411
- chalk, 133A(1)8:260
- chemofacies, 144B51:900
- clay, 138A(1)10:204–205
- color, 178B3:4–5
- composite section, 188B12:15
- cores, 136A5:68
- Cretaceous/Tertiary boundary, 165A4:151–152;
 198B1:8–9
- cycles, 165B7:132; 166A2:18; 189A6:21–22
- décollement zones, 156B22:284
- deposition, 144A5:163–164; 10:356; 149A4:50, 52,
 56–62; 171B_A6:262; 7:324–325; 178A4:12–13;
 192A6:11–12
- diatoms, 146B(2)17:238–239
- distribution, 136B7:90
- fabric, 149B17:339
- glaciomarine sediments, 163X_A8:3
- glaucy lithofacies, 150B10:174–175
- ice-rafted debris, 120B(1)12:171–172
- ichnofacies, 138B10:177–178
- ichthyoliths, 145B26:404
- image facies, 166B7:78–81
- intensity vs. depth, Site 1225, 201A6:40
- laminated diatom ooze, 138B31:648
- Leg 129, 129B6:159; 32:604
- limestone, 133A(1)5:145
- Lingayen Gulf, 124E_A13:76, 78
- lithofacies, 135B6:88; 146B(2)22:299; 160B32:408
- lithologic motifs, 173A7:168–170
- lithology, 133A(1)13:513; 16:688, 694, 696–697;
 134A7:104; 8:145–147; 10:266; 135A(1)6:257;
 138A(1)9:127; 12:340–344; 139A7:301;
 149A4:52, 55; 5:124; 6:158; 7:221; 150A8:210–
 211, 214–217; 10:316–317; 151A7:166–171;
 10:322–326; 11:357–360; 152A6:60–62; 7:76–
 78; 155A14:433; 16:466–467, 470; 17:507;
 20:601; 21:637; 156A6:98–99; 157A4:60–63;
 9:443; 159A7:227; 160A4:59; 6:129–130; 7:161;
 8:220–222; 10:340–342; 161A4:59–64; 5:118–
 120, 128; 6:196; 7:304–305; 8:357–358, 361;
 9:393–394; 161B7:85–86; 162A8:263;
 163X_A6:20; 164A6:106–110; 7:179–182; 8:246;
 9:283–284; 165A4:145–150; 5:239, 242–243;
 6:297–302; 165B4:87, 98; 166A6:77–80; 8:177;
 9:239–241; 10:295–303; 11:350–355;
 167A(1)4:55–56; 7:161; 8:180–181, 183; 10:245–
 247; 11:289–291; 12:320; 13:357–359; 15:436–
 438; 16:468; 168A4:57; 5:109–111; 6:167–169;
 169S_A2:22, 24; 170A3:53, 55–56; 7:219–220;
 171A_A3:27; 6:84; 171B_A3:53–55; 4:98–116;
 5:181–183; 6:246, 250–253, 256–258;
 172A4:90–92; 5:164–165, 168–174; 173A6:110–
 114; 9:270; 174A_A3:45, 54–57; 4:104–113;
 5:157–159; 174AXS_A1:25–29; 2:18–33; 3:20–
 33; 4:13–14; 5:26–42; 6:22–48; 7:12–23;
 175A3:56; 5:117; 6:150, 152; 9:231–232; 10:276;
 11:315–317; 12:344–346, 351; 13:395; 14:433–
 434; 15:460; 177A4:6–7; 6:5–6; 178A4:4–13;
 5:5–12; 7:7; 8:3–9; 178B25:4–6, 8; 180A6:11–12,
 15–16; 8:7–8; 9:8, 16, 24; 10:9–10; 12:5, 11–14;
 180B6:15; 181A1:16; 3:5–8; 4:4–7; 5:4–6; 6:6–9;
 7:5–9; 8:5–9; 9:4–7; 182A1:22, 28, 39; 4:6–11;
 5:4–8; 6:4–5; 7:6–11; 8:4–9; 9:4–8; 10:4–6; 11:3–
 5; 12:4–7; 182B9:4–7; 183A3:4–5; 6:4–5;

- 184A4:8–10; 6:5; 7:6, 8–9; 8:4; 9:7–11;
 185A4:15–16; 186A1:10; 4:17–18, 21–22; 5:14–
 15; 188A3:16, 20–21; 4:13–14; 189A3:10–15;
 5:10–15; 6:14–19; 7:11–18; 190A4:6–8; 5:9;
 191A4:11–15; 192A3:5; 6:7–8; 194A3:5–7; 4:6–
 12; 5:4–6; 198A3:14; 5:11–12; 6:9–10; 10:5–9;
 199A10:6; 12:8–11; 13:6–10; 15:4–6; 200A3:9;
 201A6:9–13; 7:9; 8:9–11; 9:8–9; 12:9; 202A6:7–
 9; 8:7–9; 9:8–11; 11:8–10; 204A4:4; 6:3–8; 7:3–4;
 8:7–8; 9:5–7; 10:5–9; 11:4–7; 206A1:23; 3:23–26;
 207A4:8; 5:5–9; 6:5–8; 7:5–11; 8:5–9; 208A3:6–
 9; 210A3:38
- lower–middle Eocene, 189B1:11
- middle Berriasian–Valanginian–lower Hauterivian in-
 terval, 129B32:597
- Miocene, 133A(1)10:354
- mottling, 129B32:597; 133A(1)13:516; 138A(1)10:195
- mud, 178A2:15
- nannofossil ooze, 135B52:832
- ooze, 130B27:467; 133A(1)8:255; 9:306; 135B4:52–53
- organic matter, 146B(2)9:131
- oxygen minimum zone, 183B7:11
- oxygenation, 192A3:12–13
- Paleocene/Eocene boundary, 199A14:8
- paleoecology, 180A1:11
- paleoenvironment, 151A13:418–419; 152B24:289;
 160A7:162–164; 174AX_A1:18, 22–26, 29–32;
 181A7:25–26; 189A5:15–16
- petrography, 161B4:59
- photograph, 130A5:110, 115; 7:239; 132A4:86;
 135A(1)10:506; 138A(2)13:688, 692; 15:834,
 849; 16:908, 913; 17:978; 18:1034; 139A5:111;
 141A8:245–246; 10:352, 357, 359; 144A5:164,
 166; 11:426; 145A5:131, 133; 6:221; 8:345;
 149A4:54–55; 5:125–127; 6:160–161, 164;
 7:222–223; 150A6:76; 7:147; 151A5:65–68;
 6:119; 7:169; 9:276; 11:359; 155A11:279;
 13:391; 155B5:89; 156A6:101, 104; 157A4:64–
 65, 68; 5:117; 8:406; 9:447; 157B12:175;
 159A5:77–81; 7:232; 160A4:65–69; 8:235–238;
 9:299; 160B32:406; 161A4:69, 71; 5:120–121;
 6:193; 7:310; 8:362–368; 162A3:64; 4:107;
 5:155; 6:187; 164A9:285; 165A3:56, 59; 4:147;
 5:241, 244–247; 166A6:82–83; 10:300;
 167A(1)10:246; 169A3:61–62; 170A3:55;
 171B_A3:59; 4:103, 111; 5:179; 6:256;
 172A5:166–167, 175; 173A8:231; 9:274;
 175A5:119; 6:155; 7:181; 13:395–397; 15:464;
 177A3:24; 4:30; 5:50, 55; 6:38; 180A5:55; 8:47;
 9:78, 91; 10:28, 39; 12:57; 181A5:30; 6:51, 55–
 56; 8:53; 184A4:48; 9:56; 185A4:67, 69–70; 5:88;
 188A3:101–102; 188B12:11; 189A6:81, 84–87;
 7:63; 191A4:66–67, 71–72; 192A3:62; 6:46, 52,
 55, 58; 194A3:29; 5:49, 51; 8:36; 195A4:74;
 197A4:42; 198A4:47; 9:46–48; 199A10:27;
 200A3:63; 202A6:33; 9:47; 10:47; 11:41;
 204A3:50; 4:54–55; 205A4:75, 81; 207A6:46
- photomicrograph, 173A7:174; 192A6:51; 198B16:22
- physical properties, 120B(1)13:187; 178B30:4–7
- Pliocene, 160B36:457; 180B(synthesis):11
- postglacial sediments, 178B18:5
- radiolarites, 129B32:583
- sapropels, 160A5:95–96; 160B27:334–337
- sediment transition to basalt, 169A5:210–211
- sedimentary structures, 172B7:4–12
- sedimentation, 192A6:11
- sediments, 130A9:383, 387; 138A(1)11:281–285;
 (2)18:1029; 146B(2)14:219–229; 149B12:284;
 152A11:200, 206–208; 167B22:257; 174A_B3:4–
 6, 9; 178B7:10–14; 184A1:27–28
- Site 748, 120A7:192
- Site 803, 130A5:109
- Site 804, 130A6:183
- Site 914, 152A6:61
- Site 916, 152A8:94
- suppression, 138B30:643–644
- turbidites, 131A6:87, 94; 131B3:37; 11:151;
 135B7:105–106; 139B7:107; 149B12:285
- Turonian tuffs, 121A13:464
- underthrust section, 170A4:113–115
- volcanic ash, 165A5:263–264; 6:322–324
- volcaniclastics, 135A(1)5:199; 136B7:87–88
- vs. depth, 178B32:20, 33
- wavenumber, 178B32:27
- well-logging, 195A4:77
- X-ray diffraction data, 210A3:237
- X-ray radiography, 178B10:21
- See also *Anconichnus*; borings; burrows; *Chondrites*; *Gy-
 rolithes*; *Helicodromites* (?); *Helminthoida*; *Helm-
 inthopsis*; ichnofossils; microborings; mottling;
Nereites; *Ophiomorpha*; *Phycosiphon*; *Planolites*;
Scolicia; *Skolithos*; spreiten; *Taenidium*; *Teichich-
 nus*; *Terebellina*; *Thalassinoides*; trace fossils; *Zoo-
 phykos*; *Zoophykos* ichnofacies
- bioturbation, infaunal, hardgrounds, 133B36:527
- bioturbation index
- lithofacies, 146B(2)22:299
- vs. age, 146B(2)22:300–301
- vs. depth, 146B(2)22:302
- bioturbation structures
- Peru margin, 112B4:55
- Yaquina Basin, 112A15:441–442
- biounits, foraminiferal correlation, 155B38:588
- biowackestone
- cyclic alternation, 166A2:18
- lithology, 166A8:178; 11:350–352
- biphytane diols
- concentration, 175B10:30
- See also diols, biphytane
- birnessite
- ferromanganese crusts, 144B44:751, 758
- ferromanganese micronodules, 199B14:4
- manganese nodules, 138B40:807–809
- photograph, 144B44:766
- bisaccates
- pollen, 183B3:8
- vs. depth, 151B15:295
- biscuit sampling
- cores, 201A7:23–24
- photograph, 149A4:54, 60; 7:237
- Biscutaceae, photomicrograph, 198B7:68–71

- bishomohopanoic acid, Sites 798–799, 127/
128B(1)38:669, 671
- bismuth
altered rocks, 193B1:49
jasperoids, 193B9:6
pore water, 193B4:4
sulfides, 193B1:23; 10:4
vs. depth, 139B17:359–367
- bitumens
abundance, 180B10:5–7
alkenones, 167A(1)11:296–297; 13:369–370
bulk composition, 180B16:19
chromatograms, 139A5:131; 6:203, 206; 141A6:116;
7:213; 8:278; 9:334; 169A3:120; 4:179–182;
5:224; 6:284, 286; 180B16:5–6
extracts vs. depth, 139A7:491–493; 139B24:454
Exuma Sound, 101A10:401; 11:453
fluorescence, 139A7:321; 141A6:111–113; 8:269–272;
9:327–329
geochemistry, 139A6:197–200; 8:487–490;
169A3:119–120
geothermal gradient, 141B22:294–295
lithofacies, 155B34:551
Little Bahama Bank, 101A6:142; 7:231; 8:289
maturity vs. depth, 139A6:204–205
paleoenvironment, 160A7:164
Rock-Eval pyrolysis data, 165A5:256–257
sediments, 139B15:331–336; 141A10:389–392;
146A(1)4:80; 5:181; 6:265–266; 7:337;
146B(2)16:223–228; 150A6:96–98; 155A11:294–
295; 12:346–347; 14:423–424; 156A6:144;
7:227; 169A4:178–182; 5:222–225; 6:282–287;
189A3:41; 5:45
thermal maturation, 139A5:121, 124–125;
141A7:205–207
See also lipid/bitumen ratio
- bitumens, extractable
chromatograms, 141A10:402
sediments, 141A6:117; 7:214; 8:278; 9:335; 10:401;
160A5:115, 117; 7:189–190; 8:251–252; 10:370–
371
- bituminite
lonestone, 188A5:11
occurrence, 164B5:50–56
Site 755, 121A13:496
- bivalve fragments
accessory component, 188B4:19
basement, 160B54:735
biogenic components, 161B6:78–80
carbonates, 144B6:130; 9:178–186
Cenomanian/Turonian boundary, 207A1:7
Cenozoic, 133B27:401
diagenesis, 144B23:435
lithology, 160A7:162; 164A8:246; 166A6:77, 79;
7:154–156; 8:177–178; 11:353–355; 169S_A2:22;
171B_A4:116; 6:257–258; 180A6:25; 9:17;
12:18–19; 181A3:7; 182A8:7–9; 183A5:5–6; 6:6–
7; 8:6; 194A3:5; 5:4; 6:3; 7:7; 197A5:6–7;
201A8:9; 207A5:9; 6:9
photograph, 144A11:424; 152A11:201; 160A7:173;
160B33:422; 161B6:79; 166A6:81; 7:158; 8:178;
173A6:119; 8:238; 181A3:41; 194A5:42
photomicrograph, 160B33:425–426; 37:473, 475;
194A4:41, 46; 197A5:37; 205A5:55; 207A5:50
Pigafetta Basin, 129B6:160
sediments, 124B11:161; 169S_A2:60
Site 639, 103B6:74, 82; 8:116; 11:191–192
Site 823, 133B27:401
vs. depth, 144B14:281
wackestone, 103B6:71
wackestone-floatstone series, 103B6:69; 8:107
See also *Aucellina*; *Bathymodiolus*; clams; *Ensis*; *Glycym-*
eris; *Limopsis*; *Lithophaga*; *Macoma* oxygenation
event; nerineids; nuculids; Oxytomidae; oyster
shells; pelecypods; Pholadidae; *Tawera spissa*;
Zygochlamys delicatula
- bivariate plots, grain size, 146B(1)1:7–9
Biwa II and III excursions, 126A7:169; 190A7:11
black clay facies, composition, 102B1:6
black layers, lithology, 175A18:536, 542
black patches
lithology, 193A4:14
photomicrograph, 193A4:82–85
black seams
brecciated zone, 190/196B9:3
photograph, 190A9:39; 190/196B9:13
black shale
bioreactors, 207A7:27–29; 207B1:8–9
biostratigraphy, 207A1:42; 5:13; 8:18
Blake-Bahama Formation, 103B33:561
carbon/nitrogen ratio, 207A5:25; 207B1:8–9
Cenomanian, 207B1:6
Cenomanian/Turonian anoxic boundary event,
183A6:16
Coniacian–Albian interval, 207A1:21
core-log correlation, 207B14:15
Cornaglia Terrace, 107A9:612, 632
critical events, 210A1:19, 31
deposition, 171B_A6:260, 262; 207B1:4–5
diagenesis bioreactor, 207A4:24–26; 5:27–29; 6:30–32
geochemistry, 198A3:27–28; 210A1:20
geologic history, 207A1:3–4
hydrothermal alteration, 210A3:57
intact membrane lipids, 207B12:1–11
Jurassic–Cretaceous interval, 170A1:7
lithology, 103B33:557–563; 35:603–605, 622;
171B_A3:54–55, 59, 75–77; 4:102–116; 6:256–
258; 207A1:38–39; 5:8–10; 210A3:42–43, 54–56
locations, 113B15:194–195
log-adjusted depth scales, 207B14:1–29
lower Aptian, 198A3:42–43; 9:33
mass accumulation rates, 207A8:23–24
microbiology, 207A9:1–15; 207B13:1–6
mid-Cretaceous, 198A1:98
molecular biogeochemistry, 207A10:1–22
multiproxy characterization, 210B10:1–16
nitrogen isotopes, 210B10:4
oceanic anoxic events, 171B_B(introduction):3–4;
207A1:5; 210A3:97–98; 210B10:5
organic carbon, 107B33:540; 34:549, 574

- organic geochemistry, 107B33:537
- organic matter, 149B13:295–300; 207A6:28–29
- origin, 210B8:16–17
- oxygen isotopes, 207B11:1–13
- paleoenvironment, 207A10:9; 210A1:17; 210B13:20
- photograph, 171B_A3:60; 4:117; 6:258; 207A5:48, 51–53; 8:46; 210A3:186, 191, 213
- physical properties, 123A4:326
- postrift sedimentation, 210B1:29–31
- redox, 210A3:98
- Rock-Eval pyrolysis data, 171B_A3:81; 210B10:4–5
- Sardinian margin, 107A8:419; 107B12:171; 38:645
- stable isotopes, 207B6:1–23
- stratigraphy, 207A1:81
- structure, 159B2:14
- sulfur-iron-carbon system, 207B9:1–23
- total organic carbon, 207A4:73; 7:37, 78
- transform faults, 159A1:12
- Turonian/Cenomanian boundary, 123A4:107
- well-logging, 207A4:33, 72; 5:37; 8:73
- See also* oil shale
- black shale, laminated
 - origin, 210A3:55–56
 - photograph, 207A8:46–48; 210A1:69; 3:193
 - photomicrograph, 207A5:50
- black shale event, early Albian, 171B_B10:5, 7
- black siltstone breccia. *See* breccia, black siltstone
- black smokers
 - age, 158B9:113
 - fluid inclusions, 158B28:395
 - geochemistry, 158B4:51–52; 22:307; 29:365–366
 - heat flow, 158A3:25–27
 - hydrothermal fields, 158A1:7, 9–10; 2:19; 158B1:5–26; 193A1:5–7
 - major and trace elements, 158B4:51–56
 - rare earths in anhydrite, 158B12:152, 157–158
 - relation to veins, 158A7:113–114
 - seawater mixing, 158B11:135–136
 - strontium and oxygen isotopes, 158B11:129–141
 - sulfur isotopes, 158B5:76
 - See also* Snake Pit hydrothermal area; white smokers
- black soot
 - fluorescence, 169A3:119
 - sediments, 139A7:487; 169A4:178–179; 5:222–223; 6:284
- black spots, photograph, 202A8:52
- black staining, sediments, 155B37:573
- Blackman-Tukey spectral analysis
 - caliper logs, 199A12:87–88
 - sedimentation rates vs. frequency, 166B15:165; 16:172
- Blake excursion event
 - correlation, 155B39:604–606
 - geomagnetic events, 155B12:235, 238
 - Jane Basin, 113A12:727
 - lithology, 155A22:685
 - magnetic declination vs. depth, 175A4:101
 - magnetic excursions, 172A6:266
 - magnetic inclination, 172A3:46
 - magnetic reversals, 166A9:247
 - magnetostratigraphy, 160B5:71–72; 172A5:188; 175A3:71; 4:99; 7:186; 180A7:21
 - Salaverry Basin, 112A13:320
 - sediments, 161B40:508; 170A3:70; 190A7:11
 - Site 790, 126A7:169
 - Site 888, 146A(1)4:76
- blanking, gas hydrates, 164B26:260
- blastesis, gabbros, 153B31:536
- bleaching
 - alteration, 193A3:39–41, 51; 4:27–29; 193B1:16–17
 - geochemistry, 193B1:27
 - petrology, 193A5:5–6
 - photograph, 193A1:52; 3:108, 110, 144, 150–153, 201; 193B1:57
- blebs
 - abundance, 155A12:332
 - basement, 183A5:15, 25; 6:27, 32, 37–38; 7:21–22; 8:15
 - chalcopyrite, 169B9:5
 - lithology, 154A6:235–236; 155A6:92; 169A5:208; 174AXS_A3:24–25; 207A4:5; 208A3:8; 6:6–10
 - metagabbro clasts, 173A7:191
 - olivine gabbros, 176B4:6–7
 - petrography, 192A3:27
 - photograph, 155A11:286; 159B7:69; 169A3:7577; 183A5:89; 9:52; 208A4:46
 - serpentinized peridotite, 173A7:192–193
 - sulfides, 176A3:27
- blebs, andesitic, photograph, 134A11:343
- blebs, breccia, 134A11:338
- blebs, pumice, Site 758, 121A12:368
- blebs, pyrite, sketches, 168A5:131
- blebs, sandy, photograph, 161B7:87
- block faults. *See* faults, block
- block rotations
 - magnetic inclination, 147A1:13
 - volcanic piles, 129B25:459
- block structures
 - photograph, 205A6:32
 - rafted, 135B7:116; 52:832–833
 - redeposition, 205A6:9
 - seabed observations, 178A9:9–10
 - sedimentation, 205A5:15
 - tectonics, 159B2:19–20
- blocks, tilted, Site 747, 120B(2)47:884–885
- blocky texture. *See* textures, blocky
- bloom events, biogenic
 - causes, 138B35:747–748
 - mass accumulation rates, 184B21:3
 - sedimentation, 138B35:727, 745–748
 - Site 798, 128A4:165
- “blue ocean” production, Miocene, 154B25:386
- blue spectra. *See* red/blue spectral ratio
- blueschist facies
 - lithology, 195A3:13
 - metamorphism, 125B36:606
 - mud volcanoes, 195A1:11
 - serpentinite seamounts, 125B25:426
- BNE. *See* Backus-Naur form
- Boehm lamellae, lithology, 174A_A3:55

- boehmite
breccia matrix, 173B1:8–14
dust, 130B28:474–477, 480–485, 489–490
secondary minerals, 142B9:71
See also mineral/boehmite peak area ratios
- boiling, fluid inclusions, 147B11:224–225
- Bolboforma
abundance, 181A9:82–83
biostratigraphy, 152A11:218–219; 160A5:102; 6:135;
7:176; 10:355; 162A3:69; 162B3:35–49;
177A7:8–9; 178A5:14–15; 181A4:12; 7:139;
8:108; 9:81; 181B1:17, 94; 189A3:28–29; 4:13;
5:26–28; 6:32–34; 7:28–30
- bole horizons, petrology, 134B18:364–367
- bolide impacts
Cretaceous/Tertiary boundary, 165A8:393–394;
171B_A1:9
impact craters, 165A1:7
mikrotektites, 150B1:14
- Bolivina* acme event
lower Miocene, 208A1:39–40; 208B1:17–21
magnetic susceptibility, 208A1:105
Miocene seismic data, 208B6:9
seismic data, 208B6:9
- Bolivinidae
abundance, 144B6:131; 9:174, 179, 183, 185, 187
morphology and sediment chemistry, 115B31:590–
591, 593
Site 766, 123B14:278
Site 821, 133B26:367
- Bølling–Ållerød interval
millennial cycles, 167B25:277–296
oxygen isotope chronostratigraphy, 184B2:5
paleoclimatology, 146B(2)23:314, 320–323;
167B21:251–254
- Boltzmann's constant, magnetic properties, 173B8:9
- bombs. *See* volcanic bombs
- Bonarelli event
biostratigraphy, 183A6:11
Cenomanian–Turonian anoxic event, 183B3:3–4
critical events, 210A1:18–19; 210B13:21
oceanic anoxic Event 2, 207A1:5
postrift sedimentation, 210B1:27
- bone beds, lithofacies, 160B43:555
- bone fragments
accessory component, 188A3:74–75; 188B4:10
photograph, 201A8:33
See also cetacean bones
- boninite series volcanics (BSV), forearcs, 126B27:422
- boninites
basement, 180B(synthesis):6
composition, 125B38:640, 652; 127/128B(2)51:844;
135B24:386–390
crystallization sequence, 125B10:182–183, 198
formation, 126A1:6
fractionation, 125B9:152; 38:632
genetic models, 125B38:623–624, 640, 644–645, 647,
650–652
geochemistry, 125B9:150; 13:240–241; 38:636–637;
135B29:529–530
intrusion age, 126B42:632
- Izu-Bonin Islands, 125A2:8; 10:199
lithology, 125B10:166
mafic phenocrysts, 125B10:182
magmatism, 135B55:898
magnesium number, 125B10:197
mantle source, 125B9:156; 28:500; 38:637–641
melting, 125B38:645–647
mineralogy, 125B38:632
noble metals, 135B35:599, 601
olivine stability field, 125B10:183, 185
origin, 126B27:422
petrology, 125B38:630–632
Site 786, 125A14:321, 325; 125B9:162
stable isotopes, 125B13:246–260; 38:633
subduction, 125B12:229; 38:643–645
suprasubduction zone (SSZ) ophiolites, 125B1:8
trace elements, 125B12:229, 232; 38:632–633, 641–
642
two-component mixing, 125B13:250–255
volcanic ash layers, 125B15:286
vs. spatially related peridotite, 125B28:501, 504
water saturation, 125B8:137–138
- boninites, high-calcium
crystallization temperature, 125B38:645
distribution, 125B38:631
Izu-Bonin-Mariana region, 125B9:154
petrography, 125B10:178–179, 185–186
rifting correlation, 125B9:156
rock-water phase diagram, 125B10:199
- boninites, intermediate-calcium
alteration, 125B12:222–223
crystallization, 125B38:645
distribution, 125B38:631
mantle source, 125B38:637
mineralogy, 125B10:185–187
petrography, 125B13:238–239
shallow-level processes, 125B12:226–227
Site 786, 125B10:178
trace elements, 125B12:217
zirconium/strontium ratio, 125B12:223
- boninites, low-calcium
crystallization, 125B38:645
distribution, 125B38:631
Izu-Bonin-Mariana region, 125B9:155
mantle source, 125B38:637
mineralogy, 125B10:177–178, 184, 187
neodymium isotopes, 125B13:255
petrography, 125B10:173; 13:238
rock-water phase diagram, 125B10:199
shallow-level processes, 125B12:225–226
Site 786, 125B9:154
trace elements, 125B12:213
subduction, 125B38:641–643, 649–650
- boninitic lava. *See* lava, boninitic
- Boreal. *See* Holocene/Preboreal summer monsoon maxi-
mum
- boreal taxa, paleoenvironment, 210A1:17
- Boreal/Tethyan differentiation, nannofossils, 198B7:12–
13, 54
- borehole azimuth logs
caliper logs, 141A6:137; 10:421; 147B18:336

- Formation MicroScanner imagery, 147B18:333
vs. depth, 141A10:421; 176A3:232; 180A12:148;
209A7:113
- borehole breakouts
 - azimuth, 204B4:12, 14
 - lithology, 204A10:7–8
 - plan view, 204B4:10
 - resistivity-at-the-bit, 204A3:98
 - stress, 159B21:212–213, 215; 204B4:1–14
- borehole deviation logs
 - Formation MicroScanner imagery, 147B18:333
 - vs. depth, 141A10:421; 148A2:77–79; 148B22:310;
159A5:118; 6:203; 8:292; 161B24:322, 325;
176A3:232; 180A6:202; 9:142; 12:147;
197A3:138; 200A4:146; 209A7:113; 10:149
- borehole diameter
 - geochemical logging, 127/128B(2)65:1029–1030
 - vs. depth, 141A7:227; 205B13:17–20
 - waveforms, 205B13:6
- borehole elongation
 - azimuth, 148A3:174
 - breakouts, 135B18:290–298
 - caliper logging, 147B18:336–337
 - effect of tool centering, 147B18:339
 - Formation MicroScanner imagery, 134B34:595;
147B18:334–335
 - fractures, 148B22:314
 - orientation, 134B32:574
 - stresses, 148B23:323–325; 29:384
 - vs. depth, 148B24:329; 29:386; 32:406; 152B37:445;
159A5:121
- borehole extension, fractures, 160B41:530–534
- borehole fluids
 - geochemistry, 137A2:35–37; 137/140B13:141–152;
148A2:53–57; 148B9:111–118
 - See also* Lawrence Berkeley Laboratory (LBL) high-
temperature borehole fluid sampler
- borehole geometry tools
 - core reorientation, 135B19:302
 - downhole measurements, 180A6:72–76; 8:41; 9:55–
56; 12:48–49, 150
 - Formation MicroScanner imagery, 180A8:106; 9:144–
147
- borehole geophysical observatory, instruments,
186A1:9–15
- borehole images
 - logging-while-drilling data, 193A3:90–91
 - structures, 196A1:12
- borehole instruments
 - deployment, 186A5:121
 - jet-in test, 186A4:11–13
 - photograph, 186A4:159–164
 - Site 1150, 186A4:57–59, 71–74, 205–206
 - Site 1151, 186A5:36–37
 - Site 1179, 191A4:43–46, 120–132
 - Site 1200, 195A3:46–52
 - Site 1201, 195A4:44–61, 158–188, 225–233
 - See also* instruments
- borehole offsets
 - cores, 166A9:249; 175A3:73; 4:102; 5:132; 6:167;
7:190; 8:213; 9:255–256; 10:297; 11:327;
12:368; 13:410; 14:445; 15:475; 175B20:9
 - vs. depth, 175A3:77; 4:105; 5:132; 6:167; 7:190;
8:213; 9:258; 10:298; 11:330; 12:368; 13:414;
14:448; 15:477; 181A3:51; 4:38; 6:70; 7:86; 8:71;
9:46; 186B8:17
- borehole positions, seismic profiles, 168A5:105; 6:165
- borehole seals, CORK, 139A7:370–380
- borehole seismic experiment, objectives, 102A3:95, 103–
106, 123
- borehole seismic observatories
 - operations, 200A4:1–2
 - Pacific Ocean NW, 191A1:3–5; 3:1–58
 - plates, 195A1:20–22
- borehole seismometers
 - deployment, 203A1:18
 - instruments, 195A1:49–51
 - power spectra, 195B2:17–18
- borehole spike, sodium bromide, 148A2:56–57
- borehole televiewer (BHTV)
 - Atlantis II Fracture Zone, 118A6:205–207;
118B14:264; 21:373
 - breakouts, 135B18:287–299
 - core reorientation, 135B19:301–311
 - data analysis, 137/140B25:293–304
 - Formation MicroScanner imagery, 134B34:593
 - fractures, 127A6:307; 7:399; 134A9:228
 - hole ellipticity, 127A6:307
 - methods, 102A3:95–97, 106, 107; 102B11:161–162
 - operations, 123A4:74
 - Site 504, 137A2:47–50; 140A2:113
 - Site 765, 123A4:65, 210–213, 248; 123B26:504, 506
 - Site 796, 127A6:307
 - Site 797, 127A7:399, 409
 - Site 831, 134A11:354, 357–360
 - stick-slipping, 123A4:213
 - stress, 127/128B(2)67:1047; 134B32:565–576
 - temperature measurements, 123B27:516, 519
 - Vanuatu, 134A11:359
 - vs. depth, 134B32:570
- boreholes
 - azimuth, 151A7:208
 - casing, 179A5:20; 193A3:99
 - correlation with seismic reflection, 157B28:473–498
 - cross sections, 137/140B25:297
 - depth shifting, 165B11:194, 196
 - direction and shape, 141A10:421–422; 151A7:207
 - drilling, 186A1:26–28
 - enlargement, 138A(1)11:315; 148A2:77; 207A4:34
 - Formation MicroScanner imaging, 147B18:329–345
 - geometry, 147B18:330–335; 186A4:53–54
 - installation, 186A5:45; 205A4:69
 - instruments, 186A3:1–53; 191A4:43–46
 - microresistivity, 197B5:1–22
 - orientation methods and tools, 135B19:301–302
 - photograph, 193A3:99–100
 - recovery vs. depth, 176A3:229
 - rupture, 161B24:325–326
 - stress, 135B18:287–299

- temperature, 151A5:92; 175A5:141; 9:272
tools, 139A3:43–53
velocity and density, 199B13:6–7
vs. depth, 155A7:161
well-logging, 176A3:87
See also instrumental borehole seal; Los Alamos National Laboratory (LANL)/Leutert borehole samplers; seismic-borehole correlation
- borings
carbonates, 133B34:506
photograph, 144A4:116; 171B_A6:251
worms, 133B21:299
See also burrows
- bornite
geochemistry, 129B15:290
harzburgite, 147B5:93
oxide-rich ferrogabbros, 118A6:125
petrology, 158B1:9–11, 14
semimassive sulfides, 193A4:39
- boron
adsorption/desorption, 127/128B(1)36:640–641
alteration, 127/128B(1)36:639–640; (2)79:1266; 186B14:10–13
black shale, 207A4:26
dissolution, 208A5:51
fluid-rock interactions, 195B6:1–23
gas hydrates, 127/128B(1)36:639
geochemical cycles, 195B1:8; 5:5–8
geochemical data, 152A8:99
hydrothermal fluids, 139B20:399
oceanic crust age, 185B1:15
organic matter, 127/128B(1)36:640
pore water, 127/128B(1)36:638–642; 129B14:269–275; 131B13:165–174; 31:396; 169A4:171–175; 5:218–219; 6:279; 171B_A3:77; 4:144; 5:209; 6:286; 186B14:5–6; 193B4:4; 195A3:31–37; 198A3:37; 4:28; 5:28–29; 6:26; 7:24; 8:23; 9:30; 199A15:12; 202A3:13; 4:15; 5:13; 6:15; 7:18; 9:19; 10:18; 13:14; 204A7:11, 40; 10:15–16; 205A4:47; 207A6:32; 8:28; 208A3:21; 4:19; 5:15; 6:23; 7:22; 8:23
reaction zones, 137/140B13:147–150
sand transport, 127/128B(1)36:640
seawater-peridotite interaction, 195B4:6
sediments, 129B2:48, 50; 152A11:237; 169B10:19; 169S_B1:40; 192B4:1–6; 208A5:17–18
serpentine mud, 195B5:1–18
siliceous deposits, 129B2:41
Site 794, 127/128B(1)36:638–641
Site 795, 127/128B(1)36:638–641
Site 796, 127/128B(1)36:638–641
Site 797, 127/128B(1)36:638–641
vs. chloride, 127/128B(1)36:642; 139B22:437
vs. depth, 134B8:113, 117–118, 124–126; 137/140B13:145; 139B22:437; 40:749–750, 755; 141A6:120; 7:217; 8:281–282; 10:406–407; 148B34:422; 152A8:102; 11:239; 168B9:107–114; 169A3:116; 4:177; 5:220; 6:276–282; 169S_A2:56, 59; 171B_A3:84; 4:147; 5:217; 6:296; 186B14:18–19; 192B4:5; 195A1:45; 3:114; 4:135; 195B5:14–15; 6:19; 9:9; 10:7; 198A3:96; 199A8:35; 9:26; 10:39; 11:64; 12:69; 13:53; 14:38; 15:30; 202A3:36; 4:48; 5:42; 6:47; 7:55; 9:63; 10:58; 11:53; 12:63; 13:51; 204A3:59; 4:61; 5:28; 6:39; 7:36; 8:48; 9:46; 10:52; 205A4:147; 5:84; 207A4:58; 5:68; 6:67; 7:63; 8:59; 208A3:57; 4:58; 5:48, 51; 6:67; 7:57; 8:56
vs. iodine, 195B5:16
vs. magnesium, 127/128B(1)36:642; 137/140B13:146; 139B20:402; 169A3:118; 4:172, 178
vs. silica/magnesium oxide ratio, 195B4:30
vs. titanium oxide, 195B4:31
- boron-11
pore water, 131B13:166–168; 186B14:7, 11
vs. depth, 186B14:21
- boron/beryllium ratio, serpentine mud, 195B4:8
- boron/chloride ratio
pore water, 195B5:4
vs. depth, 195B5:14; 6:19
- boron isotope approach, partial pressure, 208A1:57
- boron isotopes
adsorption/desorption, 127/128B(1)36:640–641
alteration, 127/128B(2)79:1266
pore water, 127/128B(1)36:638–642; 195B1:7–8; 6:6–7
Site 794, 127/128B(1)36:638–641
Site 795, 127/128B(1)36:638–641
Site 796, 127/128B(1)36:638–641
Site 797, 127/128B(1)36:638–641
vs. 1/boron ratio, 195B6:20
vs. depth, 148B34:423; 195B6:19
water flux, 186B1:8–9
See also boron-11
- boron/lithium ratio, serpentine mud, 195B4:8
- Bortonian, foraminifers, 181A7:20; 8:18, 20
- Botryococcus braunii*
kerogen, 157B35:599–601
paleoenvironment, 207A10:9
- Botryococcus* colonies, Miocene, 180B15:1–6
- botryoidal texture. *See* textures, botryoidal
- bottom currents
clay minerals, 178B8:10
current speed vs. relative frequency, 138A(1)8:107
deposition, 178B25:9
detrital transport, 119A15:551
ferromanganese crusts, 144B44:759–760
grain-size effects, 112B22:375
Indo-Australian straits, 123B15:315
lithology, 183A8:7
mass accumulation rates, 178B23:10–11
radiolarians, 123B15:312
sedimentation, 119A28:525–526
silt layers, 119A15:542
surface water productivity, 112B22:377–381
upwelling, 112B22:369
- bottom-hole assembly
hardware description, 132A7:164–165
navidrill, 118A2:37–38
positive displacement coring motor (PDCM), 118A2:25
- bottom-simulating reflectors (BSR)
accretionary complexes, 204A1:56–57; 3:10
acetate and hydrogen, 204B17:5

- age, 127/128B(2)73:1155–1156
 causes, 127/128B(2)73:1145–1147
 chloride, 204A10:55
 gas hydrates, 141B18:243–260; 24:311–312
 gas transport, 204B15:8–9
 heat flow, 127/128B(2)73:1147–1148; 141B19:253–258
 Hydrate Ridge S, 204B2:11–12
 infrared scanning, 204A7:16
 iron sulfides, 204B18:6–7
 magnetic polarity, 127/128B(2)73:1147
 maps, 204B2:29
 opal-A/opal-CT transition, 127/128B(2)73:1149
 rock magnetism, 204B18:13
 sedimentation, 127/128B(2)73:1147–1148
 sediments, 204B11:8
 seismic data, 204A6:28, 31; 7:27; 8:60
 temperature and depths, 204B15:50
 thermal anomalies, 204A10:67
 vs. chloride, 204A3:61
 vs. depth, 204A5:23
 Yamato Basin, 127/128B(2)73:1155
- bottom traction currents, diagenesis, 198A9:15
- bottom water circulation
 biostratigraphy, 202A6:10
 Callovian oxygenation, 129B32:601
 carbon isotopes, 117B24:436
 cold water influx, 121A1:18
 current-related redeposition, 145B38:592
 development, 152A13:283
 expansion, 189A1:56; 189B1:3
 ice-volume control, 117B24:436
 Northeast Georgia Rise, 114B2:29, 31
 Norwegian-Greenland Sea, 151A1:18
 oceanography, 169S_A2:15–16
 Oligocene southerly flow, 145B38:588–589
 phosphorus sources in hardgrounds, 144B22:423–424
 Pisco Basin W oxygenation, 112B23:395
 pore water, 162A8:276
 production and mixing, 177A1:9
 Salaverry Basin, 112B22:378–379; 23:393, 395
 Site 698, 114A5:113, 122
 Site 699, 114B37:686
 Site 700, 114A7:307
 Site 701, 114A8:364, 406, 411–413; 114B11:218
 Site 702, 114A9:484, 515
 Site 703, 114A10:550; 114B12:250
 Site 704, 114A11:626, 684, 687; 114B25:468–469; 26:479–480
 Upper Jurassic–Lower Cretaceous, 129B32:604
 ventilation, 189A1:34
- boudinage
 brown amphibole veins, 209A5:19–20
 Conical Seamount, 125B25:416
 hydrothermal alteration, 209A5:14
 mica schist, 180A7:12
 petrology, 180A11:5
 photograph, 161A5:14; 170A7:224; 209A5:96
 photomicrograph, 180A7:36; 206A3:266; 209A5:63, 138
 sediments, 161A7:316
- underthrust section, 170A4:114–115
See also microboudins
- Bouguer anomalies
 Baffin Bay, 105A1:8
 Broken Ridge, 121B34:684
 extensional basins, 161A1:9
 fracture zones, 209A1:80
 maps, 180A2:16
- boulders
 basement, 183A1:17–19
 crystalline, 119B6:93, 125
 glacial, 163X_A4:7
 petrology, 149B36:581
See also pebbles
- Bouma sequence turbidites
 Barbados Ridge, 110A4:79
 Bouma A, 157B14:215–216
 Bouma D, 200A3:9
 Bouma DE, 175B15:6
 Bouma Tbcde, 155A20:599
 Bouma Tcd, 155A14:416
 Bouma Tcde, 155A14:417; 22:666
 calcareous sand/siltstone/claystone, 173B4:16
 calcareous sediments, 123B1:20, 28
 deposition, 156A7:203
 Galicia margin W, 103A9:233–238, 276; 103B31:513–519; 36:641
 Indus Fan, 117A8:164
 lithofacies, 141B12:171
 lithology, 123B5:118–119, 125; 7:157; 33:601, 603; 135A(1)4:101; 139A5:110; 149A4:50; 155B40:614; 168A4:57; 173A8:228–234; 180A5:17–19; 10:10; 184A4:9–11; 9:8
 petrography, 161B4:59, 62, 64
 photograph, 149A5:125; 169A3:58
 Pliocene, 180B(synthesis):11
 radiolarian claystones, 123B1:15, 17
 sedimentation, 146A(1)5:154–155
- bound water, occurrence, 105B43:815
- boundary currents, lithology, 181A6:7–9
- boundary layers
 conductive, 209B1:1–33
 fractionation, 179B(synthesis):31
 penetration, 140A2:127–128
- boundstone
 bryozoans, 182B13:1–29; 194A4:17
 deep-marine diagenesis, 101B18:258–260
 environment, 194B5:16–17
 lithology, 133A(1)18:808; 144A6:214–219; 9:290–293; 10:350–351; 173A8:238; 194A7:7
 Oligocene–Miocene interval, 101B18:255–260
 oxygen isotopes, 101B18:257–260
 perireef deposition, 101B18:256–258
 photograph, 173A8:238–240; 194A7:545
 photomicrograph, 101B18:257, 259; 173A4:78; 182B9:11; 194A9:37
 shallow-marine diagenesis, 101B18:256–258
- boundstone-rudstone series
 coral, 194A7:545
 dolomitic coral, 194A7:70, 72
- bowlingite. *See* saponite

- box texture. *See* textures, box
- Braarudosphaera* chalk
 paleoceanography, 180A6:45
 paleoecology, 161A5:136
- Braarudosphaeraceae*
 Bahamas, 101B3:78; 4:89
 nannofossil assemblages, 198B7:55–56
 paleoceanography, 180A6:45
 photomicrograph, 198B7:78–79
- brachiopods
 biogenic components, 161B6:78–80
 lithology, 174AXS_A6:26–27
 occurrence, 103B6:82; 182A10:10; 183A5:5–6
See Neothyris
- brackish environment
 carbonate content, 189A3:38–39
 paleoenvironment, 189A6:47–48
- braided deltaic environment. *See* deltaic environment, braided
- braided stream deposits. *See* stream deposits, braided
- branching textures. *See* textures, branching
- brassicasterol, sapropels, 160B21:266
- bravoite, hydrothermal veins, 153B30:524
- breakouts, borehole
 histograms, 137/140B25:298
 in situ stress, 196A4:22
 resistivity-at-the-bit images, 196A4:52–53
 resistivity logs, 196A1:27; 4:29
 stress, 137/140B25:296–303
 structures, 196A1:12
 tectonic stress, 134B32:569–574; 35:617
 vs. depth, 137/140B25:299
- breakpoint, buried, middle Miocene, 174A_A1:8
- breakup unconformity, rifting, 173A1:8–12
- breccia
 abundance, 111A3:125
 age, 157B19:334
 alteration, 111A3:65–67; 118B8:159, 171, 175;
 148B10:123; 159B10:98; 183A6:50–52; 7:42–43;
 185A3:19–23, 29–31; 4:25–26; 187A1:10;
 187B5:8; 193A1:27; 3:38–39; 193B1:21;
 198A9:49; 206A3:69; 209A5:12; 8:2–3; 210A3:57
 argillitization and mineralization, 125A14:331
 basalts, 197A5:10; 206A3:78–79
 basement, 165A8:392–393; 173A1:11–12; 9:279;
 183A1:18–21; 5:17–22, 38–43; 6:27–30, 36–40;
 7:14–37; 9:14–20
 basement/sediment contact, 161A6:210–211, 216;
 161B25:332–335
 biostratigraphy, 134B10:200–201
 brown halos, 192A6:18
 Cagayan Ridge, 124B38:512
 calcite, 149A6:170–172; 187A7:27
 carbonates, 118B8:173, 175
 Celebes Sea, 124A10:139–140, 148, 180
 clasts, 149A6:162–164; 158A7:73; 158B18:243–244;
 161A6:235; 169A3:59
 composition, 135B55:897; 185A3:111
 cores, 131A6:113, 134, 146; 141A6:106, 108;
 147A4:114
 correlation, 135B22:367–368
 Cretaceous, 149B39:627
 deformation, 118A6:106; 173A6:148
 density, 185A3:22–23
 deposition, 149A6:203; 161B7:95–96
 dilation, 193B1:28–29
 dip histograms, 148B17:255
 distribution, 185A3:77
 domains, 141A9:323–324; 190A5:12
 emplacement and origin, 149A6:167–168
 fabric, 149A6:184–185
 fault zones, 135A(1)11:598–601
 felsic intrusions, 118A6:102
 flows, 152A11:229
 Formation MicroScanner imagery, 176A3:238–239
 Galicia margin W, 103A1:11
 geochemistry, 149A6:165; 157B12:155–156
 geochronology, 157B11:134, 137
 hydrothermal fields, 158A1:9–10, 12; 158B1:11, 22–
 23; 3:42–46
 igneous rocks, 209A3:25–26
 in volcanic rocks, 183B17:1
 isotopes, 148B10:145
 Jurassic–Cretaceous interval, 170A1:7
 late magmatic intrusions (LMIs), 118B8:172–173
 lava flows, 134B17:361; 152A9:129–131
 leucocratic diopside–plagioclase veins, 118B9:207
 lithology, 103A10:423; 139A7:449–450; 148B35:437–
 439; 149A4:59–62; 149B45:688; 152A7:78;
 157B12:156, 161; 159A8:266; 160A11:381–383;
 163X_A7:3–4; 166A8:178; 169A3:52; 170A3:57,
 60–61; 4:103–108; 6:195, 197; 7:219–220;
 173A7:175–177, 186–189; 9:273; 183A1:24; 4:5,
 11–12, 15; 185A3:13; 187A12:3–8; 14:4;
 192A6:8; 194A8:7–9; 195A4:12–14; 196A3:18;
 205A4:21; 210A1:22; 4:5–6
 magmatic/hydrothermal zone, 118B8:159, 165–166,
 175
 magnetic properties, 173A7:183, 185; 176B11:13, 48,
 56
 matrix, 148B35:443; 173B1:1–14
 metamorphism, 118B8:172; 173A7:193
 microorganisms, 168B14:167–174
 mineralization, 158A8:144
 morphology, 195A3:55–56
 mylonite zone, 118B26:465
 Norwegian Sea, 104A4:96
 ores, 158B28:411–412
 origin, 118A3:49
 osmium, 158B7:99
 overprinting, 173A4:201
 oxidation, 118A6:139; 183A5:28
 oxygen isotope depletion, 118B8:171, 175
 pahoehoe lava, 183A1:16
 permeability, 148B35:446
 petrography, 173A6:131–132; 9:273; 187A8:4–5; 12:5–
 8
 petrology, 134A9:198–199; 13:501; 148A3:146–148;
 149B36:580–581; 163B2:20–24; 168A5:114–115;
 173A9:279; 187A1:8; 191A1:15; 4:26–35
 photograph, 134A9:193; 141A6:112; 10:356, 393;
 144A4:134; 148A3:147–149, 164–165;

- 149A4:62, 93; 6:168, 186–187; 7:234–235;
149B22:403; 36:587; 150B11:210; 153A3:100;
158A7:70–81; 8:152; 159A6:170, 173, 189;
8:265; 9:304; 160A8:249; 11:387; 14:483;
161A4:68; 6:236, 241–243; 161B25:341;
163A5:52–53; 165A6:327–328; 166A8:204;
169A3:58; 170A7:223–224; 173A7:176–177,
188; 9:274; 180A8:80; 11:26–27; 183A4:40, 44,
63–64; 5:87–92; 6:80; 7:109; 9:59, 61, 66–68, 71,
74–75
photomicrograph, 161B25:342–344; 173A7:201;
9:282; 180A8:76–78; 11:17, 27; 183A5:93, 96–
97; 185A3:114; 187A15:20–21; 190A9:43;
191A4:96, 98; 192A5:82; 6:58, 61; 193A1:75;
4:134, 170, 180; 194A8:41; 197A1:53; 4:46;
198A9:50; 206A3:234, 237–238, 282–284
provenance, 119B16:307
quinones, 205B8:18
rare earths in anhydrite, 158B12:155–159
rubble zone, 209A7:12
seawater hydration, 1189:209
secondary minerals, 118B9:208
sedimentary vs. tectonic origin, 148B17:250–251
sedimentation, 124A11:233; 150B11:217–220
sediments, 149A4:111–112
semibrittle shear zones, 209A6:24–25
serpentine, 209A5:22–23
silica, 158A7:79–81
Site 682, 112A14:370, 372, 375; 112B7:98–99
Site 688, 112B7:99
Site 732, 118A3:56
Site 778, 125A6:100–101
Site 786, 125A14:317, 321; 125B14:264–265
sketch, 141A6:107
stratigraphy, 158A7:67–68; 197A1:13
structure, 148A3:155–156; 148B18:266; 173A9:285–
288; 180A12:30, 101; 190A4:10; 193A4:41–44
submarine canyons, 150B15:291–292
submarine volcanism, 134A12:414
sulfides, 158A7:103–104; 169A3:66
sulfur isotopes, 158B1:19–20; 5:74–79
Sulu Sea, 124A11:226
synrift sedimentation, 210B1:26–27
tectonics, 134B23:422; 160B54:749; 173A4:201;
7:215–217
tektites, 150B13:249
textures, 148A3:131–132; 180B3:5
thermal conductivity, 158B24:332
trace elements, 125B41:681–682
underthrust section, 170A4:114–115
units, 152B8:102–103; 157A8:403
volcanism, 157A2:22
vs. depth, 148B18:270–271; 35:438; 163B13:152–153;
183A4:62; 185A1:54; 3:110; 4:23, 111;
206A3:233, 255
water content, 134B30:544
water/rock ratio, 119B16:313
well-logging, 149A6:199–200; 197A3:44
X-ray diffraction data, 173A7:194–195
zoning, 118B9:186
- See also* anhydrite; autobreccia; clasts; fault breccia;
hyalobreccia; hyaloclastite breccia; hydroclasts;
lapilli breccia; lava, brecciated; megabreccia; mi-
crobreccia; pseudobreccia; tectonic breccia; sedi-
ment/breccia ratio; veins
- breccia, altered
basement, 173A6:124–127, 130; 183A6:25–26, 37–38;
16–18, 27
photograph, 183A7:92
photomicrograph, 193A4:141
breccia, amphibolite, 173A6:124–127, 130
breccia, amphibolite gneiss, 119B19:383
breccia, andesite
geochemistry, 134A11:342–343
lithology, 134A11:333
paleomagnetism, 134A11:344–346
petrology, 126A9:364–365
Site 786, 125A14:323–326; 125B14:267
breccia, andesitic hyaloclastite
petrology, 126A8:264; 126B28:439
Site 792, 126B11:172
breccia, angular, Pigafetta Basin, 129B3:92
breccia, anhydrite, composition, 158A7:71–79
breccia, aphanitic aphyric volcanic, 183A9:25–26
breccia, autoclastic, photograph, 193A4:91
breccia, basal, photograph, 197A5:42
breccia, basalt-carbonate, lithology, 187A8:3–7
breccia, basalt-hyaloclastite
lithology, 168A5:113–114, 119, 131–132
photograph, 168A5:117
photomicrograph, 168A5:121, 138
breccia, basaltic
alteration, 187A12:8–9
formation, 107B38:653
lithology, 134A12:402–404, 407; 13:493; 187A15:4–7;
210B9:11–13
Mascarene Plateau, 115A5:263
petrography, 187A15:6–7
photograph, 149A6:169; 157B12:180; 158A7:116–
117, 131; 158B18:248; 168A5:117; 187A1:25;
7:30; 8:14; 12:21, 29, 32, 34; 15:28–30;
201A7:44
photomicrograph, 157A8:416; 187A12:22, 24, 27–28,
30, 33; 15:31–32, 39
Sardinian margin, 107B38:718
Site 738, 119A7:238–240
Site 747, 120A6:102, 129
Site 749, 120A8:267
Site 791, 126A7:176
Tyrrhenian Sea, 107A7:305; 107B1:21, 26; 4:61;
38:652, 665
volcaniclastics, 157B12:163–165
breccia, basaltic andesite, mineralogy, 126B6:105, 110
breccia, basanitoid, petrography, 144A10:370–371
breccia, basement, phenocrysts, 126B27:406
breccia, bedded pumice lithic, 183A6:24–25, 36–37
breccia, bedding-parallel hydraulic, 169A3:110
breccia, biomictic, lithology, 144A10:342–344
breccia, black siltstone, lithology, 180A12:21–22
breccia, bronzite andesite, 125B14:264, 268
breccia, calcareous, photomicrograph, 187A8:21–23

- breccia, calcareous-clay cemented hyaloclastite, 187A14:10
- breccia, calcite-cemented
lithology, 173A8:238–241
photograph, 159A8:281; 187A7:17; 14:17–18
- breccia, carbonate
Lima Basin, 112A6:102
Peru margin, 112B7:98–100
Trujillo Basin, 112A6:99; 112B7:99
- breccia, carbonate-cemented
photograph, 209A7:73
Site 734, 118A5:85
Site 765, 123A4:198
- breccia, cataclastic
Atlantis Bank, 118B24:419
brittle deformation, 161A6:222–223
origin, 118B24:427
Site 688, 112A20:880, 886
- breccia, cemented
lithology, 183A5:14
petrography, 161B25:334–335
X-ray fluorescence data, 161A6:237
- breccia, chalk, lithology, 134A9:187
- breccia, chaotic, structure, 190A4:10
- breccia, chert
lithology, 181A5:5
photomicrograph, 129B3:108–110
- breccia, chert-sulfide
deposits, 158A8:145
photograph, 158A8:149
- breccia, chloritized basalt
geochemistry, 158B4:52
hydrothermal alteration, 158A7:107–109, 113
photograph, 158A7:116–120, 131–132; 158B5:84
strontium and oxygen isotopes, 158B22:302
- breccia, clast- and matrix-supported, 150B11:203, 205
- breccia, clast-supported
lithofacies, 160B37:471
photograph, 173A6:147; 7:176–179; 193A4:181
- breccia, clay, photograph, 141A6:310
- breccia, clayey volcanoclastic, lithology, 163A5:52–53
- breccia, claystone, weathering, 144B14:275
- breccia, compartmented
Bathonian, 129B32:582
brecciated zones, 129A3:142
bryozoans, 129B4:120
bubble wall, 129B5:144
bulk properties of basalts, 129B27:486
bytownite mineral chemistry, 129B17:308
fragments, 129B3:93
Jurassic–Lower Cretaceous interval, 129B3:95; 36:677
Mesozoic burial history, 129B7:176
Pigafetta Basin, 129B3:92
- breccia, crystal-vitric tuff
photograph, 183A7:87
photomicrograph, 183A7:88
- breccia, dacitic, alteration, 135B40:655
- breccia, dolomite
lithology, 201A11:11
photomicrograph, 201B13:32
- breccia, dolomite-cemented basalt
lithology, 187A13:4–7
petrology, 187A1:8
photograph, 187A13:34, 36
photomicrograph, 187A13:22–23
- breccia, equidimensional, photograph, 205A5:68
- breccia, fault
hydrothermal alteration, 209A5:12; 6:14
photograph, 209A3:58; 5:108; 7:87
photomicrograph, 209A6:97
recovery and boundaries, 209A6:78
schist/gneiss contact, 161B20:283
structure, 148B17:251
- breccia, flow-banded
rhyolite, 183A7:77
volcanic, 193B8:11–12
- breccia, flow-foot, volcanic units, 197A6:10
- breccia, flow-top
lithology, 144A10:353
photograph, 183A5:76; 6:105–107, 117, 122–123; 7:91, 104–105; 9:61
volcanism, 193B1:9–12
- breccia, foliated, photograph, 190A4:52
- breccia, gabbro, lithology, 210B9:5–6
- breccia, glass-rich, photograph, 187A12:31
- breccia, goethitic claystone, lithology, 198A9:11
- breccia, granule, lithology, 193A3:21–33
- breccia, granule-pebble, photograph, 170A3:58
- breccia, hyaloclastite
Argo Abyssal Plain-Exmouth Plateau, 123A4:184, 193
basalts, 165A6:330; 206A3:78–79
glassy rims, 168B10:126, 128
mineralogy, 126B6:105, 111
Owen Ridge, 117A4:35
photograph, 185A3:80, 86; 187A10:7; 192A3:78
potassium-argon dating, 125B11:207
Site 792, 126B27:419
- breccia, hyaloclastite lapilli
photograph, 197A6:32
volcanic units, 197A6:10
- breccia, hydraulic
distribution, 131B9:127, 133
overpressure, 131B7:89
structures, 169A4:169
- breccia, hydrothermal
Atlantis Bank, 118B26:502
clinopyroxene, 118B8:169–170
composition, 139B10:200–201
fluid flow, 139B41:663–664
formation, 118B26:489
greenschist facies alteration, 118B26:505
lithology, 193A3:25–26; 4:10–23
photograph, 193A4:69, 74–75
photomicrograph, 193A4:82
secondary minerals, 118B8:179
zircon, 118B8:172
- breccia, igneous, Site 740, 119B19:383
- breccia, igneous-lithic, lithology, 134A8:147, 149; 10:273
- breccia, incipient, photograph, 190A9:39

- breccia, interpillow, photograph, 185A3:79, 82–83, 86–87
- breccia, intraclastic
lithology, 161A7:304–305, 309; 9:396
photograph, 161A7:310–311; 9:401
- breccia, intrusion
lithology, 209A3:4
photograph, 209A3:70, 83, 107
- breccia, jigsaw-puzzle
basalts, 206A3:79
lithology, 193A3:24, 31
photograph, 193A4:135, 172, 182
vein networks, 148B17:251–256
- breccia, lapilli
lithology, 197A4:13
pahoehoe lava, 197A4:15
- breccia, limestone
lithology, 139A7:449–450; 160A7:161
photomicrograph, 192A6:61
- breccia, lithic
basement, 183A6:24–25, 36–37
lithology, 147A3:54–56; 197A6:5
photograph, 183A6:84, 93–95
- breccia, magmatic
core photograph, 176A3:195
magmatic structures, 176A3:59
magnetic susceptibility, 176B11:16
vs. depth, 176A3:193
- breccia, massive pyrite, petrology, 158A8:151–154
- breccia, matrix-supported
carbonates, 160B38:494–496; 51:687
Formation MicroScanner imagery, 160B47:616
lithology, 173A6:127–129; 180A12:22; 193A4:15–23
photograph, 173A6:132, 147; 7:202; 193A4:87, 131, 180
photomicrograph, 160B38:508; 173A9:288
- breccia, mineralized pumice, 193B8:11
- breccia, monolithic, petrology, 126A9:363–364
- breccia, monomictic, 125B9:146–147; 193A4:21, 31–32
- breccia, mud
clast composition, 160B46:602–603
clay mineral matrix composition, 160B46:603–604
Formation MicroScanner imagery, 160B47:615–616
lithology, 160A11:383, 386
mud domes, 160A1:10–14; 17:516–517; 18:522–524; 160B47:614
mud volcanoes, 160B46:598–600; 195A1:11
overpressure, 160B50:668–669
permeability, 160B48:639–640
photomicrograph, 160A11:389
Pliocene–Quaternary interval, 160A12:416–417
sediments, 160B45:581
structural data, 160A11:383–384
- breccia, mud-clast
lithology, 157A10:513–514; 169A4:165
photograph, 157A10:513; 169A3:60, 65, 108; 4:167
- breccia, nodular
photograph, 158A7:73–83, 91–92, 127–128
pyrite, 158A7:70–74
- breccia, nodular pyrite
petrology, 158A8:158; 11:217, 219
- photograph, 158A7:125; 11:215
- breccia, nodular pyrite-anhydrite
photograph, 158A11:216; 158B12:147; 13:177
tomography, 158B16:204–205
- breccia, nodular pyrite-silica
petrology, 158A8:155, 158
photograph, 158A8:156; 158B13:177
- breccia, nontectonic, mid-ocean-ridges, 148B17:251
- breccia, oligomictic, Site 786, 125A14:321, 326
- breccia, palagonitized hyaloclastite, 200A4:28
- breccia, paragonitized basalt, isotopes, 158B22:302–308
- breccia, pebble
lithology, 193A3:21–33
photograph, 193A3:111; 200A3:69
- breccia, penetrative, structures, 180A8:24–26
- breccia, peridotite, Iberia-Galicia margin compared with Iberia-Newfoundland rift, 210B9:20–21
- breccia, pillow
Argo Abyssal Plain-Exmouth Plateau, 123A4:174, 179
geochemistry, 158B19:269–270
photograph, 158B18:246; 195A4:100
rare earths, 158B19:266
Site 786, 125B14:265
- breccia, plagioclase-phyric basaltic, 183A5:30
- breccia, polymictic
basalts, 206A3:78–79
deformation, 161B25:332–334
demagnetization, 144B34:591
geology, 195A1:16
lithology, 144A10:344–345, 349–350; 180A12:22; 210A4:6; 210B9:7–8, 10–11
petrography, 144B48:846–847
petrology, 144B29:500–502
photograph, 144A10:353–355; 180A12:86
photomicrograph, 210B9:53
Site 786, 125A14:326; 125B9:146–147; 14:266–268
sources, 125B9:148
- breccia, polymictic volcanoclastic
lithology, 193A4:13, 21, 32
photograph, 193A4:96, 138
photomicrograph, 193A4:109; 193B8:11, 13
- breccia, porous, photograph, 158A7:73, 125; 8:153
- breccia, post-eruptive carbonate-cemented, 187A1:8
- breccia, pumice, photograph, 183A6:91–92, 96–97
- breccia, pumice/flow-banded felsic, 183A7:14, 26
- breccia, pumice lithic
basement, 183A6:22, 46–47
photograph, 183A6:83, 85, 91
photomicrograph, 183A6:86–88
- breccia, pyrite
geochemistry, 158B4:52
magnetic susceptibility, 158B25:347
mineralization, 158A8:144
petrology, 158A7:70–71; 11:212; 158B28:394
photograph, 158A7:73
- breccia, pyrite-anhydrite
geochemistry, 158B4:52
petrology, 158A7:71–75, 79; 11:212–213, 219; 158B28:394
photograph, 158A7:73, 85–86, 127–128; 11:215, 217; 158B1:26; 5:84

- sulfides, 158B15:194–195; 28:394
- trace elements, 158B4:53–58, 61–62
- breccia, pyrite-quartz, photograph, 158B1:26
- breccia, pyrite-quartz-anhydrite, photograph, 158B1:26
- breccia, pyrite-silica
 - geochemistry, 158B4:52
 - mineralization, 158A8:144
 - petrology, 158A7:79–81; 8:154; 10:183, 188–191; 11:214, 216; 158B28:394
 - photograph, 158A7:88–91, 115; 8:154–155; 10:185, 190–194; 11:215; 158B5:84; 13:177; 18:251
 - tomography, 158B16:205
 - trace elements, 158B4:53–62
- breccia, pyrite-silica-anhydrite
 - geochemistry, 158B4:52
 - petrology, 158A7:79; 8:155
 - photograph, 158A7:87–88; 8:159
 - sulfides, 158B15:194–195
 - tomography, 158B16:205
- breccia, pyroclastic, Site 786, 125B14:268–269
- breccia, pyrrhotite-chalcopyrite, photograph, 169A3:68
- breccia, quartz, fluid inclusions, 153B22:410
- breccia, recrystallized limestone, lower Aptian, 192A6:9
- breccia, red volcanic, photograph, 183A9:101
- breccia, rhyolite
 - petrology, 135A(1)11:635, 638–639, 642
 - photograph, 135A(1)11:647; 183A7:90
- breccia, rhyolitic pumice
 - geochemistry, 135B38:625–646
 - petrology, 135A(1)11:632–635
 - photograph, 135A(1)11:646
- breccia, sanidine-phyric trachyte, 183A7:149–152
- breccia, sandstone, photograph, 170A6:198
- breccia, scoriaceous, magnetism, 152B23:277, 279
- breccia, sediment-infilling, basalts, 206A3:79
- breccia, sedimentary
 - Peru margin, 112A1:9
 - photograph, 170A4:104, 107; 6:197
 - Site 685, 112A17:602, 607–608
 - Site 688, 112B32:517
- breccia, sedimentary-lithic
 - lithology, 134A9:193
 - photograph, 134A9:191
- breccia, serpentine
 - Bonin-Mariana region, 125B36:612
 - cataclastic textures, 149B36:591
 - composition, 149A6:159
 - debris flows, 149B47:719–721
 - landslide deposits, 149B35:571–575
 - lithofacies, 149B45:691–693
 - lithology, 149A6:159–163
 - ocean-continent transition, 149B47:718–719
 - seafloor weathering, 149A53:553–558; 149B31:529–540
 - Site 778, 125A6:101, 110; 125B18:328; 19:344
 - Site 779, 125A7:137
 - tectonics, 149B36:577–591
- breccia, serpentine mud
 - photograph, 195A1:41; 209A9:65
 - photomicrograph, 195A1:42–43
 - X-ray diffraction data, 209A9:65
- breccia, serpentinite
 - foliation, 173A7:202
 - Iberia-Galicia margin compared with Iberia-Newfoundland rift, 210B9:20, 21
- breccia, sheared, photograph, 149A4:92; 183A7:111
- breccia, silicified wallrock
 - geochemistry, 158B4:52
 - hydrothermal alteration, 158A7:105, 107
 - petrology, 158A7:81; 8:154–155; 10:189; 11:216
 - photograph, 158A7:92–97, 116, 130; 8:157–158, 161; 10:193, 195, 197; 11:218; 158B5:84; 18:249, 252
 - strontium and oxygen isotopes, 158B22:302–308
 - trace elements, 158B4:53–62
- breccia, siltstone-chalk, lithology, 134A9:187
- breccia, silty clay, lithology, 204A3:8
- breccia, stockwork, intrusions, 209A3:10
- breccia, sulfide, photograph, 169A3:67
- breccia, talus
 - lithology, 187A7:3–5
 - photograph, 206A3:283
- breccia, tectonic
 - Argo Abyssal Plain-Exmouth Plateau, 123A4:193
 - compression, 149B41:654–656
 - core photograph, 176A3:195
 - development, 173A6:147
 - diabases, 180A8:17, 82
 - Formation MicroScanner imagery, 180B24:7
 - lithology, 159A7:231; 180A8:14–15
 - peridotites, 149A4:75–83
 - sediments, 180A1:14–15
 - Site 688, 112A20:887
 - structures, 180A8:24; 183A6:52–53
 - vs. depth, 183A7:139
- breccia, trondhjemitic
 - Atlantis Bank, 118B2:27
 - Atlantis II Fracture Zone, 118B26:499
 - crosscutting late-magmatic foliation, 118B26:503, 535
 - petrography, 118B26:447–448
- breccia, tuff
 - chemical composition, 128A5:287
 - Japanese archipelago, 127/128B(1)18:320, 325
 - rhyolitic composition, 128A4:287
 - Site 799, 127/128B(1)2:34; 128A5:243, 287
- breccia, ultramafic, photograph, 149B10:450
- breccia, vein, magnetic susceptibility, 176B11:15–16
- breccia, veined chert, photograph, 159A8:266
- breccia, volcanic
 - basement, 183A9:17–22; 183B14:3–8
 - Cenozoic, 134B1:7–8
 - composition, 144A5:184–185; 7:279
 - deposition, 144B45:781
 - derivation, 126A9:348
 - diagenesis, 134B8:127–129
 - downhole measurements, 157B4:41–42
 - fluid flow, 168B1:4–5
 - geochemistry, 134B20:396–397
 - heterolithic composition, 126B27:406
 - lithology, 134A9:188–189; 135A(1)11:590–593; 144A3:71–72; 5:159; 8:295; 11:422–423;

- 144B45:771; 152A8:94; 180A5:8-9; 197A3:13-14
- magnetic properties, 114B22:389, 395-408; 23:409-430
- metamorphism, 126B12:186
- petrography, 126B28:439; 134B16:339; 144B28:477-479
- petrology, 126A8:264; 134A10:276-277; 144A8:308; 144B29:496, 499-502; 187A1:8
- photograph, 144A3:80; 5:171; 11:433; 152A8:95; 157A8:407; 197A3:65
- photomicrograph, 193B8:8-13
- physical properties, 119A7:269; 144A8:309
- Site 703, 114A10:557-558, 570, 572; 114B22:387
- Site 704, 114A11:636
- Site 793, 126A9:337-338; 126B27:405-406
- unconformities, 134A8:165-166
- vs. depth, 183A7:139
- well-logging, 126B43:657
- breccia, volcanic clay, Site 758, 121A12:373-374
- breccia, volcanic-limestone
- biostratigraphy, 144A10:361-362
- index properties, 144A10:376-377
- well-logging, 144A10:392
- breccia, volcanic sheared, petrology, 135A(1)11:642-643
- breccia, volcanoclastic
- alteration, 193A4:13, 21
- geochemistry, 126A9:369
- lithology, 135A(1)10:508-510; 135B6:87-92; 193A3:24-25; 4:16-23
- mineralogy, 126B28:433
- petrography, 126B28:432
- photograph, 193A4:90, 92
- photomicrograph, 193A4:81; 193B8:9
- breccia, welded
- basement, 183A6:41, 43; 7:29; 9:21
- photograph, 183A7:111
- breccia alteration intensity, photograph, 185A4:110
- breccia cement. *See* cements, breccia
- breccia clasts. *See* clasts, breccia
- breccia contacts, photograph, 141A9:331
- breccia matrix
- geochemistry, 173A6:139-140
- mineralogy, 173B1:1-14
- vs. depth, 183A6:140
- X-ray diffraction data, 173A6:138; 7:193; 9:285
- breccia pipes, photograph, 210A3:254
- breccia zones
- deformation, 190/196B9:3
- density, 102B6:65-66
- determination by logging, 102A3:111
- infilling, 102B11:159, 164-165
- Leg 102, 102A3:114
- Legs 52 and 53, 102A3:102
- magnetic reversals, 102A3:125, 127, 146; 102B7:82
- photograph, 190/196B9:13
- semblance analyses, 102A3:120-121
- veins, 137/140B20:239
- velocity, 102B4:60-61
- waveforms, 102A3:118-119
- weathering and magnetic results, 102A3:131
- brecciated gabbro. *See* gabbro, brecciated
- brecciated texture. *See* textures, brecciated
- brecciation
- acoustic basement, 149A4:108-112; 7:239-240; 149B47:719-721
- alteration, 147B13:250-251; 183A7:45-47
- basement, 173A1:13; 183A7:21-22
- basement/sediment contact, 161B25:335-336
- cataclastic texture, 112B2:21
- Cretaceous, 159B2:14, 16
- data, 190A4:10, 51
- décollement zone, 131B6:73; 190A5:13
- deformation, 147B13:242-243; 161B44:568; 173A9:285-288; 209A5:27
- dike contacts, 140A2:99
- dolomite, 201B13:8-9
- driving forces and environment, 141A9:325
- gabbro, 180A1:14; 11:8
- jasperoids, 193B9:6-7
- lava, 136A5:83; 152B28:338-339
- limestone clasts, 160B37:474
- lithology, 173A6:127-129; 180A5:15; 8:15-16; 10:10; 181A7:8; 187A7:4-5; 191A4:14; 210B9:8-9
- mafic rocks, 149A7:232-234
- microfractures, 193B9:4-7
- olistostromes, 149B45:692-693
- paleoecology, 180A1:11
- photograph, 139A6:179; 141A9:311; 145A5:132; 147A3:79; 147B13:241; 149A4:90-93; 6:184; 7:240-241; 156A6:117; 157B17:312; 158A7:109; 159A7:230, 233; 160B33:422-423; 161A8:374, 381; 180A12:104-105; 183A6:118; 187A7:28; 190A4:51; 193A3:124; 4:172; 205A5:54
- photomicrograph, 183A5:92, 95; 206A3:239; 209A5:122
- pillow lava, 148B18:269
- plate tectonics, 205A1:10
- porosity, 131B32:399
- sandstone, 159A6:188
- sedimentary rocks, 112B2:22
- sediments, 190A9:10; 205A5:21-22
- serpentinites, 149A4:90-91; 149B31:535; 195A3:55
- Site 682, 112B2:21, 31
- Site 685, 112B2:21-22, 31
- Site 688, 112B2:21
- Site 779, 125A7:128
- Site 856, 139A6:177
- strain, 131B8:105
- structures, 131A6:120; 180A5:20-23
- tectonics, 134A9:210
- thrust zones, 134B2:30-31
- unconformities, 159B1:5
- underthrusting, 205A6:11
- veins, 137/140B20:234; 159A8:280-281; 173A6:132
- vs. depth, 205A5:64
- zoning, 139B11:231-247; 140A2:102
- See also* autobrecciation
- brecciation, crackle, sediments, 139A6:205
- brecciation, hydraulic, veins, 169A3:75
- brecciation, hydrothermal, photograph, 193A4:113

- brecciation, in situ
 photomicrograph, 183A6:101–102
 serpentinite breccia, 149B35:572
- brecciation, incipient, photograph, 206A3:285–286
- brecciation, penetrative, lithology, 183A5:27
- breunnerite, Site 799, 127/128B(1)6:82
- brightness
 diffuse spectral reflectance, 188B13:9–11
 percentages, 188B7:48
 sediments, 177A1:24–25; 188B7:5–7, 47
 vs. age, 188B13:21, 26
 vs. depth, 188B7:17–18, 20, 22; 13:21, 26
See also lightness
- brines
 aquifers, 207A4:26–27; 6:32; 8:28–29
 calcium chloride, 126B34:519
 diagenesis, 134B8:116, 119; 182B1:10–12
 electrical conductivity, 148B21:302
 evaporites, 161A4:83; 161B33:430–431
 fluid inclusions, 147B11:223
 geochemistry, 141A8:291; 160A5:115; 160B29:368–371
 incursion, 161B34:436
 magmatic volatiles, 153B22:407–409
 Messinian, 161A6:235–236
 microbial activity, 201A1:13–14
 Miocene, 201A1:13–14, 31
 origin, 182A9:20–21
 pools, 107B14:221; 37:610
 pore water, 161A7:321; 9:405; 175A7:190; 201A1:36
 redox, 161A6:236, 238
 serpentinization, 153B22:412–413
See also hypersaline fluids
- brines, hypersaline, dolomite, 101B13:198
- brines, saline, origin, 161B33:427–429
- British Geological Survey, stress measurement equipment, 123A3:50–51
- British Meteorological Office, ice charts, 151B2:28–36
- brittle deformation. *See* deformation, brittle
- brittle faults. *See* faults, brittle
- brittle microstructures. *See* microstructures, brittle
- brittle shear. *See* shear, brittle
- broadband borehole seismometers
 data, 200B5:1–63
 installation, 200A1:10, 18; 4:9–10; 200B1:5–6
 noise spectra, 200B1:23
 spectrograms, 200B1:21–22
- bromide
 enrichment, 112B30:500
 fluid-rock interactions, 195B6:1–23
 gas hydrates, 164B1:8
 hydrothermal fluids, 139B20:398
 Peru margin, 112B30:502
 pore fluids and sediments, 205B5:5–7
 pore water, 112B30:500; 125B21:379; 131B13:165–174; 156B29:354
 Salaverry Basin, 112B30:502
 Site 779, 125A7:127
 Site 780, 125A8:159, 161
 Site 784, 125A12:284
 Torishima Seamount, 125B21:381
- vs. depth, 156B29:355; 164B12:134; 169B1:7–9; 195B6:17; 10:4; 204B14:18; 205B5:10
- vs. magnesium, 139B20:401
See also fluoride/bromide ratio
- bromide/chloride ratio
 Peru margin, 112B30:500
 pore fluids and sediments, 205B5:6–7
 pore water, 169B1:3–4; 195B6:5–10
 vs. 1/chloride ratio, 195B6:18
 vs. depth, 156B25:314; 169B1:8–9; 195B6:17; 10:4; 205B5:10
- bromine
 bromine/total organic carbon ratio, 112B30:500–502
 Cretaceous/Tertiary boundary, 121B21:424
 evaporites, 160A5:113
 mineral separates, 158B2:33, 37, 39
 Peru margin, 112B30:493–494, 500–502
 pore water, 160A7:187; 14:485; 161A6:235; 190A1:30; 204B14:1–25
 Salaverry Basin, 112B30:500–501
 seawater, 148A2:56–57
 Site 680, 112B30:493
 vs. chloride, 134B8:119; 161B33:427–429
 vs. depth, 134B8:113, 117–118, 124–126; 160A4:79; 5:114; 7:191; 14:487; 161A6:260; 171B_4:10
 vs. magnesium, 137/140B13:146
 vs. potassium, strontium, and lithium, 160A5:115
See also iodine/bromine ratio
- bromine/chlorine ratio, vs. depth, 160A14:487
- bromine isotopes, pore water, 190A1:30
- bronzite, basaltic andesite, 126B28:432
- brookite, deep copper zone, 169A3:77
- Broome earthquake
 compressional wave velocity, 123B26:506
 stress regime, 123B26:511–512
- brown/purple/orange high-amplitude reflection packets (HARPs), 155A20:622–623
- brucite
 alteration, 147A4:137–138; 193B1:16; 209A6:11–14; 9:8–11
 breccia clasts and matrix, 173A7:195
 deformation, 147B14:264
 electron microprobe data, 149B32:552
 geochemistry, 195B6:6–7
 harzburgites, 195A3:17
 hydrothermal reactions, 209A9:11
 iron oxide, 125B17:317
 lithology, 195A3:12–13
 magnesium-calcium-silicon-oxygen-hydrogen system, 209A6:77
 photograph, 147A4:135; 153B3:40; 209A9:60
 photomicrograph, 193A3:169; 195A3:72, 89; 209A9:601–602
 secondary minerals, 149A4:80
 serpentinization, 125B26:440–441; 149B32:544; 153B3:47–49
 silica metasomatism, 209A3:18–20
 ultramafic rocks, 125B26:436–437
 veins, 147A4:134
 vs. depth, 195A3:76–78
 X-ray diffraction data, 209A6:64; 7:60, 65; 9:60

- See also* coalingite; magnesium-brucite system; serpentine-brucite assemblage
- brucite kernels, hydrothermal alteration, 209A9:8–11
- Bruckmann-Hamilton prediction, porosity vs. velocity, 131A6:212
- Brunhes axial anomaly, traces, 135B51:823
- Brunhes Chron
- absence, 112A11:185–186
 - alteration, 169A3:137–139
 - Antarctic region, 114B5:98
 - Baffin Bay, 105A4:111, 113
 - biostratigraphy, 128A4:159, 162; 135B54:872, 875–876; 151A10:332; 167B3:66; 181A3:13
 - calcium carbonate preservation, 133B16:218
 - carbonates, 166A3:33; 177B(synthesis):17
 - core orientation data, 135A(1)8:363
 - correlation, 162B(appendix):275
 - cycles, 114B33:630; 177B(synthesis):13
 - deep-sea sediments, 185B7:7
 - directional variability, 202A5:11–12
 - magnetic excursions, 172A6:266; 7:319–320; 172B(overview):6; 10:1–18
 - magnetic properties, 104B26:485; 117A12:403; 15:479; 127/128B(2)61:960; 135A(1)4:117; 5:208–209; 6:263–264; 7:311; 9:423–424; 10:531–533; 11:615–619; 160A4:63, 78; 5:103–104; 6:135–136; 7:177, 179; 8:234; 165B8:145; 175A10:292; 177A9:11; 181A7:28–32; 9:17; 182A1:20; 189A7:37; 199A8:11–12; 202A3:12
 - magnetic reversals, 131A6:156; 166A8:186
 - magnetostratigraphy, 104B40:841, 845; 132A3:43, 51–55; 132B2:29; 3:42; 135B54:860–861; 139A6:188; 145B1:9–13; 149A4:72; 5:129; 152A11:221–224; 157A10:520; 160B5:64, 66, 70, 72; 162A3:70–71; 4:112; 5:154; 6:189; 10:358; 166A7:159; 167A(1)4:71; 6:141; 7:164; 11:293; 12:325; 13:364; 14:400; 15:442; 168A4:78; 172A3:46–47; 4:99–100; 5:186–188; 6:263; 7:316–317; 174A_A3:65, 68; 4:120; 5:169–170; 175A3:70; 4:99; 6:160; 7:186; 8:211; 9:252–254; 12:364; 178B36:7; 37:15; 180A7:21; 9:37; 181A6:22–23; 8:25–27; 5:17; 6:24; 9:15–16; 10:22; 182A1:37–38; 11:11; 12:18; 188A3:42–43; 5:22; 191A1:16–17; 4:25; 5:10–11; 9:13; 195B13:4–5; 199A12:22; 200A3:38–39; 201B16:4; 206A3:35; 208A3:18
 - magnetozones, 133A(1)7:213; 12:466–468
 - mass accumulation rates, 127/128B(1)27:468
 - Middle Valley, 139A7:305
 - normal polarity, 112A18:728
 - Oman margin, 117A12:398; 16:508, 512; 117B5:131; 7:165
 - Ontong Java Plateau, 130A7:248
 - Owen Ridge sites correlation, 117A16:508, 512
 - Pacific Ocean E, 138B38:788
 - paleoclimatology, 162A1:15; 177B(synthesis):22; 195A1:27
 - rifts, 139B1:19–21
 - seafloor spreading rates, 139A7:434
 - sedimentation, 127/128B(2)61:961; 151A5:68; 182A10:20–21
 - sediments, 133B39:569; 151B26:446–447; 157A4:75–76; 159B43:600; 161B40:508; 164A6:119; 169A4:201; 5:232; 6:294; 173B11:8–10; 177A1:12; 4:14; 8:15; 182A1:13, 34; 189A6:41; 190A5:17; 6:13; 7:11; 9:15; 194A8:15; 198A3:25; 4:22; 6:20; 7:19–20; 8:17; 202A11:14; 13:12–13
 - sequence stratigraphy, 166A3:3; 174A_B(synthesis):5
 - Site 688, 112A20:915
 - Site 701, 114A9:395
 - Site 704, 114B21:382
 - Site 744, 119A13:490; 119B44:782; 46:820
 - Site 745, 119B46:818
 - Site 765, 123A4:132
 - Site 782, 125B32:548
 - Site 783, 125A11:265; 125B32:551
 - Site 784, 125B32:551
 - Site 792, 126A8:255
 - Site 796, 127A6:275
 - Site 797, 127/128B(2)62:973
 - Site 798, 128A4:124
 - Site 827, 134A7:118
 - Site 828, 134A8:159–160
 - Site 829, 134A9:214
 - Site 830, 134A10:283
 - Site 832, 134A12:423
 - Site 833, 134A13:509
 - Site 842, 136A4:43–44
 - Site 848, 138A(2)13:695
 - Site 851, 138A(2)16:912–916, 924–927
 - Site 852, 138A(2)17:993
 - Site 853, 138A(2)18:1038–1041
 - Site 854, 138A(2)19:1075–1077, 1080
 - Site 888, 146A(1)4:76
 - Site 889, 146A(1)5:163
 - Site 891, 146A(1)6:255, 257, 283
 - Site 902, 150A6:87
 - Site 904, 150A8:227–228
 - Site 906, 150A10:325–326
 - spreading centers, 139A2:10–11
 - stratigraphy, 151A8:238–239; 151B3:53–54; 177A9:12
 - summary, 206A1:24
 - temperature, 166B2:20
 - volcanic ash layers, 127/128B(2)61:963
 - warm-cold transitions, 127/128B(1)27:459, 464
 - water masses, 164B34:358, 362
- See also* Jaramillo/Brunhes boundary; Matuyama/Brunhes boundary; mid-Brunhes Event
- brunsvigite
- electron microprobe data, 137/140B18:210–211
 - molar composition, 137/140B15:176
 - secondary minerals, 180B3:8
- bryomol assemblages, microfacies, 133B21:298–299
- bryozoan fragments
- age, 182B8:4–6
 - biogenic components, 161B6:78–80
 - carbonates, 144B9:178–186; 194A1:50–54
 - dolomite, 103B11:181
 - growth forms, 182A7:35; 182B1:27
 - lithology, 166A11:352; 169S_A2:22; 180A9:23; 12:19–20; 182A1:10, 19–20, 25, 31, 33, 39; 5:7; 6:5; 7:5–12; 8:5–9; 9:4–8; 10:4–12; 12:6–7; 182B9:4–

- 7; 183A6:7-8; 8:6; 194A3:5-7; 5:4; 7:7; 9:5-8;
 197A5:5-6
- macroturbidite, 103B34:517
- microfacies, 133B21:292-293, 296-299
- Miocene, 133B29:456
- mound complexes, 182A1:33; 7:11-12; 9:8
- occurrence, 103B6:60; 11:181, 191-192
- paleoenvironment, 194B2:9-10
- periplatform environment, 194A4:16-17
- photograph, 166B4:355; 182A6:48; 8:39; 194A4:42-43; 5:42; 8:40
- photomicrograph, 194A3:34; 4:41, 51, 54-55, 61-62; 5:43; 197A5:37; 202A7:47; 210A3:151
- reef mounds, 182A2:4; 182B1:9-10, 13-15
- relative proportions in different lithologies, 182B1:26
- scanning electron photomicrograph, 182B13:18-19
- sediments, 133A(1)5:147
- Site 793, 126B15:231
- slope environment, 182A6:10
- See also Adeonellopsis* spp.; bryomol assemblages; *Celleporaria*; cheilostomes; *Hornera*; *Idmidronea* spp.; *Limopsis*; *Nevianipora* spp.
- bryozoan fragments, cool-water, 182B13:1-29
- bryozoan-larger foraminifer microfacies, 133B21:294-296, 298-299
- BSR. *See* bottom-simulating reflector
- bubble-wall shards. *See* glass shards, bubble-wall
- bubble-wall texture. *See* textures, bubble-wall
- bubbles
- lava flows, 183B14:3-8
- vesicles, 195A4:84-85
- buliminids
- abundance in carbonates, 144B6:131
- Atlantic Ocean S subantarctic, 114A6:171; 7:274
- Australian distribution, 123B14:281, 284
- Pleistocene, 133B26:371-374
- Site 766, 123B14:276, 278
- Site 821, 133B26:371-374
- vs. depth, 202A6:40
- bulk density. *See* density, bulk
- bulk density correction logs, vs. depth, 171A_A3:28; 4:47; 5:68; 6:86; 7:102
- bulk density logs
- comparison with velocity logs, 178B19:29
- correlation, 181A7:46
- factor logs, 171A_A3:22, 26
- Site 830, 134A10:291
- vs. bulk density, 184A4:76
- vs. compressional wave velocity logs, 203A3:70
- vs. depth, 115A12:941; 135B7:129; 145A3:77; 6:281-282; 8:382-385; 146A(1)7:365; 151A6:148-149; 155A7:165; 170A3:85; 4:144; 7:241-242; 171A_A3:32, 36; 5:58; 171B_A4:165; 5:234; 6:313, 318; 172A5:243; 6:300; 173A4:97; 7:214; 8:261; 174A_A3:89; 178A4:88; 5:82; 9:66; 179A4:156, 159; 179B1:17; 180A6:181, 186-189; 8:101-102; 9:135-138; 12:137-141; 181A7:107-108; 183A8:92; 184A4:73-74; 5:72; 7:69; 9:84-85; 185A4:139; 186A4:94, 158; 5:35, 84, 87; 189A3:113; 5:108; 6:120; 7:99; 193A4:217, 226; 197A1:41; 3:55-56, 131; 200A4:54, 149, 153; 200B1:30-31; 203A1:27; 3:69, 73; 209A7:34, 112; 10:148
- vs. gamma ray attenuation density, 202A9:44
- vs. neutron porosity logs, 203A3:70
- vs. porosity logs, 184A5:70
- See also* density
- bulk density units
- sediments, 150A8:236-238
- Site 905, 150A9:291-293
- See also* density; physical properties units
- bulk modulus
- crystalline rocks, 153B25:445-448
- porosity, 146B(1)19:309
- vs. depth, 137/140B24:283
- vs. effective stress, 133B42:631
- bulk powders, X-ray diffraction data, 190/196B5:10-12, 19-25
- bulk rocks, alteration, 148A3:141-144
- Bullard depth
- heat flow, 168A4:99; 5:157
- vs. temperature, 149B44:680
- vs. thermal conductivity, 149B44:680
- buoyancy, differentiation, 176B(synthesis):23-24
- Burdigalian
- deposition, 160B33:433-434
- dinocyst first and last occurrences, 189B5:40
- extensional basins, 161A1:9
- Neogene, 150B14:279-280
- plate tectonics, 149B1:4
- sediments, 161B5:70-73
- turbidites, 166B5:4
- See also* submarine canyons
- Burdigalian/Langhian boundary, 189B10:10, 12, 15, 19
- burial
- carbonates, 167A(1)5:110-112; 167B11:178
- compaction and burial velocity, 204B15:10-11
- mixed sediments, 165B10:177-190
- organic matter, 201B1:4-6
- sedimentary succession, 166A10:305
- sediments, 190/196B7:6-7
- thermal diagenesis, 159B7:62-66
- See also* compaction
- burial, biogenic, Paleocene/Eocene boundary, 199B23:1-12
- burial, diachronous, sediments, 190A1:26
- buried channels, deposition, 178A5:11-12
- buried deposits, mass flow, 155B6:115-118
- buried faults. *See* faults, burial
- Burma earthquake, downhole seismic experiment, 127/128B(2)74:1162, 1168
- burrow fills
- lithology, 161A6:188-189; 182A10:11; 204A10:6
- photograph, 159B7:67; 161A8:368
- photomicrograph, 210B2:20
- X-ray imaging, 210B6:5
- burrowed facies, photograph, 178A4:59
- burrows
- axial ratio, 160B40:524
- bedding, 159A6:186
- biostratigraphy, 174A_B(synthesis):7
- carbonates, 139B9:141-142; 151B24:417-418

- chalk, 133A(1)8:257–259; 160B32:410
Coniacian–Eocene interval, 159B12:117–119
Cretaceous–Paleocene interval, 207A1:25
Cretaceous/Paleogene boundary, 192A3:16–17
computed tomography scan images, 145B35:543–546
cycles, 127/128B(1)32:564–565, 569; 128A4:140–141;
167B25:277–296
Danian, 192A3:16–17
diagenesis, 139B7:109
diatomaceous mud, 112A15:444
environmental analysis, 135B6:96–97
Ethmodiscus ooze, 167B15:208–212
fabric, 160A7:186
fan deposits, 155A13:394
infilling, 135B11:166–167
Izu-Bonin forearc, 126B14:210, 212, 213, 215
laminations, 160B27:337–338
lithofacies, 160B32:408
lithologic motifs, 173A7:168–172
lithology, 133A(1)16:692, 696; 134A12:406;
138A(1)9:125; 10:193, 199; 138B29:628;
139A7:451; 149A7:221; 150A7:148; 8:214–217;
10:313–314, 319; 150X_B2:18; 151A7:171;
152A9:116; 11:196, 198, 204; 154A4:61; 5:157;
155A8:178–180; 13:388; 14:412–415; 15:442;
18:541–544; 19:574–576; 21:637–638, 641, 643,
645; 159A5:75–77; 6:163–166; 7:228;
159B43:587–588; 160A4:59–60; 8:221–223;
9:294; 10:340–342; 12:423; 13:454; 161A5:118–
120, 128; 6:188–193; 7:304–305; 8:357–358,
361; 9:393–394; 164A6:107–108; 7:180–182;
9:284; 165A4:145; 6:304; 166A6:80, 82; 8:177–
179; 9:239–242; 10:295–303; 11:350–352;
167A(1)4:55; 12:318–320; 15:437–438; 16:468;
169S_A2:24; 170A4:104–108; 7:219–221;
171B_A3:53–55; 4:98–101, 105; 5:180–181;
6:246, 250–251, 253, 256–257; 7:324; 172A3:38;
4:87; 173A4:74–77; 6:112–114; 174A_A4:104–
113; 5:158–162; 174AXS_A1:19–21; 2:17–24, 28,
32–33; 3:20–33; 4:12–15; 5:20–42; 6:22–48;
175A15:460; 177A4:6–7; 9:7; 178A4:4–5, 10–11;
5:5; 7:4–7; 8:3, 5; 180A5:15–16; 6:12, 15–16, 20–
23; 8:5; 9:8, 19, 21, 25–26; 10:5–6; 12:5, 9–17;
181A3:5–6; 4:4–7; 7:5–9; 182A1:10, 26, 33; 5:4–
7; 6:4–9; 8:5–9; 10:4–10; 11:3–5; 12:4–7;
183A6:4–6; 7:5; 184A6:5; 7:6, 8; 8:4, 8; 9:7–11;
185A4:15–16; 6:15, 18; 7:13–16; 192A3:5–9; 6:8;
7:4; 194A5:4–6; 6:4; 195A5:7–8; 198A3:12–13;
199A11:8; 200A3:10–11; 201A7:8–10; 8:9, 11;
10:11; 12:7–11; 12:9; 207A4:5–8; 6:5–8; 7:5–9;
210A3:22, 28, 32, 36–37, 41–58
metasedimentary rocks, 152B10:130–131
occurrence, 177A9:52
Oligocene, 181B1:41
organic carbon fillings, 127/128B(1)2:38
oxygenation conditions, 127/128B(2)78:1232;
128A4:141
paleoenvironment, 174AX_A1:18, 29–30
photograph, 130A7:235; 133A(1)10:363;
135A(1)10:506; 138A(1)10:209–211; 12:350,
352; (2)13:688, 691; 16:913; 17:978–980;
18:1034; 138B10:188–190; 139A6:180;
141A9:332; 10:357–360; 144A7:268;
144B16:335; 145A5:131, 134; 6:223; 149A4:54;
6:157, 183; 7:222, 237; 151A5:66; 9:276; 11:359;
152A6:61; 8:94; 11:200–201, 208; 155A14:417;
15:443; 18:546; 22:667; 157A4:64–65;
157B17:312; 159A5:79–82, 99; 6:164–165;
159B43:589; 160A4:66–69, 76; 5:97, 99; 7:169–
172, 186; 8:235–238, 247; 9:299; 10:347, 350–
351; 160B33:422; 161A2:39; 5:120; 6:191–192,
197–198; 10:360–361, 364–367, 372, 374;
161B7:86; 164A9:285; 166A6:83–84; 8:181;
9:240–241; 10:304; 167A(1)4:56; 5:93; 6:135;
15:438; 169A3:62, 80; 170A3:55; 4:115; 7:226–
227; 171B_A3:54, 58; 4:104–106, 112–115;
5:184, 188; 6:251–256; 172A4:89; 5:171;
173A4:82–83; 6:117; 7:170–171; 8:231–232;
174A_A4:113; 5:158, 162; 174AXS_A2:56;
175A13:396; 177A4:29, 31; 5:35–36; 9:32;
178A4:52; 5:46, 55; 7:40; 8:37; 180A6:101;
12:57; 180B9:20–21; 181A3:41–42; 7:61–64;
182A6:51, 53; 7:36–37; 10:41–42; 184A6:30;
185A4:80–82; 188A3:101–102; 188B12:11;
189A6:81; 191A4:67; 192A3:55; 5:38–39; 6:55;
194A6:35, 37; 197A3:53; 198A3:68; 4:42, 46–48;
6:37–38; 200A3:67; 201A6:41; 10:37; 202A9:47;
10:47; 11:41; 13:39; 205A6:34; 206A3:125;
207A4:40, 43; 5:48; 6:43–51; 210A1:65; 3:139–
144, 153–154, 158–162, 166–167, 173, 177, 227,
239
photomicrograph, 160B27:342; 170B3:21; 173A4:79;
6:118, 120; 198B16:22; 210A3:233
Pisco Basin W, 112A18:716
sand fillings, 112A16:534
sedimentary structures, 160B37:471
sedimentation, 192A6:9–10
sedimentology, 200A4:25
sediments, 130A9:383; 138A(1)11:281–285;
146B(2)22:301; 157B32:564; 159A9:306;
167B22:257; 174A_B3:4–6, 9; 183A8:5
siltstone, 135B11:172
Site 682, 112A14:375
Site 791, 126A7:148, 160
Site 793, 126A9:330–331
Site 795, 127A5:189
Site 796, 127A6:265–266
Site 797, 127A7:344–349
Site 798, 128A4:143–145
Site 799, 128A5:262
stylolites, 130B9:445–446
tephra, 186B9:4
turbidites, 173B6:2–3
zonation, 138B10:178
See also bioturbation; *Chondrites*; *Cylindrichnus*; ichno-
fossils; microborings; mottling; *Ophiomorpha*;
Planolites; spreiten; spreiten piping; *Teichichnus*;
Thalassinoides; trace fossils; *Zoophycos*
burrows, echiuran, ichnofacies, 138B10:184–185
burrows, elongated, photograph, 210A3:136
burrows, folded, photograph, 210A3:259
burrows, mud-filled, photograph, 210A3:130

burrows, pyritized
 lithology, 177A3:4–5
 photograph, 132A4:86; 151A8:234
burrows, rind and halo, ichnofacies, 138B10:183
burrows, sediment-infilled, photograph, 151A8:235
burrows, solid, ichnofacies, 138B10:180–181, 183
burrows, subvertical and open, 138B10:183–184
burrows, volcanic ash, lithology, 170A3:60–61
Bucentaur, drill system, 124E_A5:42–44
buserite
 ferromanganese micronodules, 138B40:807–810;
 199B14:4
 Izu-Bonin forearc, 126B7:115
 See also asbolane-buserite assemblage
butadiene, sediments, 180B18:4–14
butane
 diagenesis, 131B15:188–189
 gas hydrates, 204A7:13–14
 headspace gases, 138A(1)9:152–153; 202A10:88
 molecular composition, 131A6:191
 Negros Trench, 124A9:113–114
 retention times, 113A8:383
 sediments, 180B18:4–14; 182A1:15
 Site 693, 113A8:377
 Site 1148, 184A9:18, 110–112
 Site 1170, 189A5:45, 156–157
 Site 1171, 189A6:49
 Site 1239, 202A10:16
 Sulu Sea, 124A11:247
 vs. depth, 113A7:313; 8:382; 9:487
 See also iso-butane; *n*-butane
butanone. *See* ethyl ketones
butene. *See* *cis*-2-butene
butylene. *See* *iso*-butylene; *iso*-butylene + 1-butene
bytownite
 basalt paragenesis, 195B8:5–6
 composition, 135B24:386; 147B2:40–41
 crystal source, 121B14:287
 diabases, 180B3:6
 lithology, 170A3:58–60
 mineral chemistry, 200B3:6–7
 petrography, 200A4:30
 volcanic rocks, 141B28:351

C
C-13/C-12. *See* carbon isotopes
C1/C2 ratio. *See* methane/ethane ratio
cables, NEREID, 186A3:20–21, 47–49
cadmium
 black shale, 210B8:16; 10:5
 deep water, 177B(synthesis):14–15
 element correlations, 158B27:379–381, 384
 hydrothermal fields, 158A1:10; 158B27:370–373;
 28:395
 jasperoids, 193B9:6
 mineral separates, 158B2:31
 Paleocene/Eocene boundary, 199B16:3
 pore water, 193B4:4–5
 sulfides, 158A7:93–98; 8:156–160; 9:172; 10:189–191;
 158B3:44

 vs. depth, 139B17:359–367; 158A10:195; 158B4:53,
 57–61; 27:374–376; 160B16:201; 164B15:161
cadmium, postoxic conditions, 157B32:567
cadmium/calcium ratio
 benthic foraminifers, 112B24:407–408; 115B32:612–
 613, 616–619
 deep water, 177B(synthesis):15
cadmium/thorium ratio, vs. depth, 157B32:568
Calabrian
 magnetostratigraphy, 188B13:24
 See also Gelasian/Calabrian boundary
calc-alkalic lava. *See* lava, calc-alkaline
calc-alkalic volcanic rocks. *See* volcanic rocks, calc-alkalic
calc-alkaline basaltic andesite. *See* andesites, calc-alkaline
 basaltic
calc-alkaline rocks
 clasts, 180B7:18
 evolution, 180A3:4–5
 geochemistry, 134B19:388–390; 20:396–398;
 135B52:839–841
 sediment provenance, 180B6:18–24
 Site 701, 114B40:733, 736, 740
 Site 795, 127/128B(2)83:1338
calc-schist, photomicrograph, 180A1:63; 8:53; 10:41
calc-silicate rocks
 basement/sediment contact, 161A6:211, 215
 composition, 147B14:275; 161A6:226
 fission tracks, 161B21:295–300
 metamorphism, 161B18:251–261
 moderate-temperature minerals, 176A3:37
 photograph, 161A6:231–232
 structure, 161B23:310
 troctolites and gabbros, 147B14:270
 See also prehnite; zeolites
calc-siltite, ferruginous, photomicrograph, 210B9:53, 55
calcarenite
 Aptian, 160B32:406
 basement, 115A12:931; 197A6:7
 deformation, 160A8:241, 266
 dredge samples, 143B30:477, 480–482
 lithology, 135A(1)4:103–104; 149A7:216; 157A4:65–
 66; 187A14:4
 Messinian, 161B43:543–546
 petrography, 187A8:4–5
 photograph, 157A4:67; 160A8:249; 187A8:18
 photomicrograph, 161B1:18; 187A8:20
 plate tectonics, 205A1:10
 Pliocene channels, 160B37:477–478
 Site 715, 115A12:942–945
 Trujillo Basin, 112A9:97
 See also biocalcarenite
calcarenite, brecciated, deformation, 160A8:242
calcarenite, pelagic, petrography, 160B45:579
calcarenite, porous skeletal, 144B15:296, 299
calcarenite, shallow-water, petrography, 160B45:579
calcareous algae
 biostratigraphy, 144B11:221–230
 carbonates, 144B9:174, 176–177, 183, 187
 lithology, 180A12:18–21
 paleobiogeography, 144B50:887–893
 Paleocene/Eocene Thermal Maximum, 208B1:14–15

See also dasycladaceans
 calcareous clay. *See* clay, calcareous
 calcareous claystone. *See* claystone, calcareous
 calcareous component
 lithology, 202A7:7–10
 vs. depth, 202A3:25; 4:32–33; 5:29; 204A3:45–47;
 4:36–40; 5:22; 6:29–30; 7:26; 8:37; 9:32–33, 38;
 10:40–43; 11:23–24, 26
 calcareous facies, Indus Fan, 117A8:159–160
 calcareous layers
 lithology, 186A5:15
 photograph, 186A5:62; 188A3:94
 X-ray diffraction data, 186A5:104
 See also sediments, calcareous
 calcareous microfossils
 lithology, 174A_A5:163; 202A8:9–11
 Miocene, 189B13:1–12
 vs. depth, 174A_A3:60; 5:164; 202A8:45, 59
 calcareous nannofossils. *See* nannofossils, calcareous
 calcareous ooze. *See* ooze, calcareous
 calcareous sand. *See* sand, calcareous
 calcareous sandstone. *See* sandstone, calcareous
 calcareous silt. *See* silt, calcareous
 calcareous siltstone. *See* siltstone, calcareous
 calcareous turbidites. *See* turbidites, calcareous
 calcic amphibole. *See* amphiboles, calcic
 calcification
 bryozoans, 182B13:9
 compressional wave velocity, 129B27:491
 Neogene, 144B20:409
 physical properties, 129B27:493
 calcification, gametogenic, oxygen isotopes, 138B13:304
 calcified beds, log signature, 188A3:65
 calcilutite
 deformation, 160A8:238–239
 lithology, 160A8:222–223, 266
 origin, 160B45:587
 photograph, 160A7:174
 calcimicrite, lithology, 169A4:164
 calcispheres
 Argo Abyssal Plain, 123B1:45
 biostratigraphy, 198A6:16
 inoceramid sediments, 123B1:8–9, 11
 lithology, 171B_A6:257–258; 207A7:7
 marl, 123B1:24, 26; 5:114
 nannofossil claystones, 123B1:24–26
 needle formation, 123B1:11
 photograph, 171B_A4:116; 6:257
 photomicrograph, 159B16:153; 173A8:232;
 185A3:118
 Site 261, 123B1:53
 Site 765, 123A4:94, 103, 129; 123B1:53
 smectite matrix, 123B4:108
 turbidites, 123B1:29
 See also packstone, calcisphere
 calcisponges, photograph, 144B16:333; 173A8:238
 calcirudite
 lithology, 164A8:246–247
 mass flow units, 160B37:467–468
 photograph, 164A8:253
 See also biocalcirudite

calcite
 alteration, 106/109B14:192; 113B46:814;
 119B16:314–315; 123A4:190, 193; 133B37:538;
 139A5:136; 8:498–510; 144B28:479–480, 484–
 487; 168B10:123, 126, 129; 169A3:82;
 176A3:38, 138; 183A6:50–52; 7:44–47; 9:31–35;
 185A3:25–26; 4:25–26; 187A4:3–4; 7:5–8; 8:7–8;
 11:8–10; 12:8–9; 14:4–5; 15:7; 187B5:7;
 192A3:31; 4:17; 7:9; 192B6:4–5; 197A3:24–30;
 4:20–21, 23; 203A3:15–17; 205A4:33
 amphibolite gneiss, 179A4:9
 analysis, 138A(1)8:104; 9:162
 authigenic carbonates, 149B31:531–532; 151B24:419–
 422; 164B29:287–289; 30:303–306; 186B12:1–6
 backscattered electronic images, 161B8:104–108
 Baffin Bay, 105A4:76; 105B3:44
 Barbados Ridge, 110A6:324, 327; 7:410
 basalts, 121A12:391; 169A5:213; 6:271; 191A4:33–35;
 192A4:14; 5:12–13; 197A3:20; 200B3:5
 basement, 124B20:277; 131A6:155; 185A1:18;
 196A3:31; 206B8:3, 16
 biogenic component, 130B15:271–273; 189B11:3
 black shale, 207A4:26
 breccia, 161A6:217; 173A7:193–195; 173B1:3–5
 Broken Ridge, 121A6:138; 13:463, 494; 121B14:277
 bryozoans, 182B13:6
 bulk mineralogy, 130B33:569–572; 162B17:241
 Cagayan Ridge, 124A12:328
 calibration of visible and near-infrared spectroscopy,
 199B11:19
 carbon, 103B15:237
 carbon isotopes, 104B25:453–454; 112A6:98;
 112B7:106; 174A_B(synopsis):9
 carbon/oxygen ratio, 164B21:206–207
 carbonates, 101B11:172
 cation exchange capacity, 127/128B(2)55:887
 Celebes Sea, 124A10:178–179; 13:359–360, 365–368
 cementation, 112A17:645; 114A7:295
 chemical and nuclear parameters, 178A5:137
 clasts, 160B46:598; 173A9:279, 284; 180A12:26
 comparison of GST logs, 138A(1)9:161–162, 178–179
 composition, 146B(1)6:129–133; 148B10:124;
 160B1:4; 34:442
 concretions, 165B7:130–131
 cracks, 139A7:304
 crystal chemistry, 130B33:561–572
 cyclic processes, 127/128B(1)33:588; 166B6:66–68;
 172B5:5–6
 data, 204B12:71
 dating, 110A6:350; 7:436; 9:544
 deep copper zone, 169A3:77
 deformation, 160A8:240; 173A9:285–288
 degree of saturation, 123B3:79, 82
 diagenesis, 123B3:83; 130B38:657; 131B34:425;
 150B17:313–328; 154B19:285–297; 22:331–345;
 160A7:188; 160B33:429; 164B13:139–146;
 168A4:80, 85
 diamict, 178A6:17–18
 dissolution, 101B16:221; 114B23:419; 115B30:582;
 168B8:97–102; 175A8:212; 9:255; 10:295;
 12:367–368; 189A6:54

- dusky green halos, 192A6:18
 dust, 130B28:474–477, 480–485, 489–490
 electron microprobe data, 149B33:555; 160B33:428;
 168B11:140
 Exuma Sound, 101A9:352; 10:400–401; 11:448;
 101B15:215
 factor analysis, 188B7:27
 fault gouge, 180A11:4; 180B3:3–4
 fissure fillings, 192B6:5–6
 fluid inclusions, 139B21:413–416
 foraminifers, 113B46:816, 827; 115B30:584, 587
 formation, 121B30:563
 Galicia margin W, 103A1:10, 12; 8:123, 131, 137–139,
 158; 9:234, 238–239
 geochemistry, 103B9:147; 144B59:1001–1003;
 171B_B4:4–5; 195B6:6–7
 green clay, 184B15:4
 habits, 149B31:533; 33:556
 hemipelagite, 161B8:101–104
 hydrogen, 103B14:231
 hydrothermal alteration, 139B11:214; 147B26:450;
 179A4:43–44; 179B(synthesis):8; 192A1:19–21;
 3:31–32; 210A3:57, 68
 hydrous fluids, 149B32:547
 igneous units, 200A4:29
 in situ formation, 105B8:104–105
 in volcanic rocks, 183B17:1, 2
 Indus Fan, 117A8:180–181
 interbasalt limestones, 123B1:23
 interpillow material, 185A3:24–25
 interstadials, 172B(overview):4
 isotopes, 127/128B(2):55:888; 146B(1):6:134
 Izu-Bonin forearc, 126B6:101–102
 Japan Sea sediments, 127/128B(2):78:1235–1241
 Labrador Sea, 105A6:695–696; 105B10:141; 43:816,
 819
 laser-ablation spectrometry, 168B11:145
 lava flows, 152A9:135
 light absorption spectroscopy, 199A5:5, 14, 18; 8:19;
 9:13, 45; 10:19, 62; 11:29, 118–120; 12:30, 121–
 123; 13:26, 88–89; 14:21–22, 63; 15:14, 54
 Lima Basin, 112A19:809–810
 lithology, 104A5:463; 6:625; 138A(1):10:199;
 149A8:266; 150A10:316–317; 151A7:171;
 152A6:60–62; 160A6:129–130; 9:294; 10:340;
 160B34:438–439; 161A5:130–131; 162A9:296,
 298; 10:350, 353; 163X_A4:5–6; 164A5:75;
 6:110–111; 7:182–183; 8:246–247; 165A5:238,
 244; 166A8:178; 169A4:167; 170A3:56–57;
 5:159, 161; 6:195, 197; 172A4:84–88; 5:164–
 165, 168–174; 6:258–259; 173A4:71–75; 6:126–
 129; 7:175–177; 174A_A3:57–58; 4:113–115;
 5:163; 175A3:56–57; 4:91; 180A6:28; 7:9–10;
 9:6; 12:5–6, 10–11, 14, 17; 180B6:5–8, 12–16;
 183A3:6; 5:17, 38–43; 6:4; 7:4–5; 8:3–7;
 186A4:19–22; 5:14; 190A4:8–9, 111, 114;
 192A1:12; 194A4:10; 196A3:19–20; 4:16;
 198A10:5; 201A6:11–12; 8:9, 12–13; 9:11; 10:9–
 10; 11:9–12; 12:10–11; 204A10:9; 207A7:7–10;
 208A6:9; 210A3:33, 37; 4:7
 Little Bahama Bank, 101A6:131, 138–140; 7:217, 226–
 228; 8:283–285
 lower sill complex, 210A3:69
 lysocline, 167A(1):15:438
 mafic rocks, 149A7:235
 magmatic structures, 176A3:60
 magnesium chemistry, 112B7:103
 Marsili Basin, 107A6:142
 mass accumulation rates, 117A19:222; 121B5:170,
 24:475
 Messinian, 107B6:195; 14:227
 metamorphism, 161B18:258
 metatonalite clasts, 173A7:191
 mica schist, 180A7:12–13
 nannofossil clay, 184B14:2
 negative scandium correlation, 119B39:722–723
 Ninetyeast Ridge, 121A11:324
 nodules, 150A8:211–214
 Northeast Providence Channel, 101A12:498; 13:535–
 536
 Norwegian Sea, 104A4:70
 origin, 150B17:319–320
 oxygen and carbon isotopes, 149B32:546, 552
 oxygen isotopes, 103B14:231; 15:236–237;
 104B25:450–453; 114B23:411; 115B36:674;
 204B13:6–8
 Pacific Ocean W, 124B31:414–415
 peak intensities, 155A9:212; 10:255; 174A_A3:59;
 4:116; 5:163
 percentage, 194A8:80; 9:71
 Peru margin, 112B7:104
 petrography, 134A10:276; 143A6:141; 160B36:456;
 161B4:59–65; 7:86–87; 27:357–359;
 168B10:119–148; 187A8:4–6
 photograph, 150B20:369–370; 152A11:228–229;
 159A5:83; 7:233; 8:269; 9:304; 159B3:31;
 160A6:132–133; 7:185; 161A6:241; 165A6:329;
 165B7:137; 169A6:272; 170A3:62; 173A6:129,
 149; 7:178–179, 188; 180A4:63–64; 6:108, 130;
 183A1:91; 5:131, 136; 7:140–148; 8:71, 74;
 9:76–79, 100–105; 185A3:113; 186A5:62;
 187A4:12; 7:22; 11:24, 29–30; 14:10; 191A4:99–
 100; 192A3:78, 116; 7:41; 194A7:60; 197A3:103;
 198A9:67; 200A3:59; 4:102
 photomicrograph, 161B18:260–261; 164A8:255;
 168A5:137; 168B11:147–148; 173A6:118; 7:178;
 176B9:66; 180A1:61, 63; 8:53, 77; 10:34;
 180B3:26; 185A1:47; 3:117–118; 4:83–84;
 187A6:16, 23, 26; 8:15, 20, 46; 15:14, 17, 26,
 33–34; 187B5:16–19; 191A4:107; 192A3:68,
 114, 123–129; 5:90–93; 6:76–79; 7:42;
 194A4:39; 209A10:95
 physical properties, 121A13:498; 121B13:268
 pore water, 119B19:390; 166A8:191
 potassium logs vs. photoelectric effect logs, 178A5:85
 precipitation, 112A1:17; 16:536; 112B25:424;
 113B46:815; 115B9:99; 123B1:11; 124B17:236–
 237; 149B33:553–558; 150B20:363–364;
 159B8:79; 175A16:494–495, 504; 187A8:8
 preservation, 115B30:582, 584
 productivity, 114B23:412

pseudomorphs after aragonite, 149B34:560–561
 pyroclastic sequences, 124B13:187
 recrystallization, 113B46:815–816; 115B34:636–637;
 35:656; 121A9:237; 121B13:268; 123B3:87;
 130A12:549; 133B31:478–479; 154A8:359;
 154B34:491–499; 162A5:158; 165B7:133;
 180A9:40–41; 194A4:21–22; 202A12:16
 redeposition, 205A6:9
 reflectance spectra, 199A5:13; 199B11:9
 replacement, 103B12:196–197; 192A3:26–28; 206B7:3
 Salaverry Basin, 112A12:274
 sand, 161B8:105
 sandstone, 180B7:8–17
 saturation index, 115B10:750
 scanning electron microscopy images, 110B16:251–
 252, 255; 150B17:327; 159B16:155; 174A_B7:59
 scatter plot concentrations, 138B19:441
 schist interlayers, 161B19:264–265
 secondary minerals, 121B32:625; 148A3:141;
 148B11:153–154; 12:173; 34:426; 149A4:80;
 183A1:14; 4:20–21
 sedimentation, 154A8:355
 sediments, 133A(1)7:217–218; 10:379; 12:477;
 14:583; 136B5:66–68; 138B19:431, 440–450;
 139A6:208–209; 155A7:137, 185; 156A6:101–
 103; 7:206–213, 216–217, 220; 160B35:447–
 448; 45:581; 167B25:282–284; 169A5:219, 221;
 171A_A3:28; 172B5:4; 183B7:25; 188B14:6–7;
 192A5:111; 6:104; 194A4:110–111; 5:101; 6:88;
 7:139, 146; 200A1:14; 204B11:17–19; 205A4:22
 serpentinites, 149B31:530, 544
 shallow-water limestone, 144B22:423
 Site 682, 112A14:373
 Site 688, 112A19:883
 Site 698, 114A5:111
 Site 701, 114A8:389
 Site 704, 114B24:449
 Site 765, 123A4:98, 100, 149; 123B9:192–193
 Site 778, 125B18:333
 Site 792, 126A8:240
 Site 793, 126A9:338, 340
 Site 795, 127A5:188
 Site 799, 127/128B(1)34:611; 128A5:289
 sketches, 168A5:131
 smectite covering, 126B8:135
 spar cement, 101B18:258
 stable isotopes, 107B13:191, 197; 115B9:97
 strontium isotopes, 118B9:200
 strontium vs. magnesium composition, 115B9:97
 Sulu Sea, 124A10:222–223
 supersaturation, 121A11:335; 121B22:448
 tectonic breccia, 173A6:132
 temperature effects, 103B16:249
 tephra, 205A4:23
 textures, 141B8:106; 149B34:560–563
 Tiburon Rise N, 110A5:219, 225
 time series analysis, 138B19:452, 454
 Trujillo Basin, 112B7:106
 turbidites, 131A6:94–99
 types, 103B8:109

veins, 103B16:243, 245; 32:406, 411–412; 110A7:396–
 402; 131A6:196; 134A8:153; 136B10:123;
 11:134–135; 138A(1)10:208; 147A3:72–73;
 152B9:120; 156A7:225; 159A9:303; 159B1:4;
 169A5:216–217; 173A6:144–145; 9:279;
 180A7:13; 192A5:17; 6:19; 200A4:39; 206A3:72;
 206B10:1–6
 velocity and density, 199B13:5–6
 vesicles, 185A4:24
 visible and near-infrared spectroscopy, 199B11:11–17;
 206A3:49
 volcanic ash, 131B14:176–177
 volcanoclastics, 134B9:138–144; 180B7:6–7
 vs. age, 161B8:102–103; 172B5:19; 189B11:9–12
 vs. calcium oxide, 172B5:15
 vs. carbonate content, 156A7:207; 161B4:63, 65; 7:88
 vs. clay, 161B2:32, 34
 vs. depth, 110A4:78, 126; 113B6:75–76; 131A6:117;
 133B(1)9:319; 134B6:93; 145B16:250;
 147B26:448; 150A6:74; 7:144, 146; 8:214;
 9:267; 151B24:421–425; 152A9:134;
 155B10:202–213; 156A3:36; 6:108; 7:208–209;
 160B1:5; 161B1:14; 2:22–24; 164A5:74, 78, 80;
 6:112; 7:182; 8:255, 9:286; 164B15:155; 21:207–
 210; 30:308; 167B25:284; 168A4:61; 5:112;
 6:170; 172B5:13; 173B1:7, 11; 181A3:39;
 183A7:139; 8:70; 9:98–99; 184A5:40; 6:31; 7:44;
 9:60; 184B14:5; 186A5:54; 188B14:13;
 190A4:47; 5:46; 6:34; 190B7:30; 8:37; 190/
 196B4:21; 192A3:122; 194A4:81; 5:66; 6:50;
 7:87, 89; 8:54; 9:45; 195A3:76–78; 197A3:101–
 102; 4:40; 199A8:39; 9:30; 10:43; 11:69; 12:75;
 13:60; 14:45; 15:35; 199B24:15; 206A3:158;
 207A4:72
 vs. gamma ray attenuation density, 138B19:451
 vs. opal, 138B19:451
 vs. total inorganic carbon, 167B14:204
 X-ray diffraction data, 133A(1)5:157; 144A8:304;
 156A3:32–33; 159A6:168, 177; 160B33:427–
 428; 37:474; 164A6:112; 166B3:26; 172B5:21;
 178A8:15, 65; 185A4:85, 92; 186A4:89;
 190A5:9; 6:8; 8:9; 190/196B5:13–14; 194A4:22;
 5:17–18; 6:14; 7:27; 9:17; 198B16:5; 200A3:95;
 4:38–39, 117; 201A6:39; 9:36; 202A9:54;
 204A6:34; 7:31; 9:37; 10:50; 208A6:46;
 210A3:237
 X-ray fluorescence data, 161A6:237
See also aragonite; calcium carbonate; carbonate com-
 pensation depth; carbonate content; carbon-
 ates; clay/calcite ratio; micrite; ooze; quartz/
 calcite ratio; sandstone; veins
 calcite, anhedral, glassy rims, 168B10:126
 calcite, authigenic
 Lima Basin S, 112A19:834
 lithology, 202A5:8
 Pisco Basin W, 112A18:713, 736
 Trujillo Basin, 112A16:553
 calcite, biogenic
 alteration, 135A(1)8:370; 10:517; 11:596–597, 644
 geochemistry, 135B43:690–694
 Oman margin S, 117A16:530

- sediments, 190A6:16
vs. calcium oxide, 135B43:698
- calcite, blocky
lithofacies, 144B14:277–278, 281–284
photomicrograph, 194A7:53, 59
textures, 168B11:139
- calcite, botryoidal, textures, 149B34:561
- calcite, cryptocrystalline, alteration, 187A1:11
- calcite, dendritic, photograph, 152A8:96
- calcite, detrital
Arabian Sea W, 117A2:17
Oman margin S, 117A4:474; 16:499
Owen Ridge, 117A19:623
- calcite, diagenetic
chemical composition, 127/128B(1)6:81
formation depth, 127/128B(1)6:85
isotopes, 127/128B(1)6:83
lithology, 207A5:9; 6:9
occurrence, 127/128B(1)6:80
photograph, 145A6:222; 207A5:53; 8:47
replacing orthoclase, 127/128B(1)9:147
sandstone, 127/128B(1)9:141–143, 146
shallowest occurrence, 128A5:273
Site 798, 128A4:137
Site 799, 127/128B(1)6:75–98; 128A5:272
strontium content, 115B36:668
- calcite, dog-tooth, photograph, 173A9:288
- calcite, euhedral, shoaling model, 198B3:9–11
- calcite, fascicular-optic, lithofacies, 144B14:277–283
- calcite, fibrous
photomicrograph, 160B45:595; 168A5:136; 180A7:39
textures, 149B34:562
- calcite, first-second generations, abundance, 187A7:27
- calcite, geopetal, Site 738, 119A7:240
- calcite, granular, photograph, 169S_A2:27
- calcite, high-magnesian
alteration, 166A3:34
authigenic carbonates, 204B5:1–8
carbonate platform derivation, 133B2:29
diagenesis, 166B17:190–191; 182B1:10–12
dissolution, 133B16:206–207
geochemistry, 187A13:14
glacial-interglacial cycles, 166B6:69–75
grain size, 182B15:4
lithology, 151A6:122
magnesium/calcium ratio, 166A11:365
mineralogy, 166A9:255
percentage of fine particles, 133B16:210–211
Peru margin, 112B7:99–100
sediments, 166A6:95; 7:164, 10:317; 11:365;
166B14:147–151; 182A5:21; 8:25; 9:19–20;
10:25; 11:13; 12:21; 182B7:3–4; 10:1–14
seismic sequence boundaries, 166B5:46–47
trace elements, 182B16:5–6
vs. age, 133B16:213
vs. depth, 151A8:233; 166B6:66, 68; 14:151;
182A4:68; 5:49; 7:21, 23, 51; 8:55; 9:45; 10:57;
182B7:8, 11–12; 8:11–12; 9:15; 10:8, 11; 11:8;
15:9
X-ray diffraction data, 194A8:18
- calcite, idiomorphic, lithology, 183A8:6
- calcite, inorganic
lithology, 160A8:222; 9:295; 169A4:164; 180A12:5;
180B6:11–12, 16
origin, 117A13:424
Owen Ridge, 117A10:258
photomicrograph, 198A5:49
pore water, 175A4:101
recrystallization, 162A3:81
vs. depth, 160A5:96; 7:164; 8:228; 9:297; 10:342;
202A5:29
vs. lithology, 141A10:351
- calcite, interlaminated, photograph, 173A7:173
- calcite, intermediate-magnesium, bryozoans, 182B13:6
- calcite, iron-rich, Mascarene Plateau, 115B9:98
- calcite, low-magnesium
bryozoans, 182B13:6
carbonates, 101B11:172
chemical composition, 133B13:175–180
deposition, 166A2:14–18; 3:33–34
diagenesis, 166B17:190–191; 182B1:10–12
fluid flow, 166A10:330
glacial-interglacial cycles, 166B6:69–75
grain size, 182B15:4
mineralogy, 166A9:255
Nazareth Bank, 115A4:143–145
Peru margin, 112B7:99–100
sediments, 166A6:95; 7:162, 164; 10:317;
166B14:147–151; 182A5:21; 6:30; 8:25; 9:19;
10:25; 11:13; 12:21; 182B7:3–4; 10:1–14; 12:4–5;
14:4
seismic sequence boundaries, 166B5:46–47
Site 765, 123B3:78
trace elements, 182B16:5–6
vs. depth, 166B6:66, 68; 13:141; 14:151; 171B_B4:7,
14–26; 182A4:68; 5:49; 7:21, 51; 8:55; 9:45;
10:57; 182B7:7–12; 8:11–12; 9:15; 11:8; 15:9
X-ray diffraction data, 182A6:102–103
- calcite, low-magnesium/quartz ratio, 182A6:71
- calcite, magnesian
aragonite, 115B29:551
authigenic carbonates, 164B29:287–289
cements, 144B24:440–443
dissolution, 101B17:250
Exuma Sound, 101B15:215–217; 16:225; 29:464
fine fraction, 115B29:544–546
lithology, 165A5:238–239, 247, 259; 172A6:257–258
Little Bahama Bank, 101B24:364
Maldives Ridge, 115B29:557–558
Mascarene Plateau, 115B9:98
mass accumulation rates, 165B17:261–262
meteoric diagenesis, 144B48:865
origin, 160B45:587
recrystallization, 101B24:374
saturation, 165A8:383
shallow-water carbonates, 101B20:279
Site 796, 127A6:266
strontium isotopes, 144B25:454–455
- calcite, massive fibrous, textures, 149B34:562
- calcite, measured, vs. predicted, 206A3:159
- calcite, micrite-filled, textures, 149B34:562–563

- calcite, micritic
 abundance in breccia, 187A7:27
 alteration, 192A6:19
 petrography, 187A8:7
 photograph, 187A6:26–27; 7:17, 20–21, 28; 8:19, 33
 photomicrograph, 187A6:27; 8:37; 14:22; 192A5:42
 Site 699, 114B35:661–662
 Site 737, 119B18:357
- calcite, neomorphic, electron micrograph, 170B3:25
- calcite, opal-free, sediments, 138A(1)8:108
- calcite, organic, vs. depth, 197A5:36
- calcite, predicted
 vs. depth, 206A3:158
 vs. measured calcite, 206A3:159
- calcite, radiaxial, lithofacies, 144B14:277–278, 281–283
- calcite, recrystallized, photomicrograph, 187A8:36–37, 40
- calcite, replacive
 photomicrograph, 129B3:100–104
 Pigafetta Basin, 129B1:11, 13; 6:156–156
 sediments, 129B14:274
 X-ray diffraction data, 129B1:12–15; 3:87
- calcite, scalenohedral, lithology, 144B14:277–278, 281–283
- calcite, secondary
 foraminifers, 113B46:824–826
 nannofossils, 199A14:11
 petrography, 187A8:4
 photograph, 165A6:328
- calcite, sparry
 alteration, 187A11:9–10
 Broken Ridge, 121A9:243
 deformation, 173A4:198–199
 Peru margin, 112B1:10
 petrography, 187A8:7
 photograph, 187A6:26; 7:20; 14:21
 photomicrograph, 160B32:405; 33:425–426; 37:472–473; 40:506; 45:593; 168A5:134; 187A8:37–40; 14:22; 192A5:79
 Site 738, 119A7:239–241
 Trujillo Basin, 112B1:14
- calcite, sparry cement, vs. lithology, 141A10:351
- calcite, syntaxial, photomicrograph, 201B13:24
- calcite, vein-forming, X-ray diffraction data, 176A3:163
- calcite, white, photograph, 192A5:75
- calcite, zoned, sparry, textures, 149B34:562
- calcite bands, photograph, 183A8:42
- calcite cement. *See* cements, calcite
- calcite compensation depth. *See* carbonate compensation depth
- calcite content, vs. stable isotopes, 182B13:21
- calcite crusts, subaerial weathering, 144A5:164
- calcite crystals
 hardgrounds, 144B22:421
 lithology, 169A5:208; 173A7:176–177; 182A4:10; 182B12:4–5
 photograph, 141A10:362; 144B22:427, 434; 170A6:200
 photomicrograph, 204A5:24
- calcite crystals, angular biterminated, 169S_A2:27
- calcite/dolomite ratio
 Broken Ridge, 121A13:494
 carbonates, 160B35:448
 Tyrrhenian Sea, 107A7:315
- calcite-dolomite series, vs. depth, 197A3:52; 4:39
- calcite fans, diagenetic botryoidal, 207A8:47
- calcite fibers, photomicrograph, 173A9:288
- calcite flux
 hemipelagite, 161B8:102–104
 vs. age, 161B8:106
See also mass accumulation rates
- calcite fracture infillings, photograph, 145A5:136; 6:224
- calcite grains, lithology, 189A3:12
- calcite logs, vs. depth, 207A5:79–81; 7:71–72, 75–77; 8:69, 72–73
- calcite marble, basement/sediment contact, 161A6:215
- calcite matrix
 photograph, 197A3:67
 photomicrograph, 173A9:282
- calcite microspar, photomicrograph, 192A6:60
- calcite needles
 diagenesis, 198A8:12
 photomicrograph, 204A3:55
 Site 765, 123B1:53
- calcite overgrowths
 photomicrograph, 180B7:51–52; 199A12:55
 sedimentation, 138B35:727
- calcite rims, sparry, photograph, 144B16:334
- calcite saturation horizon, water circulation, 115A5:237
- calcite spar
 lithology, 173A6:112–114; 210A4:5
 photograph, 173A7:176–179; 8:238
- calcite spar, equant coarse, Miocene, 133B34:502
- calcite spar cement. *See* cements, calcite spar
- calcite spherules. *See* spherules, calcite
- calcite stringers, lithology, 207A6:9
- calcite veins. *See* veins, calcite
- calcite-zeolite veins. *See* veins, calcite-zeolite
- calcitization
 carbonates, 144B23:433–436
 peridotites, 149A4:79–80; 149B22:399–405
 serpentinites, 149B31:532–534; 32:543
 strontium isotopes, 144B25:454
- calcitized gabbro. *See* gabbros, calcitized
- calciturbidite
 Exuma Sound, 101A1:7–8
 image facies, 166B7:81–82
 lithology, 182A1:22; 6:4–5, 8
 Little Bahama Bank, 101A1:7–8; 101B11:175
 middle-upper Eocene, 210B8:12–13
 paleogeography, 160B32:414–415; 54:743
 periplatform environment, 133A(1)10:357, 359
 photograph, 182A6:47
 photomicrograph, 160B45:593
 Pliocene, 160B36:457
 Straits of Florida, 101A1:8; 101B11:174
 upper Paleocene–middle Eocene, 210B8:10–12
- calcium
 albitization, 127/128B(1)9:137

- alteration, 121A11:334; 12:399; 15:531–532;
 121B22:448; 126A8:269, 378; 127/
 128B(2)58:909, 911
 Atlantic Ocean E tropical, 108B14:221
 authigenesis, 172A3:63; 4:125–126; 5:225–228;
 201B1:26
 bacterial mats, 204A8:13
 Baffin Bay, 105A4:103–104; 105B12:175, 179
 Barbados Ridge, 110A1:22; 7:415, 418–419; 8:495–
 496; 9:525, 528–529; 110B11:158–160, 175;
 13:195–200; 22:331, 335; 26:407
 basalts, 102B9:128; 130A10:524–525; 12:549–551;
 139A5:117–118; 195A4:22–23; 195B8:7
 basement, 126B28:434, 437; 127A6:280; 127/
 128B(2)56:892; 185A4:29–30
 bioreactors, 207A7:28
 black shale, 207A4:25; 5:28
 brines, 112A19:834; 207A8:28–29
 bulk sediments, 199A8:17; 9:11; 10:18; 11:26; 12:27;
 13:23; 14:19
 Cagayan Ridge, 124A12:330
 calcite, 175A20:550–551
 carbonates, 160A4:67, 69; 160B35:448; 165B19:291;
 166B13:141–142
 Celebes Sea, 124A10:157, 174–178, 183; 11:239;
 13:356, 376–378, 380–381
 Cenomanian, 101A8:278
 Chagos Bank, 115A10:749–750, 753; 115B34:642–643
 chemical gradient, 119B18:359
 chemical reactions, 150X_B24:338–339
 clay mineralogy, 169B6:7, 9
 clinopyroxenes, 135B27:493–494
 comparisons, 138A(1)9:178; (2)15:855; 177A5:52
 concentration, 102A1:5–6; 3:139–146; 102B9:128–
 133; 126B34:520–521; 133A(1)13:524
 Costa Rica Rift, 111A2:27–28; 3:77–92, 111, 115–117,
 123; 4:266–270; 111B17:197–200, 206–213
 dark-light cycles, 127/128B(1)32:569
 data comparison, 133A(1)4:108
 deep maximum, 126A8:269–270
 deformation, 205A5:33
 depletion, 117B130:508; 135B37:615; 162A3:79
 diabases, 118B26:477; 180B3:6–7
 diagenesis, 124B14:204–205; 150B17:316–317;
 150X_B3:28, 35; 160A7:188; 161A6:236; 7:319;
 180A9:41–44
 diffusion, 189A5:49
 discontinuities, 119A6:187
 dolomite, 123B3:82; 127A7:363; 175B15:6–7;
 201B13:9–11
 element correlations, 158B27:378–382
 enrichment, 158B27:377
 equivalent fraction, 168B7:87–94
 evaporites, 161A4:83
 Exuma Sound, 101A9:348–351; 10:396–399; 11:446–
 447, 450–451
 faulting, 121A10:286
 ferromanganese crusts, 144B44:751–753
 ferromanganese micronodules, 199B14:4
 fluid flow, 166A10:330; 168A5:137–138
 gabbros, 118B26:477; 176B8:3–4; 180B3:7
 Galicia margin W, 103A8:145, 150; 9:253, 255;
 10:431–435; 11:541; 12:591
 garnet, 161B19:267
 geochemical logs, 111B11:121–122; 114A11:697–700;
 117B29:490; 118A6:178; 130A8:335;
 135A(1)1:31
 geochemistry, 134A9:236; 138A(2)15:836; 158A7:126,
 140; 189A4:22; 205B6:11
 gradients as stratigraphic tools, 101B24:378–379
 gypsum, 126B34:521; 160A8:250; 9:311; 161A5:145
 high-resolution vs. regular sampling, 119B20:397–398
 high-temperature microscopic veins, 176B4:12–13
 hornblende, 176B10:14
 hydrothermal fluids, 139B20:402
 hydrothermal sediments, 158B27:370–380;
 169A6:281; 199B15:3
 impact craters, 165A1:8
 in volcanic rocks, 183B17:2
 Indus Fan, 117A8:179–180
 inorganic sediments, 154B36:509–516
 interlayer cation composition, 156B10:140–141
 intersite correlation, 121A7:180
 Japan Sea, 127/128B(2)78:1236; 79:1265
 jasperoids, 193B1:48; 9:5–7
 Kerguelen-Hearde Plateau N, 119A5:139
 Kerguelen sediment ridge, 119A14:516–517; 15:544
 Labrador Sea, 105A5:455–458; 6:709, 713; 105B8:102–
 103; 9:118; 12:175, 179
 Lima Basin, 112A11:184, 186; 19:824, 827;
 112B25:432, 29:484
 lithology, 117A19:623; 121A2:533; 164A9:285;
 210A3:54
 Little Bahama Bank, 101A6:130–131, 136–137; 7:225;
 8:278–281
 log-derived record, 130A7:265–266
 Maldives Ridge, 115A11:863; 12:930, 942; 13:1012–
 1015; 115B34:641–643
 manganese minerals, 126B7:115
 Mascarene Plateau, 115A5:259–260, 265;
 115B34:641–643
 mass balance, 169A3:98
 measured spectra, 129B34:636
 metasedimentary rocks, 152B10:135
 mineral separates, 158B7:94
 mobility, 127/128B(2)51:838; 183B15:9–10
 Nazareth Bank, 115A4:144; 115B34:642–643
 Ninetyeast Ridge, 121A10:260, 290
 Northeast Providence Channel, 101A13:534
 Norwegian Sea, 104A4:176–179; 5:492–494; 6:648–
 649; 104B7:235–241; 10:275
 Oman margin, 117A11:347, 349; 12:403; 13:432;
 14:462; 15:480; 16:521; 18:578
 organic matter, 207A8:27–28
 Owen Ridge, 117A9:229–230; 10:281; 19:617–618
 oxygen isotopes, 124B14:214–215
 Pacific Ocean W, 124B31:414–416
 Paleocene/Eocene boundary, 199A1:85; 14:20;
 199B16:3
 peridotites, 153A3:66–67
 period-mean depth correlation, 114B30:583–584
 photomicrograph, 176B4:26, 30, 32

- Pisco Basin W, 112A18:725–727, 734–735
 pore fluids and sediments, 205B5:6–7
 pore water, 112A14:373; 115B34:630–631; 116A4:59, 65; 5:106, 109–110, 128–131, 146–149; 6:166, 169; 116B10:128–131; 34:422–423; 117B30:507–510; 119B19:380, 385; 50:929–931; 121A8:213; 121B22:448–451; 123B3:83; 127/128B(1)34:607; (2)79:1263, 1268; 129B10:207; 14:269–275; 130A8:324; 131A6:128–138, 163–168; 131B31:388–390, 394–396; 32:399; 133A(1)4:101, 105, 107; 5:154–156; 6:188–190; 7:215–216, 221; 8:265–267; 9:316–319; 10:369; 11:430–431; 12:467–468; 13:520–521; 14:581–582; 15:632; 16:707–708; 17:781–783; 133B35:517, 520; 48:707–711; 134A7:114; 8:156–157; 9:203–204, 10:279; 11:347; 12:416; 13:506–507; 136A4:55; 5:71; 138A(1)10:225; 11:299; 12:355–356; 139A5:116; 143A6:136; 7:215; 9:330–331; 144A3:67–68; 4:129; 5:179; 6:232; 8:302; 10:366; 144B43:738; 145A3:53; 4:97–98; 5:151; 6:239; 7:313; 8:352; 146B(2)25:331; 149A5:135–136; 6:191; 7:244; 150A6:99; 7:170, 172; 8:235; 9:290; 10:333; 151A6:129; 7:181–182; 8:239–240; 9:285–286; 10:333; 11:366–367; 154A4:87, 93, 181; 6:249; 7:304; 8:361–362; 155A7:141; 8:190; 9:217; 10:260; 11:295; 12:348; 14:424; 15:449; 16:476; 17:520; 18:557; 19:583; 20:610; 21:650; 22:675; 156A6:147–149; 157A4:78; 5:124–125; 6:155; 7:358; 8:418–419; 9:459; 10:523; 157B38:630; 159A5:110; 6:194–195; 7:244; 8:285; 160A5:113; 11:392; 14:485; 161A6:235; 7:321; 8:381; 9:403, 405; 162A3:76; 4:115; 5:157; 6:193; 7:246–247; 8:274–275; 9:309; 10:361; 164A5:89; 6:128; 8:264; 9:300–301; 165A3:74; 4:167; 5:260; 6:319, 348; 8:396–398; 165B19:295; 166A3:35; 6:93; 7:161–162; 8:189–192; 9:251, 267; 10:313; 167B32:343; 168A1:11; 4:83; 169A3:113–117; 4:171–175; 5:218; 6:274–281; 170A3:74; 4:134; 5:175; 6:203, 205; 7:236; 171B_A3:77; 4:143; 5:207–210; 6:285–287; 7:334; 172A6:286–288; 7:311–313; 173A4:90; 174A_A4:122–123; 5:171; 175A3:72–73; 4:100–101; 5:129–130; 6:164; 7:189; 8:212–213; 10:295; 11:325–326; 12:367–368; 13:409; 14:444–445; 15:472; 177A1:13; 3:12; 4:17; 5:20–21; 6:14; 7:15; 8:16; 9:13; 178A4:22; 5:19; 6:14; 8:14; 9:15; 180A1:25; 5:31–32; 6:54–58; 7:21; 8:31; 9:39; 12:37–39; 181A3:23; 4:19; 5:20; 6:29; 7:39; 8:31; 9:21; 182A1:18, 24, 32; 4:30–31; 5:19–21; 6:28–29; 7:21; 8:24; 9:19; 10:23–24; 11:14; 12:20; 184A4:22; 5:18–19; 6:14; 7:18–19; 8:8; 9:22; 186A1:10, 14; 186B14:5–6; 188A4:30; 5:24; 189A3:43–44, 161; 4:21, 60; 5:47–48, 158; 6:52, 166; 7:45, 140; 190A4:18, 64; 5:23, 70; 6:16–17; 7:13–15; 8:16–17, 44; 193B4:4–7; 194A3:15–16; 4:21; 5:17; 6:13; 8:17; 9:16; 195A3:33–37; 4:33–36; 195B9:3–4; 198A3:36; 4:27–28; 5:28; 6:25; 7:24; 8:22; 9:30; 199A8:16; 9:10; 11:25–26; 12:26; 13:22; 14:18; 15:12; 202A1:24–25; 3:13; 4:15; 5:13–14; 6:15; 7:18; 8:23; 9:19; 10:18; 11:15; 12:16; 13:14; 204A9:12; 205A4:46–47; 5:30; 6:15; 206A3:39–40; 207A6:31; 208A3:20; 4:18; 5:14; 6:22–23; 7:21; 8:22
 predicted depletion vs. observed, 188A3:129
 profiles, 167B32:349, 351
 pyroxene, 153B27:484–487
 recrystallization, 138A(2)13:699
 reduction, 168B10:133
 rock-water reaction zone, 188A3:46
 Salaverry Basin, 112A12:267, 270; 13:323; 16:550, 563
 seawater interactions, 165B19:293–294; 195B4:6
 sediments, 130A7:251; 134B9:144–150; 135B8:140–141; 149A4:98–99; 152A12:272; 152B2:20, 23; 156A7:231–232; 157B12:155; 166A11:363–364; 167A(1)4:75; 5:104–105; 6:144–145; 7:166; 8:193; 9:232; 10:261; 11:295; 12:328; 13:368; 14:406; 15:447; 16:475; 169B10:19; 169S_B1:39–40; 180B6:5; 186A4:38–39; 190A9:18; 192B4:1–6; 195A1:21; 206A3:42; 208A5:17
 shallow-level source, 119A8:312
 sheet silicate formation, 119A8:313
 shipboard vs. shore-based digestion, 206B3:14
 shore-based flux vs. shore-based microwave acid digestion, 206B3:12–13
 sinks, 126B34:521–523
 Site 682, 112A14:389–390
 Site 685, 112A17:628–631
 Site 688, 112A20:912–913
 Site 690, 113A6:230
 Site 693, 113A8:375
 Site 694, 113A9:484
 Site 696, 113A11:648–649
 Site 699, 114A6:174
 Site 700, 114A7:276–278, 295, 299; 114B34:651, 653
 Site 701, 114A8:389
 Site 702, 114A9:499
 Site 703, 114A10:567
 Site 704, 114A11:648
 Site 708, 115A6:414, 416; 115B34:641–643
 Site 709, 115A7:479–480, 486; 115B34:641–643
 Site 710, 115A8:609, 613; 115B34:641–643
 Site 711, 115A9:674, 680; 115B34:641–643
 Site 737, 119A6:185–186
 Site 738, 119A7:255
 Site 739, 119A16:312
 Site 740, 119B18:360, 362
 Site 741, 119A10:385
 Site 742, 119A11:418
 Site 743, 119A12:466
 Site 744, 119A13:491
 Site 747, 120A6:117–118
 Site 748, 120A7:208–209
 Site 749, 120A8:260
 Site 750, 120A9:312–313
 Site 751, 120A10:357
 Site 756, 121A10:284, 290
 Site 765, 123A4:147
 Site 779, 125A7:126
 Site 780, 125A8:159

- Site 782, 125A10:211; 125B7:120
 Site 784, 125A12:284
 Site 787, 126A5:88
 Site 793, 126A9:372
 Site 794, 127A4:109–110
 Site 795, 127A5:174, 205
 Site 796, 127A6:280
 Site 797, 127A7:363–364, 370
 Site 798, 127/128B(2)86:1368–1369; 128A4:173–174, 182
 Site 799, 127/128B(1)34:611; 128A5:318, 329
 Site 803, 130A5:135–136
 Site 804, 130A6:202
 Sites 790–791, 126A7:187–188
 slow water convection, 121B22:452
 sources, 127/128B(1)9:143
 Southern Ocean, 114B39:721
 Straits of Florida, 101A5:64–66
 sulfate and alkalinity correlation, 119B18:362
 sulfate reduction, 112A1:17; 117B30:508; 188A3:44–45
 sulfides, 158B2:37, 39; 3:45; 193B10:3–7
 Sulu Sea, 124A11:239, 241, 264–265
 Tiburon Rise N, 110A5:231–235, 261; 110B11:159, 175; 13:194; 26:407
 Trujillo Basin, 112A16:553–554, 563
 tuffs, 129B4:128
 ultramafic rocks, 118A1:13
 veins, 176B9:16, 33
 velocity and density, 199B13:6
 vertical distribution gradient, 119B18:363, 366–367, 372–373; 19:380–381, 385–388, 391; 121A11:334; 12:398; 13:494; 15:534
 volcanics, 121A6:136; 10:283–284; 11:336; 13:491–492; 121B22:448; 127A6:280; 7:363–364; 127/128B(2)87:1383; 131A6:172; 203B2:4
 volcanoclastics, 134B9:164
 vs. age, 199A1:67; 7:13
 vs. alkalinity, 119B19:385; 128A4:183
 vs. alteration percentage, 137/140B9:110
 vs. aluminum, 154B36:517
 vs. aluminum/iron ratio, 111A3:120
 vs. assigned ages, 130A12:551
 vs. chloride, 134B8:121; 139B22:434; 160A8:254; 169A6:279
 vs. depth, 110A6:336; 111A2:31; 113A5:129–130; 6:237; 8:380; 9:485–486; 10:561–562; 11:650–651; 12:736–737; 113B10:138–143; 114B37:687; 129A2:60; 3:125; 130A12:549–551; 133A(1)4:103; 9:318; 10:372; 12:474; 13:523; 14:582, 584; 15:633, 642; 16:710; 17:783; 133B48:716; 134A7:113; 8:160; 9:207–209; 10:282, 285; 12:422–424; 13:506–507; 134B8:113, 117–118, 124–127; 135A(1)4:128; 5:220; 7:320; 8:369; 10:539; 11:629; 135B48:794; 136A4:56; 136B6:78–79, 82–83; 137A2:37; 137/140B13:145; 138A(1)9:160, 174; 10:234; 11:300; 12:362; (2)13:711; 14:776, 779; 16:937; 17:999; 18:1048; 19:1085; 139A5:128; 6:195; 7:338; 8:476; 139B22:434; 43:686, 689; 141A6:121; 8:281–282; 10:406–407; 143A6:139; 9:332; 144A3:73; 4:130; 5:182; 10:368; 145A3:64; 5:152; 6:244; 7:321; 8:361; 146A(1)4:86; 5:189; 6:270; 7:345; 146B(1)7:139–140; 15:262–264; 148A2:55; 3:128; 149A4:100; 5:136; 6:192; 7:245; 150A6:103; 7:172; 8:236; 9:293; 10:333; 150B17:324; 150X_B24:334; 151A5:82; 6:130; 152A8:102; 11:238; 12:271; 152B25:295, 298; 154A4:103; 5:184; 6:256; 7:305; 8:381; 155A6:112; 7:149; 8:192; 9:219; 10:260; 11:296; 12:354; 13:402; 14:426; 15:456; 16:481; 17:528; 18:558; 19:585; 20:615; 21:651; 22:677; 155B30:498–501; 156A6:148; 7:239; 156B12:165, 168; 13:179, 181; 157A7:365; 8:420; 9:460; 10:527; 158B4:53, 57–61; 27:374–376; 159A5:110; 6:194; 7:245; 8:285; 9:311; 160A4:80; 5:114; 7:192; 8:255; 9:314; 10:367; 11:394–396; 12:437; 14:486; 161A4:92; 5:152; 6:260–261; 7:332; 8:387; 9:412; 161B33:425–427; 162A3:80–81; 4:119; 5:162; 6:196; 7:248; 8:281; 9:318; 10:374; 164A6:131; 7:203; 8:271; 9:303; 164B15:155; 30:303, 305; 165A3:75; 4:167; 5:260; 6:319; 7:372; 8:397; 165B19:292, 294; 166A6:94; 7:163; 8:189; 9:253; 10:314; 11:363; 166B17:182–185, 189; 167A(1)4:79–80; 5:110–111; 6:148; 7:170; 8:204; 9:232; 10:265; 11:302; 12:339; 13:371; 14:414; 15:447, 456; 16:480; 167B32:350; 168A4:83; 5:144; 6:181; 169A3:112–117; 4:176; 5:220; 6:276–282; 170A3:80; 4:134; 5:178; 6:207; 7:238; 171B_A3:84; 4:147; 5:217; 6:296; 7:341; 171B_B4:8; 172A3:62; 4:137; 5:227–228; 6:286–287; 174A_A3:75; 4:126; 5:173, 175; 175A3:78; 4:107; 5:134; 6:169; 7:191; 8:215; 9:260; 10:300; 11:331; 12:370; 13:415; 14:450; 15:478; 20:551–552; 175B13:15; 20:5; 177A3:33; 4:48; 5:51; 6:43; 7:34; 8:50; 9:41; 177B1:4; 178A4:77; 5:70; 6:49; 7:52–53; 8:47; 180A1:49; 5:84; 6:164; 9:116; 12:120; 181A3:54; 4:40; 5:46; 6:73; 7:93–94; 8:75; 9:49; 182A4:64–65; 5:45; 6:68; 7:49; 8:52; 9:43; 10:53; 11:30; 12:45; 184A4:59; 5:57; 6:38; 7:56; 8:23; 9:68; 185A4:117; 186A4:128; 5:73; 186B14:18–19; 188A3:124–125; 4:76; 5:65; 188B14:10; 189A3:94; 4:39; 5:93; 6:106; 7:85; 190A4:64; 5:70; 6:46; 7:38; 8:44; 194A3:46; 4:80; 5:63; 6:48; 8:53; 9:43; 195A1:55; 3:116; 4:133; 195B2:25; 9:7; 10:6; 198A3:96; 4:67; 5:66; 6:59; 7:55; 8:53; 199A1:66; 8:35–36; 9:26–27; 10:39–40; 11:64–66; 12:69–71; 13:53–56; 14:38–41; 15:30; 199B15:5; 16:6; 202A3:36; 4:48; 5:42; 6:47; 7:55; 8:67; 9:63; 10:58; 11:53; 12:63; 13:51; 204A3:60; 4:62, 66; 5:29; 6:40; 7:37; 8:49; 9:47; 10:53; 205A1:50–51, 62; 4:70, 146; 5:45, 83; 205B1:43–44; 6:20, 22; 206A3:149; 206B3:15; 207A4:58; 5:68; 6:67; 7:63; 8:59; 208A3:57; 4:58; 5:48; 6:67; 7:57; 8:56
 vs. fluoride, 205B5:11
 vs. iron, 179B2:40
 vs. lithium, 189A7:86
 vs. magnesium, 110B11:174; 114A9:501; 10:569; 119A6:193; 7:259; 11:420; 13:493; 14:522; 127A4:115; 134A7:114; 135B43:699; 137A2:43;

- 137/140B13:146, 151; 139B20:404; 148A2:55;
152B25:295, 298; 155A15:457; 162A5:162;
6:196; 7:248; 8:281; 9:318; 10:374; 169A3:118;
4:172, 174, 178; 177A5:53; 184A4:22, 59; 9:69;
185A4:118; 186B14:10, 23; 188A3:130;
189A7:86; 194A3:47; 5:64; 6:49
vs. magnesium number, 137/140B1:9
vs. methane, 189A6:106
vs. NaCl-extracted sulfur, 160B20:252
vs. oxygen isotopes, 104B12:288; 134B8:121
vs. phosphate, 198A4:65
vs. phosphorus in bulk sediments, 199B14:16
vs. porosity, 114B34:655
vs. potassium, 135B8:144
vs. sodium/chloride ratio, 152B25:298
vs. strontium, 115A11:857; 135B43:700; 169A3:114;
177A5:53; 207A8:62
vs. strontium isotopes, 127/128B(1)36:645
vs. subbottom depth, 141A6:120; 7:217–218
vs. sulfate, 137A2:43; 139A6:197; 150X_B25:350;
160A8:255; 160B20:259
water-rock reactions, 168A4:84–85
water-sampling probe, 164A7:196
weathered basalts, 152B9:119, 121
well-logging, 114A11:680–681; 114B28:518;
117A2:30; 117B29:482; 126A7:206; 166A6:100
X-ray fluorescence data, 117B29:484, 486, 493; 127/
128B(2)65:1028–1035; 160B35:450; 175B13:5–
6, 21–30
xenoliths, 193B6:3
Yaquina Basin, 112A15:464, 467
yield, 114B30:578, 581–582, 584; 129B6:153
See also barium/calcium ratio; cadmium/calcium ra-
tio; fluoride/calcium ratio; hydrogen/(silicon +
calcium) ratio; iron/calcium ratio logs; iron/(sil-
icon + calcium) ratio logs; lithium/calcium ra-
tio; magnesium/calcium molar ratio;
magnesium-calcium-silicon-oxygen-hydrogen
system; manganese/calcium ratio; phosphate/
calcium ratio; potassium/(calcium + sodium) ra-
tio; pyroxenes; silicon/(silicon + calcium) ratio;
silicon/(silicon + calcium) ratio logs; sodium/
(calcium + sodium) ratio; sulfate/calcium ratio;
sulfur/calcium ratio
- calcium, dissolved
pore water, 201A1:31; 7:15–16; 201B11:2–3;
202A1:105
vs. depth, 169S_A2:55, 58; 201A7:47; 201B11:9–14
vs. age of sediment, 130A10:534
- calcium, excess, vs. depth, 182A5:47; 8:54; 10:55
- calcium, inductively coupled plasma–atomic emission
spectroscopy, vs. depth, 199A7:12
- calcium, normalized, vs. depth, 166A6:95; 7:163
- calcium, observed vs. predicted depletion, 168A4:84
- calcium, unprocessed log yield
vs. depth, 138B2:27
vs. laboratory calcium carbonate, 138B2:27
- calcium/aluminum oxide ratio, vs. depth, 131B35:445;
156B1:25
- calcium/aluminum ratio
inorganic sediments, 154B36:515–516
- lithology, 207B8:23
Site 794, 127/128B(2)78:1236
vs. carbonate/noncarbonate ratio, 154B36:518
vs. depth, 154B36:518–525; 160B17:210, 212;
206A1:85; 3:198
- calcium/(calcium + silica) ratio
geochemical spectral tool logs, 130A8:336
lithology, 130A7:266
vs. shipboard calcite measurement, 130A7:270
- calcium/(calcium + sodium) ratio
melt inclusions vs. host plagioclase, 137/140B12:135
vs. magnesium/(magnesium + iron) ratio, 147B6:120
- calcium carbonate
Africa SW, 175A1:15
age, concentration, and sedimentation rates,
172A4:116–119, 123, 126; 5:206, 209, 214;
6:280
alkalinity, 119A6:186; 7:257
alteration, 148B10:135–137; 163A4:41–42; 168A4:73;
6:173; 206B1:8
Atlantic Ocean E tropical, 108A2:54; 6:429; 7:499;
8:561, 571; 108B13:192, 195
biogenic production, 165A3:79
biomarkers, 167B12:183–194
Broken Ridge, 121A6:141–142; 7:183; 8:215–216;
9:251; 13:497–498; 121B3:79–82; 20:426–428
bulk sediments, 199A8:17–18; 9:11; 10:18; 11:23, 27;
12:27–28, 118; 13:23, 86; 14:19; 15:13;
199B21:30–31; 23:10–12
Cagayan Ridge, 124A12:315, 317, 325–328, 339;
124B29:387–390
calcareous sediments, 123B1:27–28
carbonates, 156B5:85–87; 199B20:26
Celebes Sea, 124A10:153–154; 13:356–357, 365–369;
124B1:4
chemical composition, 148B10:124; 11:166
clay, 175A10:283
coarse fraction and dissolution, 121B16:307
color, 117B7:155; 175A23:571, 573
composite depth, 121B15:306–313, 340–355
composition major change, 108A5:328
Cornaglia Terrace, 107A9:603, 625–627, 631
Cretaceous sediments, 123B12:226
Cretaceous/Tertiary boundary, 120B(2)58:968–969;
121A13:471; 121B18:398–399; 44:941, 943
cyclic processes, 117A9:210; 117B12:240; 19:338;
20:346, 348, 353; 23:414–415; 121B15:311–312;
133B15:191–194
data, 180A5:118
density, 126A7:189
deposition, 119B6:112–113; 124A14:404–405;
145B25:391
diagenesis, 124B14:205–209; 167B7:137; 168A4:80
dilution, 121B15:311; 123B8:187
dissolution, 108B13:197; 115B25:468; 120B(2)36:661;
134B13:302–304, 308; 199B23:9
distribution, 108A5:328
Eocene, 121A12:368; 199B21:8–9
Eocene/Oligocene boundary, 199B1:13
flux rate, 121A4:90; 13:468–469; 121B44:939–943

- Galicia margin W, 103A8:145, 149–150; 9:252–253; 10:432–433; 11:541; 12:587–588
- geochemical logs, 136B13:157
- geochemistry, 138A(2)15:836–837
- Gortani Ridge, 107A11:881
- grain density, 126B37:553
- grain size, 107B15:235
- high-amplitude changes, 108A7:488; 8:558; 9:621, 629; 10:742
- high-resolution stratigraphy, 130B48:775–788; 138B2:25–30
- ice volume, 117B24:433–435, 439
- isotopes, 148B10:146
- Labrador Sea, 105B9:118–121, 125; 39:771
- lithofacies, 131A6:99
- lithology, 123A5:305; 129A4:194; 130A9:379; 157A5:112–113; 173A4:71–73; 175A11:317; 183A4:85; 199A8:55; 14:61; 15:52
- magnetic susceptibility, 117B20:346; 121A13:483
- Marsili Basin, 107A6:159
- mass accumulation rates, 113B47:841; 114B28:533–550; 117A9:222, 228; 10:279, 281; 11:336; 12:400, 404; 13:429, 432, 433; 14:455–456; 15:481; 16:508, 513; 17:553; 19:606–609; 117B20:346–350; 23:414, 416; 121A13:465; 14:507; 121B15:299, 303, 307, 309; 44:940; 124B29:383–385; 172A3:48–49, 55, 56; 7:316; 206A3:43–44
- mid-Pleistocene shift, 121B15:313
- Miocene, 121B11:246
- Ninetyeast Ridge, 121A10:290–291; 11:343–344; 12:372, 420–424; 121B1:28; 3:82–85; 15:299, 316–328; 25:490–491, 495
- normalized log yield residuals, 138B2:29
- Northern Hemispheric glaciation effects, 121B15:313
- Norwegian Sea, 104A4:55; 104B3:55; 4:71, 73
- Oligocene abundances, 113B53:954
- Oman margin, 117A11:327–329, 338, 340, 359–360; 15:471, 475; 117B11:325; 25:448; 31:524
- Owen Ridge, 117A9:203–207; 10:252; 117B25:448
- oxidizing alteration, 149B30:521
- oxide-weight fractions, 129B34:644–645
- oxygen isotope-based chronology, 117B20:351, 353
- Paleocene/Eocene boundary, 199B22:6–7; 23:2–5
- Paleocene/Eocene Thermal Maximum, 198B8:5–12, 21–28
- percentage vs. mass accumulation rates, 117B24:432
- periodicity, 108A12:834; 117B18:316–317
- petrography, 150X_B3:27–28, 33, 36
- photograph, 148A3:149; 206A3:244
- physical properties, 120A7:213; 120B(1)13:184
- Pliocene/Pleistocene boundary, 107A8:437
- pore water, 116A3:40; 4:59, 61, 66
- preservation, 133B16:203–233
- processed well-log vs. laboratory values, 138B2:28
- productivity, 117B1:34; 24:435–436; 199B22:11
- Prydz Bay, 119A8:314; 119B19:378, 385
- Sardinian margin, 107A8:436; 10:750, 775–778; 107B15:235
- sea-surface temperature, 108B13:208, 210; 117B25:449, 452
- secondary minerals, 148B11:153–154; 12:173; 168A5:126
- sedimentation, 121B9:227; 145B16:248; 20:293–314; 167B11:163–182; 172A7:316
- sediments, 130A5:113; 138A(1)9:148–153; 11:300–302; 146B(1)6:125; 150A6:96; 151A8:241; 9:286; 160A4:69–70, 80–81; 5:113, 116–117; 6:137–138; 7:188–189, 193; 8:250, 256–257; 9:313–316; 10:367–369; 11:395, 398; 12:439–440; 13:461; 14:488; 160B2:13–17, 21; 161A6:230, 232; 165A5:254–256; 6:316, 318; 170A3:75–76; 4:134–137; 5:176–180; 6:206, 209; 7:237–239; 172A3:58–59; 4:130–131; 5:219–221; 6:282–283; 175B17:2–3, 10–12; 177A3:13; 178A4:20–21; 5:128–130; 7:106–107; 8:12; 194A3:16–18; 199A9:43; 10:60; 11:114–115; 201A6:18, 82; 7:18; 205A4:180; 5:35; 206A3:41–42
- serpentinities, 149B30:521
- shear strength, 123B25:496
- shipboard measurements, 130A7:235
- Sierra Leone Rise, 108A10:758; 11:805
- silica inverse correlation, 107B15:235
- Site 698, 114A5:113
- Site 699, 114A6:156, 176–178
- Site 700, 114A7:262, 278, 281; 114B6:126
- Site 701, 114A8:392–393
- Site 702, 114A9:503–504
- Site 703, 114A10:557, 569, 571, 575
- Site 704, 114A11:653–656, 665–666; 12:803; 114B5:99–100, 106; 9:196–197
- Site 715, 115A12:936
- Site 716, 115B35:653–654
- Site 722, 117A10:264–265, 297–298; 117B12:240; 31:526
- Site 724, 117A12:393, 406; 117B24:441
- Site 728, 117A16:502–503; 117B18:310–311; 25:448
- Site 730, 117A18:560
- Site 731, 117A19:589, 592–593; 117B25:448
- Site 736, 119A5:142; 119B18:357
- Site 737, 119A8:168, 10:193–196; 119B18:359
- Site 738, 119A7:261; 119B18:364
- Site 744, 119B18:367; 49:898–899
- Site 748, 120A7:210–212, 228; 120B(1)9:119; (2)44:843
- Site 749, 120A8:263
- Site 750, 120A9:313–315
- Site 751, 120B(2)61:1073
- Site 758, 121A12:422–423; 121B16:307
- Site 765, 123A4:80, 102–103, 158–159; 123B11:218
- Site 778, 125A6:105
- Site 779, 125A7:127
- Site 781, 125A9:187
- Site 782, 125A10:208, 212
- Site 783, 125A11:258–259
- Site 784, 125A12:281
- Site 785, 125A13:310
- Site 788, 126A6:123
- Site 790, 126A7:195
- Site 791, 126A7:200
- Site 792, 126A8:219

- Site 793, 126A9:332
 Site 802, 129A4:190
 Site 802A, 129B34:651
 site correlations, 119B6:113
 slump deposits, 108A9:629
 sodium carbonate and potassium hydroxide treatment vs. normative analysis, 199A6:21
 sources, 117B20:343
 spectral analysis, 154B36:522, 524, 526
 stability, 168B8:95–103
 stable isotopes, 149B46:708–709
 standard sediment sample, 121B41:892
 statistical data, 121B16:315
 stratigraphy, 121B16:307; 123A4:152
 strontium release during saturation, 119B19:391
 Sulu Sea, 124A11:235–239; 12:315
 temperature and solubility, 119B18:359
 terrigenous component, 117B12:242; 20:346; 23:416
 time series analysis, 117B20:351–352
 turbidites, 123B25:493; 126A5:92; 135B10:155–158
 Tyrrhenian Sea, 107A7:316
 uranium/thorium ratio, 105B43:814
 values, 108A11:791; 156B5:95
 volcanic ash layers, 121A13:473
 volcanoclastics, 157A7:354–355
 vs. age, 145B20:295–300; 199B2:27; 21:23, 28
 vs. calcite, 131A6:108
 vs. color cycle, 114A11:676–677, 681
 vs. composite depth and age, 138A(1)11:303
 vs. density, 117B12:242, 246
 vs. depth, 113A5:103–104; 6:207–208; 131A6:98; 131B18:228; 133A(1)10:386; 138A(1)9:163; 11:302; 141A7:165; 148B35:443; 149B30:521; 150X_B3:35–36, 40; 155A6:111; 7:148; 8:191; 9:218; 10:260; 11:295; 12:352; 13:401; 14:425; 15:455; 16:480; 17:527; 18:557; 19:584; 20:613; 21:650; 22:676; 155B10:202–213; 165A5:257; 172A4:132; 5:205, 208, 215; 6:284; 178A4:78; 6:48; 183A5:138–139; 199A11:66; 12:71; 13:55; 14:40; 15:31; 199B22:18; 23:8; 201A6:46; 205A4:149; 5:88
 vs. distance above base of Paleocene/Eocene Thermal Maximum, 198B8:21–24
 vs. magnesium, 119A9:362
 vs. magnesium oxide, 123A4:159
 vs. manganese oxide, 157B31:556
 vs. nickel and chromium, 149B30:524
 vs. opal, 175A10:282
 vs. organic carbon, 117A10:287; 117B12:242–243
 vs. quartz, 175A9:243; 10:282
 vs. reactive phosphorus, 154B32:481
 vs. reflectance, 175A3:66, 563; 4:92; 5:122; 6:159; 7:182; 9:245
 vs. silica, 123A4:158
 vs. strontium, 123A4:158
 vs. titanium/aluminum ratio, 205B3:8
 vs. total organic carbon, 117B31:525
 vs. volcanic ash content, 121B27:521
 water temperature, 120B(2)29:528
 well-logging, 120B(2)58:1058; 123B35:646–649, 656; 125B39:669; 126B43:652–663, 668–669; 138B2:28–29
 Yaquina Basin, 112A15:444, 468
See also calcite; calcium oxide/calcium carbonate ratio; carbonate content; carbonates; ooze
 calcium carbonate, biogenic, 138B18:416
 calcium carbonate, laboratory-measured
 vs. depth, 138B2:27
 vs. processed log calcium carbonate, 138B2:28
 vs. raw calcium yield, 138B2:27
 calcium carbonate, rain-preserved, 199B21:26
 calcium carbonate compensation depth. *See* carbonate compensation depth
 calcium/chloride ratio
 alteration, 209A3:36
 diagenesis, 166A9:255
 hydrothermal fluids, 139B20:406
 interlayer cation composition, 156B10:140
 Lima Basin S, 112B25:427
 pelagic/hemipelagic sediments, 126B32:499
 Pisco Basin W, 112B25:427
 pore water, 146B(1)30:432–435; 182A4:32; 207A6:32
 Salaverry Basin, 112B25:427
 Site 688, 112B25:436
 Trujillo Basin, 112B25:427
 vs. depth, 139A7:482; 146A(1)5:190; 7:347; 146B(1)10:179, 184; 25:382; 161B33:430–431; 164A8:273; 166A3:35; 189A3:95; 207A6:68; 8:60
 vs. lithium/chloride ratio, 207A6:71
 vs. depth, 160A8:256; 9:314; 10:367; 160B44:572
 calcium/cobalt ratio, carbonates, 168B11:141
 calcium/copper ratio, carbonates, 168B11:141
 calcium/iron ratio
 calcite, 130B33:561–572
 carbonates, 168B11:141
 limestone, 144A6:232
 sediments, 166B13:138–140
 veins, 206B10:3–6
 vs. depth, 144A6:234; 8:303
 vs. strontium/calcium ratio, 206B10:5
 calcium logs
 basalts, 144A9:320
 lithology, 185A4:46
 Site 794, 127/128B(2)89:1420–1421
 Site 796, 127/128B(2)89:1423
 Site 797, 127/128B(2)89:1426–1427
 Site 798, 127/128B(2)65:1024
 Site 799, 127/128B(2)88:1408–1409; 128A5:364
 vs. depth, 134B33:581; 144A3:95; 5:197; 6:247; 10:390–391; 155A7:160, 364; 165B11:196–197; 166A6:103–104; 185A4:140–141
See also calcium yield logs
 calcium/magnesium ratio
 alteration, 115B34:642; 121B22:449
 amphibole precipitation, 118B26:506
 anhydrite, 158B10:121–124; 11:133–135
 basement, 115B34:643; 126B27:409, 423; 130A12:549–551
 biostratigraphy, 198B12:8; 202B1:4, 13–19; 12:50–51

- calcite, 130B33:561–572; 154B34:491–499;
 175A20:551
 carbonates, 115B36:671; 130B15:272–273;
 146B(1)6:125
 Chagos Bank, 115B34:642–643
 deepwater circulation, 198B1:7–8
 diagenesis, 150B17:316–317; 160A10:366; 166A9:255;
 166B17:191; 174A_A4:123; 180A9:41–43;
 180B6:19
 dolomite, 174A_A3:74
 Eocene, 199B1:17
 Eocene/Oligocene boundary, 199B1:12
 foraminifers, 198B12:1–19
 hypersaline pore water, 112A16:563
 Indus Fan, 117A8:179
 Japan Sea, 127/128B(2)79:1265
 Kerguelen sediment ridge, 119B18:371, 373
 Lima Basin, 112A19:827; 112B25:427–429, 432–433
 limestone, 144A6:232
 Madingly Rise, 115B34:642–643
 Maldives Ridge, 115B34:642–643
 manganese deposits, 126B7:117
 Mascarene Plateau, 115B34:642–643
 Nazareth Bank, 115B34:642–643
 Neogene, 202B1:4, 19–24, 56
 Ninetyeast Ridge, 121B22:452
 Oligocene, 199B1:11
 Oman margin N, 117A11:347; 12:403
 ostracodes, 133B13:175–180
 oxide-free gabbros, 118B26:475–476
 oxygen isotopes, 121B22:448
 Paleocene/Eocene Thermal Maximum, 198B1:45
 paleoclimatology, 202B12:8–10
 paleotemperature equations, 202B12:48
 Pisco Basin W, 112A7:105; 112B25:427–429
 Pliocene, 202B1:5; 13:1–27
 Pliocene–Pleistocene interval, 202B11:1–19
 pore water, 112B25:436; 115B34:630; 117B30:507–
 510; 124B14:215; 127/128B(2)79:1263, 1269;
 150A10:333; 162A7:246–247; 8:275; 177A1:13;
 4:17; 5:20–21; 8:16; 180A5:32; 6:56–57;
 181A3:23–24; 202A4:15; 5:14; 6:15; 7:18; 9:19;
 10:18; 11:15; 12:16; 13:14; 205A4:46–47;
 206A3:39
 recrystallization, 166A11:365
 Salaverry Basin, 112A11:267, 16:565; 112B25:427
 sediments, 135B43:706; 157A1:8–9; 166B13:138–140;
 167A(1)4:75; 190A9:18
 signature of reaction with basaltic basement,
 141A6:143
 Site 682, 112B25:437
 Site 685, 112A17:628, 631; 112B25:437
 Site 688, 112A20:912–913; 112B25:437
 Site 698, 114A5:111
 Site 699, 114A6:176
 Site 700, 114A7:276–278, 304
 Site 701, 114A8:389, 391
 Site 702, 114A9:499, 501
 Site 703, 114A10:567, 569
 Site 704, 114A11:648, 651
 Site 708, 115B34:642–643
 Site 711, 115B34:642–643
 Site 716, 115B34:630
 Site 791, 126A7:188
 Site 792, 126A8:269
 Site 799, 127/128B(1)34:611; 128A5:329
 Southern Ocean, 114B39:721
 spectral analysis, 202B13:24–25
 Trujillo Basin, 112A16:536, 553, 565; 112B25:427–
 429
 veins, 206B10:2–6
 volcanic ash, 117A19:617
 vs. age, 154B34:495; 202B12:39, 41; 13:21–23
 vs. depth, 133A(1)8:267; 134B8:127; 136A4:56;
 136B6:78–79, 82–83; 144A3:73; 5:182; 6:234;
 8:303; 144B43:739–742; 146A(1)5:189; 6:270;
 7:347; 146B(1)7:139–140; 150B17:324;
 154B34:495; 156A6:148; 7:239; 157A1:9; 4:79;
 5:125; 6:157; 7:365; 8:420; 9:460; 10:527;
 158B10:125; 11:135; 160A7:192; 9:314;
 161B33:432; 164B30:305; 166A8:191; 9:253;
 11:364; 166B17:193; 168B8:98–102; 170A3:80;
 4:134; 5:178; 6:207; 7:238; 175A12:552; 20:551;
 177A5:53; 180A5:85; 6:164; 9:116; 12:120;
 181A3:55; 182A5:47; 198B12:12; 201B11:9–14;
 202A1:105; 3:36; 4:48; 5:42; 6:47; 7:55; 8:67;
 9:63; 10:58; 11:53; 12:63; 13:51; 202B11:7;
 204B16:14–18; 205A4:146; 5:83; 206A1:68;
 3:150
 vs. fluoride/calcium ratio, 144B57:994
 vs. sodium-potassium series, 134B8:127
 vs. strontium/calcium ratio, 206B10:5
 vs. temperature, 133B13:177
 Yaquina Basin, 112A15:467; 112B25:437
 calcium number
 gabbro, 153B6:108–109; 176A3:21; 176B3:3; 8:7, 11
 vs. clinopyroxene, 176B8:24
 vs. clinopyroxene number, 176B8:24
 vs. depth, 147B1:13, 15; 153B6:112; 10:220, 223, 225;
 176B8:12–13, 27–30; 10:45–52
 vs. gabbro magnetic susceptibility, 176B11:27–28
 vs. magnesium number, 147B1:10; 176A3:21, 120;
 176B3:8; 8:20
 vs. sodium number, 176B3:8
 vs. titanium oxide, 176A3:21, 121
 vs. zirconium and chromium, 147B1:15
 calcium oxide
 Albian–Turonian sedimentology, 210B8:8
 alteration, 168B10:128; 183A7:153; 187B1:7–8;
 193A3:69; 4:47–48; 200A3:31–32
 Atlantis II Fracture Zone, 118B7:150
 basalts, 129B19:378; 134A9:199–200; 152A11:229;
 152B30:363–366; 158B17:217; 163B9:99–112;
 163X_A8:9–11; 165A6:329; 169A3:95;
 183A5:35; 187A3:10; 7:11; 10:5–6; 13:14;
 195A4:22–23
 basement, 121A11:335; 123A4:193, 204; 183A7:132
 boninite, 125B12:229
 breccia clasts, 173A7:196
 bulk-rock and mineral chemistry, 153B10:204–205
 clay minerals, 169B6:6, 23; 176B9:14

- compared to europium anomaly and anorthite content, 147B1:6
 core vs. log measurements, 126B40:597
 dacite lava, 193B2:8
 deep-sea sediments, 185B7:6
 diabases, 153B10:223; 19:364–365; 168A5:123
 diagenesis, 195A4:35–36
 diopside, 176B9:10
 electron microprobe data, 148B14:210; 39:487
 enstatite, 147B6:118
 epidote, 176B9:12
 experimental liquids, 152B30:366
 felsic rocks, 183A7:41
 gabbros, 176B6:18; 8:4–14; 179A4:45–47; 209A3:35; 6:30
 garnets, 183B16:2
 geochemical logs, 118B15:279; 137/140B30:345–346; 154A5:217
 granites, 161A6:216
 harzburgites, 153A3:74
 hydrothermal alteration, 209B1:9
 hydrothermal clays, 158B17:217
 igneous rocks, 123A5:325; 135A(1)4:149–151; 209A5:35, 37–38
 ignited sediments, 138A(2)15:846–847
 lava flows, 197A3:22–24; 5:16–17
 limestone, 143B13:217
 lithofacies, 129B1:18
 lithology, 183A4:19; 7:39; 185B1:11; 207B8:6–7
 melting, 125B38:647; 187B1:14–15
 metabasaltic clasts, 158B17:217
 metadiabase, 180A8:18
 metamorphic clasts, 195B4:7–8
 middle–upper Eocene, 210B8:13
 mineral separates, 158B2:29
 natrolite, 176B9:13
 olivine, 135B27:495
 orthopyroxenes, 176B4:10
 pelagic/hemipelagic sediments, 126B32:499
 peridotites, 153A3:67; 209A6:29; 7:21; 9:18–20
 Pigafetta Basin, 129B3:143
 pillow basalts, 187A4:7
 profiles across microbially processed glass, 148B13:200
 provenance, 200A3:34
 sediments, 139A7:329; 151A7:181, 184; 8:241, 243; 9:287; 10:333–334; 11:368; 155A9:218; 167B25:284–288; 170A4:140–141; 172B5:4–5, 22; 180B6:5–24; 184B19:6; 205A5:17
 serpentinites, 125B18:334; 149B30:520–521; 173A7:196; 9:284; 195B4:6–7
 sills, 139B6:95; 210A3:68
 Site 698, 114A5:109
 stratigraphy, 163X_A8:12, 34
 sulfides, 158B3:43; 193B10:3–7
 tektites, 150B13:248–250, 253–258
 tephra, 186B9:9, 16–17
 thomsonite, 176B9:13
 titanium hydrogarnet, 206B9:2–6
 troctolites, 209A10:23
 veins, 176B9:15
 volcanics, 121A13:473; 141B27:342; 161B27:364–369; 163B7:67–74; 200B2:13–14; 201B19:10–11; 203B2:4–8
 volcanism, 163X_A8:15
 vs. age, 184B19:19; 185B7:20
 vs. alteration, 137/140B6:70; 148B4:49
 vs. aluminum oxide, 125A9:186; 153A3:75; 154B35:503–504; 157B12:165; 15:236–239; 173A7:199; 9:286; 180B6:8–9, 12, 18, 33, 35, 41; 195A1:44; 3:20, 103; 209A5:149; 9:86
 vs. calcite, 135B43:698; 172B5:15
 vs. carbon dioxide, 139B11:224; 153A3:77; 209A1:124; 5:150; 7:94; 10:115
 vs. carbonate carbon, 184B12:16
 vs. cerium oxide, 157B18:320
 vs. chromium, 180B6:33
 vs. chromium/nickel ratio, 153A3:78
 vs. chromium oxide, 153B14:288
 vs. clinopyroxene/orthopyroxene ratio, 153A3:77
 vs. depth, 134B18:368; 137/140B6:68; 138A(2)13:713; 15:857; 139A5:139; 6:223–227; 8:515–518; 139B11:228–250; 12:301; 17:359–367; 23:445; 140A2:88; 144B39:660; 148A2:60, 62; 3:157; 148B4:48; 10:136; 34:422; 39:484; 149B23:422–423; 27:482; 151A5:86; 6:131; 151B19:358; 152B2:24; 34:423; 153A3:75–76; 153B10:212; 167B25:285; 169A3:97; 170A4:140; 176B6:42; 180B6:34; 183A8:65; 9:92; 185B1:26; 193A3:223; 4:191, 193; 195A4:110; 197A1:40; 3:106; 200B1:26; 2:13; 205A4:83, 114; 5:60; 206A1:82; 3:152, 195; 210B8:45
 vs. europium/europium ratio, 193B2:24
 vs. iron oxide, 121B14:277, 285; 180B6:8–9; 203B2:21
 vs. isothermal remanent magnetization, 185B7:14
 vs. lanthanum oxide, 157B18:320
 vs. loss on ignition, 123A4:199; 136B11:140; 148B10:139; 169A3:98; 197A4:69
 vs. magnesium/(magnesium + iron) ratio, 195A1:44; 3:20, 103
 vs. magnesium number, 139B6:87; 141B28:359; 142A4:71; 144B28:481, 484; 148A2:59; 3:151; 153A5:194; 6:239; 153B17:349; 163X_A8:29; 168A4:71; 5:125, 139; 176B10:41; 183A8:64
 vs. magnesium oxide, 134B21:409; 135B24:404; 25:442–444; 26:479; 136B9:111; 137/140B4:45; 142B6:45, 47; 145B23:370; 148B2:19; 3:31, 34–35; 13:197–199; 149B29:502; 151A5:86; 151B17:317–322; 18:344; 152A11:229; 152B5:61; 8:100; 153B17:348–349; 19:366, 371; 157B16:282–283; 22:384; 162B16:228; 163B9:102, 106; 180B6:8–9, 33; 183A9:94; 187A3:24; 4:17; 5:17; 6:36; 7:33; 8:51; 9:21; 10:24; 11:35; 12:41; 13:41; 14:28; 15:42; 187B1:35; 197A1:73; 3:96; 5:68; 6:70; 200B1:43; 2:10; 203A3:16–17, 24; 206A1:88; 3:199; 209A7:97
 vs. major oxides, 157B12:150; 15:240–245
 vs. potassium oxide, 144B39:659, 661
 vs. pyroxenes, 153A3:77
 vs. scandium, 176B8:23

- vs. silica, 134B18:370; 19:384; 135B4:59, 64; 6:97; 151A5:81; 151B17:324–326; 18:343; 19:357; 152B2:23; 5:62; 8:102; 156B28:350; 157A7:362; 157B13:192; 18:325; 162B16:228; 165A3:84; 193B2:21; 195B4:26; 198B17:19; 201B19:27, 29; 210A3:251
- vs. silica/magnesium oxide ratio, 195B4:21, 28
- vs. strontium, 129B4:131; 180B6:14, 38
- vs. strontium isotopes, 148B10:144
- vs. subbasement depth, 148A3:159
- vs. titanium oxide, 142A4:69; 148B10:138; 152B8:103; 154B35:503–504; 176B4:35; 195B4:24; 203B2:18–19, 23
- vs. volcanic ash, 185B7:14
- vs. water content, 140A2:90; 158B19:264
- vs. zirconium, 123A4:195; 157B12:168, 171
- well-logging, 126B43:657
- See also* iron oxide/calcium oxide ratio; magnesium oxide/calcium oxide ratio; potassium oxide/calcium oxide ratio; titanium oxide/calcium oxide ratio
- calcium oxide-aluminum oxide-potassium oxide diagram, volcanoclastics, 200A1:64; 3:106
- calcium oxide/aluminum oxide ratio
 - Atlantis Bank, 118B1:13–14
 - basalts, 121A11:331; 152B30:365; 187A3:10; 6:11; 8:11; 9:8–10; 11:12–13; 12:11; 14:7–8
 - crystallization, 153B10:208–213
 - gabbros, 176B8:7, 11, 14; 205A4:34–35
 - low-pressure melt segregation, 121B30:569, 577
 - Ninetyeast Ridge, 121B14:285
 - olivines, 187B2:5
 - pillow basalts, 187A5:7
 - sediments, 131B28:350–355, 359, 361
 - Site 786, 125B9:151
 - tephra layers, 121B14:27
 - volcanic rocks, 161B27:364–369
 - vs. augite/plagioclase ratio, 176A3:21, 119
 - vs. depth, 131B35:441; 156B1:25
 - vs. iron oxide/magnesium oxide ratio, 135B38:643
 - vs. latitude, 158B17:220
 - vs. magnesium number, 139A5:148; 6:264; 7:377; 8:529; 176B8:20; 205A4:116
 - vs. magnesium oxide, 121A9:239; 121B32:639; 135B25:445; 140A2:92; 152B30:367; 158B17:224; 187A3:24; 4:17; 5:17; 6:36; 7:33; 8:51; 9:21; 10:24; 11:35; 12:41; 13:41; 14:28; 15:42; 187B1:35; 2:20
 - vs. nickel, 205A4:117
 - vs. plagioclase, 153A4:147
 - vs. scandium, 176B8:23
 - vs. strontium, 153A4:147
 - vs. titanium, 125B38:641
- calcium oxide/calcium carbonate ratio, vs. depth, 139A7:359
- calcium oxide/(calcium oxide + sodium oxide) ratio, vs. magnesium number, 153B10:218
- calcium oxide/FMM ratio, vs. aluminum oxide/FMM ratio, 153B10:216
- calcium oxide-magnesium oxide-aluminum oxide-silica diagram
 - phase equilibria, 147B14:284
 - projections, 135B27:489, 494–498
- calcium oxide-quartz-clay minerals diagram, 184B12:17
- calcium oxide/silica ratio
 - Site 786, 125B9:149–150
 - volcanic ash, 125B15:288
- calcium oxide/sodium oxide ratio
 - sediments, 155B8:172
 - thomsonite, 176B9:13
 - vs. anorthite content, 148B3:26
 - vs. depth, 148B3:22
 - vs. magnesium oxide, 148B3:30, 34–35
 - vs. titanium oxide, 140A2:87
- calcium oxide-sodium oxide system
 - vs. aluminum oxide, 155B8:171
 - vs. potassium oxide, 155B8:171
- calcium/potassium ratio
 - basalts, 121B26:515
 - spectra and age release, 178B22:5–6, 18
 - vs. argon isotopes, 152B8:109
 - vs. chlorine/potassium ratio, 178B22:21
- calcium/silica ratio, well-logging, 114B28:518
- calcium silicate carbonate sulfate hydroxide, 129B4:119
- calcium silicates. *See* wollastonite
- calcium-sodium-potassium system, vs. aluminum, 158B18:242
- calcium/sodium ratio
 - plagioclase, 153B9:158–160; 163B9:103
 - pore water, 150X_B25:348
- calcium/strontium ratio
 - anhydrite, 158B9:121–124; 11:133–139
 - aragonite correlation, 125B18:332–333
 - biostratigraphy, 144B57:994; 202B11:1–19
 - calcite, 130B33:561–572; 154B34:491–499
 - carbonates, 115B36:666; 130B15:272; 160B35:448; 168B11:141; 177B(synthesis):17
 - diagenesis, 166A8:191–192; 9:255
 - gypsum, 160A8:263
 - hydrothermal fluids, 139B20:406
 - hydrothermal flux, 115B36:667, 671–672
 - limestone, 144A6:232
 - Maud Rise, 113B46:817; 47:833
 - mechanism for changing, 115B36:667
 - Paleocene/Eocene Thermal Maximum, 198B1:45
 - partition coefficients, 158B11:136–137
 - pore water, 171B_A4:144; 5:208–209; 7:334; 174A_A5:171; 198A3:36; 4:28; 5:28; 6:26; 7:24; 8:22; 206A3:40
 - recrystallization, 166A11:365
 - sea-surface temperature, 115B36:666
 - sediments, 125B18:336; 129B4:131; 135B43:706; 166B13:138–140; 171B_B4:4; 182A4:31; 189A5:47–48; 206A1:26; 3:150
 - Site 709, 115B36:670
 - Site 744, 119B40:733
 - Site 778, 125B18:340
 - Southern Ocean, 114B39:721
 - tuffs, 129B4:128
 - veins, 206B10:2–6
 - volcanoclastics, 134B9:164
 - vs. age, 154B34:494, 497–498

- vs. depth, 144A6:234; 8:303; 144B43:739–742;
154B34:494; 157A7:365; 8:420; 158B10:125;
11:135; 161B33:432; 164B30:305; 166A8:191;
9:253; 11:364; 168B8:98–102; 171B_A4:147;
5:217; 6:263–280, 296; 7:341; 171B_B4:13;
174A_A5:173, 175; 181A3:55; 182A4:67;
189A6:52, 106; 7:44, 83; 198A3:96; 4:67; 5:66;
6:59; 7:55; 8:53; 202B11:7; 206A1:68
- vs. iron/calcium ratio, 206B10:5
- vs. magnesium, 139B14:325
- vs. magnesium/calcium ratio, 206B10:5
- vs. manganese/calcium ratio, 135B43:701; 206B10:5
- vs. oxygen isotopes, 117B23:415
- vs. strontium-87/strontium-86, 158B11:136
- calcium sulfate, Sardinian margin, 107B15:237
- calcium yield logs
 - inflection, 134B10:231, 233
 - Site 852, 138A(2)17:1000–1001
 - vs. depth, 138A(1)10:250; 316, 320; 12:377;
138A(2)14:794; 15:872, 875; 16:950, 952;
141A10:420; 154A5:215
 - See also* calcium logs
- calcium/zinc ratio, carbonates, 168B11:141
- calcium/zirconium ratio, basement, 126B27:416
- calcrete
 - lithology, 194A7:15
 - photograph, 194A7:33
 - Site 740, 119B3:50
 - wackestone, 143A7:195
- calcretization
 - limestone, 143A7:206; 143B29:452
 - mudstone, 143A7:195
- caldera collapse, volcanism, 181B1:24–25
- calderas, axial summit
 - basalts, 142B2:9–10
 - tectonics, 142A2:31, 34
- calderas, submarine
 - Izu-Bonin arc, 126B1:3, 10
 - magma composition, 126B26:387
- calibration
 - color reflectance, 138B18:416–420
 - inductively coupled plasma–atomic emission spectroscopy, 199A7:4–5
 - light absorption spectroscopy, 199A5:7–9
 - sapropels, 161B13:172–175
- caliche
 - lithology, 144B14:283; 180A6:29
 - photograph, 160A6:132
- californium-252 neutron source, geochemical logs,
136B13:153–155
- caliper logs
 - basalts, 144A9:319–321
 - Blackman-Tukey spectrum, 199A12:87–88
 - boreholes, 134A9:239; 135B18:296–298; 20:317;
147B18:332–334
 - comparison with logs, 134B34:599; 151A9:304
 - compressive stress, 134B34:604
 - correlation, 147B18:338–339
 - diameter vs. depth, 135A(1)11:670
 - distance vs. depth, 138A(2)16:947
 - dolomite, 128A5:332–333
 - electrofacies, 176A3:247–251
 - Formation MicroScanner imagery, 180A8:108
 - gouge, 161B25:334
 - histograms, 147B18:336
 - lithology, 127A6:306; 173A3:51–61; 191A1:17
 - logging-while-drilling, 204A3:90–93
 - Ontong Java Plateau, 130A8:333
 - Pacific Ocean E, 138B4:54
 - seismic stratigraphic tool string, 133A(1)14:604
 - shear wave velocity, 176B5:41
 - Site 794, 127A4:142, 147
 - Site 796, 127A6:303–306
 - Site 797, 127A7:395–396, 403
 - Site 820, 133A(1)13:551
 - Site 835, 135A(1)5:231
 - Site 838, 135A(1)8:380–382
 - Site 839, 135A(1)9:464, 468–469
 - Site 840, 135A(1)10:551
 - Site 841, 135A(1)11:657
 - Site 847, 138A(1)12:379
 - Site 907, 151A5:104
 - Site 950, 157A5:54, 90, 96–100
 - structure, 102A3:96–97, 109–113
 - summary, 208A6:72; 209A7:127
 - vs. depth, 133A(1)14:59; 135A(1)4:166; 136A5:88–91;
137/140B28:316; 138A(2)14:795; 15:873–874;
141A6:135; 143A7:243; 144A3:91–92; 5:196;
6:246; 10:384–387; 144B39:656–666;
145A6:280–281; 8:382; 146A(1)4:105–107;
5:206; 6:279; 7:364; 147A3:104, 107;
150A6:111; 7:183–184; 8:240; 9:295; 10:337;
151A6:148; 7:206; 8:259; 9:303; 152A9:128;
154A4:129, 132–133; 5:211; 6:263, 266–267;
7:325, 327; 8:398, 400; 155A7:159; 9:226–228;
11:305, 307; 12:363, 368; 16:490, 492; 20:622,
624; 22:683–684; 156A6:163; 157A6:177–178;
7:378–379; 9:473–474; 10:541; 159A5:118, 121;
6:202–203, 206; 8:290; 159B21:211, 214–216;
23:245; 160A6:144–151; 7:200–213; 8:264–266,
274–281; 9:323–324; 11:404–408; 12:446;
160B42:539–540; 161A4:101–108; 5:162–165,
170–173; 6:267–270, 273–275; 7:335–341, 344,
348–350; 9:415–418, 421–423; 161B24:322,
328; 162A4:125; 6:204; 9:326; 10:377;
164A6:138; 7:209; 9:307; 164B19:182;
165A3:92; 4:192; 5:272; 6:338; 165B13:223;
166A6:101–103; 8:197, 199; 9:259, 261; 10:322–
323; 167A(1)5:117; 8:209; 10:271; 12:343–344;
13:377–378; 14:419–421; 16:484; 168A6:203–
205; 169A3:132, 230; 170A4:144; 171B_A4:164–
165; 5:233–234; 6:313, 315; 172A5:243–244;
6:300–301; 173A4:95; 7:213; 8:260;
174A_A3:89, 92; 4:137–140; 5:186; 175A9:271;
10:311; 12:383; 13:427; 16:494; 176A3:232–236;
176B5:26; 177A8:63–64; 178A4:88; 9:66;
178B17:15; 32:19; 179A4:155; 180A5:101–102;
6:182–185; 8:99–100; 9:131–134, 144; 12:132–
136; 181A3:65; 7:105; 8:82; 9:53; 182A4:75–76;
5:54–55; 6:79; 7:61, 63–64; 8:61–62, 65; 9:51,
53; 10:63–64; 12:51, 53; 183A5:159–160, 162,
167; 184A4:73–74; 5:68–69; 7:67; 9:80;

- 185A1:48, 54; 4:138–141; 185B8:12; 186A4:94;
5:84; 189A3:109, 112; 5:105; 6:118; 7:96;
190A4:81; 190/196B16:9; 191A4:115, 117;
192A1:65–66; 6:39–40, 88, 90; 193A3:256;
4:217, 226; 5:76, 80–82; 6:64; 7:105, 107; 9:53;
194A7:111; 195A4:155; 196A3:52–53, 63; 4:42;
197A1:41; 3:131–132, 138; 198A3:112; 9:87–88;
199A11:78, 82–83; 12:84; 200A1:57; 4:146, 153;
200B1:30–31; 202A9:67; 10:62; 12:66;
203A1:27, 29; 3:69, 73; 204A4:88, 90–91; 5:50;
6:60, 62–63; 7:57; 8:71; 9:67–69; 10:81, 83–84;
11:48–49, 51; 205A4:160, 164–167; 206A3:161,
322–330; 207A4:67, 69–72; 5:77, 79–81; 7:70–
77; 8:67–73; 208A6:73; 209A7:112–113; 10:147
vs. hole elongation, 152A9:149; 152B37:445
See also density-caliper-gamma ray logs; differential
caliper logs; Hostile Environment Litho-Density
Sonde caliper logs; sonic caliper logs
- Callovian
 biostratigraphy, 129B10:206
 lithology, 129B14:268; 185A3:7
 rifting, 149B1:10–11; 210B1:6–7
 Site 801, 129B32:608
- Callovian, lower, palynology, 173A4:103–104
- Callovian/Oxfordian boundary, Pigafetta Basin,
 129A3:107
- Callovian–Valanginian interval, Pigafetta Basin,
 129B3:90
- calpionellids
 Galicia margin W, 103A6:101; 103B4:51
 Site 639, 103A10:429; 103B6:59; 11:183–184, 191–
 192
- Calthrops*, Site 795, 127/128B(1)30:543
- calving, pebbles, 178B11:4
- Cam clay ideal model, Bonin-Mariana region,
 125B20:369
- camera multishot tool, core orientation, 135B19:301–
 302
- Campanian
 abyssal assemblages, 129B13:252
 age vs. depth, 198A6:54; 8:46
 basal sediments, 183A5:12–13
 basement, 160B54:734, 776
 benthic foraminifers, 174AXS_A5:45; 6:52, 100;
 198A3:24; 4:21
 biogeography, 198B6:9–11
 biomagnetostratigraphy, 171B_A4:134
 biostratigraphy, 129B8:180; 12:229, 231; 13:248;
 159B25:279; 160B31:400–401; 173B5:7, 10;
 174AXS_A1:33–35; 4:28–29; 183A4:9–10;
 197A4:10–11; 198A1:57; 210A3:81, 84, 87;
 210B13:10–12
 brown chert-porcellanite, 129B23:437
 calcareous nannofossils, 144B7:141–156;
 174AXS_A1:41–42; 5:47; 6:55–56; 197A1:10–12;
 197B3:1–10; 4:4; 198A3:20; 4:18; 198B6:6;
 207A5:13; 6:15; 8:13
 carbonate compensation depth, 160B38:499;
 192A3:16
 carbonate platforms, 144B47:831, 833–834
 correlation, 171B_B9:14
 deepwater circulation, 198B1:6–8
 dinocysts, 189B5:30
 drift, 189A1:7
 erosional surfaces, 171B_A1:6
 foraminifers, 159B31:391–392; 174AXS_A1:33–35;
 183A3:13; 183B1:21–22; 207A4:15; 6:20; 7:16;
 8:17–18
 geologic history, 207A1:4
 guyot submergence, 144A5:176
 lithology, 129B12:234–235; 14:268, 269; 144A5:158;
 6:220; 7:267; 8:294–295; 145A5:132;
 165A6:304–308; 173A8:225–234;
 174AX_A1:30–31; 174AXS_A1:24–25, 55; 4:12–
 15; 5:33–37; 183A1:20; 3:5–6; 5:5–7; 185A3:6;
 192A3:9–10; 197A4:7–9; 198A4:12–13; 6:10;
 207A4:7–8; 5:7–8; 6:7–8
 magnetostratigraphy, 171B_B8:8; 9:7; 197A4:25;
 207A7:21; 8:21, 52–53; 207B3:8
 paleoenvironment, 144B14:271–294; 192A3:24–25;
 210B13:21–22
 paleolatitude, 171B_A1:9
 paleomagnetism, 129B23:436; 183A3:14; 6:54
 paleosols, 144B19:386
 palynomorphs, 188B2:3–4
 pelagic sedimentation, 165A8:378; 165B20:308
 photograph, 192A6:50; 198A3:69
 photomicrograph, 198A3:73
 planktonic foraminifers, 173B9:1–13; 174AX_A1:37;
 174AXS_A5:44; 6:50, 94–95; 198A4:19–20
 postrift sedimentation, 210B1:29–31
 quartz-feldspar-lithic fragments system, 210B2:26
 radiolarians, 207A4:16; 5:18; 6:21; 7:18; 8:19
 rifting, 149B1:11
 seafloor spreading, 189A1:9
 sedimentation, 192A6:10; 198A8:19
 sediments, 171B_A4:107
 seismic stratigraphy, 183A3:20; 6:61
 Site 61, 129B31:555
 Site 800, 129A2:33
 Sites 1276 and 398 comparison, 210A1:27
 stratigraphy, 160B32:412; 174AXS_A5:61; 197A1:13;
 198A8:5
 strontium isotopes, 174AXS_A5:51
 subsidence, 159B11:106
 tectonic models, 160B54:769
 tephra grain size and thickness, 165B5:112
 thin-skin tectonics, 149B1:13–15
 transform faults, 159A1:12
 transgression, 144B51:902, 905, 907–910
 unconformities, 173B7:14
 volcanic ash, 165A6:322–325
 volcanism, 144B45:771
 See also Cenomanian/Campanian boundary; Cenom-
 anian–Campanian interval; Coniacian–Campa-
 nian interval; Lower Campanian Event (LCE);
 Santonian/Campanian boundary; Santonian–
 Campanian interval; Valanginian–Campanian
 interval
- Campanian, lower
 biostratigraphy, 174AXS_A1:35, 43; 192A3:22; 6:13;
 207A4:12

- lithology, 174AXS_A1:25, 30–32, 56; 6:35–38;
207A7:7, 9; 210A3:30–36, 60–61
- paleoceanography, 207B1:5–6
- sedimentology, 210B8:10
- See also* lower Campanian event (LCE)
- Campanian, lower–middle, lithology, 174AXS_A6:34–38
- Campanian, middle
- biostratigraphy, 174AXS_A1:42–43; 192A3:23
- lithology, 183A4:4; 6:5–6
- seismic stratigraphy, 183A4:29–30
- Campanian, middle–lower Paleogene interval, nannofossils, 210B13:45
- Campanian, middle/lower Santonian–Coniacian, sedimentation, 198A8:19
- Campanian, middle–upper, lithology, 174AXS_A6:30–34
- Campanian, upper
- biostratigraphy, 129B8:184; 12:230–231;
 174AXS_A1:33–34, 37; 183A6:14; 198A5:20;
 210A3:78
- lithology, 129B14:268; 171B_A3:54; 4:101–112, 116;
 174AXS_A1:22–24, 28–30; 6:28–34; 183A1:34;
 192A6:6–8; 198A3:13; 207A7:8–9; 8:7–8
- paleoenvironment, 183B2:1–28; 192A6:14
- photograph, 171B_A3:57–58; 4:112
- photomicrograph, 192A6:49
- remanent magnetization, 210A1:19
- stable isotopes, 192B3:4; 207B7:1–9
- transgressions, 144B45:783
- Campanian, upper–lower Miocene interval, unconformities, 198A1:25–27, 104
- Campanian, upper–middle Miocene interval, 198A1:19–20
- Campanian–Eocene interval, magnetostratigraphy, 207B3:1–48
- Campanian–Holocene interval, ooze and chalk, 208A1:1–112
- Campanian/Maastrichtian boundary
- biostratigraphy, 144B8:166; 192A3:23; 6:13–14;
 197A4:10–11
- cooling, 174AXS_A(summary):2
- correlation, 171B_B9:14
- isotope stratigraphy, 143B7:107–108; 144B25:451–452
- magnetostratigraphy, 192A6:21
- paleobiogeography, 144B50:888–889
- sea level changes, 174AXS_A(summary):11
- unconformities, 192A6:12
- Campanian–Maastrichtian interval
- biostratigraphy, 207A4:16; 7:14
- lithology, 129A3:99
- magnetostratigraphy, 192A6:21; 207A5:21; 6:25;
 207B3:9, 11–14
- paleoclimatology, 192B2:1–15
- paleomagnetism, 207A1:75; 207B3:31–35
- plate tectonics, 160B54:771
- sedimentation rates, 207A8:90
- stratigraphy, 174AX_A1:42
- strontium isotopes, 192B3:5, 7
- well-logging, 192A6:27
- Campanian–middle Eocene interval, magnetostratigraphy, 207A7:52–53
- Campanian–middle to late Eocene interval, unconformities, 188B3:8, 10
- Campanian/Miocene boundary, calcareous nannofossils, 198A3:19
- Campanian–Miocene interval, unconformities, 198A3:57
- Campanian–Paleocene interval
- lithology, 198A4:15
- sedimentation, 192A6:11
- Campanian–Paleogene interval, recrystallization, 198A1:61
- campesterol, sapropels, 160B21:266–267
- Cannobotryiidae, Site 647, 105B21:361, 376
- canopy vegetation, pollen, 133B9:109
- canthaxanthin, sapropels, 160B24:298–302
- Cantor dust method, bed thickness, 126B4:88
- canyon-fan system, basin analysis, 118B25:432
- canyons, submarine
- Cape Range Fracture Zone uplift, 123B31:579
- Cretaceous incision, 123B1:20
- erosion, 126B39:576, 640
- Izu-Bonin forearc basin, 125A1:6
- sediments, 123B5:128; 31:578; 126B39:582
- seismic profiles, 123B31:571
- capillary pressure, compressibility, 161B10:125–127
- capillary suction test
- data, 131A6:217, 255
- schematic diagram, 131A6:255
- capture cross section logs, vs. depth, 157A4:90;
208A4:62; 6:76
- carbohydrates
- Cornaglia Terrace, 107B36:598–601
- dissolved phases, 112B38:559–560
- Lima Basin C, 112B9:141–142, 153
- monomers, 112B36:560, 562
- Oman margin N, 117B32:540
- particulate phases, 112B36:558–559
- organic carbon weight, 112B9:137
- Pisco Basin W, 112B9:141–142, 153
- pore water, 117B32:541
- sediments, 117B32:536–537
- Site 680, 112B9:141–142, 145, 150, 153
- Site 681, 112B9:141–142, 153
- Site 724, 117B32:540
- Sites 723 and 724 comparison, 117B32:543
- total hydrolyzable carbohydrates (THCHO)/total hydrolyzable amino acids (THAA) ratio, 112B36:564
- Tyrrhenian Sea, 107B36:598–601
- vs. depth, 155B33:536
- vs. pore water, 117B32:534–535, 543
- carbohydrates, dissolved, pore water, 201B10:1–10
- carbohydrates, dissolved hydrolyzable (DHCHO)
- Oman margin N, 117B32:533
- Site 681, 112B36:560, 563–564
- carbohydrates, total dissolved
- organic matter, 201B1:5
- vs. depth, 201B10:6–7
- carbohydrates, total dissolved/dissolved organic carbon ratio
- vs. depth, 201B10:8

- vs. total dissolved inorganic carbon, 201B10:9
- carbon
- anaerobic methane oxidation, 164B9:94
 - bacterial cells, 169B2:6, 8
 - Baffin Bay, 105B13:187–191, 195, 201; 14:210–211; 32:611
 - carbonates, 139B14:322
 - Chagos Bank, 115A10:751, 754
 - cyclicality, 154B22:341–345; 172B3:2; 204A7:10–11; 8:13; 9:11
 - data, 105B13:189; 180A5:118
 - diabase, 129A2:70
 - electron microscopy, 160B27:344
 - fluid mobility tracers, 205B7:11–12
 - Galicia margin W, 103A8:145, 148–149; 9:250–252; 10:430, 433; 12:585, 588
 - gas hydrates, 164A6:143–144; 7:215
 - geochemistry, 130A2:33–34; 5:139; 7:254; 8:326; 9:419–420; 13:804; 135A(1)4:129; 138A(2)13:703–704; 16:921; 139A7:486–487; 143A6:142–145; 156A6:140–143
 - global warming, 208B1:20
 - headspace gas, 135A(1)5:221; 7:318–319; 8:370; 9:433; 11:625–628, 631–632
 - in volcanic rocks, 183B17:2
 - isotopes, 103A10:433; 12:589
 - Labrador Sea, 105B8:102; 13:188, 196–199, 202–203; 14:212–215, 218–220; 34:666–674
 - Lima Basin C, 112A11:179–181
 - Lingayen Gulf, 124E_A13:81
 - lithology, 183A7:211; 8:118
 - marine origin, 105B13:191
 - Mascarene Plateau, 115A5:261
 - mass accumulation rates, 105B13:189, 204
 - maturity, 105B13:189, 191
 - metasedimentary rocks, 152B10:135
 - microbial divergence indexes, 205B8:10
 - Nazareth Bank, 115A4:144, 146, 150, 152
 - Norwegian Sea, 104A4:174–177
 - organic matter, 155B31:505–517; 172A5:214–217; 205A5:36
 - peridotites, 209A6:28
 - pore water, 133A(1)4:105, 112–116; 135A(1)6:267
 - preservation, 119B21:401
 - productivity, 175B(synthesis):74; 206B4:7–8
 - pyrolysis, 155A7:148
 - remineralization, 155B30:503
 - Rock-Eval pyrolysis data, 112A18:724; 194A3:75; 4:115–116; 5:104; 6:14, 91; 8:83; 9:74
 - sedimentation, 105B13:207
 - sediments, 133A(1)4:108; 134A8:159; 9:205; 10:283; 11:347; 12:417; 426–427; 13:510–511; 135A(1)8:367–368; 10:540–541; 139A5:125–128; 6:201–203; 7:326; 139B13:307–312; 146A(1)5:177; 6:263; 7:333; 150A6:94; 7:164–167; 8:231–233; 9:283, 285, 288–289; 10:328–331; 150B18:329–344; 151A5:84–85; 6:132–135; 7:189; 8:242–243; 9:288; 10:336; 11:369; 152A6:67; 7:82–83; 11:230; 12:269; 154A4:93–98; 155A6:103–104, 7:140; 8:189–190; 9:215–217; 10:259–260; 11:293–294; 12:345–346, 351; 13:398, 401; 14:423, 425; 15:448, 455; 16:475, 480; 17:519–520, 527; 18:555–557; 19:582–584; 20:608, 610, 613; 21:649–650; 22:671, 673, 676; 156A7:230–231; 157A4:79–80; 5:126–127; 6:157; 7:358–359; 8:420; 159A5:104–105; 7:242; 8:282; 160A4:69–70, 80–81; 5:113, 116–117; 6:137–138; 7:188–189, 193; 8:250, 256–257; 9:313–316; 10:367–369; 11:395, 398; 12:439–440, 459–461; 13:485–488; 161A4:81, 87–89; 5:142–143, 147–149; 6:232, 252–255; 7:318, 324–327; 8:374, 382–384; 9:403, 406–407; 162A3:73–74; 4:113–114; 5:157; 6:191–192; 7:243–244; 8:274; 9:308; 10:361; 164A5:91; 166A6:90; 169A4:181–182; 173A4:92; 6:150; 7:204; 8:253; 9:290; 174A_A4:127; 5:175; 178A7:106–107; 180A10:17; 190A5:137–140; 6:18, 85; 7:75; 9:101; 191A4:136–137; 194A3:74; 4:112–114; 5:102–103; 6:14–15, 89–90; 7:25, 140–142; 8:81–82; 9:72–73; 207B9:1–23
 - Site 708, 115A6:417, 420; 115B33:623
 - Site 709, 115A7:481, 486
 - Site 710, 115A8:609, 616–617
 - Site 711, 115A9:675, 682, 685
 - Site 714, 115A11:859, 865–866
 - Site 715, 115A12:930
 - Site 716, 115A13:1013, 1015–1016
 - summary, 189A1:40–43
 - temperature, 152B10:138
 - terrigenous vs. marine sources, 105B14:209
 - volcaniclastics, 134B9:155; 157A9:461; 10:523, 525
 - vs. depth, 135A(1)4:130–131; 139A5:133–137; 6:202, 212; 7:341, 349–350; 8:483–485, 491–495; 139B13:309; 150X_B24:335; 183B17:2, 6
 - vs. gases, 175A21:559
 - vs. magnesium oxide, 134B9:161
 - vs. sulfur, 139B13:311
 - vs. total nitrogen, 105B13:205
 - wedge sediments, 205B7:1–38
 - weight percentages, 139A6:209–210; 169A3:122–123; 5:226; 6:288–289
- See also* carbon isotopes; graphite; hydrogen/carbon ratio; Messinian Carbon Shift; nitrogen/carbon ratio; nitrogen/carbon ratio (atomic)
- carbon, calcium carbonate-free organic, vs. depth, 199B22:19
- carbon, carbonate
- Albian–Santonian interval, 207B11:1–13
 - Baffin Bay, 105B12:188
 - cores, 138A(2)14:752–753; 15:843; 17:996–997; 18:1042; 19:1083; 144A3:69; 4:131; 5:180; 6:233; 8:304–305; 10:367; 11:427–428
 - Kerguelen sediment ridge, 119A14:522; 15:548
 - Labrador Sea, 105B13:196–197
 - Lima Basin C, 112A11:180
 - limestone, 144A7:276
 - Oman margin N, 117A12:393–394
 - oxygen isotopes, 207B11:4–5
 - Pisco Basin W, 112A18:728
 - Prydz Bay, 119A10:386; 11:423–424; 12:467
 - Quaternary, 161B36:464

- Salaverry Basin, 112A12:266, 13:318
sediments, 154A4:94–98; 5:186–188; 6:261; 8:370–371
Site 682, 112A14:386
Site 736, 119A5:142
Site 738, 119A7:259–260
Site 744, 119A13:493–494
Site 881, 145A3:54
Site 882, 145A4:98–99
Site 883, 145A5:153
Site 884, 145A6:242
Site 887, 145A8:357
Sites 885/886, 145A7:315
Trujillo Basin, 112A16:546
vs. calcium oxide, 184B12:16
vs. depth, 144A11:432; 167B25:283, 295
Yaquina Basin, 112A15:461
- carbon, combustible
Prydz Bay, 119A6:114–115
Site 744, 119A6:114–115
- carbon, dissolved inorganic
calcification, 182B13:9
carbon isotopes, 164B7:67–77; 204B15:5–6; 20:1–16
histograms, 201A1:64
microbial activity, 201A1:11–13
pore water, 201A1:19–20, 23–24, 27, 37, 40; 6:14; 7:13, 46; 8:14; 9:12; 10:13; 12:12; 201B5:5–8, 28, 30
vs. depth, 195B7:7; 201A1:65; 6:43; 8:35; 9:37; 10:39; 11:49; 12:32; 201B1:41; 3:17; 5:19, 24; 8:8, 10–15
vs. total dissolved carbohydrates/dissolved inorganic carbon ratio, 201B10:9
- carbon, dissolved organic
Cornaglia Terrace, 107B36:593–595
Oman margin, 117A11:348, 351–352; 12:404, 411; 13:432, 436, 438; 14:462; 15:480–481, 487; 16:521, 524, 579–580
Owen Ridge, 117A19:618
pore water, 117A16:480–481; 131B13:166–168; 139B23:441–446; 206A3:38
sediments, 201B9:1–10
Site 723, 117B32:533
Site 724, 117B32:533
sources, 113B13:173–174
Tyrrhenian Sea, 107B36:593–595
vs. depth, 201B9:5–8; 204A4:61; 5:28; 6:39; 7:36; 8:48; 9:46; 10:52; 11:35; 206A3:148
vs. total organic, 117B32:533–534
see also carbohydrates, total dissolved/dissolved organic carbon ratio
- carbon, elemental, cores, 157A9:462; 10:528
- carbon, in situ dissolved inorganic, origin, 164B7:72–73
- carbon, inorganic
Albian–Santonian interval, 207B11:1–13
Atlantic Ocean E tropical, 108A3:124; 4:235; 5:342; 6:422; 7:497; 8:565; 17:1055
Broken Ridge, 121A7:183; 8:215–216; 9:251
carbon isotopes, 174A_B1:1–7
changes with paleolatitudes and paleotectonic movement, 121B24:467
concentration, 130A9:422–425; 194B4:13; 202A3:53–54
coulometry calibration, 194B9:5
Cretaceous climate change, 113B47:843–844
geochemistry, 143A6:137; 7:216, 218–220
headspace analyses, 133A(1)13:536; 14:590
hydrothermal alteration, 139B13:307–312
Japan Sea, 127A1:23
Kerguelen–Heard Plateau N, 119A5:142; 6:189, 193–196; 119B50:904–905
Kerguelen sediment ridge, 119A14:522; 15:545, 548; 119B50:906
lithology, 149A4:93; 183A7:211; 197A5:97
Marsili Basin, 107A6:161
methane oxidation, 174A_B(synopsis):9
Miocene–Pleistocene interval, 175B6:4–19
Ninetyeast Ridge, 121A10:290, 343
Oman margin S, 117A15:474
ooze, 132B6:69–79
percentage, 157A3:81; 4:108; 5:135; 6:171; 7:193; 8:217; 9:262–263; 10:302–303; 11:332; 12:372–374; 13:418–419; 14:451; 165A3:72–73; 4:163–164; 5:254–256; 6:316, 318; 167A(1)4:75; 5:81; 7:171; 8:206; 9:232, 234; 10:267; 11:296, 304; 12:341; 13:373; 14:416; 15:456; 16:481; 167B26:297–302; 170A3:75–76; 4:134–137; 5:176–180; 6:206, 209; 7:237–239; 172A3:55–59; 4:118, 121, 130–131; 5:211–214, 219–221; 6:277–278, 282–283; 173A4:87–88; 6:148, 150; 7:204; 8:252; 9:290; 174A_A4:127; 5:177; 175A3:74–75; 4:102; 5:131; 6:166–167; 7:192; 8:215; 9:258; 10:298; 11:326–327; 12:371, 374; 13:411; 14:446
permeability, 205B11:13
Peru margin, 112A5:38–39
pore water, 116A3:40; 4:59, 61, 66; 131B12:159–163; 133A(1)17:788; 195B7:1–12
Prydz Bay, 119A8:313–314; 9:363; 10:385–386; 11:422–423; 119B50:905–906
sediments, 130B47:761–773; 133A(1)9:323; 10:381; 11:436; 143A8:284, 287; 9:331, 338–339; 177A3:13, 61–63; 4:17–18, 90–93; 5:22, 96–97; 6:15, 79–80; 7:79; 8:17, 99–100; 9:14, 70; 178A4:20–21; 5:17, 128–130; 6:13–14; 7:13, 106–107; 8:12, 76–77; 180A6:261–262; 181A3:107–109; 4:74–75; 5:61; 6:141–143; 7:177–179; 8:133–134; 182A5:18, 74–76; 6:27; 7:20; 8:23; 9:18; 10:23, 74–75; 11:13; 12:19; 183A3:18, 59; 4:29, 95; 5:51–52, 200; 6:5–6, 59, 204; 7:211; 8:118; 9:137; 184A4:19, 96–99; 5:15, 85–87; 6:11, 60; 7:15–16, 92–94; 8:7, 42:18–19, 113–115; 184B16:1–9; 188A3:49; 4:31; 5:25; 188B14:5–6; 16:3–4; 189A3:154–157; 4:58; 5:150–153; 6:159–162; 7:134–137; 190A5:25; 7:16; 8:17–18; 9:19–22; 192A3:150–151; 4:116; 5:111; 6:104; 194A7:145; 194B4:4; 198A10:31; 201A6:18; 202A3:13; 4:15, 73–74; 5:14, 62–63; 6:15, 65–67; 7:18–19, 72–73; 8:24, 103–105; 9:19, 98–100; 10:19, 90–92; 11:16, 79–80; 12:16, 99–100; 13:15, 72–73; 204A3:21, 119; 4:17, 116; 5:10, 60; 6:14, 77; 7:14, 70; 9:14, 88; 10:17, 106;

- 205A4:180; 5:35, 111; 6:19, 54; 207A4:23, 101–103; 5:24, 106–110; 6:28, 99–101; 7:25, 101–103; 8:24, 92–93; 208A3:87–88; 6:101; 210A3:96, 345–348
- sediments and rocks, 149A4:94–96; 5:131–133; 6:189–190; 7:241–243; 150A6:92–94, 96; 7:168–169; 8:233; 205A4:48–49
- Sierra Leone Rise, 108A10:751; 12:846
- Site 698, 114A5:109
- Site 699, 114A6:176, 198
- Site 700, 114A7:278; 114B6:126
- Site 701, 114A8:391
- Site 702, 114A9:501
- Site 703, 114A10:567
- Site 738, 119A7:259–261; 119B50:905
- Site 744, 119A13:491, 493–494; 119B50:906
- Site 747, 120A6:119, 125–126
- Site 748, 120A7:210–211
- Site 749, 120A8:263
- Site 750, 120A9:313–315
- Site 751, 120A10:358; 120B(2)46:873
- Site 765, 123A4:158–159; 7:162–164
- Site 766, 123A5:305; 15:308–309
- Site 778, 125A6:105
- Site 779, 125A7:125–126
- Site 780, 125A8:156–157
- Site 781, 125A9:187
- Site 782, 125A10:208–211
- Site 783, 125A11:258–259
- Site 784, 125A12:281–284
- Site 785, 125A13:310
- Site 786, 125A14:328, 332
- Site 793, 126A9:374–378
- Site 794, 127A4:113
- Site 795, 127A5:209–212
- Site 796, 127A6:283–285
- Site 797, 127A7:365–367
- Site 798, 128A4:125, 176–177, 189–192
- Site 799, 128A5:323–324, 334–338
- thermogenic origin, 125B21:376
- Tyrrhenian Sea, 107A7:314–315
- volcanics and volcanoclastics, 183A7:212
- vs. depth, 133A(1)12:482–483; 15:648; 139A6:229; 8:515–518; 150A7:144; 167A(1)6:151; 174A_A3:76; 4:128; 5:178; 178A5:68; 7:50–51; 188A3:136; 4:79; 5:67; 190A5:72; 6:47; 194B4:9–10; 204A3:72; 4:73; 5:37; 6:49; 7:46; 9:53; 10:63
- vs. organic carbon, 139B13:311
- carbon, marine organic
- accumulation, 159B41:570
- power vs. frequency, 175A3:53
- vs. age, 159B41:569; 175A6:146
- carbon, organic
- abundance, 117A2:32; 117B36:590–591; 119B10:187
- accumulation, 113B47:844; 127/128B(1)25:429–430
- adsorption, 117B32:537
- ages, 172A4:116–119, 123, 126; 5:206, 210, 216; 6:281
- Albian–Santonian interval, 207B11:1–13
- alkalinity, 123A5:303; 127/128B(2)79:1262
- ammonium, 127/128B(2)79:1262
- Aptian, 198A3:129
- Atlantic Ocean E tropical, 108A2:45–46, 49; 3:124–125; 4:235; 5:342–345; 6:422, 425; 7:491, 497–499; 8:561, 565–566; 9:624, 629, 635; 18:1055, 1064; 108B21:366–376, 382; 23:399
- atomic ratios, 112B9:147; 10:147
- authigenic carbonates, 204B5:7–8
- bacteria, 114B37:695–696; 160B25:305–306; 168B13:164
- benthic foraminifers, 112B22:377
- biochemistry, 112B9:141–142, 150
- biogenic sediments, 117B11:228; 12:249; 165A3:79
- biomarkers, 167B12:183–194
- black shale, 113A7:316; 198A3:42–43; 210B8:16–17; 10:3–4
- bottom water oxygen, 117A14:464
- Broken Ridge, 121A6:137–138, 141–142; 8:212, 215–216; 9:250–251; 13:493–494, 121B23:457, 460–461; 24:474
- bulk sediments, 199A10:18; 11:27; 12:118; 13:86; 14:19; 199B21:30–31; 22:23; 23:10–12
- burial sediments, 199B1:17–18; 20:27; 22:8–9
- burrows, 127/128B(1)2:38
- Cagayan Ridge, 124A12:330, 332; 124B29:389–392
- carbon isotopes, 127/128B(2)79:1262–1263; 154B35:501–505; 167B24:273–276
- carbonates, 126A7:186; 143A2:28; 157B33:577
- Celebes Sea, 124A10:157–161, 183; 13:357–358; 124B14:203
- Cenozoic, 152B24:283–292
- changes with paleolatitode and paleotectonic movement, 121B24:467
- chemofacies, 144B51:900, 902
- clay, 175A10:283
- color, 117A10:284–285; 117B6:155; 12:242, 248, 251–252; 25:447; 130B27:454; 167B29:329; 32:362
- concentration, 116A4:58, 60; 5:104; 6:165; 199B20:27
- cores, 138A(1)10:228; 12:359; (2)14:752–753; 15:843; 17:996–997; 18:1042; 19:1083; 144A3:69; 5:180; 6:233–234; 8:305; 10:367–368; 11:428; 157A9:462; 10:528
- Cornaglia Terrace, 107A9:603, 609, 631; 107B33:538; 35:581–582
- Cretaceous/Tertiary boundary, 121A6:138
- cyclic processes, 116A4:104; 127/128B(1)25:431–432; 32:568–569; 33:579, 586–588, 594; 34:671; 128A4:125, 177; 188A3:53–54
- dark layers, 127A6:283; 7:365; 162A8:273–274
- data quality, 108B21:364–365, 373–374; 121A8:212–215
- De Marchi Seamount, 107B35:581–582
- decomposition, 127/128B(2)79:1262–1263; 146B(2)8:110
- density, 114A11:672–673
- deposition, 107A8:436; 108B21:362
- diagenesis, 117B11:229; 30:499; 127/128B(1)6:92; 134B8:116; 135B10:161; 157B33:574–576; 166B17:181, 184; 199A1:14–15
- diatom vs. clay-rich laminae, 112B9:139, 141
- dropstones, 151A6:134
- Eocene sediments, 199B20:1–33; 21:9–10

- erosion of preglacial sediments, 119B6:113
 extractable lipids, 108B21:374
 factors controlling variations, 167B25:293
 flux, 127/128B(1)25:423-437; 162A7:245; 183B7:19
 frequency distribution, 161A6:196; 7:308
 geochemistry, 112B9:140-142, 145, 152;
 133A(1)14:586-587; 143A6:137; 7:216-221
 geriatric cores, 124E_A12:69-70
 glacial-interglacial cycles, 108A5:343; 108B21:378;
 112A1:15; 13:313; 112B20:359; 21:358;
 117B17:295, 301; 19:338; 20:348-349;
 119B13:240; 127/128B(1)33:589
 glaciation effects, 119B19:388
 Gortani Ridge, 107A11:881, 898; 107B33:538;
 35:581-582
 gray value, 127/128B(1)33:589
 hemipelagic sediments, 186B13:3-4
 high-resolution record, 146B(2)9:125-138
 hydrogen index, 117A14:463; 18:580
 hydrothermal alteration, 139B12:298-300; 13:307-
 312
 immaturity, 117A9:234; 10:285-286; 11:353;
 117B34:563-564
 Indus Fan, 117A8:163; 117B30:500
 influx, 151B22:393, 397
 inorganic geochemical variations, 117B30:499
 intersite correlation, 117A16:500
 Japan Sea, 127A1:24
 Kerguelen sediment ridge, 119A14:522-523, 530;
 15:545, 548, 551; 119B18:355; 18:373; 50:906
 kerogen microscopy, 108B21:373-374
 laminated sediments, 112B20:359; 146B(2)14:219-
 229
 Lima Basin, 112A22:821, 822; 112B9:137-138, 142;
 39:593-594; 43:651
 limestone, 144A7:276-277
 lipids, 107B34:555, 560
 lithology, 108A3:127; 117A13:424; 117B32:540;
 149A4:93; 181A1:30, 32; 183A6:178-179; 7:5-6,
 54, 190, 211; 9:41; 198A3:16-17; 199A8:55;
 14:61; 15:52
 lower Aptian, 198A1:128; 9:3-4; 198B1:37
 magnetic susceptibility, 119B6:113
 manganese, 123A5:303
 marine vs. terrigenous origin, 108A2:45-46; 5:343;
 12:846; 112B36:565; 117B20:349; 33:549;
 34:563; 35:571; 146B(2)9:128
 Marsili Basin, 107A6:132, 159-161; 107B17:257;
 35:581-582
 mass accumulation rates, 108B5:373, 383; 6:476;
 21:373, 378; 112B36:595; 39:595; 117A9:222,
 243; 10:274; 11:336, 368-369; 12:400; 13:429,
 432; 14:455-456; 16:481; 17:553; 19:606, 609;
 117B17:296-297; 20:349-352; 30:500;
 121B24:470, 475; 39:822; 123B4:227, 231; 127/
 128B(1)25:425, 428; 37:660; 130B34:573-584;
 162A7:245; 172A3:49, 55; 186B11:4-6;
 199B20:26
 maturity, 107B1:13; 8:541-542; 33:541-542; 34:549,
 553; 108B21:374-375; 112A15:476
 Messinian, 107B33:540
 methane, 112B32:525; 146B(2)15:213-218
 methanogenic microbial degradation, 123B12:232-
 233
 Milankovitch cycles, 175A17:523
 mineral surface area, 157B34:587
 Miocene-Pleistocene interval, 175B6:4-19
 Miocene/Pliocene boundary, 175B(synthesis):84
 Miocene-Pliocene interval, 117A4:48; 121B15:309
 models, 175B(synthesis):75
 modern surface sediments, 138B42:824-826
 monsoon, 117B12:252-253; 17:301; 20:354
 Neogene, 159A9:310
 Neoglacial, 178B34:6-8
 Ninetyeast Ridge, 121A10:287, 290-291; 11:337, 343-
 344; 12:400-401, 420-424; 121B23:457, 461;
 24:474
 nitrogen isotopes, 207B11:4
 nonmarine sediments, 107A8:436
 normal faults, 160B49:650, 656
 Northeast Providence Channel, 101B25:381-383
 ocean circulation, 175A1:10; 21:557-558
 oceanic anoxic events, 198A3:128; 198B1:5-6
 oceanographic interpretations, 127A7:368-369
 Oman margin, 117A2:26-27; 11:327-329, 340, 353,
 359-360; 14:456
 ooze, 135B7:107
 open ocean deposition, 121B24:477, 481
 organic biomarkers, 199B25:1-11
 organic matter, 149B13:295-300; 169S_B1:38-39;
 188A4:31-32
 origin, 107B34:549, 553; 117A9:234-235, 237
 Owen Ridge, 117A2:26-27; 3:40; 117B25:448
 oxic depositional environment, 107A28:439
 oxidation, 124B14:209; 130A12:549; 157B32:569
 oxygen isotopes, 117B19:324-325
 oxygen-minimum zone movement, 117B11:225
 Pacific Ocean W, 124B14:213
 Paleocene/Eocene boundary, 199B22:7
 paleoenvironment, 151A13:413-414
 paleoproductivity, 108B21:377-379; 117B17:300-301;
 121B24:472; 127A6:283; 127/128B(1)25:430;
 167B10:158-160
 particulates, 167B32:361
 patterns, 175B(synthesis):8-9
 Peru margin, 112A1:16; 2:38-39
 phosphate, 127/128B(2)79:1262
 photograph, 172A6:256
 physical properties, 108B23:400-401; 117A15:476;
 18:569
 Pisco Basin W, 112A18:724, 728-730; 112B9:138, 142;
 21:366-367; 27:461
 Pliocene, 108B11:164; 117B20:350-351
 Pliocene/Pleistocene boundary, 117A14:456; 15:474
 Pliocene-Pleistocene interval, 159B41:557-574
 pore water, 113B13:173-174; 145B45:671; 191A4:22
 power spectra, 177B(synthesis):51
 preservation, 155B33:531-538
 productivity, 175B(synthesis):36-37, 78; 19:5-6;
 199B22:10-11
 provenance, 155B17:312
 Quaternary, 161B36:464; 40:513

- recycled sediments, 119B22:411
 redox, 149B14:301-304
 reduction, 198A9:16-17
 remanent magnetization, 130B31:533
 Rock-Eval pyrolysis data, 107B34:550-553, 558;
 108A9:658; 112A13:319; 112B38:576-589;
 113A7:315; 117A2:27-28; 117B33:556-560;
 159A5:107; 188A4:105
 rocks, 180A11:10, 44
 Salaverry Basin, 112A1:18, 12:265, 266, 13:318-319,
 327; 112B9:142; 43:651
 sand, 180B8:35
 sand-sized detritus, 117A4:48
 sapropels, 107A7:315; 11:887, 899; 107B35:582;
 160A2:21-24; 7:165-166; 10:354; 14:478-479;
 160B16:201; 19:229; 21:262-263; 22:272-274;
 23:286; 28:354; 161B31:402-408; 39:492
 Sardinian margin, 107A8:404, 433-434; 10:750, 775-
 778; 107B33:538; 35:581-586
 sea-surface temperature, 117B26:452
 sedimentary Layer 2, 107B17:258
 sedimentation, 108B21:385; 121B24:472, 481; 127/
 128B(1)35:628; 130B44:715-716; 160B3:34;
 167B11:163-182
 sediments, 105B14:217; 133A(1)4:115; 5:157-160;
 6:191, 193; 7:219, 222; 8:268-269, 273; 9:317-
 318, 323; 10:371, 381; 11:436; 12:469; 13:527;
 15:640-641; 16:713, 715; 17:784; 134A7:114;
 135B9:148-150; 138A(1)9:148-153; 12:607-
 609; 139B24:449-454; 25:468; 141A6:118;
 8:271-272; 9:329; 10:392; 143A8:284, 287;
 9:331-332, 338-339; 143B12:180, 183; 23:588-
 589; 145B21:315, 321; 42:645-655;
 146A(1)4:79; 5:177; 6:263-264; 7:331;
 146B(1)26:386-387; 27:407, 409; 149B12:284;
 150A6:96; 7:168-169; 8:233; 151A9:288, 291;
 12:391-392; 151B22:391-405, 408; 154A4:94-
 98; 5:186-188; 6:249, 251, 261; 7:304-308;
 8:362-363, 370-371; 154B16:233, 243; 20:307-
 315; 155A7:147-148; 8:191; 9:218; 10:260;
 11:294; 155B34:541; 156A6:138; 7:225;
 157A6:159; 157B21:363; 31:583-584; 35:600-
 604; 159A5:102-108; 6:189-190; 7:242-244;
 8:269-270, 281-283; 9:306; 161B29:384-385;
 162B14:201; 165A3:72-73; 4:163-164;
 167A(1)4:75; 5:106; 6:146; 7:166-167; 8:193;
 11:296; 167B25:282, 295; 168A4:85; 5:139;
 6:177; 169S_A2:48, 50; 170A3:75; 4:137; 5:176-
 177; 6:206; 7:237-238; 173A4:87-88; 6:148,
 150; 7:204; 8:252; 9:290; 174A_A3:77; 4:127;
 5:177; 175A3:74-75; 4:102; 5:131; 6:166-167;
 7:192; 8:215; 9:258; 10:298; 11:326-327;
 12:371, 374; 13:411; 14:446; 16:488-493;
 17:503-504, 509-512; 175B(synthesis):71; 1:1-
 23; 2:1-11; 11:6-7; 17:3, 10-12; 178A4:20-21;
 180A6:60, 261-262; 7:22, 83; 8:32, 133; 9:45,
 191-192; 10:17, 71; 12:40, 189-190; 180B(syn-
 thesis):15; 16:3, 16-17; 181A3:24; 4:20-21; 5:22,
 61; 6:31; 7:40-41, 177-179; 8:33; 182A1:18, 21,
 23, 27, 32, 35, 38; 4:29, 96-97; 5:18; 6:27, 100;
 7:20, 71-72; 8:23; 9:18, 68-69; 10:23, 74-75;
 11:13, 41; 12:19; 182B8:13-15; 183A3:18, 59;
 4:29, 95; 5:51-52, 200; 6:204; 7:211; 8:4, 27,
 107, 118; 9:137; 183B7:5, 22-23; 186A1:10, 13;
 4:38; 5:25, 27; 188A3:183; 5:25, 91; 188B16:3-4,
 10; 190/196B13:1-10; 194B4:4; 195A3:35-37,
 162; 198A1:148; 3:27-28; 6:23, 81; 9:26, 102-
 103; 10:13, 31; 199A9:43; 10:60; 11:114-115;
 201A6:82; 204A3:21, 119; 4:17, 116; 5:10, 60;
 6:14, 77; 7:14, 70; 9:14, 88; 10:17-18, 106;
 205A6:19; 205B1:21-23; 206A3:41-42;
 207A5:24; 207B11:3-4; 208A3:22, 87-88; 4:20-
 21, 83-84; 5:16, 66-68; 7:23, 75-76; 210A3:349-
 355
 sediments and rocks, 149A4:94-96; 5:131-133; 6:189-
 191; 7:241, 243; 205A4:48-49
 shipboard vs. shore-based measurements, 127/
 128B(1)35:623, 628; 149B15:311
 Sierra Leone Rise, 108A10:751, 754; 11:795, 799, 803;
 12:846-847; 108B11:158, 164
 Site 680, 112B9:137-138, 18:363-364, 22:374, 375,
 27:461
 Site 681, 112B36:559
 Site 681, 112B9:137-13
 Site 682, 112A14:367-368, 386
 Site 685, 112A17:625-626
 Site 688, 112A20:906-907; 112B26:447
 Site 698, 114A5:108-109
 Site 699, 114A6:173-174, 176
 Site 700, 114A7:278, 281
 Site 701, 114A8:388, 391-393; 114B33:617
 Site 702, 114A9:498, 501-504
 Site 703, 114A10:567, 569
 Site 704, 114A11:651, 653; 114B33:625-626
 Site 721, 117A9:203-206, 243
 Site 722, 117A10:264-265, 297-298
 Site 724, 117A12:393-394, 406; 14:456; 117B35:573-
 579, 582
 Site 725, 117A13:423-424, 433; 117B35:579-580, 586
 Site 726, 117A14:456-457
 Site 727, 117A15:474-475, 488
 Site 728, 117A16:502-503, 508, 524, 536-537;
 117B11:227; 12:240; 25:448
 Site 729, 117A16:551
 Site 730, 117A18:560
 Site 731, 117A19:593, 595; 117B25:448
 Site 736, 119A5:140, 142; 119B18:354, 357; 50:904
 Site 737, 119A6:189, 193-195; 119B18:354, 359;
 50:904-905
 Site 738, 119A7:259-260; 119B18:354-355, 364;
 50:905
 Site 739, 119B6:81-82, 85; 19:378; 50:905-906
 Site 740, 119A9:374-375; 119B19:378
 Site 741, 119A19:386; 119B19:378; 23:418-419
 Site 742, 119A23:423-424; 119B5:81-82, 84; 19:378,
 385, 418-419; 22:412-413
 Site 743, 119A12:467; 119B19:378
 Site 744, 119B10:190; 18:355, 367; 50:906
 Site 747, 120A6:119, 125-126
 Site 748, 120A7:210-211
 Site 750, 120A9:313-315
 Site 751, 120A10:358

- Site 752, 121A6:137–138
 Site 754, 121A8:218–219
 Site 758, 121A12:422, 424
 Site 765, 123A4:64, 159–160, 162–164
 Site 766, 123A5:308–309
 Site 787, 126A5:85
 Site 788, 126A6:122
 Site 792, 126A8:268, 272–276
 Site 793, 126A9:374–375, 378–379
 Site 794, 127A4:113–114, 119; 127/128B(1)37:656;
 (2)78:1246–1247, 1255
 Site 795, 127A5:209–212, 216; 127/128B(1)41:706–
 710, 714
 Site 796, 127A6:251, 283–287; 127/128B(1)37:656
 Site 797, 127A7:325, 365–367, 375; 127/
 128B(1)33:592
 Site 798, 127/128B(1)25:423–426, 435–437; 37:656;
 38:668–669; 46:776; 128A1:32; 4:125, 176–177,
 189–196
 Site 799, 127/128B(1)2:38; 25:423–437; 35:623–629;
 37:656; 38:668–669; 128A1:32; 5:238–239, 245,
 323–324, 334–340
 Site 801, 129A3:111
 Site 802, 129A4:190
 Site 881, 145A3:55
 Site 882, 145A4:99
 Site 883, 145A5:153–154
 Site 884, 145A6:242
 Site 887, 145A8:357
 Sites 723 and 725 correlation, 117A13:434
 Sites 723 and 728 correlation, 117A16:530
 Sites 790–791, 126A7:186, 191–193
 Sites 885–886, 145A7:315
 slumps and turbidites, 108B21:379
 sources, 119B6:113; 121B24:481
 stable isotopes, 155B18:320–325, 328–332
 stratigraphy, 146B(2)8:103–124
 sulfate, 117A18:578; 117B30:510; 31:523; 119A6:186–
 187; 123A4:147; 123B379; 127/128B(2)79:1262;
 160B20:253–254
 Sulu Sea, 124B14:203; 29:384–385
 terrigenous component, 108B21:375–377;
 112B21:362; 22:372; 113B50:881; 116A4:58, 80;
 6:165; 117A8:182; 119B22:409–412;
 121B24:472
 time series analysis, 167B32:360–361
 Trujillo Basin, 112A16:545–546, 563
 turbidites, 135B52:832; 149B15:305–311; 46:706
 Tyrrenian Sea, 107A7:290, 314; 107B35:581–586
 upwelling, 117B19:339; 22:372; 35:571
 uranium logs, 117A11:358–359, 361; 19:623
 vitrinite reflectance, 117B34:563–564
 volcanics and volcanoclastics, 183A7:212
 vs. age, 138A(1)9:164; (2)16:940; 17:1002; 18:1051;
 144B42:710; 146B(2)8:107, 110, 113, 119, 123;
 16:222–224; 150X_B23:312; 154B35:502;
 159B41:564; 160B26:317–318, 324–327;
 167B11:175–179; 14:206; 32:357; 175B6:14;
 19:116–17; 199B21:23
 vs. alkenone sea-surface temperature, 160B22:280
 vs. biogenic barium, 127/128B(1)37:659
 vs. biostratigraphic age, 160B22:274
 vs. carbon/nitrogen ratio, 161B29:386
 vs. carbon isotopes, 149B13:297; 160B13:179
 vs. carbonate content, 117A9:234; 10:287;
 117B12:242–243; 143A7:222
 vs. composite depth and age, 138A(1)9:164; 10:237;
 11:303; 12:364
 vs. corrected depth, 146B(2)8:110
 vs. degree of pyritization, 160B20:254
 vs. density, 117B12:241–242, 246–248
 vs. depth, 108A10:747; 108B23:399; 112B9:140,
 21:357; 113A7:314; 114B37:687; 133A(1)8:274;
 9:324; 10:382; 11:437; 12:482–483; 135B7:111;
 138A(1)9:163; 10:236; 11:302; 12:363;
 (2)14:783–785; 15:863–864; 16:939, 940;
 17:1000, 1002; 18:1050–1051; 138B26:602;
 27:610; 139B11:228–250; 23:444–445; 24:453;
 43:689; 143A6:147–148; 7:222; 144A3:79;
 5:183; 11:432; 145B42:652–655; 146A(1)4:79;
 5:178; 6:263, 269; 7:335; 149A4:97; 5:134;
 149B12:285, 287; 46:708–709; 154A4:105;
 5:185; 6:257; 7:305; 8:390; 155B18:329–330;
 33:534; 36:567; 41:670–672; 156A6:139, 141;
 7:237, 240; 157B32:565; 34:585; 159A5:106;
 6:192; 7:242; 8:282; 159B41:564; 43:590–591;
 160A4:82; 5:118; 7:194–195; 8:258, 262; 9:317;
 10:369, 371; 11:399; 12:441; 13:461; 14:488;
 160B16:200; 20:251; 25:305; 49:658; 161A4:90;
 5:150; 6:256; 7:328, 384; 9:408; 161B30:393–
 394; 31:406–408; 36:459–460, 463; 39:493–498;
 40:506, 507, 510; 162A3:75–76; 167B11:167,
 174; 23:266; 25:283; 32:360, 363–364;
 169S_A2:49, 52; 172A4:132; 5:205, 208, 215;
 173A4:92; 174A_A3:76; 4:128; 5:178;
 175A10:283; 12:352; 17:519; 180A5:87; 6:167;
 8:90; 9:119; 12:123; 181A6:76; 7:97; 8:77;
 182A4:62; 5:43; 6:65; 7:46; 9:41; 10:52; 11:29;
 182B8:13, 15–16; 183B7:16; 186A4:127; 5:72;
 186B11:12–13; 13:6; 188A1:60; 3:136; 4:79;
 5:67; 195A3:119; 198A3:89; 9:76; 199B23:8–9;
 201A6:46; 204A3:72; 4:73; 5:37; 6:49; 7:46;
 9:53; 10:63; 205B6:21; 206A1:66; 3:151;
 207A4:42
 vs. distance to chert layers, 199B20:25
 vs. Factor 1 loading, 167B25:294
 vs. free hydrocarbons (S1), 127/128B(1)35:631
 vs. hydrogen index, 143A7:224; 160A7:195; 8:260;
 10:370; 160B22:275; 161A4:90; 5:150; 6:256;
 161B29:387
 vs. inorganic carbon, 139B13:311
 vs. iron, 160B20:255
 vs. mineral surface area, 157B34:589
 vs. *n*-alkanes, 175B5:17
 vs. nitrogen, 128A5:343–344; 144A5:186; 156A6:139;
 168A4:84
 vs. nitrogen isotopes, 157B33:578
 vs. pyrite sulfur, 146B(2)16:223
 vs. reflectance, 175A3:66, 4:92; 6:159; 7:182; 9:245;
 22:563; 23:572
 vs. siliceous microfossils, 114B33:619–624
 vs. sterols, 160B22:279

- vs. sulfur, 127/128B(1)33:594; 35:628; 41:712–713;
78:1241, 1254; 128A5:343–344
- vs. terrigenous component, 117B20:354
- vs. time, 146B(2)8:120
- vs. total inorganic reduced sulfur, 117B31:521–522
- vs. total nitrogen, 146A(1)4:81; 5:178; 6:264; 7:336;
157B34:586
- vs. total organic carbon, 156A7:237
- vs. total sulfur, 144A5:186; 146B(2)16:221;
157B21:365; 160B20:254
- Weddell Sea, 113B13:173, 176
- well-logging, 138A(1)11:309–310
- Yaquina Basin, 112A15:461–463
- See also* opal/marine organic carbon ratio; organic carbon accumulation rates; organic carbon flux
- carbon, organic (mass accumulation rates), vs. peak alkalinity in pore water, 167B32:350
- carbon, organic/barium ratio, Japan Sea, 127/
128B(1)37:653–654, 661
- carbon, organic/inorganic carbon ratio, vs. age,
146B(2)8:117
- carbon, organic/nitrogen ratio
 - Atlantic Ocean E tropical, 108B21:373
 - hemipelagic sediments, 186B13:3–4
 - mass accumulation rates, 186B11:5–7
 - organic matter, 181A3:25, 107–109; 7:41, 177–179
 - sediments, 160A11:395–396; 12:439; 13:460; 14:486;
181A5:22, 61; 6:31, 141–143; 8:33, 133–134
 - vs. depth, 152A8:100; 11:233; 152B24:284–285;
155B31:509, 511; 160A4:70, 82; 5:113, 115,
118; 7:189, 194; 8:250–251, 258; 9:313, 317,
369–370; 186A4:127; 5:72; 186B11:12–13; 13:6
- carbon, organic/organic phosphorus ratio, vs. depth,
155B31:509, 511
- carbon, organic/surface area ratio, vs. depth,
155B33:534–537
- carbon, organic/total sulfur ratio
 - lithology, 123B12:227–235
 - vs. depth, 139B13:311; 157B32:565
- carbon, Rock-Eval total organic
 - sediments, 205A5:112
 - Site 741, 119A10:388
 - vs. depth, 194A3:49; 4:82; 5:18, 67; 6:51; 7:88; 8:55;
9:46
- carbon, terrigenous organic
 - accumulation, 159B41:570–571
 - vs. depth, 155B32:530
- carbon, total
 - authigenic carbonates, 204B5:7–8
 - basalts, 183A8:118
 - Broken Ridge, 121A6:141–142; 8:215–218; 9:251
 - concentration, 130A9:422–425
 - data, 202A3:53–54
 - headspace gases, 133A(1)13:536; 14:590; 17:788
 - Kerguelen sediment ridge, 119A14:522; 15:548
 - lithology, 183A6:178–179; 7:190; 8:107; 197A5:97
 - Ninetyeast Ridge, 121A10:290; 11:343; 12:420–421
 - Oman margin N, 117B31:524
 - percentage, 175A3:81; 4:108; 5:135; 6:171; 7:193;
8:217; 9:262–263; 10:302–303; 11:332; 12:372–
374; 13:418–419; 14:451
 - permeability, 205B11:13
 - sediments, 133A(1)9:323; 10:381; 11:436;
141A10:403; 154A4:94–98; 5:186–188; 6:261;
7:306–307; 8:370–371; 162A3:77–79; 4:117–
118; 5:161; 6:194–195; 7:246; 8:277–279; 9:315–
316; 10:371–372; 165A5:254–256; 6:316, 318;
166A8:188; 9:250; 10:312; 11:361; 167A(1)4:75,
81; 7:171; 8:206; 9:232, 234; 10:267; 11:304;
12:341; 13:373; 14:416; 15:456; 16:481;
169A3:120–121; 5:223; 6:288; 170A3:76; 4:135–
136; 5:179–180; 6:209; 7:239; 171B_A3:79;
4:140–144; 5:213–215; 6:284–285, 290–292;
7:332–333, 339; 172A3:58–59; 4:130–131;
5:211–214, 219–221; 6:282–283; 174A_A3:76;
4:127; 5:175, 177; 177A4:90–93; 5:22, 96–97;
6:15, 79–80; 7:15, 79; 8:17, 99–100; 9:14, 70;
178A4:158–160; 5:128–130; 181A3:107–109;
4:74–75; 6:141–143; 7:177–179; 8:133–134;
182A5:74–76; 184A4:96–99; 5:85–87; 6:60; 7:16,
92–94; 8:42; 9:113–115; 188A3:49, 182; 4:31,
104; 5:25, 90; 188B16:3–5; 189A3:154–157;
4:58; 5:150–153; 6:159–162; 7:134–137;
202A4:73–74; 5:62–63; 6:65–67; 7:18–19, 72–73;
8:103–105; 10:90–92; 11:79–80; 12:99–100;
13:72–73; 204A3:21, 119; 4:17, 116; 5:10, 60;
6:77; 7:70; 9:88; 10:106; 205A4:180; 5:111; 6:54;
207A4:101–103; 5:106–110; 6:99–101; 7:101–
103; 8:92–93; 208A3:87–88; 4:83–84; 5:66–68;
7:75–76
 - sediments and rocks, 149A4:94–96; 5:132–133
 - Site 681, 112B38:581–582
 - Site 736, 119A5:140, 142
 - Site 737, 119A6:193–195
 - Site 738, 119A7:257, 259–260
 - Site 739, 119A8:313–314
 - Site 740, 119A9:362–363
 - Site 741, 119A10:385–386
 - Site 742, 119A11:423
 - Site 765, 123A4:158–159
 - Site 766, 123A5:305
 - Site 779, 125A7:126
 - Site 780, 125A8:156
 - Site 781, 125A9:186–187
 - Site 782, 125A10:209–212
 - Site 784, 125A12:281–284
 - Site 785, 125A14:310
 - Site 786, 125A14:332
 - Site 881, 145A3:58–60
 - Site 882, 145A4:108
 - volcanics and volcanoclastics, 183A4:96; 5:201; 6:205;
7:212
 - vs. depth, 133A(1)12:482–483; 15:648; 169A3:124;
4:185; 5:227; 6:289–290; 188B16:7
 - weight percentages, 169A4:184; 5:226; 6:288–289
- carbon, total dissolved, Cretaceous/Tertiary boundary,
113B47:829, 844–845
- carbon, total inorganic
 - mass accumulation rates vs. age, 175B18:22
 - Miocene–Pleistocene sedimentary record, 175B6:5
 - ocean circulation, 175A1:15
 - percentage, 175A3:81; 4:135; 5:108

- pyrolysis, 175A3:82; 4:109; 6:173; 7:193; 8:218; 9:264;
 10:304; 11:334; 12:375; 13:420
 sediments, 169A3:121; 4:181–182; 171B_A3:75–77,
 79; 4:140–144; 5:206, 213–215; 6:290–292;
 7:339; 175B(synthesis):73, 76, 79, 86–87, 92;
 2:1–11; 18:6, 10; 201B8:1–20
 vs. age, 175A3:52; 16:491; 17:509–510, 526;
 175B11:18; 23:39
 vs. calcite, 167B14:204
 vs. calcium oxide, 207B8:22
 vs. carbon/nitrogen ratio, 175A9:264; 10:303; 11:333;
 12:374; 13:419; 14:452; 175B2:8; 6:16
 vs. carbonate, 175B6:15
 vs. depth, 169A3:124; 4:185; 5:227; 6:289–290;
 171B_A3:83; 4:141, 143; 5:212, 215; 6:293;
 175A9:263; 10:303; 11:333; 12:374; 13:419;
 14:452; 21:557–558; 175B1:17, 22–23; 2:6; 17:7;
 201B8:8–15; 207B9:17–18
 vs. hydrocarbons, 171B_A3:83
 vs. hydrogen index, 175A6:172; 7:194; 9:264; 10:304;
 11:334; 12:375; 13:420; 175B6:18
 vs. magnesium oxide, 207B8:22
 vs. manganese oxide, 207B8:22
 vs. nitrogen, 171B_A5:215
 vs. reflectance, 175A5:122
 vs. strontium, 207B8:22
 weight percentages, 169A4:184; 5:226; 6:288–289
See also mass accumulation rates
- carbon, total organic
 abundance in gravity cores, 194B4:13
 bacteria, 180A9:46
 basin geographic variability, 161B41:523–525
 biomarkers, 202B7:1–14
 black shale, 207A4:73; 7:37, 78
 carbonate reactions, 165B19:292
 Celebes Sea, 124B18:242–244
 color, 178B3:6–7
 correlation, 202A1:115
 cyclostratigraphy, 207B2:13
 data, 202A3:53–54
 effects of storage and pretreatment, 205B7:21–23, 37
 geochemistry, 141B9:122–125
 headspace analyses, 133A(1)13:536; 14:590
 Lima Basin, 112A11:180; 19:821–822
 lipids, 112B35:549–550
 lithology, 197A5:97; 210A3:54, 96; 210B10:11–13
 mass accumulation rates, 124B15:218–223;
 151B32:573; 162A7:247; 162B14:205–206;
 164A6:149; 7:221; 164B5:53
 maximum content, 161B41:525
 molecular composition, 131A6:186–187
 Nankai Trough, 131B30:380–384
 Neogene, 202B1:3–4
 oceanic anoxic events, 123B12:234; 207A1:4–6;
 210A3:97–98
 organic matter, 184A9:20–21; 201B1:4–6; 4:5–11
 paleoenvironment, 112B26:441
 percent in sediments, 151A13:413
 permeability, 205B11:13
 phosphate, 112A14:389
- Pisco Basin W, 112A18:724, 729; 112B38:577, 582–
 586
 Pliocene–Pleistocene peak, 117B31:520
 pore water, 131B13:165–174; 31:389; 133A(1)17:788
 porosity, 178B30:5
 postrift sedimentation, 210B1:27–28
 profiles, 131A6:139–140
 Rock-Eval pyrolysis, 159A6:193; 178A5:17–18;
 182A7:73; 184A5:54; 6:61; 7:95; 9:116;
 201A11:18, 97–98; 210A3:97
 Salaverry Basin, 112A12:265, 268; 13:318–319
 sapropels, 161B41:521–524
 sediments, 108B21:363–365; 116A4:61–62; 5:107–
 108; 6:166, 167; 131A6:189; 135B41:667–676;
 141A7:214; 8:279; 9:335; 141B21:282–283, 300–
 303; 143A9:341; 146B(2)3:35; 10:140–143;
 151A8:241; 161B41:522; 162A4:117–118; 5:161;
 6:194–195; 7:246; 8:277–279; 9:315–316;
 10:371–372; 164A5:87; 6:125, 128; 7:197;
 8:263–264, 269; 9:297–298, 301; 164B5:48–51;
 37:395; 165A5:254–256; 166A7:160;
 167A(1)4:81; 7:171; 8:193, 206; 9:232–234;
 10:261–262, 267; 11:296–297, 304–305; 12:333,
 341; 13:369, 373–374; 14:409–410, 416; 15:449,
 456; 16:476, 481; 169A3:121; 4:181–182;
 170A3:76; 4:135–136; 5:179–180; 6:209; 7:239;
 172A3:55–59; 4:118–121, 130–133; 5:219–223;
 6:277–278, 282–284; 177A1:12; 4:18, 90–93;
 5:22, 54, 96–97; 6:14–15, 79–80; 7:15, 79; 8:17–
 18, 99–100; 9:14, 70; 178A5:17–18; 6:14; 7:13,
 106–107; 8:13, 76–77; 178B15:1–19; 180A5:33–
 35; 181A3:107–109; 4:74–75; 5:61; 6:141–143;
 7:177–179; 8:133–134; 181B3:4–5, 11–19;
 184A4:19–20, 96–99; 5:85–87; 6:11, 60; 7:92–94;
 8:7, 42; 9:19–20, 113–116; 184B16:1–9;
 186B15:37–38; 189A3:37–41, 154–159; 4:19–20,
 58; 5:41–44, 150–153; 6:44–50, 159–162; 7:40–
 43, 134–138; 190A4:23, 135–137; 7:15; 8:17–18,
 85; 9:19–22; 194A3:16–18; 4:22–24; 8:18; 9:17–
 18; 194B4:4; 201A6:18; 7:18, 90; 9:15; 201B5:5;
 8:1–20; 202A3:13–14; 4:15–16, 73–74; 5:14–15,
 62–63; 6:16, 65–67; 7:72–73; 8:24–25, 103–105;
 9:20, 98–100; 10:19, 90–92; 11:16, 79–80;
 12:16–17, 99–100; 13:15, 72–73; 202B7:12–14;
 205A4:180; 5:35–36, 111–112; 6:19, 54;
 205B7:5–14, 34–35; 207A4:23, 101–103; 5:106–
 110; 6:26, 99–101; 7:25, 101–104; 8:24, 92–93;
 9:3–6
 sediments, vs. age, 178A4:7–8; 178B15:9
 Site 680, 112B9:145; 26:450, 452; 30:493
 Site 681, 112B36:558, 565; 38:577, 581–582
 Site 682, 112A14:386; 112B30:493
 Site 685, 112A17:625–626; 112B30:494
 Site 688, 112A20:90–907; 112B26:451–452; 30:494
 Site 688, 112B26:452
 Site 721, 117B36:588
 Site 722, 117B31:520, 522, 526; 36:588
 Site 723, 117A12:352–353; 117B31:522, 531
 Site 724, 117B32:533
 Site 731, 117B36:588
 Site 736, 119A5:140

- Site 737, 119A6:18
 Site 738, 119A7:257
 Site 739, 119A8:313–314; 119B22:408
 Site 740, 119A9:363
 Site 741, 119A10:385–387
 Site 742, 119A11:422, 424
 Site 743, 119A12:467
 Site 765, 123A4:159–160, 247; 123B11:217–219;
 12:227–231
 Site 766, 123A5:311, 343–344; 123B12:227–231
 Site 779, 125A7:126
 Site 780, 125A8:156
 Site 781, 125A9:186
 Site 782, 125A10:209–212
 Site 784, 125A12:284
 Sulu Sea, 124A11:241, 244–246
 Trujillo Basin, 112A16:545–547
 volcanics, 180B8:5
 vs. age, 146B(2)9:133–134; 11:164, 167; 151A9:292,
 32:579; 151B22:399; 159B41:568; 181B3:9;
 184B16:7; 189B9:19; 202A1:111
 vs. aluminum oxide, 154B35:503–504
 vs. calcium carbonate, 117B31:525
 vs. carbon isotopes, 205B7:31
 vs. carbon/nitrogen ratio, 207A1:78; 210B10:8
 vs. carbonate content, 143B12:187; 189A3:90;
 202A8:69; 9:65; 10:60; 11:55; 202B7:3
 vs. chloride, 184A5:56
 vs. core depth, 178B23:27
 vs. depth, 131B5:61; 133A(1)13:537; 14:591; 15:648–
 649; 16:723; 134A8:159; 9:206; 10:284; 12:427;
 13:511; 135A(1)10:542; 139A6:223, 225; 8:515–
 518; 141A6:119; 7:215; 8:279; 9:336; 10:404;
 141B21:282–283; 23:302; 143A9:340;
 144A6:237–238; 8:306; 144B51:902–903, 907;
 145A3:72; 4:107; 5:163; 6:248–249; 7:323;
 8:363; 146B(2)3:37, 39; 9:130; 10:142;
 150A6:77; 7:166; 8:234; 9:287; 10:329;
 150B18:332–333; 151A5:87; 6:135; 7:194; 9:292;
 10:336; 11:371; 12:394; 14:580; 151B22:393,
 398; 32:578; 152A6:67; 7:83; 8:100; 11:231;
 12:269; 152B24:284; 155A6:111; 7:148; 8:191;
 9:218; 10:260; 11:295; 12:352; 13:401; 14:425;
 15:455; 16:480; 17:527; 18:557; 19:584; 20:613;
 21:650; 22:676; 155B34:542–543; 157A4:80;
 5:126; 6:158, 173; 7:366; 9:461; 10:527, 545;
 157B21:364; 161B34:435–436; 40:515;
 162A4:116; 5:160; 6:192; 7:245; 8:280; 9:317;
 10:382; 162B15:211; 164A5:90; 6:129, 149;
 7:202, 221; 8:269; 9:302, 314; 164B5:48; 37:396;
 165A5:255; 165B19:293; 166A6:91; 7:161;
 8:188; 9:250; 10:312; 166B13:138–141; 17:180;
 167A(1)4:81; 5:112–113; 6:151; 7:171; 8:206;
 9:234; 10:267; 11:305–306; 12:341; 13:373–374;
 15:457; 16:480; 167B12:191; 24:274; 168A4:86;
 5:146; 6:185; 168B13:164; 169A3:124; 4:185;
 5:227; 6:289–290; 170A3:81; 4:137; 5:180;
 7:239; 172A4:133–134; 5:222; 6:284; 177A4:49;
 6:44; 7:35; 8:51; 9:42; 178A5:69; 7:50–51; 8:46;
 181A3:58; 181B7:12; 184A4:58; 5:53; 6:37; 7:55;
 8:22; 9:65; 184B16:5–6; 188B16:7; 189A1:88;
 3:87; 4:36; 5:87, 113; 6:100; 7:80; 189B9:17;
 190A1:86; 4:66, 69; 5:72; 7:40; 8:17; 9:52; 190/
 196B13:7; 194A3:49; 4:82; 5:67; 194B4:9;
 201A11:54; 201B4:17–18; 202A1:85; 4:36, 49;
 5:43; 6:48; 8:44, 57, 68; 9:45–46, 64; 10:45–46,
 59; 11:37, 54; 12:47, 64; 13:52; 202B7:8;
 205A4:149; 5:88; 205B7:29; 207A4:73; 5:45, 82;
 6:41; 7:78; 8:41, 74; 9:12–16; 207B9:17–18;
 210A1:73; 3:278–281
 vs. hydrogen index, 117B31:522; 202A5:15, 45; 6:50;
 8:70; 11:56
 vs. linear sedimentation rates, 151A12:391
 vs. methane, 207A6:65; 7:61; 9:7–8, 18
 vs. nitrogen, 144A6:239; 8:307
 vs. nitrogen isotopes, 207B11:10; 210B10:9
 vs. organic carbon, 156A7:237
 vs. organic carbon/nitrogen ratio, 152A11:233
 vs. oxygen index, 143B12:187
 vs. pyrite and organic sulfur, 207B9:20–21
 vs. sediment accumulation rates, 124B15:220
 vs. silica/aluminum oxide ratio, 186B15:21
 vs. subbottom depth, 141B9:123
 vs. sulfur, 202A5:45; 6:50; 8:70; 11:56
 vs. sulfur, nitrogen, and hydrogen, 144B51:905
 vs. titanium oxide, 154B35:503–504
 vs. total nitrogen, 117B32:533; 151A5:87; 7:135;
 10:194; 13:247; 15:292; 18:336, 372; 152A7:83;
 11:231; 12:269; 162A3:79; 4:118; 5:162; 6:195;
 7:247; 8:280; 9:317; 10:372; 167A(1)5:113;
 168A4:86; 5:147; 6:185; 177A6:45; 8:52;
 184A5:55; 202A1:103; 5:44; 6:49; 10:60; 11:55
 vs. total organic carbon/total nitrogen ratio,
 167A(1)5:113; 6:151; 7:172; 8:206; 202A1:104;
 4:16, 50; 5:44; 6:49; 9:65; 207B11:9
 vs. total sulfur, 144A6:239; 8:307; 11:432;
 161B40:514; 162A7:247; 162B15:211; 166A6:93
 vs. uranium logs, 202A9:74
 Weddell Sea, 113B15:189–190
 weight percentages, 161B41:521; 169A4:184; 5:226;
 6:288–289
 well-logging, 207A8:36–37
 Yaquina Basin, 112A15:461–462; 112B38:577, 582–
 586
 See also odd/even carbon number preference index
 carbon, total organic, carbonate-free basis
 sediments, 202A10:90–92; 11:79–80; 12:99–100
 vs. depth, 202A10:59; 11:54; 12:64
 carbon, total organic/total nitrogen ratio
 data, 202A3:53–54
 diagenesis, 205B7:6–8
 organic matter, 170A4:137
 Pleistocene–present recycling, 113B50:889
 sediment sources, 205B7:8–11
 sediments, 145B42:647–651; 167A(1)6:146; 7:167;
 8:193; 9:233; 10:262; 11:296; 12:333; 13:368–
 369; 14:410; 15:449–450; 16:476–477;
 170A5:179–180; 6:209; 7:239; 177A4:18, 90–93;
 5:22, 96–97; 6:15, 79–80; 7:15, 79; 8:17–18, 99–
 100; 9:14, 70; 202A3:13–14; 4:73–74; 5:15, 62–
 63; 6:16, 65–67; 8:24–25, 103–105; 9:20, 98–
 100; 10:19–20, 90–92; 11:16–17, 79–80; 12:16–

- 17, 99–100; 13:15, 72–73; 202B9:4; 205A4:180;
5:36, 111; 6:19, 54; 207B11:3–4
- vs. depth, 133A(1)13:537; 14:591; 15:649; 16:723;
146B(2)9:130; 167A(1)5:106–107, 112–113;
6:151; 7:171; 8:206; 9:234; 10:267; 11:305;
12:341; 13:373; 14:457; 15:480; 167B12:187;
177A4:49; 5:54; 6:44; 7:35; 8:51; 9:42;
202A6:48; 8:68; 9:64; 10:59; 11:54; 12:64; 13:52;
202B9:16; 205B7:29
- vs. total organic carbon, 167A(1)5:113; 6:151; 7:172;
8:206; 202A1:104; 4:50; 5:44; 6:49; 9:65;
207B11:9
- carbon, total organic/total sulfur ratio
sediments, 202A5:15, 62–63; 6:16, 65–67
vs. depth, 167A(1)5:112
- carbon, total pyrolyzable
Pisco Basin W, 112B38:577
Site 681, 112B38:576–577
Yaquina Basin, 112B38:577
- carbon-13
diagenesis, 157B33:575–576; 34:584–587; 38:632
paleoclimatology, 175A1:8
vs. age, 175A1:9, 15
vs. depth, 175A1:14
vs. nitrogen-15, 157B33:578; 34:586
- carbon-14
age, 133B22:307–310; 155B17:308; 169S_A2:25, 33–
35; 182B8:4–6, 17
chronology, 146B(2)2:19–27
climate optimum, 178B34:5–6
Quaternary, 201B15:1–15
sediments, 164B32:325–327; 202B2:3–5
Site 740, 119B42:748
vs. depth, 164B32:326; 201B4:19; 15:12
vs. thorium-230 ages, 146B(2)2:24
See also geochronology
- carbon burial
Cretaceous climate change, 113B47:843–844
Miocene–Pleistocene record, 175B6:1–19
sea-surface temperature, 138B27:605–613
Site 704, 114B25:470, 472; 26:478
- carbon cycle
Eocene/Oligocene boundary, 198B11:2–3
obliquity, 199B1:12
orbital parameters, 138B43:843
paleoclimatology, 199B1:3
- carbon dioxide
advection, 172B3:3
alkalinity, 101A28:444, 446
alteration, 119B16:313; 139A5:136–140; 148B12:173,
175; 168A5:123; 183A7:46, 54, 153; 185A3:16–
18, 27–28
atmosphere, 177B(synthesis):12
autotrophic fixation, 201B2:4
basalts, 142B3:25–26; 4:32–34
basement units, 183A7:132
carbon isotopes, 114B26:478; 147B14:280; 172B3:1–
16; 204B15:5
core void gas, 146A(1)5:182; 204A4:112–113; 5:58;
6:74; 7:68; 8:86; 9:84–85; 11:57
crystalline rocks, 153A3:65
deep water, 114B25:469; 177B(synthesis):14–16
diabases, 148B1:4
enrichment cultures, 187B6:6
Eocene/Oligocene boundary, 198B11:2–3; 199B1:14
evolution, 184A1:4–7
explosive felsic eruptions, 183B1:19
Exuma Sound, 101A26:398, 406; 29:455
fluid inclusions, 137/140B16:194, 197; 144B48:861–
864; 147B11:221–222; 153B22:405
gabbros, 176B6:18; 209A10:24
gas hydrates, 164A8:255; 164B4:40–45; 172A1:9–11;
198B9:7; 204A4:114; 5:59; 6:75; 7:69; 8:97; 9:86
gases, 139A7:489; 169S_B1:37, 39
geochemistry, 139A6:197
glacial–interglacial changes, 108B29:468–469
harzburgites, 153A3:73
headspace gases, 202A10:16, 88
hemipelagic sediments, 131B12:160–162
hydrothermal circulation, 148B35:447–448
hydrothermal fields, 193A1:6–7
ice core correlation, 177B(synthesis):18–19
igneous rocks, 209A5:35
isotopes, 164B7:67–77
Jurassic basement, 185A1:18
lithology, 183A7:39
magma, 153B22:407–409; 157B22:389–390; 24:411–
420; 192B1:6
marine isotopic stages, 177A1:27–28
mass balance, 164B7:76
methanogenesis, 174A_B(synopsis):10; 207A9:6–8
middle Pliocene, 202B1:6
ocean circulation, 162A1:8–9
oceanography, 202A1:6; 202B1:22–24
organic matter, 186B11:4–6; 204A10:15
paleoclimatology, 165A1:8–10; 175A1:8; 177B(syn-
thesis):22; 199B1:3
partial pressure, 130B24:415; 208A1:57
peridotites, 147B14:278–280; 209A3:34; 6:29; 7:21
pore water, 157A8:419; 195B1:5
pressure cores, 204A4:115; 6:76; 8:88–89; 9:87;
10:104–105
productivity, 177A1:8; 178B23:13
reduction, 172B(overview):2–5
Rock-Eval pyrolysis, 165A5:256–257
sea ice extent, 177B(synthesis):12–13
seawater, 208B1:20
sediments, 139A5:121; 7:319–320; 8:479–482;
141A6:111; 7:203; 8:269; 10:389; 146B(1)8:152;
155A11:293; 164A7:197; 8:263; 169A3:117, 119;
4:178; 5:222; 6:282; 175A3:76, 82; 4:103, 109;
5:134, 136; 6:167, 173; 7:193, 195; 8:216, 218;
9:261, 265; 10:299, 305–306; 11:328, 335;
12:375–377; 13:412, 421; 14:446–447, 452;
15:474, 480; 178B4:3; 184A5:14–15; 191A4:22–
23
serpentinization, 147B14:278, 283
silicate weathering, 183B7:10
siliceous rocks, 198B17:7
Site 765, 123A4:161
sources, 117A10:234; 175A21:558; 175B(synthesis):4
submarine basaltic volcanic glass, 187B4:3

- troctolites, 209A10:23
veins, 176B9:15
volatiles, 176A3:281
volcanism, 183A1:38; 183B1:17–18
vs. age, 175A1:8
vs. barium, 209A1:125
vs. calcium oxide, 139B11:224; 153A3:77; 209A1:124;
5:150; 7:94; 10:115
vs. crustal age, 136B11:144
vs. depth, 139A6:202, 223, 225, 228–250; 7:341;
139B8:483–485; 146A(1)5:180; 6:266; 7:337–
338; 146B(1)10:180; 26:396; 27:403–406;
148B34:422; 153A3:76; 154B21:321;
164A7:199–200; 8:268–269; 164B9:91; 36:383;
169A5:223; 6:284–285; 175A6:173; 7:194;
8:217; 9:265; 10:307; 12:377; 13:421; 15:481;
17:511; 21:557; 176B6:47; 183A7:131;
185A3:123; 202A10:57; 204B19:9–10
vs. loss on ignition, 136B11:141
vs. magnesium number, 168A4:71; 5:125
vs. methane, 207A9:17
vs. nitrogen, 142B3:26; 148B1:6
vs. oxygen isotopes, 148B10:144
vs. strontium, 209A1:125
vs. strontium isotopes, 148B10:144
vs. total inorganic carbon, 207B8:22
vs. water content, 157B24:417; 187B5:6; 192B1:18
See also methane/carbon dioxide ratio; water-carbon
dioxide system; water-methane-carbon dioxide
carbon dioxide, dissolved
carbon isotopes, 172B3:5
carbonate accumulation, 129B33:619
vs. depth, 164B9:89
carbon dioxide, free
lava, 121B32:614
outgassing, 121B22:455
vs. depth, 139A5:130
carbon dioxide, headspace, vs. depth, 169S_A2:47, 51;
175A11:335
carbon dioxide reduction zone, pore water, 188A3:45–46
carbon flakes
preglacial sedimentary basin fillings, 163X_A8:4–5
thin section, 163X_A6:37
carbon flasers, lithology, 163X_A6:9
carbon flux
biostratigraphy, 202A4:10; 12:13
sedimentation, 130B44:715–716
vs. water residence time, 138B17:385
carbon/helium-3 ratio, basalts, 142B4:34–35
carbon/hydrogen ratio
geochemistry, 139A7:486–487
sediments, 139A5:127–128
vs. depth, 139A5:133–137; 6:211; 8:491–495
carbon isotope excursions
Paleocene/Eocene boundary, 174AXS_A(summary):13
Paleocene/Eocene Thermal Maximum, 198B8:4–13;
208B1:12–16
paleoclimatology, 174AXS_A(summary):3; 1:2
shoaling, 208B1:20
carbon isotope maximum
carbon isotopes, 177B(synthesis):36
oxygen isotopes, 177B(synthesis):7
carbon isotope signal, Messinian/Pliocene boundary,
160B1:7
carbon isotope stratigraphy, compound specific,
208B1:13–14
carbon isotopes
abundance in gravity cores, 194B4:13
age, 114B24:442–446; 26:478; 143B31:511; 189B9:4–
6, 9; 202B4:12–17, 29–30
alkali basalts, 129B22:420–423
alteration geochemistry, 148B10:132–137
anaerobic methane oxidation, 164B9:94; 204B15:11–
14
apatite, 129B7:176; 151B33:583–591
Arabian Sea contrast with Red Sea, 117B17:300
aragonite veins, 147B16:311–313; 164B29:299
Atlantic Ocean, 107B27:425; 108A5:328; 108B12:171–
178; 138B17:381–383
authigenic carbonates, 164B29:289–294; 188B14:5–6,
15
Baffin Bay, 105B14:210–212, 217; 32:604–605, 610–
611
Bass River Formation, 174AX_A1:42
bulk samples, 192B2:14–15
benthic and planktonic foraminifers, 107B26:411;
108B12:183–184; 114B23:417; 115B27:520, 524,
528; 117B17:295; 19:325–337; 119B38:697;
130B19:333–348; 44:737
benthic foraminifers, 114B23:411; 25:462–463;
27:486–487; 115B31:600; 120B(2)B44:841;
46:870–874; 62:1018; 130B24:411–421;
138B17:374–387; 145B18:268–273, 279–280;
174AX_A1:41; 181B1:35; 10:1–20; 183B7:29;
199B18:10; 21:29
biochronology, 160B13:167–180
black shale, 210B10:11–13
bolivinids, 115B31:597
box model simulation, 208A1:59
Broken Ridge, 121B9:231–233; 10:232–234
Brunhes/Matuyama boundary, 108B12:174–175
bulk sediments, 208B1:44
Cagayan Ridge, 124B29:385–387
calcite, 113B46:815–816; 149B32:546, 552, 554;
159B8:73–79; 174A_B(synopsis):9
calcium carbonate, 149B46:708–709
Campanian–Maastrichtian interval, 207B7:3
carbon dioxide, 147B14:280–281; 204B19:6
carbon/nitrogen/phosphorus ratios, 155B31:514
carbonates, 115B36:663–667; 121B22:453–455; 127/
128B(1)6:85–90; 129B22:426; 134B6:91–93;
136B11:139, 143; 139B14:322; 146B(1)6:126–
133; 7:137–148; 154B12:193–195; 16:239–253;
24:271; 19:288–297; 21:322–323; 24:368–371;
30:451–461; 156B5:85–87, 92; 29:356;
160B35:448–450; 172B(overview):6; 176B1:6;
182B15:1–13; 186B12:3, 5; 192B1:4; 198B13:5;
206B4:5–6
Celebes Sea, 124B18:240–241
cements, 143B13:209
Cenomanian/Turonian boundary, 174AXS_A(sum-
mary):10–11

- Cenomanian–Turonian interval, 174AXS_A(summary):31
- Cenozoic, 113B47:843; 208A1:56
- chemical tracers, 133B16:203–233
- chemofacies, 144B51:900, 902
- chemostratigraphy, 130B17:307–322; 18:323–332
- chlorite/saponite mixed-layer clays, 127/128B(2):55:888
- chronostratigraphy, 138B43:839–854; 184B2:11–15
- clastic sediments, 113B50:889
- climatic indicators, 113B49:866
- color bands, 130B27:454, 457–458, 460–462
- composite depth, 121B15:306–311, 340–355
- composition, 114B24:446–450, 458
- cool-water bryozoans, 182B13:1–29
- cool-water carbonates, 182B1:12; 11:1–14
- Cornaglia Terrace, 107B23:364–369
- Cretaceous, 113B53:941; 123B39:754; 160B30:384, 389–390; 198B1:39
- Cretaceous/Tertiary boundary, 113B53:944; 119B47:859; 120B(2):54:964; 130B45:746–749; 174AXS_A(summary):13; 183B4:10–14, 33; 208B1:41
- cyclostratigraphy, 127/128B(1):32:569–571; 207B2:10, 28
- deep water, 119B38:704; 177B(synthesis):14–16
- diagenesis, 124B14:212; 144B46:800–801, 803; 150B17:313–328; 192B2:1–15
- disequilibrium, 113B48:849
- dissolved inorganic carbon, 204B15:5–6, 30, 49; 20:1–16
- dissolved respiratory carbon dioxide, 115B27:520
- dolomite, 133B35:516; 143B11:162–163; 175B15:7, 16–17; 201B13:9–10
- drying effects, 114B24:440
- early Oligocene glacial maximum, 208A1:61
- Eocene, 119B38:695
- Eocene/Oligocene boundary, 119B38:704, 709
- ethane generation mechanism, 204B15:16–17
- excursions, 192B2:6
- fine fraction, 114B24:439; 115B36:662
- fluctuations, 114B24:438–446
- foraminifers, 113B46:814–815, 818–820; 47:831–832, 837; 130B19:333–348; 44:715–717; 133B16:213–214; 17:242–246; 32:482–483; 138B15:340; 22:508–510; 141B17:236–238; 144B20:401–410; 57:993–995; 146B(2):1:3–18; 151B26:445–454, 458; 152B18:243–248; 155B17:311; 159B40:549; 167B7:129–140; 175B(synthesis):85; 12:4–9; 177B9:23; 184B3:1–8; 4:1–8; 188B13:11; 16:11; 195B3:6, 30; 202B12:13–14
- fractionation temperature, 107B26:410–411
- gases, 139B25:469–470
- Gauss/Matuyama boundary, 114B23:411–413
- geomagnetic correlation, 114B24:447
- glacial–interglacial cycles, 108B11:163–164; 114B28:530–531; 117B19:337; 121B15:304
- glacio-eustatic sea level changes, 117B19:337
- hiatus correlation, 119B53:936
- high-resolution composite, 105B14:218–220
- Holocene, 119B38:697
- hydrocarbons, 139B25:470, 473; 204B15:45
- hydrothermal fluids, 139B12:291–305; 21:421–423
- ice core correlation, 177B(synthesis):17–19
- inter-reservoir transfer and enrichment, 121B10:234
- intermediate water, 117B17:301
- internal fractionation, 130B19:336
- intersite comparison, 119B38:704, 706–707, 713
- isotope stratigraphy, 155B16:287–290
- kerogen, 131B30:380–384; 188B16:3–5, 10
- Labrador Sea, 105B9:125–129; 35:697–704
- Lima Basin, 112A9:98
- limestone, 130B14:259–268
- lithology, 185B1:12
- low-resolution composite, 105B14:213–216
- lower–middle Eocene, 207B1:25
- lower Oligocene, 182B14:4
- lower Quaternary, 175B21:5–6
- Maastrichtian, 113B46:821; 174AXS_A(summary):32
- Maastrichtian–Eocene interval, 121B40:885–889
- magnesium vs. aragonite, 115B35:657
- magnetic susceptibility, 208B1:47
- marine isotope stages, 181B1:29–31
- Maud Rise, 113B47:836, 839–841; 48:861–862
- mean values, 160B13:178
- Mediterranean and North Atlantic surface waters, 107B24:391–392
- Messinian desiccation event, 121B11:250–251
- Messinian/Pliocene boundary, 160B1:7
- methane, 146B(1):21:439; (2):15:213–218; 172B3:1–16; 174A_B1:1–7; 180B16:4, 18; 184B13:4, 15; 195B7:10; 204B15:5, 29, 42–44, 47–48
- methane vs. methane/(ethane + propane) ratio, 184B13:13
- methanogenesis, 127/128B(1):6:88–90
- middle Miocene, 130B17:311–312, 315
- Miocene, 107B27:424–425; 119B38:713; 52:935–939; 189B13:1–12
- Monterey excursion, 119B52:937
- n*-alkanes, 208B1:13–14, 45; 5:1–11
- Neoglacial, 178B34:7
- Ninetyeast Ridge, 121B10:232–236
- nodules, 139B15:333
- North Atlantic deepwater, 108B16:290–291
- obliquity, 202B1:46
- oceanic anoxic events, 207A1:5; 207B1:21
- Oligocene, 119B38:709–710, 713; 199B1:11–12; 17:3
- Oligocene/Miocene boundary, 108B16:288–289, 291; 199B19:1–13
- Oligocene–Miocene global cycles, 115B36:662
- Oman margin, 117B25:448
- ooze, 160B2:17–18, 21
- organic carbon, 127/128B(2):79:1262–1263; 167B24:273–276; 175B17:3, 10–12
- organic matter, 141B23:299–305; 149B13:295–300; 46:706–707; 155B32:521; 161B31:408; 184B20:1–13; 186B11:5–6; 201B4:1–21
- Owen Ridge, 117B25:448
- Pacific Ocean W, 124B14:212

- paleoceanography, 119B38:714–715; 161B38:481–488; 167B8:141–150; 172B(overview):5; 177B(synthesis):21–22
- Paleocene/Eocene boundary, 119B38:697, 704, 706; 53:945; 199B16:5; 18:1–12
- Paleocene–Eocene interval, 150X_B23:305–315; 198B10:13
- Paleocene/Eocene Thermal Maximum, 198B1:45; 207B1:24
- paleoclimatology, 167B21:249–254; 177B(synthesis):8; 207B1:7–8
- Paleogene, 119B38:695; 207B6:10
- Panama Basin-Pacific Ocean, 138B17:377–381
- pelagic foraminifers, 130B23:397–409
- pelagic oozes, 121B10:237–240
- periplatform sediments, 115B35:654–655
- Peru margin, 112B32:521–523
- planktonic foraminifers, 115B31:600; 120B(2)30:543; 44:842; 46:875, 56:1018; 121B11:250; 15:329–339; 138B13:289–319; 144B43:738; 207B6:3–4
- Pleistocene–Holocene interval, 201B15:1–15
- Pliocene/Pleistocene boundary, 107B24:395–396
- Pliocene–Pleistocene interval, 107B24:390–395
- pore water, 124B14:208; 127/128B(1)34:607; 131B34:425; 133B35:515–516; 48:706; 161B32:413–421; 166B17:184, 192, 194; 174A_B(synopsis):10; 195B9:14; 202B11:1–19
- power spectra, 138B43:843; 154B28:437
- Prydz Bay, 119B22:408, 410; 41:742
- saponite clays, 127/128B(2)55:888
- sapropels, 107B24:396; 160B26:309–331; 161B31:401–411
- sea level changes, 115B36:662, 674
- seafloor sediments, 205B7:6–7
- secondary calcite, 127/128B(2)55:888
- secular variations, 154B35:501–505
- sediments, 107B26:410, 413; 129B22:424; 130B15:269–279; 131B15:186–195; 139B15:329–339; 141B24:307–312; 145B38:581, 583; 146B(1)15:261; 26:388–389; 155B18:320–325, 328–332; 160B2:13–15; 166B13:138–142, 147–151; 17:181; 175B(synthesis):16–17; 18:8–10; 21:27–31; 178B7:5–11; 180B16:4; 182B12:5; 183B7:6, 26; 199B21:31; 205B7:5–14, 34–35
- siderite, 155B30:500
- Sierra Leone Rise, 108B11:163–164; 16:288–289
- Site 690, 113B48:853–859; 53:943
- Site 704, 114B23:414–415, 419, 422–435; 26:476–478
- Site 709, 115B27:519–525; 29:530–534
- Site 724, 117B35:573–580
- Site 725, 117B35:579–580, 583
- Site 731, 117B25:448
- Site 738, 119B38:700–703, 705
- Site 744, 119B38:696–699, 705
- Site 747, 120B(2)45:857
- Site 799, 127/128B(1)34:614; (2)79:1265
- Sites 689–690 comparison, 113B49:868–870; 53:947
- Sites 851 and 1241 comparison, 202B12:46
- spliced records, 162B18:251, 254
- stable isotope stratigraphy, 171B_B5:1–14
- stages, 138B15:341–342, 345, 348
- standard sediment sample, 121B41:892
- stratigraphy, 114B23:413; 27:490–495, 501–508; 119B52:935; 120B(2)45:856; 121B11:245, 248–251; 15:304–307; 143B6:99–108; 185B6:1–17
- stylolites, 130B26:446–448
- Subantarctic-Pacific Ocean region, 138B17:383–385
- subducting pelagic sections, 205B4:1–18
- sulfate reduction, 127/128B(1)6:88
- Sulu Sea, 124A8:109–111; 124B16:227–230; 29:383–384
- surface samples, 146B(1)15:271
- surface-to-deepwater gradients, 113B31:597, 601–604; 49:871–872; 120B(2)54:971–972
- surface-to-intermediate water gradients, 119B38:709–710, 714
- suspended particulate matter, 105B14:217
- systematics, 119B38:696–697
- terrestrial biomarkers, 208B5:9
- tectonic settings, 146B(1)15:269–270
- timescales, 154B3:73; 20:304–305
- total inorganic carbon, 131B12:159–163
- Trujillo Basin, 112A9:98
- turbidites, 149B15:306–307, 309–311
- Tyrrhenian Sea, 107B23:380–382
- Upper Cretaceous–lower Paleogene interval, 208A1:62
- upper Oligocene, 202B3:5–6
- upper Paleocene, 198A1:96
- upper Pleistocene, 172B9:1–14
- urea adduction, 208B5:6–7
- vent fluids, 125A4:75
- vertical distribution, 177B(synthesis):33
- vs. 1/carbon number ratio, 204B15:31
- vs. age, 114B25:461, 467–470; 138B15:347; 17:379, 386–387, 390–391; 38:789; 39:800–802; 43:842; 145B18:279–281; 21:319–320; 38:584; 146B(2)1:14; 15:216; 150X_B23:310–313; 151B26:451, 464; 154B16:246, 248, 250, 259–260; 19:296, 308; 21:324–325, 328; 24:370; 28:436; 30:459; 35:503; 159B40:548–549; 41:568; 160B26:316–317; 30:389; 165B17:263, 282; 167B7:135–138; 8:144; 9:150; 175B12:14, 17; 21:19; 177B(synthesis):36, 41–42, 48; 183B7:21; 184A1:48; 184B2:24; 3:6; 4:5; 5:6–7; 20:10–11; 189B9:19; 192B2:12; 202B3:15; 12:43–44; 206B4:21; 207B7:7; 208A1:58
- vs. aluminum oxide, 154B35:505
- vs. calcite content in *Adeonellopsis*, 182B13:21
- vs. carbon/nitrogen ratio, 188B16:8
- vs. carbonate content, 144B13:265
- vs. carbonate mass accumulation rates, 206B4:21
- vs. composite depth, 145B17:259
- vs. depth, 114B24:440–441, 455–457; 133B19:267; 48:713–715; 138B17:374–378; 139B12:296–299, 304; 14:322–323; 141B21:282–283; 23:304; 24:309–311; 144B23:432, 435; 43:739–741; 46:805; 145B18:271–272, 281; 146B(1)6:131; 7:142, 144; 26:388–392; 31:443, 445, 447; 148B10:146; 34:423; 149B46:708; 150B17:321; 151B24:427–428; 26:449; 27:459–464; 28:472–476; 154B16:245; 19:288; 21:321; 28:435;

- 30:457–458; 155B17:315; 18:329–330;
 159B40:540; 160B1:6, 21; 13:177–178; 16:200;
 30:389; 35:449; 161B31:406–408; 32:419;
 165B11:196–197; 18:278, 280; 166B13:142, 152;
 17:193; 167B8:143; 9:146; 24:274; 171B_B5:7;
 172B3:11–16; 174A_B1:5; 174AXS_A(summary):31–32, 34; 175B17:8; 178B20:6;
 181B1:101; 10:5; 182B1:24; 11:7; 12:9; 13:15–
 17; 14:8; 15:8; 183B4:33, 38, 49; 7:16; 184B2:22;
 3:5; 4:6; 5:5; 186B11:12; 188B1:41; 13:33; 14:11;
 16:7, 9; 189B9:13–15; 13:5–6; 192B2:11;
 194B4:9; 195B7:8–9; 9:11; 198B12:10; 13:8–12,
 14; 199B17:7; 18:8–9; 201B3:17; 202B3:13; 11:6;
 204B15:27; 20:7; 205B1:50; 4:9–14; 7:29–30;
 207B1:21; 2:28; 7:6; 208A1:60
 vs. depth in Holocene, 177B(synthesis):49
 vs. revised composite depth scale, 138B15:342
 vs. distance above base of Paleocene/Eocene Thermal
 Maximum, 198B8:21–24
 vs. hydrocarbons, 146B(1)26:393
 vs. methane/ethane ratio, 204B15:28
 vs. nitrogen isotopes, 205B7:32
 vs. oxygen isotopes, 165B18:281; 182B12:1;
 198B12:11; 202B4:31–33; 206B4:21; 207B6:19
 vs. iron, 139B14:327
 vs. lignin phenols, 155B32:529
 vs. manganese, 139B14:327
 vs. Messinian/Pliocene boundary, 160B1:6
 vs. nitrogen/carbon ratio, 146B(2)15:215
 vs. organic carbon, 149B13:297; 160B13:179
 vs. oxygen isotopes, 127/128B(1)6:88; 134B6:94;
 143B6:102; 144B14:284; 23:433, 436; 24:442;
 46:808–809; 48:860, 868; 57:995; 146B(1)6:132,
 142; 148B10:148; 149B33:557; 150B17:320;
 150X_B23:313; 151B24:427–428; 154B21:326;
 29:443; 159B8:74–77; 160B10:132; 35:450;
 177B(synthesis):36; 20:8
 vs. planktonic foraminiferal zones, 160B30:389
 vs. strontium isotopes, 148B10:148
 vs. titanium oxide, 154B35:505
 vs. total organic carbon, 144B51:905; 205B7:31
 vs. Vostok carbon dioxide, 177B(synthesis):50
 water mass signature, 165B17:268–269; 177B(synthe-
 sis):9
 water temperatures, 113B46:813
 Weddell Sea, 113B50:884–891, 894–897
 Yaquina Basin, 112B32:521–523
See also carbon-13; deglacial negative carbon isotopic
 event; Paleocene Carbon Isotope Maximum
 carbon isotopes, in ethane vs. in propane, 164B5:58
 carbon/magnesium ratio, Peru margin, 112B25:436
 carbon molecular ratios
 vs. carbon isotopes, 141B24:309
 vs. depth, 141B24:310–311
 carbon monoxide
 basalt glasses, 142B4:32–34
 Site 765, 123A4:161, 164
 vs. nitrogen, 142B3:26
 carbon-nitrogen evidence
 diagenesis, 205B7:7–8
 sediment sources, 205B7:8–11
 carbon/(nitrogen + phosphorus) ratio
 carbon isotopes, 155B31:514
 oxygen isotopes, 155B31:513–515
 sediments, 155B31:510, 513
 carbon/nitrogen ratio
 Atlantic Ocean E tropical, 108B21:373, 375, 377
 Baffin Bay, 105B13:188–189
 black shale, 207A5:25; 207B1:8–9; 210B8:16–17; 10:3–
 4
 carbonate content, 151B24:424, 426; 160A4:69;
 8:264; 172A6:278
 color banding, 127A7:365–367
 diagenesis, 157B33:574–576; 38:632; 160A5:110;
 10:366; 160B22:274
 geochemistry, 131A6:149; 139A7:486–487
 iron isotopes, 207B10:8
 Labrador Sea, 105B13:196–198; 34:666–674
 Miocene–Pleistocene sedimentary record, 175B6:5–6
 oceanic anoxic events, 198A3:128
 organic matter, 149B13:296; 46:706; 154B35:502–
 504; 159A5:103–106; 6:190–192; 7:243;
 160B3:34; 161A4:81–82; 5:143–144; 6:233;
 7:318; 8:374–375; 9:403; 161B29:384–386, 389;
 40:506, 507, 510; 162A3:74; 5:157; 6:192;
 7:244–245; 9:308; 10:361; 168A4:83, 86; 5:140;
 6:177; 172A4:121–122; 5:214–217; 6:278, 281;
 175A3:75–76; 4:102–103; 5:131–132; 6:167;
 7:192–193; 8:215–216; 9:258; 10:298; 11:327;
 12:374–375; 13:411–412; 14:446; 175B1:4, 22–
 23; 2:1–11; 184A5:16; 6:12–13; 7:16; 8:7; 9:20–
 21; 201B4:5–11; 5:5, 28, 30; 207A7:25–26; 8:24–
 25
 paleoenvironment, 189A3:19–21, 38–40
 percentage, 175A3:81; 4:108; 5:135; 6:171; 7:193;
 8:217; 9:262–263; 10:302–303; 11:332; 12:372–
 374; 14:451
 plankton, 162A4:115
 Pliocene–Pleistocene variations, 159B41:564–568
 Rock-Eval pyrolysis, 130B34:575, 577
 sedimentary organic matter, 202A1:23–24
 sediments, 139A5:127–128; 150A6:94, 96; 7:167–169;
 8:231–233; 9:285–286; 10:330; 151A5:85–86;
 7:135–136; 10:189, 193–194; 12:241, 243;
 15:289; 18:336, 369; 155A7:165; 9:217; 10:259–
 260; 16:475; 17:519–520; 18:557; 20:610;
 22:665, 673; 157A6:166; 157B34:583;
 159A5:104–105; 8:282–284; 9:310; 162A3:77–
 79; 4:117–118; 5:161; 6:194–195; 7:246; 8:277–
 279; 9:315–316; 10:371–372; 164A5:88; 6:126–
 128; 8:197; 9:297–298, 301; 164B37:395–398;
 167B24:273–276; 169A4:181–182; 172A3:55–
 59; 6:282–283; 173A4:88, 92; 6:151; 7:204;
 174A_A3:76; 5:175; 180A5:34, 6:60, 261–262;
 8:32; 9:45; 12:40; 184A4:19; 5:85–87; 7:92–94;
 9:18, 113–115; 186A1:13; 188A4:31, 104; 5:25,
 90; 188B16:4–5, 10; 189A7:134–137; 190A4:21;
 5:25, 27; 8:18; 194A3:17, 74; 4:112–114; 5:18,
 102–103; 6:15, 89–90; 7:25–26, 140–142; 8:18,
 81–82; 9:17, 72–73; 198A1:148; 3:28; 6:81;
 9:102; 10:13, 31; 204A3:21, 119; 4:17, 116; 5:10,
 60; 6:14, 77; 7:70; 9:14, 88; 10:17–18, 106;

- 207A4:23, 101–103; 5:106–110; 6:28–29, 99–101; 7:101–103; 8:92–93; 210A1:20; 3:96, 349–352; 210B10:11–13
 sediments and rocks, 149A5:133; 6:190–191; 7:241, 243
 shipboard vs. shore-based measurements, 149B15:312
 Site 681, 112B36:558
 Site 689, 113B50:883, 890–891
 Site 690, 113B50:883, 891
 Site 693, 113B50:883
 Site 694, 113B50:883–884
 Site 1085, 175A13:418–419
 sources, 149A4:93, 96
 turbidites, 149B15:307, 309–310
 vs. age, 154B35:502; 159B41:568
 vs. carbonate content, 157B33:577
 vs. carbon isotopes, 188B16:8
 vs. depth, 131B13:168; 133A(1)10:382; 139A5:133–137; 6:211; 8:491–495; 149A4:97; 5:134; 150A6:77; 7:170; 9:287; 10:329; 151A5:87; 6:135; 7:194; 9:292; 10:336; 11:371; 157A6:160; 9:462; 157B34:585; 159A5:106; 6:192; 7:242; 8:282; 160B16:200; 162A3:75–76; 4:116; 5:160; 6:192; 7:245; 8:280; 9:317; 10:372; 162B15:211; 164A5:90; 6:129; 7:202; 9:302; 164B37:396; 167B24:274; 169A4:185; 6:290; 172A5:222; 6:284; 173A4:92; 175B2:7; 180A5:87; 6:167; 8:90; 9:119; 184A5:53; 6:37; 7:55; 8:22; 9:65; 188B16:7; 189A3:87; 4:19–20, 36; 5:41–44, 87; 6:46–47, 100; 7:80; 190A4:19, 66; 8:45; 194A3:49; 4:82; 5:67; 6:51; 7:88; 8:55; 9:46; 201B4:18; 204A3:72; 4:73; 5:37; 6:49; 7:46; 9:53; 10:63; 207B10:12; 210A1:73; 3:277, 279
 vs. total organic carbon, 161B29:386; 168A5:147; 175A9:264; 10:303; 11:333; 12:374; 13:419; 14:452; 175B2:8; 6:16; 207A1:78; 210B10:8
 weight percentages, 169A3:122–123; 4:184; 5:226
See also nitrogen
- carbon number
 biomarkers, 198A3:131–132
 carbon preference index, 208B5:3–4
 gas chromatograms, 208A7:24; 208B5:8
 maximum in bitumens, 169A3:119–120; 4:179–181
n-alkanes, 152B24:201; 162B15:212; 207A10:8–9
 organic-rich sediments, 162B15:211–215
 predominance sediments, 184B18:3, 10
 reciprocal vs. carbon isotopes, 204B15:31
 sapropels, 160B21:264; 22:280
 sediments, 146B(2):208–209; 150B18:337
 sterols, 160B22:279; 161B30:400
 vs. age, 162B15:212
- carbon/oxygen ratio
 gas hydrates, 164A6:143–144; 164B21:203–211
 reservoir models, 164B21:200–203
 vs. porosity, 164B21:201, 203–204
 well-logging, 164A6:144
- carbon/phosphorus ratios, 123B12:232–233, 235
- carbon preference index
 bitumens, 141A8:269–270; 169A3:119–120
 fluorescence, 141A9:327–329
 Ninetyeast Ridge, 121B25:483
- organic-rich sediments, 162B15:211–215
 Paleocene/Eocene boundary, 208B5:3–4
 sediments, 139B24:449–454; 141A10:390–392; 143B12:188; 146B(2)14:205; 169A4:179–181; 5:223; 6:285–287; 184B18:3, 10; 190/196B14:2
 vs. age, 162B15:212
 vs. depth, 139B24:455; 151B22:402–403; 169A3:121; 4:183; 5:225; 6:287; 190/196B14:5
- carbon ratio
 vs. alkenone abundance, 167A(1)11:306
 vs. total organic carbon, 167A(1)11:306
- carbon reservoirs, seafloor sediments, 205B7:6–7
- carbon shift
 intersite comparisons, 114B25:469–470
 Miocene–Pliocene interval, 114B25:468
 Site 704, 114B25:472; 26:479; 28:527
- carbon stacks, correlation, 167B11:175–176
- carbon/sulfur ratio
 geochemistry, 139A7:486–487
 influencing factors, 117B31:523, 525
 Oman margin N, 117B31:522, 524
 organic matter, 160B3:34
 organic-rich vs. normal sediments, 117B31:526
 Owen Ridge, 117B31:522, 526
 oxygenation condition, 127/128B(2)78:1241, 1249
 paleoenvironment, 189A3:18–21, 38–40
 Site 688, 112B26:447, 451
 Site 680, 112B26:447, 450
 sediments, 139A5:127–128; 150A7:168–169; 8:233; 162A7:246; 8:277–279; 9:315–316; 10:371–372; 189A7:40, 42, 134–137; 194A3:17–18, 74; 4:112–114; 5:102–103; 6:14–15, 89–90; 7:25, 140–142; 8:81–82; 9:17, 72–73
 Site 794, 127/128B(2)78:1246–1247, 1255
 Site 796, 127A6:283
 Site 798, 128A4:189–192
 Site 799, 127/128B(1)35:623–624; 128A5:324, 334–338, 342
 summary, 189A1:40
 upwelling vs. normal sediments, 117B31:526
 vs. depth, 139A5:133–137; 6:211, 229; 8:491–495; 189A5:41–44, 88; 6:46–48, 101; 7:81; 194A3:49; 4:82; 5:67; 6:51; 7:88; 8:55; 9:46
 vs. sulfur, 139B13:311
 weight percentages, 139A6:209–210; 169A3:122–123; 4:184; 5:226
- carbon system, global, carbonates, 138B15:351
- carbonaceous component, histograms, 186A4:77
- carbonaceous fragments, vs. depth, 180B7:30–34, 39–42
- carbonate abundance index
 Pliocene/Pleistocene boundary, 175B(synthesis):84
 vs. age, 175A16:497; 182B1:30
- carbonate accumulation events
 age, 199B20:26; 21:23
 sedimentation rates, 199B21:8–16
 sediments, 199B21:32
- carbonate aggregates
 sandstone, 180B7:10
 volcanoclastic sand, 180B7:8
- carbonate alteration, serpentinized peridotites, 149A4:81–82

- carbonate aprons, seafloor observations, 204A1:4–6
carbonate banks
 foraminifers, 129B12:233–234
 Pliocene, 133B17:235–254
 seismic stratigraphy, 115A4:152
carbonate breccia, matrix-supported, 160B38:494–496
carbonate cement. *See* cements, carbonate
carbonate clasts. *See* clasts, carbonate
carbonate-clay matrix, photograph, 180A12:104
carbonate compensation depth (CCD)
 accretionary prisms, 190A1:27
 accumulation, 186B11:3–4
 age vs. depth, 175A17:513
 Antarctic region, 114A12:801
 Aptian–Maastrichtian interval, 192A3:14–16
 Aptian–Santonian interval, 129B33:619
 Atlantic Ocean E tropical, 108B17:306–307
 Atlantic Ocean SE, 121B8:212
 Baffin Bay, 105B30:568
 Berriasian–Valanginian interval, 123A5:113
 biogenic sediments, 143A1:9
 biostratigraphy, 127/128B(1)29:504–505; (2)77:1220;
 135B11:168–169; 149B45:694; 159B31:391–393;
 35:489; 178B7:9–14; 182A1:12, 23; 6:12–14;
 183B2:6; 184B9:8–9; 191B1:3; 192A5:10;
 198B9:7–8; 10:7; 210A3:76–88; 210B13:19–25
 Cagayan Ridge, 124A12:315, 339; 14:411
 carbonate accumulation event, 199B21:14–15
 carbonate content, 208B1:9–21
 carbonate crash models, 206B4:12
 Celebes Sea, 124A10:128; 13:347–348; 124B1:4
 Cenomanian, 159B11:105
 Cenozoic, 149A5:145; 154A1:9; 9:430; 182A1:22
 cores, 147A4:114
 correlation, 130B35:593–594
 Cretaceous, 123B5:129; 143B2:24–25; 208B1:9–10
 Cretaceous–Eocene interval, 160B38:499
 Cretaceous–Paleogene interval, 160B32:413
 Cretaceous/Tertiary boundary, 130A10:521, 523–524
 crust, 181A5:37; 195B2:7
 cyclic sedimentation, 123B1:30; 198A3:16
 deepening, 145A8:342
 deposition, 149A4:50, 52, 56–62; 156A6:100–101;
 7:203; 173A6:114; 9:273, 293; 173B5:10–12;
 192A3:12; 6:12
 depth, 145B31:470
 dissolution, 129B33:618; 130B44:713
 Eocene, 105B51:974; 192A5:6–7; 199B1:16–17; 21:1–
 35
 Eocene/Oligocene boundary, 115B25:481, 486;
 119B38:714; 199B1:14; 208A1:8
 Eocene–Oligocene interval, 124B33:449, 455;
 198A5:3; 199A1:6; 199B8:3
 evolution, 154B12:193–195; 22:332–338
 faunal associations, 188A5:15; 188B4:20–21
 fine-grained sediments, 210B8:14
 global fluctuations, 124B11:169
 high-resolution reconstruction, 154A9:430
 history, 145B38:586–587; 157A1:9; 157B30:529–531;
 34:587
 hydrothermal alteration, 147B26:450
 Indian Ocean, 115A1:11; 115B25:485–487;
 121B15:309
 indicators, 135B53:847–849
 interpretation, 130A10:532, 534–535
 Japan Sea, 127A1:24; 127/128B(1)10:155; 12:208;
 26:440; (2)76:1201; 128A1:20
 Jurassic, 123B1:43; 129B32:605
 Kerguelen sediment ridge, 119B12:230; 46:818
 lava flows, 192A1:9, 14
 limestone, 185A3:9
 lithology, 149A4:57, 59; 5:125–126; 6:158;
 154A7:285; 9:421–422; 157A5:113; 159A8:267,
 282; 161A4:61–62; 8:362; 165A3:56, 62; 5:247;
 165B11:201; 173A8:234–236; 177A1:20;
 181A5:7, 13–15; 182A1:9; 188A3:11–12, 21;
 198A4:13–14; 5:13–15; 6:10–12; 7:12–13; 8:11–
 12; 199A11:10; 12:12; 13:10; 205A6:9;
 207A7:11; 210A1:15, 17; 3:25, 29–30, 35–36,
 43–46, 49–50, 54–56, 62–64
 Lower Cretaceous, 129B32:605; 198A1:15
 lower Eocene, 199A1:55; 199B1:15
 lower Miocene, 192A4:10–11
 mass accumulation rates, 154A8:363; 199A10:15;
 206A3:44
 microfossil preservation, 127A1:19
 mid-Cretaceous, 198A1:52–53
 mid-Paleocene biotic event, 208B1:10
 middle–upper Eocene sedimentology, 210B8:13
 Miocene, 115B25:483; 131B26:318; 154B25:375–388
 models, 192A3:70
 multisensor track data, 199B2:7–8
 nannofossil clay, 184B12:5
 nannofossils, 139B5:64–69; 168B4:47–48; 199A11:13
 Nazareth Bank, 115A4:134
 Neogene, 130A9:392; 149B12:283–284; 198B1:14–17
 New Hebrides island arc, 134B2:27, 29
 oceanic anoxic events, 198B16:8
 Oki Ridge, 127/128B(1)24:409
 Oligocene/Miocene boundary, 115B25:486
 Oligocene–Neogene interval, 113B53:954
 Oligocene–Pleistocene interval, 130A7:232
 organic matter, 130B8:342
 oxygen isotopes, 130B8:373; 199B21:12–13
 paleobathymetry, 130B3:72–77
 paleoceanography, 145A4:102
 Paleocene, 181B1:27
 Paleocene/Eocene boundary, 199A1:5
 Paleocene/Eocene Thermal Maximum, 198B1:11;
 208B1:12–13
 paleoclimatology, 181B1:51; 195A1:26–27
 paleoenvironment, 151A13:418–419
 Paleogene, 199A1:12–13
 paleoproductivity proxies, 198B11:3–4
 Pigafetta Basin, 129B1:15; 13:247
 Pliocene, 115B26:515; 119B10:195; 159A9:313
 Pliocene–Pleistocene interval, 188B13:14
 postrift sedimentation, 210B1:31–32
 precipitation, 133B36:531
 preservation, 157B10:122–123
 Quaternary, 139B2:40, 50, 53
 sea level changes, 124B29:387–389; 145A5:180

- sediment alteration, 185A4:32
 sedimentation, 123B43:810–811; 127/
 128B(2)77:1228; 154A7:327; 8:390, 395;
 154B3:75; 178B28:5; 191A1:5–6; 4:3; 192A7:4–5
 sediments, 149A4:111–112; 173A7:204; 8:252;
 177A1:12; 184A1:8; 187A4:6; 188B4:13; 11:6–7;
 195A1:22; 198A1:41–42, 48; 5:4–5; 6:3; 7:2–5
 seismic data, 130B2:41–42, 46; 132B1:4; 199A4:6
 shoaling event, 115B25:486; 41:739–741; 208A1:2;
 208B1:20
 Sierra Leone Rise, 108A10:742
 Site 685, 112A17:606
 Site 699, 114A6:171–172; 114B12:237
 Site 700, 114A7:273; 114B2:29, 34
 Site 701, 114A8:364, 377, 380, 411–412; 114B20:359
 Site 703, 114A10:564
 Site 704, 114A11:636, 687; 114B25:459, 464; 26:479;
 33:609
 Site 708, 115A6:401, 403, 405
 Site 709, 115A7:462
 Site 710, 115A8:593
 Site 711, 115B25:471
 Site 737, 119B18:357
 Site 738, 119B10:194
 Site 744, 119B10:194
 Site 765, 123B4:94
 Site 794, 127A4:103, 113, 147
 Site 795, 127A5:169, 199, 211
 Site 796, 127A6:247, 283, 315
 Site 797, 127A7:324, 356, 365, 409
 Site 798, 127/128B(1)10:168; 128A4:122, 158
 Site 799, 128A5:292
 Site 800, 129B1:7
 Site 801, 129B1:7
 Site 802, 129B12:231
 Sites 1276 and 398 comparison, 210A1:27–28
 subsidence, 115B25:485–487; 135B12:179–180
 Sulu Sea, 124B28:376–377
 summary, 206A1:24–25; 3:29
 surface productivity, 115B25:483
 synrift sedimentation, 210B1:25
 temperature, 168B8:97
 Tithonian, 123B1:10–11
 turbidites, 157A4:68–70, 77; 157B30:525–529;
 38:620–623
 unconformities, 133A(1)1:12; 192A1:18; 198A4:2, 13–
 14
 Upper Cretaceous, 160B32:408
 vertical changes, 115A9:659
 vs. age, 145B38:586
 vs. depth, 199B21:27
 water/sediment interface, 123A14:288
 Weddell Sea, 113B53:951–952
 Yamato Basin, 127A4:103
See also aragonite compensation depth; aragonite dis-
 solution; lysocline
 carbonate compensation depth, carbonate content
 metasedimentary rocks, 152B10:135
 Neogene, 151B32:571–573
 sediments, 151A6:130–131; 8:241; 151B30:494–495;
 35:655; 152A11:230; 12:269
 Site 644, 151B30:505
 Site 907, 151B30:506
 Site 909, 151B30:507–508
 vs. age, 151B22:399; 30:499–501; 32:579, 581
 vs. depth, 151A5:87; 6:135; 7:194; 9:292; 10:336, 371;
 151B30:496–498; 32:578, 580; 152A6:67; 7:83;
 8:100; 11:231; 12:269
 carbonate concretions. *See* concretions, carbonate
 carbonate concretions, authigenic. *See* concretions, au-
 thigenic carbonate
 carbonate content
 accumulation rates, 162B14:206; 186B11:3–4
 age models, 189B9:5–6
 authigenic carbonates, 164B29:289; 30:303–306;
 204B5:2–3
 biohorizons, 208B1:14–15
 bulk density, 167B32:368
 bulk sediments, 165B17:254
 burial sediments, 167A(1)5:110–112; 167B11:178
 calcite, 204B5:6
 carbon/oxygen ratio, 164B21:203–206
 carbonate compensation depth, 208B1:9–21
 coarse fraction, 208B1:51
 color reflectance, 167A(1)7:170–171; 167B32:362
 compaction, 170A4:137
 composite digital images, 208A3:42
 contours, 208A1:96
 cores, 127/128B(1)23:404; 156A7:203
 correlation, 202A1:115
 cyclic processes, 127/128B(1)25:431–432; 31:579,
 586–588; 133B15:191–194; 162A3:74; 172B5:5–
 6; 207B2:8–12
 dark layers, 162A8:273–274
 data, 133A(1)4:109; 133B58:825; 202A3:53–54;
 204B12:71
 diffuse spectral reflectance, 172B6:1–12
 dissolution, 135B6:97; 11:165–170
 dolomite, 201B13:5–10; 204B5:6
 downhole plots, 150B19:351, 354
 duplicate analyses, 138A(2)13:728; 14:781; 16:932;
 17:1001; 18:1049; 19:1084
 Eocene/Miocene unconformity, 165A6:321
 Eocene/Oligocene boundary, 198B11:1–16
 Eocene–Oligocene interval, 183B1:22–23
 Eocene Thermal Maximum-3, 208B1:16
 fine fraction, 133B17:239
 foraminifers, 157B10:116
 freeze drying, 143A6:144
 geochemical logs, 133B57:800–803; 135B59:938, 941,
 944–945, 948–949; 138B44:862, 864, 868–869,
 872–873, 876–877, 880–884; 143A4:80–81
 grain size, 154B3:81–82
 geochemistry, 162B14:197–207
 high-resolution reconstruction, 154A9:430
 limestone, 143B13:210, 212, 220
 linear regression parameters, 154A14:423;
 154B22:331–336
 lithofacies, 133B23:317–325
 lithology, 133A(1)15:644–645; 134B5:77–80;
 149A5:120; 154A4:65–66; 6:235–236; 7:285;
 8:341–342; 157A6:138, 143; 161A7:304;

- 162A3:58, 61; 4:101, 105–108; 5:152; 6:181, 184; 8:261, 265; 164A7:179–182; 9:284;
165A3:53, 56; 4:138, 142–147, 164; 5:238–247;
6:297–308; 166A8:178; 167A(1)4:55–57; 6:132–
135; 8:180–183; 10:246–247; 11:288–291;
171A_A3:27; 5:62; 7:100; 172A3:37–40, 56;
4:84–92, 118–119, 121; 5:164–165, 168–174;
174AXS_A1:22; 175B2:1–11; 177A3:4–5, 61–63;
6:79–80; 7:4–5, 79; 8:7–8; 9:7; 177B6:24;
180A5:11–18, 34; 8:4; 181A1:14, 26, 29, 32, 102;
4:6–7, 20–21, 74–75; 8:10, 133–134; 181B1:104;
3:4–5; 9:1–10; 183A3:4–5, 17, 51; 4:4–6, 29; 5:4–
5, 175; 6:4–9, 59, 178–179; 7:5–6, 54, 190, 211;
8:4–5, 107; 9:5–7, 125; 184A6:4–5; 7:9;
188A4:9–13; 5:8–11; 189A3:10–15; 4:6–9, 19–
20; 5:10–15, 41–44; 6:12–19, 44–46; 7:11–18;
192A3:10–11; 4:4–5; 6:7–8; 197A4:107; 5:97;
201A6:8–11; 204A6:3–8; 10:8–9; 208A3:5–9;
5:4–6
lower Aptian, 198A1:128
low-resolution reconstruction, 154A28:436–437
mass accumulation rates, 162B14:205; 165A8:379–
380; 178B23:28
measured vs. predicted data, 172B6:8–12; 181B4:8
nanfossil clay, 184B12:1–25
mineral surface area, 157B34:587; 38:632
Miocene, 165A4:152
Miocene–Pleistocene interval, 175B6:4–5
models, 181B4:9, 11, 13–24
modern surface sediments, 138B42:824–826
nanfossils, 138B9:170–173; 168B4:45–46
natural gamma rays, 154A9:424
Neogene, 130B44:716–717; 198B1:13–18
ooze, 133A(1)8:255–259; 15:625; 160B2:17; 183A5:4,
13
organic matter, 169S_B1:39
oxygen isotopes, 154B12:195
“Pacific-type” stratigraphy, 177B(synthesis):52
Paleocene/Eocene boundary, 208A6:69; 208B1:43
Paleocene/Eocene Thermal Maximum, 198B1:45;
208B1:11–12
Paleocene–Eocene interval, 208A1:99–100
paleoclimatology, 138B13:300–301
paleoenvironment, 189A5:15–16
pelagic sediments, 208A1:4–5
percentage, 157B33:576–577; 174A_A3:60; 4:116;
5:164; 175A3:81; 4:108; 5:135; 6:171; 7:193;
8:217; 9:262–263; 10:302–303; 11:332; 12:372–
374; 13:418–419; 14:451; 21:557–558
petrography, 161B4:59, 62
phosphorus, 154B32:476–481
photoelectric logs, 171A_A3:28–29; 207A5:83
piston cores, 138B45:885–893
Pliocene and Miocene, 150B4:59–60
Pliocene–Pleistocene interval, 159B41:563–564
pore water, 144B43:738; 177A6:13; 178A4:22–23;
5:19; 191A4:22
power spectra, 154B19:290, 295; 20:305–306;
177B(synthesis):51
predicted values vs. measured values, 181B4:12, 25–
32
preservation, 167B25:291
productivity cycles, 175B(synthesis):42–43
proxies, 154A9:422; 154B22:332–336; 23:349–365
Quaternary, 161B36:464
rates, 162B14:206
records, 167B26:297–302
reflectance, 155A23:699; 181B4:42–50
rock magnetism, 154B11:185–186
rocks, 180A11:10, 44
sapropels, 160B22:272–274; 161B39:492
saturation, 167B32:361
sedimentation, 164A7:220–221; 180A1:6
sediments, 130A8:305; 9:385, 453; 133A(1)4:104;
5:155–159; 6:190–192; 7:217–220; 8:267–271;
9:316–317; 10:370, 376–377; 11:432–435;
12:468, 476; 13:524–525; 14:584; 15:634–637;
16:709–710; 17:783; 138A(1)10:228;
138B27:607–609; 35:719, 725–751, 754;
42:822–836; 143A8:284, 287, 341; 143B12:180,
183; 13:200–201, 208; 37:587–591; 144B54:960,
966, 968; 55:974–976; 145B42:645–655;
146B(1)7:141–143; 15:261; (2)3:35; 11:149–151;
149B12:284; 150A6:94; 154A4:93–98; 5:183,
185–188; 6:249, 251, 261; 7:304–308; 8:362–
363, 370–371; 154B24:273–276; 156A7:206–
213, 216–217; 157B21:363–365; 32:564–565;
159A5:102–103; 6:189–190; 7:242–243; 8:281–
282; 159B43:589–592; 160B48:634–636;
161A9:401; 162A3:77–79; 4:117–118; 5:161;
6:194–195; 7:246; 8:277–279; 9:315–316;
10:371–371; 162B12:181, 185–189; 13:201;
164A5:91; 6:128; 7:201; 8:269; 9:301;
164B23:231–236; 31:315–316; 37:395;
165A3:71–72, 76–79; 6:321, 348; 165B6:117–
118; 17:258–259; 166A8:188; 9:250; 10:317–
319; 166B14:148–151; 167A(1)4:75–76, 81;
5:105; 6:146; 7:166, 171; 8:193, 206; 9:234;
10:261, 267; 11:296, 304–305; 12:333, 341;
13:368, 373–374; 14:408–409, 416; 15:449, 456;
16:476, 481; 167B11:169–173; 25:282; 30:331–
332; 32:373; 169S_A2:48, 50; 171B_A3:75, 79;
4:139–141; 5:213–215; 171B_B1:5–10;
172A5:211–214, 217–221; 6:278; 172B4:9–13;
173A4:88, 92; 6:148–150; 7:204; 8:252–253;
9:290; 174A_A4:127; 5:177; 174AXS_A5:72–76;
175A12:371, 374; 13:411; 14:446; 21:557–558;
175B1:1–23; 177A1:12; 4:17–18; 5:22, 96–97;
7:15; 9:14, 70; 177B6:4; 13:1–10; 178A8:76–77;
178B(synthesis):14; 15:1–19; 180A6:59–60, 261–
262; 7:22, 83; 8:32, 133; 9:45, 191–192; 10:17,
71; 12:40; 180B6:6, 10, 17–24; 181A3:24; 5:22;
6:31; 7:40; 8:33; 181B3:4–5, 11–19; 8:1–5; 9:1–
10; 182A1:18, 21, 23, 29, 35, 38, 40; 182A4:29,
96–97; 5:74–76; 6:27, 100; 7:20, 71–72; 8:85;
9:68–69; 10:23, 74–75; 11:13, 41; 12:5, 19, 68;
182B7:3–4; 14:4; 183A4:95; 5:200; 6:204; 9:137;
183B7:5, 22–25; 184A4:9–11, 96–99; 5:85–87;
6:60; 7:92–94; 8:42; 9:18–19, 113–115;
184B16:1–9; 19:5; 185A4:159; 186A1:13; 4:37;
5:25; 188A5:25, 90; 188B7:47; 189A3:37–39,
154–157; 4:58; 5:68–69, 150–153; 6:159–162;

- 7:40–42, 134–137; 190A5:25; 7:16; 192A3:150–151; 4:116; 5:111; 6:104; 194A4:22–24; 5:18; 6:14–15, 89–90; 7:25–27, 145; 8:18–19; 9:17–18; 195A3:34–37, 162; 198A1:148; 3:27–28, 127; 4:24–25, 85; 5:25–26, 93; 6:23, 81; 7:22, 76; 8:20, 75; 9:26, 101; 10:13, 31; 198B10:16; 11:14–15; 201A7:90; 202A4:73–74; 5:62–63; 6:15–16, 65–67; 7:18–19, 72–73; 8:103–105; 9:20, 98–100; 10:90–92; 202B7:12–14; 11:16, 79–80; 12:99–100; 13:72–73; 204A3:119; 4:116; 5:60; 6:77; 7:70; 9:88; 205A5:111; 205B7:6; 207A4:5–11, 101–103; 6:28, 99–101; 7:101–103; 9:3–6; 208A3:22, 87–88; 4:20, 83–84; 5:16, 66–68; 6:24–25, 101; 7:23, 75–76; 8:73; 210A3:29, 96, 345–348; 210B10:11–13
- sediments and igneous rocks, 170A6:206; 205A4:48–49
- serpentinized peridotites, 149A4:81, 83
- shoaling theoretical model, 198B3:9–11
- silty turbidites, 134B7:104
- Site 794, 127A4:113–114, 119
- Site 795, 127A5:209–212, 216
- Site 796, 127A6:283–287
- Site 797, 127A7:365–367, 375; 127/128B(1)33:592
- Site 798, 127/128B(1)23:401; 25:435–437; 26:445–446; 38:668–669; 128A4:32, 189–194
- Site 799, 127/128B(1)38:668–669; 128A1:32; 5:245, 307, 323–324, 334–338, 340
- Site 860, 141A7:166
- Site 881, 145A3:58–60
- Site 882, 145A4:108
- Site 883, 145A5:158–160
- Site 884, 145A6:246–247
- Site 887, 145A8:366–367
- Sites 885/886, 145A7:322
- spectral data, 188B7:4–5
- spectrophotometry, 175A10:282–283
- stable isotopes, 155B18:320–325, 328, 332
- stratigraphic correlation, 138B45:887
- stratigraphy, 133B25:355, 358–360; 146B(2)8:103–124
- summary, 189A1:41
- time series, 167B32:360–361
- turbidites, 131A6:93–94; 135B7:105, 107; 149B15:306–311; 168A4:57; 5:111; 6:169
- upper Paleocene–middle Eocene interval, 210B8:11–12
- upper Quaternary, 194B3:1–9
- variations, 130A9:465; 10:509, 512–514, 533
- velocity and density, 199B13:5–6
- vs. age, 130B47:764–765; 132B6:79; 133A(1)8:271; 10:378; 138A(1)9:164; 11:324; (2)13:731; 14:801; 15:880; 16:940; 17:1002, 1019; 18:1051, 1061; 19:1087, 1092; 138B35:728, 735, 745, 750; 144B42:696–700, 710, 712, 715–720; 146B(2)8:109; 11:164; 154A5:185; 9:436; 154B7:145–146; 12:194–195, 198; 14:218, 233; 18:279; 19:289–290; 22:337; 23:359–363; 25:377–381; 35:502; 157B38:623; 161B7:93–94; 162B12:186–187; 165A3:58; 4:144–145; 8:382, 384; 165B4:97; 6:119; 17:258, 260, 265; 167B11:173–181; 32:358; 175A3:492; 4:492; A5:492; 6:492; 7:492; 9:492; 10:492; 11:492; 12:492; 13:492; 17:514; 175B6:13; 19:15; 177B(synthesis):53; 9:14; 178A4:7–8; 178B15:9; 181B3:9; 184B12:19, 23; 16:7–8; 19:21; 188B13:21; 189B9:19; 198A1:133; 202A1:111; 206B2:22
- vs. agglutinated/calcareous ratio, 177A5:46
- vs. barite, 198B11:13
- vs. blue reflectance, 177A5:59
- vs. bulk density, 154A4:120; 154B9:159, 162–164; 167A(1)6:152; 177B6:11
- vs. calcite, 156A7:207; 161B4:63, 65
- vs. calcite-dolomite, 161B7:88
- vs. carbon/nitrogen ratio, 157B33:577
- vs. coarse fraction, 154B18:280; 19:287–289
- vs. color reflectance, 165A3:61; 167B29:329
- vs. composite depth, 138A(1)9:164; 10:237; 12:364; 154B12:191; 14:214; 162B14:199; 208A3:58; 4:59
- vs. compressional wave velocity, 154B9:162–166; 199B13:20
- vs. core depth, 178B23:27
- vs. corrected depth, 146B(2)8:109
- vs. density, 154A5:189
- vs. depth, 130A9:440, 461; 130B47:762–763; 132B3:39; 6:70; 133A(1)4:105–107; 7:228; 9:320; 10:375; 12:475, 489; 13:531; 14:578; 15:628, 636, 639; 16:691, 715; 17:787; 133B2:29–32; 11:150, 153; 23:322; 25:358; 38:549; 42:626–628; 134A7:104; 8:147; 9:190; 10:270–271; 12:403; 13:492; 134B7:111; 135A(1)5:237; 7:299; 8:348; 9:412, 451; 10:542; 138A(1)10:235–236; 12:363; (2)13:713, 718–720; 14:783–785, 794; 15:828, 830, 858, 863–864; 16:939–940, 952; 17:1000, 1002; 18:1050–1051; 19:1085–1086; 138B24:545–549; 27:610; 42:827; 141A7:165; 143A6:144, 146, 155–160; 7:221–222; 8:288; 9:336, 340; 144A3:75, 78; 4:131; 5:183; 6:237; 7:279; 8:306; 11:431; 144B43:739, 741; 51:902–903; 54:958, 962; 145A3:72; 4:106; 5:161; 6:248–249; 8:362–363; 146A(1)4:79; 6:263, 270; 7:335; (2)2:45; 146B(1)7:139–140; 15:262–263; (2)3:37, 39; 11:148; 149A6:169; 149B12:285, 287; 46:708–709; 150A6:77; 7:166; 8:234; 9:287; 10:329; 150B7:120; 18:332–333; 154A4:62–66, 105, 118–119; 5:158–160, 185, 188; 6:236–237, 257; 7:286–288, 305; 8:342–345, 390; 154B7:141–142; 9:158; 14:216; 15:230; 18:277; 19:287; 21:300; 23:350; 25:377; 36:518; 37:532; 155B18:329–330; 156A6:100, 148; 7:207; 157A1:9; 4:63, 67; 5:114; 6:147; 7:332, 372; 8:403, 426; 9:445; 10:508; 157B21:364; 30:526, 528; 31:546–553; 32:565; 34:588; 38:623; 159A5:106; 6:192; 7:242; 8:282; 159B23:249; 41:564; 43:590–591; 160A4:82; 5:118; 7:194; 8:258; 9:317; 10:369; 11:399; 12:441; 13:461; 14:488; 160B16:200; 17:210, 212; 18:221, 223; 34:440; 49:658; 161A4:90; 5:150; 6:256; 7:306, 328; 8:363, 384; 9:408; 161B7:89–92; 8:101; 15:200, 206; 30:393–394; 36:459–460, 463;

- 39:493–498; 162A3:75–76; 4:116; 5:153; 6:192;
7:245; 8:280; 9:317; 10:372; 162B12:182;
13:192; 164A5:90; 6:129; 7:202; 8:269; 9:302;
164B23:232; 26:256–257; 31:316; 37:396;
165A3:78; 4:146, 149; 5:240, 243, 259, 263;
6:303, 306; 8:392, 396; 165B11:195; 19:293;
166A6:91; 8:161, 188; 9:250; 10:312, 320;
11:361; 166B13:138–141; 167A(1)4:81; 5:112–
113; 6:151–153; 7:171, 173; 8:206, 208; 9:234;
10:267; 11:305; 12:341; 13:373; 15:457; 16:480;
167B11:166; 12:187, 191; 19:237; 26:298–301;
30:331; 32:360, 363; 168A4:59; 5:111;
168B4:46; 169S_A2:49, 52; 170A3:81; 4:137;
5:180; 6:190; 7:217, 239; 171A_A5:59; 6:78;
171B_A3:80; 4:141, 143; 5:177, 212; 6:293;
7:338; 172A4:83, 87, 90, 92; 5:165, 170, 172,
222; 6:255, 258; 172B4:7–8; 173A4:92; 6:150;
7:205; 8:253; 175A9:263; 10:282–283, 303, 307;
11:333; 12:352, 374; 13:419; 14:452; 17:519;
18:537, 539; 175B1:17, 22–23; 2:5; 17:6;
177A3:22, 25, 35, 38; 4:49; 5:33–54; 6:44; 7:35;
8:51; 9:42; 178A8:33, 45; 180A1:57; 5:87; 6:167;
8:90; 9:119; 12:123, 189–190; 180B7:32–34, 39–
42; 8:17, 30–31; 181A3:57; 4:41; 5:47; 6:75;
7:65, 96; 8:76; 181B8:4; 182A4:62; 5:43; 6:65;
7:46; 8:51; 9:41; 10:52; 11:29; 12:43; 182B7:7–
12; 8:11–16; 14:7–8; 183A4:62; 5:128–129; 6:59,
140; 183B7:16–17; 184A5:53; 6:37; 7:55, 69;
8:22; 9:51, 65, 84–85; 184B9:21; 16:5–6;
186A4:127; 5:72; 186B11:12–13; 188B7:17–18;
13:21; 189A1:88; 3:60–65, 87, 96; 4:28–30, 36;
5:63–67, 70, 87; 6:68–74, 79–80, 100; 7:56–60,
80; 189B9:13–17; 190A4:67; 5:72; 6:47;
192A1:43, 60, 65–66; 3:49; 5:35; 6:39–40;
194A3:30, 49, 55; 4:82; 5:67; 6:51; 7:88; 8:55;
9:46; 194B3:6; 195A3:119; 197A3:52, 99–102;
4:38; 5:35–36; 198A1:101–102, 106, 110, 116,
120, 125; 3:55, 58, 61, 89; 4:36, 39, 63; 5:38, 42,
64; 6:33–34, 36, 56; 7:33, 37, 52; 8:30, 33, 49;
9:41, 76; 198B11:11; 13:8–12, 14; 14:5;
199A10:28; 202A1:85; 4:33, 36, 49; 5:43; 6:48;
7:39, 41, 44, 56; 8:44, 57, 68; 9:45–46, 64;
10:45–46, 59; 11:37, 54; 12:47, 64; 13:36, 38,
52; 202B7:7–8; 204A3:72; 4:45, 73; 5:37; 6:33,
49; 7:46; 9:53; 10:47, 63; 204B5:6; 11:13–15;
205B7:30; 206A1:56; 3:126, 151; 207A4:42;
5:45, 72–74; 6:41; 8:41; 9:12–16; 208A3:31, 33,
38; 4:34, 36, 48; 5:30, 49; 6:42, 56, 69; 7:34, 44–
45, 58; 8:33, 35, 42, 57; 210A1:73; 3:279
- vs. depth in serpentinites, 149A4:82
vs. dry bulk density, 138A(1)9:165; 138B45:886;
146B(2)11:153; 154B25:380; 177B6:12–13
vs. foraminifers, 162B12:188
vs. grain density, 202A9:51; 10:49; 11:39; 12:49; 13:44
vs. grain size, 161B4:63, 65; 183B7:15
vs. lightness, 189A3:66; 5:70
vs. magnetic properties, 133B39:567
vs. magnetic susceptibility, 133B15:194–195; 49:742;
146B(2)11:153; 154A4:117–118; 5:189; 9:424;
165A3:61; 5:252; 8:382
vs. number of species, 177A5:46
- vs. opal, 183B7:15
vs. organic carbon, 143A7:222; 146B(2)8:112;
157B33:577
vs. oxygen isotopes, 183B7:15
vs. paleolatitude, 165B9:171
vs. porosity, 133A(1)14:598; 133B41:619–621;
146B(2)11:153; 186A4:144
vs. red reflectance, 177A5:59
vs. reflectance, 154A4:71, 105, 118; 5:189; 9:424;
154B25:378; 162A3:66; 6:188; 162B14:199;
19:261; 175A23:572; 181A4:29; 7:60; 8:49;
183B7:15; 198A3:61; 208A3:38
vs. sand content in contourites, 149B45:692
vs. seismic anisotropy, 154B9:164, 167–168
vs. silt content in contourites, 149B45:692
vs. total nitrogen, 157B33:577
vs. total organic carbon, 143B12:187; 167A(1)7:172;
175B6:15; 189A3:90; 202A8:69; 9:65; 10:60;
11:55; 202B7:3
vs. velocity, 210A3:292, 293
vs. water content, 146B(2)11:153
vs. wet bulk density, 199B13:19
well-logging, 127/128B(1)23:402, 404; 167A(1)8:196–
198
X-ray diffraction data, 148A3:143; 156A6:102–114;
178A8:65; 204A6:34
X-ray fluorescence data, 138A(2)13:712, 721; 15:856
See also aragonite; calcite; calcium carbonate; reflectance/carbonate content ratio; sand/carbonate ratio
- carbonate content, authigenic, vs. depth, 202A6:30
carbonate content, biogenic
vs. age, 167B14:206
vs. depth, 202A6:30
carbonate content, bulk
bomb vs. coulometry, 194B9:7
sediments, 194B9:1–9
vs. depth, 177A4:27; 5:34; 6:23; 7:25; 8:29; 9:27;
194B9:6
carbonate content, nonskeletal, vs. depth, 144B13:262
carbonate content/lithogenic sand ratio, vs. depth,
144B55:977–984
carbonate content logs, vs. depth, 146A(1)6:287
carbonate crash interval
biostratigraphy, 206B1:4; 2:10–11
causes, 138B35:743–745
lithology, 165A3:56
mass accumulation rates, 206A3:45–46
middle–upper Miocene, 206B4:1–24
Miocene, 138B1:13–14; 42:821–838; 202A12:10;
206A1:24
Miocene–late Miocene interval, 165A8:381–384;
165B17:249–273
models, 165B17:264–266; 206B4:8–12
ocean circulation, 165A1:9
pelagic sedimentation, 165A8:378–380
sedimentation, 138B35:731–735, 743–745; 165A3:96
teleconnections, 167B32:371–372
timing, 206B4:8
upper Miocene, 201B14:9
carbonate crisis, middle Miocene, 159A9:312–313

- carbonate critical depth (CCrD)
Kerguelen sediment ridge, 119B12:230
Pliocene shoaling, 119B10:195
carbonate crusts, lithology, 164A8:248–249
carbonate crystals, lithology, 199A11:8
carbonate cycles, Atlantic-type, nannofossil clay, 184B12:5
carbonate datums, smoothed, correlation, 133A(1)15:638
carbonate detritus, lithology, 207B8:4–11
carbonate dissolution
fabric, 149B31:532
indicators, 167B25:291
late Miocene carbonate crash, 165A1:9
marine ecosystem responses, 167B12:190–191
See also mid-Epoch 10
carbonate dissolution index
interglacial Stage 5e, 165B17:266
vs. age, 177B(synthesis):53
carbonate domes, basin margins, 161B43:548–549
carbonate fibers, photograph, 148A3:161–162; 206A3:278
carbonate fluorapatite
hardgrounds, 144B22:421
Peru margin, 112B8:112
carbonate-fluorapatite. *See* fluorapatite; francolite
carbonate flux, vs. age, 183B7:19, 21
carbonate fraction, models, 181B4:7, 33–41
carbonate grains
lithology, 171B_A5:181–183; 6:258–259
petrography, 160B45:580
photograph, 171B_A5:187–188
carbonate groundmass. *See* groundmass, carbonate
carbonate index logs, vs. depth, 157A4:90
carbonate intervals
lithology, 195A3:11–12
vs. depth, 195A3:67
carbonate ion, carbonates, 182A5:20–21
carbonate layers, inorganic, lithology, 151A6:122
carbonate lenses, photograph, 210A3:234
carbonate lithification front, vs. depth, 165A5:255
carbonate logs, vs. depth, 160A8:285–287
carbonate mass accumulation rates
Dansgaard–Oeschger cycles, 167B32:356
power spectra, 154B18:281; 20:309–311; 22:336–340; 23:363
variance density spectra, 154B7:147–148; 12:195–196, 199; 15:235; 19:290
vs. age, 154A4:119; 6:257; 7:309; 8:391; 9:437; 154B19:296; 25:382–386
vs. depth, 154A4:119; 5:194; 6:257; 7:309; 8:390; 154B25:386
vs. time and depth, 154B23:365
carbonate matrix
photograph, 185A3:86
photomicrograph, 194A5:46
carbonate minerals
associated with magnetic susceptibility, 161A7:309
formation, 127A1:22–23
iron composition, 127/128B(1)42:722–723
Maldives Ridge, 115B29:543
oxygen isotopes, 115B29:568–575
source provinces, 118B7:147
vs. depth, 166B14:151
See also aragonite; calcite; dolomite
carbonate micronodules. *See* micronodules, carbonate
carbonate minimum
Pacific Ocean E equatorial, 138A(2)13:714
See also middle–upper Miocene carbonate crash
carbonate mounds, Kerguelen Plateau central, 120B(2)48:900, 903
carbonate mud, photograph, 173A8:238
carbonate nodules. *See* nodules, carbonate
carbonate/noncarbonate ratio
sediments, 175B(synthesis):72
vs. calcium/aluminum ratio, 154B35:518
carbonate particles, abundance, 175A16:498
carbonate pavement, seafloor observations, 204A1:4–6
carbonate platforms
accretion, 194B2:5–7
age models, 194A4:20
Albian, 143B10:150–151
anatomy, 143A2:28
biostratigraphy, 144A5:173–176; 144B9:183, 186–191; 194B2:1–31
burial sediments, 133B27:395
Cenozoic, 133B52:763–770
chemostratigraphy, 144B25:447–457
construction, 144B33:561–583
Cretaceous, 143B9:126, 136; 144A10:397; 144B8:165–166, 168
deposition, 144A3:88–89; 5:163–164; 144B12:233–253; 17:337–359; 18:361–380; 180B7:22
development, 144B45:783–787
diagenesis, 144B46:789–817; 48:846–869
dissolution, 143B2:25
drowning, 143A1:7–8; 2:26–28; 144B5:116; 18:374–375
environment, 143B32:546–547
Eocene–Miocene interval, 133B21:291–300
evolution, 133A(1)1:16–25; 5:136–138; 8:247; 9:310–311; 10:359–362; 133B17:242–254; 20:286–287; 160B51:696–697; 182A2:14–20; 194A1:50–54
facies model, 144B14:275–278, 281–283
fluid flow, 133A(1)7:217–218; 171B_B2:2–3; 194A1:55–57
foraminifers, 144B10:199–219
Formation MicroScanner imagery, 143B21:329–372
fragmentation, 123B37:681
geochemistry, 133B48:706–711
geologic framework, 144B44:745–769
growth phases, 133A(1)8:245; 194A9:7
guyots, 144B47:819–840; 49:883–885; 52:915–933
history, 160A8:266–267
initiation and evolution, 144B53:943–947
interior lithofacies, 144B45:774–780
isopach maps, 144B33:578
karst, 143B29:433–470
limestone, 143A7:207–209
lithology, 143B30:471–493; 144B45:774–781; 171B_A3:59; 194A4:10–11
Lower Cretaceous, 160B32:404, 406, 408

- Maastrichtian, 121A13:465–467; 121B44:940
magnetization, 133B50:752–753
Mesozoic, 160B54:740–741
middle Miocene, 182A1:4
Miocene, 133B34:499–512
Palawan Island, 124B9:122
paleoceanography, 133B33:489–498
paleoenvironment, 144A5:173–175; 6:228
pelagic caps, 144B41:675–689
platform flooding, 144B6:132–134
porosity and permeability, 194B6:1–217
Quaternary, 180B(synthesis):13
reflectors, 165A5:234, 275
rhodoliths, 133B29:455–460
sea level, 101B12:188; 121B37:743, 753, 761;
143B20:322–326; 194A1:1–88
sediment transport, 101B14:203
sedimentation, 133A(1):15–30; 4:116–117; 16:732–
734; 133B3:47
seismic profiles, 144B33:579–583
stable isotopes, 143B14:231–241; 144B48:859–860
stratigraphy, 144B13:255–269
subsidence rates, 143B31:514–515; 144A5:199
tectonics, 160B50:671
Thakkhola (Nepal) vs. NW Australia, 123B43:807, 810
Vail model, 121B37:753, 761
well logging, 144A3:93; 10:383, 392–393; 11:433–434;
194A7:35–36
See also carbonate slopes; megabanks, founded; plat-
forms
- carbonate platforms, cool-water
sedimentology, 182B9:1–15
seismic stratigraphy, 182A2:1–25
carbonate precipitates, lithology, 204A11:6–7
carbonate proxy, reflectance, 181B1:29; 4:1–50
carbonate ramps
Eocene–Oligocene interval, 182A1:4; 182B1:5, 13–15
lithology, 166A8:179–180
upper Miocene, 182A1:4
carbonate record
comparison with accumulation rate, 130B44:734
loss record, 130B44:735
paradoxes, 130B44:741–742
pattern topography, 130B44:734
Sites 803, 805, 806 comparison, 130B44:734
- carbonate rhombs
Neogene, 159A9:308
photograph, 164A7:183
sediments, 164A7:183
- carbonate-rich intervals, mid-Cretaceous, 207B2:6–8
carbonate rocks
cementation, 133B21:294–297
density, 133B43:633–647
deposition, 133A(1):5:168–171
dissolution, 133B2:29–30, 32
fragments, 149A4:50; 5:119
lithofacies, 135B12:175–178
magnetic properties, 133B40:573–614; 50:749–753;
134B33:585
paleoenvironment, 133B15:189–202
physical properties, 133B42:625–632
- Pliocene evolution, 133B17:241–242
seismic reflectors, 133B44:649–659
textures, 133B22:304–308
thin layers, 133B46:688–689
See also bafflestone; bindstone; biocalcarenite; biocal-
cirudite; biomicrite; biopackstone; biosparite;
biowackestone; boundstone; bryomol assem-
blages; calcarenite; calci-turbidite; calcilutite;
calcimicrite; calcirudite; chalk; dolomicrite; do-
lomicrosparite; dolomite; dolomitic rocks; dolo-
mitization; dolopelmicrite; dolostone;
floatstone; framestone; grainstone; grapestone;
micrite; microspar; microsparite; oo-on-
cosparite; ooids; oolites; oomicrite; oopel-
sparite; oosparite; packstone; packstone–chalk
series; packstone–floatstone series; packstone-
grainstone series; packstone–wackestone series;
pelbiomicrite; pelbiosparite; pelmicrite; pelo-
ids; peloomicrite; peloosparite; pelsparite; rud-
stone; sparite; wackestone
- carbonate rocks, neritic
dating, 134B6:89–95
lithology, 134A11:326, 329
carbonate rocks, pelagic, paleomagnetism, 134A11:344
carbonate sand. *See* sand, carbonate
carbonate sediments
Oligocene, 181A1:3
sedimentation rates, 138A(1):6:87–91
strontium isotopes, 138B41:813–819
surface sediments, 138A(1):8:102
water content, 134B30:544
See also calcilutite
- carbonate sediments, nontropical, 133B20:283–284
carbonate shoals, lithology, 183A7:7–8
carbonate/silica cycles
laminated diatom ooze, 138B30:644
lithology, 183A6:5
pale–dark interbeds, 138B29:628–629
photograph, 138B29:636–637
- carbonate slopes
Abaco event, 101B29:457, 469
ancient channel and levee system, 101B19:264–265,
268–269, 273–274
ancient surficial slumps, 101B19:266, 270–273
consolidation, 101B22:315–320
detachment surfaces, 101B19:266–267, 270–274
development, 101A6:112; 9:341–342; 101B29:468
divisions, 101A6:112
erosion surfaces, 101B19:266, 269–272
geochemistry, 101B29:468–469
geotechnical properties, 101B22:315–325
highstand shedding, 101B15:218; 29:457, 467–470
modern vs. ancient sediments, 101B19:273; 29:457
platform drowning, 101B29:463, 465–466
platform–basin intervals, 101B29:457
present-day slopes, 101B19:263–265, 267
progradation, 101A11:442; 101B29:468
response to postulated global cycles, 101A6:112
sediment record, 101B29:467–468, 471
sedimentation patterns, 101B29:468
sedimentologic constraints, 101B19:272, 275

- shallow sediments, 101B29:460–462, 467
shear strength, 101B22:317–319, 321–325
steep platforms, 101B29:462–464, 467, 469–471
stratigraphy, 101B22:315–317
syndimentary gravity movement, 101A7:219
See also carbonate platforms
- carbonate solution
 diagenesis, 165A5:261
 See also dissolution
- carbonate spires, seafloor observations, 204A1:4–6
carbonate systems, sea gateways, 165B17:254
carbonate-terrigenous facies, reefs, 133A(1):1-21
carbonate units, base, seismic stratigraphy, 194A6:27
- carbonates
 abundance, 145A5:128; 8:341; 197A3:149; 4:107
 acoustic properties, 143B18:287–303
 accumulation in open oceans, 206B4:8
 alkalinity, 115B34:639–640; 123B3:80
 alteration, 113B49:874; 139A7:496; 147A3:68–69;
 163A5:60, 62; 169A3:82; 183B15:6–9; 187A4:3–4
 alternating rich–poor layers, 117A18:556, 559–561
 aluminosilicate dilution, 124B29:387
 aphanitic texture, 112B7:100–101
 Apulian foreland drowning, 107B38:726
 aragonite, 115B29:540, 561–562
 Atlantic Ocean E tropical, 108A2:46, 49; 3:114, 125,
 133; 4:241, 249; 5:336, 345, 353; 6:414, 422–
 425; 7:491, 498, 503; 8:566; 9:624, 635, 641;
 17:1051–1052; 18:1055–1064; 108B14:219–220,
 226–240; 15:244; 17:301–302; 18:312; 23:401
 Atlantic-type stratigraphy, 114B23:413, 415, 420
 atomic absorption data, 160A7:192
 authigenesis, 146B(1)15:265; 172A3:63; 174A_B(syn-
 opsis):9; 204A4:66
 authigenic minerals, 186B12:1–6
 bacteria, 177B3:5–6; 200A4:44
 Baffin Bay, 105A4:106–110
 Bahamas, 101B24:363; 115B29:540
 bank and reef deposits, 115B1:4
 barium source, 166B9:109
 Bengal Fan, 116B4:60
 benthic foraminifers, 105B30:568–569
 biostratigraphy, 101B12:180–181, 184
 black shale, 207A5:28–29
 Blake-Bahama Basin, 101B12:188
 bomb data, 103A9:256–257; 10:436; 11:542
 boron in sediments, 192B4:3
 Broken Ridge, 121A2:42; 6:138, 141–142; 7:181;
 8:215, 237, 250; 13:494–495; 124A6:96–97, 100
 bulk sediments, 165A8:394, 396
 burial transformations, 117B11:236
 calcareous clayey silt, 117A12:388–390
 calcareous mud, 107A6:140
 Campanian–Maastrichtian interval, 108B17:307
 carbon isotopes, 101B17:245–252; 112A6:98
 carbonate compensation depth, 123B1:43, 47;
 198A1:41–42; 7:4–5; 199B21:1–33
 carbonate platforms, 194A1:50–54
 Ceara Abyssal Plain, 154A1:6
 Celebes Sea, 124B33:447–448
 celestite precipitation, 101B24:375
 cementation, 116B8:138–139; 164A8:271–272
 Cenozoic, 115A1:12; 115B25:467; 134B2:42;
 194A1:36–44; 4:17–20
 Chagos Bank, 115A10:738, 751, 753, 757, 761, 764
 clast-bearing sediment, 101B12:179–180
 clast-free sediment, 101B12:180–181, 185–186
 clasts, 195A5:8
 clotted matrix structure, 119B7:135
 color changes, 103B11:191; 115A8:593–595
 color reflectance, 138B18:421, 424, 427
 compaction, 165B10:181–183
 composite flows, 101B12:186–187; 20:281–297
 composition, 108B14:213–214; 138B1:11–16;
 139B12:296–297, 300; 146B(1)6:123–126;
 160B1:4; 168B10:128, 131, 139; 176B9:59
 concentration, 105B45:849; 204A7:64
 Conical Seamount, 125B23:398
 Cornaglia Terrace, 107A9:620–621; 107B14:215
 Cretaceous, 103A9:236; 123B1:15
 Cretaceous–Paleogene interval, 121B44:937
 Cretaceous–Quaternary interval, 121B24:470
 Cretaceous/Tertiary boundary, 121A13:460, 470–471,
 495, 121B24:475
 cross laminations, 123A4:82
 crust subsidence and fluctuations, 124B33:449
 cyclicality, 115A7:461, 481; 8:609; 127/128B(1)33:584;
 154B7:138–140; 159B41:569–570; 166B7:77–88;
 15:155–166; 199B1:8
 dating, 105A5:493
 De Marchi Seamount, 107B14:220
 debris flows, 161B6:77–81
 deep waters, 117A1:6
 degassing, 164B10:111–112
 density, 103A10:437, 444; 121B13:269
 deposition, 103B11:184; 114A9:515; 121B24:475;
 124A10:221; 134B3:49–50; 138B1:16–17, 19;
 161B7:96; 175A17:512–513; 175B(synthesis):81;
 189A1:30–32; 194B2:4–5; 210A3:59–60
 detrital carbonates, 105A5:691
 developmental stages, 103B11:187–188
 Devonian megabreccia, 101B12:189
 diagenesis, 101B24:370–378; 115B35:649, 654;
 36:667; 116A5:98; 119A6:173; 127/
 128B(2)79:1263–1267; 139B7:108–109;
 146B(1)25:381–382; 150B17:311–328;
 159A5:110–111; 6:194–195; 160A4:67, 69;
 5:110; 7:188; 9:311; 10:363, 366; 161A4:89;
 5:146; 6:236; 7:319; 8:380–381; 9:403–404;
 164A1:8; 166B3:23–31; 8:95–97; 17:190–191;
 172A6:286–288; 178A7:16; 182A1:15, 38; 7:22–
 23; 9:20; 185A4:27–28; 188B1:19–20; 189A4:21;
 195A4:35–36; 198A9:14–15; 206B4:6–7
 diffusion, 168B10:131
 dissolution, 105B12:182; 112B9:139; 115A7:461;
 8:591–592; 9:659; 11:848; 115B13:124;
 138B29:629; 35:732–735; 154B15:229–237;
 160B19:231, 234, 237, 240, 245; 175A17:512–
 513; 20:550–551; 175B1:16, 21; 177A8:16;
 177B(synthesis):10, 16–17; 178A6:13–14; 8:14;
 181B1:21; 182A1:35; 183B5:8–10; 189A3:44;

- 4:21; 6:30; 198A1:54–55; 3:15–17; 198B9:5–8;
10:1–24; 204A11:10
dissolved inorganic carbon, 164B7:67–77
dolomitization, 101B24:375–378
electron microprobe data, 160B33:428
environment, 159B8:77; 175A23:569, 571–573
Eocene/Oligocene boundary, 119B38:711
evolution, 138B14:326–335
facies development, 133A(1)5:168–171
fault planes, 180A6:41
fine fraction, 115B29:542–546; 36:662
flow mechanisms, 101B12:183–184, 186
fluctuations, 105B30:563–567; 114A11:687;
114B25:463–469; 115A6:403; 7:465
fluoride, 204B16:8–9
flux changes, 108B14:212
foraminifer- to algae-bearing sediments, 117A17:548
Formation MicroScanner imagery, 143B21:332–333;
180B25:115
fragmentation, 117B20:354; 160A6:136
fractional porosity, 205B10:14
Galicia margin W, 103A8:129–133, 151; 9:230–234,
240, 258
gases, 164B5:51, 53; 7:67–77; 13:140–146; 30:303–311
Gauss/Matuyama boundary, 115B26:514–515
genesis, 176B1:6
geochemistry, 101B28:450; 115B29:565; 39:710–713;
144B43:737–743; 156B25:317; 160B35:447–451;
166B13:137–143; 14:145–152; 182B12:1–11;
198B13:1–17
glacial-interglacial cycles, 105B30:567; 108A6:423;
108B11:157–158; 115B29:540; 117A8:190;
117B20:348; 119B13:240; 127/128B(1)33:590
Gortani Ridge, 107A11:898
graded sequence, 123A4:89, 106; 5:279
grain density, 115A7:483; 146A(1)5:144; 7:318
grain size, 107B15:237; 162B13:191–194; 182B15:1–
13
gravity flows, 101B12:179–191
gray clay layer, 119B47:854
high-amplitude changes, 104A5:463, 465;
108A8:565–566
high-resolution record, 105A5:458–459, 462, 465
highstand shedding, 115B29:540
hydrothermal veins, 153A3:79–80; 153B30:524
ice volume variations, 154B12:190–191
ice-rafting, 119B6:12; 10:194, 201–202
igneous rocks, 209A5:35
impact craters, 165A1:8
index properties, 108A9:629
Indian Ocean, 115A4:145–146; 115B25:482–483;
34:637–642
Indus Fan correlation, 117A5:52
inoceramid sediments, 123B1:7
interglacial events, 105B30:567
intermediate water, 115B29:539
interpillow material, 185A3:116
isopach maps, 144A5:153
isotopes, 101B20:299; 117B27:259; 182B15:1–13
Japan Sea sediments, 127/128B(2)78:1235–1241
Jurassic, 103A5:84; 9:256–257; 103B2:18
Jurassic–Cretaceous interval, 103A9:272
Kimmeridgian–Tithonian deposition, 123B39:751
Kolmogorov–Smirnov test, 114B29:575, 576
lagoonal environment, 129B6:160
laminations, 138B1:12–13; 173A7:174–175
latitudinal transects, 199A1:15–17
Lima Basin, 112A11:166–168; 19:806
lithofacies, 143B30:471–493; 144B17:339–359;
182B4:10; 194A1:5–6
lithology, 101B12:186; 104A4:75; 107A9:609;
108A3:127; 5:235–236; 7:497, 499; 10:751–752;
112A12:258–259; 13:311; 17:603; 18:711;
117B21:371; 123B1:24; 143B12:177–180;
160A6:130, 143; 164A6:111; 170A5:159, 161;
171B_A6:259–262; 174A_A4:113–115; 5:163;
177A1:20–22; 180A6:28; 180B6:10; 181A1:24;
182A1:9–10; 5:8; 189A1:32–33; 195A5:7–8;
197A5:93
Little Bahama Bank, 101B12:187–188
logged thickness vs. cored thickness, 127/128B(1)6:79
low-magnesium calcite, 101B7:172
low-temperature minerals, 176A3:38
lower Eocene, 199A1:55; 199B1:15
lower Campanian–upper Paleocene, 210B8:10
lower Oligocene–Neogene interval, 182A6:10
magnetic properties, 115B26:510; 121A12:360
magnetic susceptibility, 115A8:603; 9:671;
115B41:740–743, 758–765; 117A8:166, 168;
117B18:312–313
Marsili Basin, 107A6:132, 155–157, 162
Mascarene Plateau, 115A1:5; 5:260–261, 266–269,
272, 277; 115B25:473–474; 482–483; 37:681
mass accumulation rates, 105A5:494; 108B15:246–
248, 254–255; 113B47:834; 114B25:469;
28:524–527; 117A9:243; 11:304; 12:368;
121B24:472–473; 37:747; 124B33:457; 127/
128B(1)25:428; 164A6:149; 183B7:7–9;
186B11:3–4; 198A3:26; 4:60; 5:25; 6:22, 55;
7:21–22; 206A3:153
massive sulfides, 139B18:377
measured and estimated percentages, 138B18:426
megabank drowning, 101B13:193
Mesozoic, 103A9:272, 274
Messinian/Pliocene boundary, 107A8:433
Messinian postconglomerate, 107B14:214–215
Meteor Rise, 114B1:17
methane in gas hydrates, 164B2:21–23; 4:40–45;
8:79–85; 10:101–112
micrite cements, photograph, 144B16:334
microbial activity, 205B8:8
microcrystalline sediments, 107B2:30
mid-Brunhes dissolution, 115B29:562–563, 565
middle Miocene, 194A1:13–15; 205B1:14–15
Milankovitch cycles, 182B14:9
mineralogy, 101B16:225, 237–244; 24:366, 370–373,
379; 105B10:142; 107B3:78–79; 13:191, 195;
112A6:98, 106–107; 112B7:99–100; 115B9:98;
29:543, 568–575; 123A4:76, 149; 165B17:255;
182B10:1–14; 11:1–14; 204A10:95
minima, 115A6:416–417

- Miocene, 117A18:563; 121B24:475, 477; 154B24:367–373; 25:375–388; 194A1:33–35
 Miocene–late Miocene interval, 165A8:381–384
 Miocene–lower Pliocene interval, 198B14:1–7
 Miocene/Pliocene boundary, 175B(synthesis):84
 models, 101B20:300
 modern shallow-water systems, 115B29:542
 nannofossil ooze, 115A5:240
 Nazareth Bank, 115A4:144, 150, 152
 negative organic carbon correlation, 121A8:212
 Neogene, 115A1:14; 189B1:18
 Ninetyeast Ridge, 121A2:42; 11:337; 121B24:471; 25:493–494
 nodules, 127/128B(1)34:611–612, 615; (2)78:1232; 139B14:313–339
 Norwegian Sea, 104B6:191–192; 24:440
 occurrence, 127/128B(1)6:78–79
 oceanic circulation and flux rate changes, 121A13:466; 121B44:931
 Oligocene/Miocene boundary, 115B13:126
 ooze, 138A(2)13:713–714
 opal correlation, 119B6:113
 open-ocean sedimentation, 121B24:475
 original isotopic composition, 101B17:247
 Owen Ridge correlation, 117A5:52
 oxygen isotopes, 101B17:245–252; 107B10:146; 112A6:99; 115B9:99; 29:543; 119B38:713; 178A8:12; 204B13:6–8
 paleoceanography, 143B6:99–104; 154B14:207–228; 181B1:36
 Paleocene, 181B1:27
 paleoclimatology, 181B1:48–51
 paleoenvironment, 160B38:483–508; 189A1:22
 Paleogene, 189A1:55–56
 paleogeography, 160B32:414–415
 paleomagnetism, 166B11:123–127
 pelagic sedimentation, 103B29:494, 497, 501–502; 31:516, 519; 165A8:378–380
 pelagic-hemipelagic sequences, 101A5:50–52
 percentages, 105A4:78–79; 105B34:666–674; 164B29:292
 peridotites, 153A3:67
 periodicity, 105B34:657
 periodograms, 114B29:574–575
 periplatforms, 101B20:279; 115B35:648
 permeability, 205B11:13
 petrography, 107B13:191, 195
 Pfar vs. age, 105B34:661
 photograph, 146B(1)7:148; 153A3:88, 100; 4:157; 153B3:56; 161A6:243; 165A6:329; 165B14:230; 168A5:118; 170A6:198; 172A5:167, 175; 180A6:97; 183A8:72; 9:62; 189A6:76; 7:64; 190A4:54; 197A6:77; 204A1:54; 3:54; 205A6:32; 209A6:93; 9:64; 10:90
 photomicrograph, 160B1:8; 32:405–409; 165B14:231; 168A5:134–135; 168B10:136; 11:147–148; 176B9:65; 183A9:84; 194B6:7, 31–170; 195A4:105; 198B16:23; 206A3:212, 279; 209A10:84; 210A3:175, 223
 physical properties, 115A9:676; 119A10:392
 Pigafetta Basin, 129B2:39
 Pisco Basin W, 112A18:712–713, 723–724
 planktonic foraminifers, 115B33:623
 Pleistocene, 101B16:226, 228; 108B14:214–217, 222–223; 138B35:750–751
 Pliocene, 101B16:226–229; 107B24:392; 26:408–409; 108B14:214; 115B26:513; 180B(synthesis):10–12
 Pliocene–Pleistocene interval, 124B28:377; 159B41:557–574
 pore water, 116A5:107–109; 6:166–169; 116B11:135–139; 124A11:239; 150A10:333; 164B29:292, 298
 porosity, 101B28:443; 103A10:437, 444; 121B12:256
 precipitation, 116B11:135–139; 164A8:266; 164B29:290–291; 174A_A3:73–74; 175A20:551–552; 181A8:32; 181B1:35
 predicting petrophysical parameters, 123B6:143–144
 preservation, 108A9:620; 114B33:631; 117A4:35; 119B52:935; 124B29:382; 154B20:299–300, 310–314; 175B(synthesis):7; 177A4:9–11; 198A9:14–15; 199B18:3–4
 productivity, 154B12:189–199; 23:349–365; 175B(synthesis):36–37; 206B4:1–24
 provenance, 105B3:45; 150X_B12:156–158; 161B7:94–95
 pteropods, 115B29:560–561; 30:587
 Quaternary, 101B16:224–227; 166B2:13–22
 radiolarian claystones, 123B1:15
 radiolarians, 138B20:461–478
 rapid diagenesis, 101B20:280, 295, 299
 reactions, 165B19:291–293
 recrystallization, 101B24:371–375; 114A11:649; 115B34:637; 119B18:364; 123B1:23; 2:74; 166B9:106–107; 181A5:21; 7:38; 8:31; 182A1:23–24; 5:21; 7:22–23; 9:20; 10:15–16; 189A3:44; 4:21; 192B3:4–7; 194A5:17; 198A1:61; 207A7:29
 redeposition, 123A1:40; 123B42:789
 redox, 204B15:9–10
 regional scale, 189A1:43–44
 rifting phases, 210B1:6–7
 remineralization, 181A3:23–24
 replacing quartz, 103A9:234–235
 rock magnetism, 166B4:35–43
 Sabah, 124B9:127
 Salaverry Basin, 112A12:261; 13:311–312
 sandstone, 146B(1)29:425–426
 Santonian deposition, 121B37:747
 sapropelic layers, 107A11:887, 899
 Sardinian margin, 107A8:404, 433–435; 10:762, 773; 107B13:207, 210; 14:213, 218–219; 15:236
 scanning electron microscopy, 165B14:232
 scatter plots, 207B8:22
 schist/gneiss contact, 161B20:283
 sea level changes, 101B12:188–189; 115B36:674; 117B8:186; 121B37:753; 143B20:322–326; 166A2:14–18; 166B16:167–177
 secondary minerals, 115B9:97; 139B10:155–201; 163X_A4:13
 sedimentation, 107A8:433; 138A(1)10:243; 11:316–317; 138B9:172–174; 42:830–836; 172A5:174–

- 178, 201–207; 7:311–313; 177B(synthesis):8;
184A1:34–35; 192A6:11; 205A5:15
sedimentology, 107B17:258–280; 166B6:61–76
sediments, 108B14:223; 116A4:49, 54; 5:98, 102;
6:162; 116B32:403; 139B8:116; 146A(1)5:154,
253; 159A7:242–243; 175B(synthesis):70–71,
76, 86–87, 92; 198B14:7
seismic data, 138B24:545–548; 166A1:6–8; 199A4:4–5
sequence stratigraphy, 108A11:800; 182B3:41
serpentine muds, 125A4:72
shallow- to deepwater change, 101A6:125
shallow-bank cements, 101B18:255
shallow-water facies, 160B30:378
Sierra Leone Rise, 108A10:754; 11:795, 803; 12:838,
849, 854
silica preservation, 115A8:606
siliceous rocks, 198B17:7
Site 680, 112B22:374–375
Site 682, 112A14:365, 368, 390
Site 685, 112A17:602–603, 610, 629; 112B25:436–437
Site 688, 112A20:876, 882–884, 890
Site 698, 114A5:93, 97, 101, 107, 112, 116, 117
Site 699, 114A6:152, 159–160, 164, 198–199
Site 700, 114A7:259–262, 265, 278, 281, 284, 307;
114B6:126
Site 701, 114A8:373, 398–399, 405
Site 702, 114A9:503–504, 515
Site 703, 114A10:499, 557, 559, 585
Site 704, 114A11:637, 664, 675, 684, 687; 12:802–
803; 114B5:99, 106; 9:197; 25:471–472; 26:479–
480; 28:522–523, 527; 29:553; 33:622, 625;
36:674
Site 708, 115A6:401, 420–422, 424; 115B25:474
Site 709, 115A7:465–489, 495; 115B25:474; 26:516;
37:678, 682
Site 710, 115A8:589, 614–617, 620; 115B25:474, 478;
26:516–518
Site 711, 115A9:675, 682–684, 687–688; 115B26:518;
37:678, 683; 38:700
Site 714, 115A11:847–848, 851, 858–859, 863–865,
868–869; 115B25:474
Site 715, 115A12:938
Site 716, 115A13:1005, 1013–1016
Site 720, 117A8:159–160, 163
Site 726, 117A14:448
Site 727, 117A15:474
Site 729, 117A17:551
Site 736, 119B18:354
Site 737, 119A6:173; 119B18:354
Site 738, 119B10:187, 208; 11:216; 14:277; 18:354–
355
Site 739, 119B6:82, 85
Site 741, 119A10:386, 395
Site 742, 119A11:422; 119B6:82, 84
Site 744, 119A13:482, 491, 503; 119B10:187, 189;
11:215; 18:355, 38:713
Site 745, 119A14:519; 119B12:227; 18:355
Site 746, 119A15:545, 551; 119B12:227; 18:355
Site 752, 121A6:138
Site 753, 121A7:181
Site 754, 121A8:215–216
Site 756, 121A10:287
Site 758, 121A12:372, 401–402, 424
Site 765, 123A4:84; 123B3:47
Sites 707–713 comparison, 115A9:675, 685
Sites 805 and 806 comparison, 130A8:347–354
sources, 105B45:849; 115A11:848; 119B6:113
spectral data, 164B31:319–322
spherulites, 105B10:142–143, 150
stable isotopes, 107B10:145; 13:191–197; 112A6:106–
107; 115B9:96; 164B13:139–146; 182B15:1–13
Straits of Florida, 101A5:80
stratigraphy, 114B23:411–412; 25:461; 115B25:470–
471; 138A(1)6:87; 143B5:89–97; 177B6:1–24
strontium, 115B34:642
strontium isotopes, 115B34:644; 144B25:447–457;
171B_B2:6
structure, 161B23:310
subdivisions, 101B12:183
subduction, 207A1:10
Sulu Sea, 124A6:96–97, 100; 11:241, 261–262
surface sediments, 138A(1)8:102
synrift sedimentation, 210B1:25–27
temperature effects, 103B29:504
ternary diagrams, 139B10:188; 184B12:17
terrigenous control, 117B24:438
textures, 168B11:139
thermodynamic modeling, 119B19:389–391
thickness, 103B4:40; 11:173, 187
thin sections, 144B13:258–261; 16:314–317
thrust sheets, 134B2:21–23, 26–28
time-depth variations, 154B12:190
time series plots of methane values, 164B10:105–107
Tithonian, 103B11:189
Tithonian–Valanginian interval, 103A1:12
Toba ash layer, 121B25:489
Tortonian/Messinian boundary, 161B43:546–548
total organic and inorganic carbon, 201B8:1–20
transform faults, 159A9:305–306
Trujillo Basin, 112A16:532, 556
turbidites, 123A4:247; 123B3:82; 5:114–116, 119–120,
124; 7:158, 164; 166B5:45–60
Tyrrhenian Sea, 107A7:290, 315–316
unstable composition, 101B12:190
uplifts, 117A14:449
upper Neogene, 138B14:321–336
upwelling sediments, 112B22:372
veins, 146B(1)7:137–148; 176A3:43; 176B9:6–7, 14;
209A6:65, 71
volcanic influence, 121B24:475, 477
volcaniclastics, 180B8:5
vs. age, 108B23:405; 114B25:468; 35:663; 36:674,
682; 184A1:73; 206B4:22–23
vs. Broken Ridge sediments, 121A12:401–402
vs. carbon content, 117A9:234
vs. clinoptilolite content, 119B11:218
vs. density, 114A11:672–673
vs. depth, 105A5:460, 492; 105B30:570; 108A10:747;
114A8:375; 11:633, 635; 114B36:675, 683;
37:687; 145A6:218; 150B20:365; 164B4:45;
5:54; 7:74; 8:84; 10:104; 13:144; 29:299;

- 30:308–310; 184A4:57, 78; 185A3:111–112;
194A8:54; 197A5:73; 206A3:255
- vs. deuterium, 164B2:23; 7:75
- vs. grain density, 114B35:662, 665; 36:672–673
- vs. impedance, 114B36:683
- vs. methane/(ethane + propane) ratio, 164B5:58
- vs. methane/ethane ratio, 164B7:75
- vs. methane volume, 164B10:108–110
- vs. molecular ratios of hydrocarbons, 164B2:23
- vs. opal, 198B14:6
- vs. oxygen isotopes, 164B29:297; 30:308
- vs. paleodepth, 138B42:836
- vs. pelagic sequences, 101B20:300
- vs. physical properties, 114A6:183–185; 114B36:674–
675
- vs. porosity, 114B35:661–662
- vs. reflectance, 198B14:6
- vs. successive increments in models, 164B7:77
- vs. volcanogenic sediment content, 121B20:433
- weight percent vs. depth, 111A4:257
- well-logging, 114B28:518; 127/128B(1)6:78–79;
188A3:65
- West Florida margin, 101B12:188–189
- X-ray diffraction data, 125B17:316; 160B33:427–428;
164B30:307; 194A4:22; 5:17–18; 7:25–27; 9:17;
201A8:34; 204A9:37
- Yaquina Basin, 112A15:441, 447
- See also* allochems; ankerite; aragonite; artinite; bicar-
bonates; biocalcarenite; biocalcirudite; bioclas-
tics; bioclasts; biopackstone; biowackestone;
boundstone; breunnerite; calcification; calcite;
calcite crystals; calcirudite; calciturbidite; cal-
cium carbonate; carbonate abundance index;
carbonate compensation depth; carbonate con-
tent; carbonate crusts; carbonate ion; carbon-
ate/noncarbonate ratio; carbonate particles;
carbonate platforms; carbonate ramps; carbon-
ate rhombs; carbonates; cements; chalk; clasts;
coalingite; desautelsite; dolomicrite; dolomi-
crosparite; dolomite; dolomite abundance in-
dex; dolomite crystals; dolomite rhombs;
dolomitization; dolostone; floatstone; franco-
lite; grainstone; haapalite; hydrotalcite-pyroau-
rite group; hydromagnesite;
hydroxycarbonates; ikaite; interglacial deposits;
intraclasts; iron carbonate; kutnohorite; lans-
fordite; lithoclasts; magnesite; manganosiderite;
magnesium carbonate; manganese carbonate;
manganosiderite; micrite; microspar; mi-
crosparite; nesquehonite; nodules; ooze; pack-
stone; packstone-chalk series; packstone-
floatstone series; pellets; peloids; reevesite; rho-
dochrosite; rudstone; siderite; sjogrenite min-
eral group; snowstone; sparite; sparite/micrite
boundary; spathite; sphaerosiderite; takovite;
terrigenous-carbonate interval; veins; wacke-
stone
- carbonates, authigenic
accretionary complexes, 204A11:7–9
biogenic constituents, 105B10:143–144
carbon cycling, 204A9:11
- carbon isotopes, 188B15:5–6
- Cretaceous turbidites, 123B5:120, 122, 125
- dissolved manganese, 181B5:1–5
- DSDP sites, 105B10:137
- fluoride, 204B16:8–9
- formation, 105B10:146–147
- fringe cement, 105B10:142–143, 147–148
- ghost structures, 105B10:144, 148, 151; 11:162
- Labrador Sea, 105B10:150
- laminated cements, 112A1:17, 19
- Lima Basin, 112A11:168; 19:808
- lithology, 204A3:4–8; 4:4; 6:3–4; 7:3–8; 9:4–5; 10:7–8;
11:6–7; 210A3:24
- methane-derived carbonates, 164B29:285–300
- mineralogy, 1105B10:139–141, 144; 164B30:305–306
- oxygen isotopes, 188B15:6
- Peru margin, 112A14:369; 17:602; 20:880
- petrography, 105B10:141–143
- photograph, 204A5:24; 6:32; 11:32
- photomicrograph, 164B29:290; 204A5:24; 210A3:226
- precipitation, 105B12:180
- radiolarian claystones, 123B1:31–32
- Salaverry Basin, 112A12:254–255
- sediments, 151B24:415–434; 188B15:1–15; 204B5:1–8
- shelf sediments, 112A1:17
- Site 682, 112A14:371–373
- Site 685, 112A17:604–605
- spacing vs. depth, 151B24:424, 426
- Trujillo Basin, 112A16:533–536
- Yaquina Basin, 112A15:441, 447–449
- zonation, 164B30:301–312
- carbonates, bathyal-pelagic, Oligocene, 160B32:410, 412
- carbonates, bioclastic, photograph, 180A12:84
- carbonates, biogenic
abundance and distribution, 127/128B(1)6:80, 82
calcareous nannofossils, 127/128B(1)10:166
carbon isotopes vs. depth, 127/128B(1)6:85–90
dissolution, 174A_AS:171
Galicia margin, 103B29:494
geochemistry, 166B9:109; 206B3:1–26
recrystallization, 166A9:254
titanium/aluminum ratio, 205B3:4
variations in flux, 117A11:325
volcaniclastics, 134B9:138–144
vs. silica production, 117A19:595
- carbonates, bulk, stable isotopes, 207B7:1–9
- carbonates, clay-rich, Site 765, 123A4:88
- carbonates, cool-water
bryozoans, 182B13:1–29
Cenozoic, 182A1:1–58; 182B1:13–15
deposition, 182B1:1–30
mineralogy, 182B11:1–14
seismic stratigraphy, 182A2:1–25
trace elements, 182B16:1–24
- carbonates, core, vs. depth, 185A4:112
- carbonates, deepwater
geochemistry, 101B20:282–297
lithology, 101B20:281–282, 287, 292, 295
microscopic characteristics, 101B20:285, 288–294,
298

- mineralogy, 101B20:281–289, 292, 297; 24:364–366, 370, 374, 378
oxygen isotopes, 101B20:299–300
petrography, 101B25:282, 284
carbonates, detrital, Owen Ridge, 117B10:215
carbonates, diagenetic
 composition, 127/128B(1)6:81–85; 146B(1)6:117–136
 disseminated rhombs, 127/128B(1)6:78
 formation, 123B41:786; 127/128B(1)6:83–90; 128A5:277
 geochemistry, 128A5:276–277
 isotopes, 127/128B(1)6:83
 layers, 127/128B(1)6:78
 lithology, 127/128B(2)78:1232–1233; 164A9:285
 mid-Cretaceous, 207B2:7
 mineralogy, 123B3:77
 nodules, 127/128B(1)6:78
 occurrence, 127/128B(1)6:78
 origin, 123A4:152
 oxygen isotopes, 127/128B(1)6:83–89
 paleoenvironment, 127/128B(1)6:93–95
 petrography, 127/128B(1)6:81
 phases, 127A6:267
 pore water, 127/128B(1)36:646
 preservation, 127A5:169
 provenance, 127/128B(1)9:148
 radiolarian claystones, 123B2:14–15, 17
 recrystallization, 128A5:318
 replacing quartz, 127/128B(1)9:147
 sandstone, 127/128B(1)9:141–143
 scanning electron microscopy, 127/128B(1)6:97–98
 Site 796, 127A6:266–267
 Site 798, 127/128B(1)40:701–702; 128A4:147–150
 Site 799, 127/128B(1)2:38; 6:75–98; 40:697, 701–702; 128A5:240, 260, 272–278, 292, 354
 stratigraphically controlled distribution, 127/128B(1)6:76
 textures, 127/128B(1)6:81
 thickness, 127/128B(1)6:77
 vs. depth, 164A5:74, 78, 80; 6:111; 7:181; 9:283
 well-logging, 127/128B(1)6:77
 X-ray diffraction data, 127/128B(1)6:79–80, 86–87
carbonates, fine-grained, petrography, 160B45:578–579
carbonates, iron-manganese
 Labrador Sea, 105B9:132; 10:140
 precipitation, 105B9:131–132; 10:147
carbonates, laminated, photomicrograph, 160B32:405
carbonates, lithified, Sulu Sea, 124B40:527–528, 530
carbonates, magnesium
 composition, 146B(1)6:125
 deposition, 145B25:391
carbonates, magnesium-rich, fluoride, 204B16:8–9
carbonates, manganese, isotopes, 123B5:121
carbonates, micritic, lithology, 187A7:3–5
carbonates, microcrystalline, microbial, 165B14:227–232
carbonates, neritic
 Argo Abyssal Plain, 123B6:140–142, 144–145
 Early Cretaceous, 160B32:404, 406, 408
 pore-system characteristics, 123B6:140–142
 shallow-water platforms, 160B32:404, 406, 408
carbonates, organic-rich, Gulf of Mexico, 101B25:381
carbonates, pedogenic, Site 740, 119B3:50
carbonates, pelagic
 Atlantis II Fracture Zone, 118B25:431
 bulk density, 130B36:607–622
 color bands, 130B27:454
 correlation with magnetic susceptibility, 165A8:382, 384
 deposition, 210A3:62
 dissolution, 130B29:491–508
 Eocene–Oligocene interval, 189B1:12
 gamma ray attenuation record, 130B37:624
 geochemical logs, 130B48:782, 786
 lithofacies, 160B32:408; 51:683
 Owen Ridge, 117A3:35
 photograph, 160B32:406
 photomicrograph, 160B32:407, 409; 45:593
 sedimentation, 130B3:46; 44:711–744
 sediments, 130B47:761–773
 Upper Cretaceous, 160B32:408
 whole-rock isotope ratios, 130B14:264–265
carbonates, pelagic biogenic
 alteration, 129B19:367, 369
 basalts, 129A3:144; 4:220
 diabases, 129B18:346
 hydrothermal deposits, 129B22:423
 Jurassic–Lower Cretaceous interval, 129B32:608
 mass accumulation rates, 129B31:588–589; 32:605
 mid-Cretaceous, 129B33:619
 sedimentary rocks, 129A2:45–46
 sediments and pore water, 129B14:280
 Site 801, 129A3:106, 111
 stratigraphy, 129A3:112
 tholeiitic basalts, 129B17:323
 volcaniclastics, 129B5:144
carbonates, platform
 biostratigraphy, 144A3:58–64; 8:298–299; 10:357, 359
 diagenesis, 144B46:789–817
 lithology, 144A6:214–220
 Misarah Island, 117A4:49
 paleoenvironment, 144A10:359–360
 Site 871, 144A3:47–55
 See also carbonate platforms
carbonates, poikilotopic, photomicrograph, 210A3:206
carbonates, postevaporite, sedimentation, 161B1:16
carbonates, sandy, photograph, 180A12:84
carbonates, secondary
 carbon isotopes, 115B9:98
 Celebes Sea, 124B17:233–236; 20:277
 closed-system diagenesis, 115B9:94, 99
 formation temperatures, 115B9:98
 geochemistry, 115B9:93–100
 mineralogy, 115B9:98
 oxygen isotopes, 115B9:99
 precipitation, 124B17:233
 sedimentation, 115B9:97, 99
 stable isotopes, 115B9:98
 strontium isotopes, 115B9:98
 Sulu Sea, 124B17:233–236
carbonates, shallow-water
 clay mineralogy, 144B26:459–468
 Cretaceous, 143B9:119–131

- Jurassic–Cretaceous interval, 103A1:7, 9
magnetostratigraphy, 143B26:399–403
Miocene, 160B33:419–436; 51:684–685
- carbonates, silicified
ooze, 138A(2)14:743
photograph, 138A(2)14:761
photomicrograph, 160B32:405
- carbonation, greenschist facies, 173A6:144–145
carbonatites, metasomatism, 144B30:513–533
carbonatization, seafloor alteration, 149B30:519–527
- Carboniferous
basement, 173A1:10
palynomorphs, 188B2:6
- carbonyl compounds, mass fragmentograms,
139B24:456
- carboxylic acid
Lima Basin C, 112B39:599
Site 681, 112B39:599
Site 798, 127/128B(1)38:674
Sites 798–799, 127/128B(1)38:669–671
Trujillo Basin, 112B39:599
See also bis-homohopanoic acid
- CARD-FISH
microbiology, 207B13:1–6
See also catalyzed reporter deposition–fluorescence in situ hybridization
- Carduoideae, Site 795, 127/128B(1)28:491
- Carlsbad twinning
basement units, 183A7:38
photomicrograph, 183A7:121
- Carnian, rifting phases, 210B1:6
- carotenes. *See* beta-carotene derivative
- carotenoids
anoxic environments, 112B37:570
Aptian and Valanginian, 198A9:27
astaxanthin, 112B37:570, 572
diagenesis, 112B37:568
di-oxo composition, 112B37:570
Lima Basin C, 112B37:571
Peru margin, 112A2:38; 112B37:567–570
Salaverry Basin, 112A12:268
sapropels, 160B24:298–302
Site 681, 112B37:568–569
structure, 112B37:569
Trujillo Basin, 112A16:547, 549, 557; 112B37:568–569, 572
See also canthaxanthin; zeaxanthin
- casing strings, jet-in test, 186A4:6–9, 73
- cassiterite, massive sulfides, 139B18:377
- Castlecliffian
biostratigraphy, 181A3:13; 4:10; 8:19; 9:12, 14
lithology, 181A1:14
- casts
lithology, 166A7:154–156
See also microload casts
- casts, foraminiferal, lithology, 183A4:5
- casts, glauconite, lithology, 183A4:11–12
- Casuarinaceae
pollen, 133B9:113; 10:116, 120; 188B3:15–16
Site 765, 123B20:422
Site 820, 133B9:107, 111
- Site 823, 133B10:118
Sites 815, 820, and 823, 133B9:113; 10:116, 120
- cataclasis
basement, 183A7:17, 27, 42–43
breccia, 173A7:175–177, 195
clasts, 173A8:256–258
deformation, 147B13:242–243; 20:369; 161B44:568
foliation, 173A7:202
gabbros, 176A1:18–22; 176B9:19
intensity vs. depth, 176A3:196
metamorphism, 147A3:74–76
microstructures, 146B(1)12:207
petrology, 149B36:583
photograph, 147A3:78–79; 153A4:167; 6:249
shear zones, 147A1:11
See also metagabbro, cataclastic
- cataclasites
alteration, 187A1:11; 13:8–9
basement, 173A1:10
breccia, 161B25:334–336, 340
clasts, 173A7:189–190
deformation, 209A10:18–19
diabases, 180A7:14
gabbros, 153B4:70–71
hydrothermal veins, 153A4:162–163
intensity vs. depth, 209A7:84
late magmatic intrusions (LMIs), 118B8:159
lithology, 187A13:4; 210B9:11–13
mineralogy, 118B8:178
overprinting, 173A4:199
petrography, 187A13:5
petrology, 180A11:4–5
photograph, 134A10:290; 147B13:241; 153A4:157; 153B4:70; 161B25:341; 173A7:188; 176A3:195
photomicrograph, 149B36:590; 161B25:342–344; 173A7:192; 176A1:65; 3:194; 180A7:44; 11:17; 180B3:28
remanent magnetization, 210A1:23–24
sediments, 134A10:281
serpentinization, 149B36:577–591; 173A7:192–193
shear zones, 147A3:82–83
structures, 180A8:24–26
See also protocataclasite; ultracataclasites
- cataclasites, basaltic, photograph, 187A13:32, 38
- cataclasites, foliated
lithology, 210A4:7
photograph, 147A3:81
- cataclasites, gabbro
lithology, 210A1:23
photomicrograph, 209A10:103
- cataclasites, green amphibole
photograph, 209A10:101
photomicrograph, 209A10:102
- cataclasites, serpentinite
breccia, 149B36:583
deformation, 173A7:193
- cataclasites, sheared gabbro, photomicrograph,
210B9:54
- cataclastic deformation. *See* deformation, cataclastic
cataclastic texture. *See* textures, cataclastic

- cataclastic zones
 downhole variations, 153A6:248–249
 fabrics, 153B8:148–149
 fractures, 148B16:242
 gabbros, 153A4:160–162; 7:269
 hydrothermal veins, 153B9:171–172
 intensity and orientation, 209A5:31
 orientation, 209A3:31–32
 photograph, 148A2:66; 153B8:149; 209A3:114
 structure, 148B16:235–236
 thin sections, 148A2:64
 vs. depth, 209A5:124, 140
 See also ultracataclastic zones
- catagenesis
 organic materials, 131B15:188–189
 sediments, 146B(1)26:392–394
- catalyzed reporter deposition–fluorescence in situ hybridization
 bacteria, 201B1:19; 2:7–8
 microbiology, 207B13:1–6
 See also CARD-FISH
- Category Z wallrock samples, petrology, 193B1:21, 28
- cathodoluminescence
 breccia, 144B47:847, 849–850, 852–853
 diabases, 148B6:84
 limestone, 144B47:847–848, 851, 854–859
 sediments, 169A4:179–181; 6:285–287
- cathodoluminescence, dolomite, 175B15:5–6
- cation exchange capacity (CEC)
 Atlantis Bank, 118B18:325–327
 basalts, 124B7:95
 clay, 175A9:255; 10:294
 clay alteration minerals, 127/128B(2)80:1282
 density, 156B10:139
 electrical conductivity, 148B21:298–299; 156B10:137–149
 Pacific Ocean W, 124B7:97, 102–103
 pore water, 150X_B24:322–323, 328–338
 porosity, 148B23:320–321
 Site 750, 120A9:312–313
 terrigenous component, 168B7:87–94
 vs. depth, 141B32:405; 150X_B24:335; 156B10:143
 vs. electrical resistivity, 118B18:327
 vs. water content, 156B10:139–142, 145
 See also ion exchange
- cation distribution, tetrahedral-site, chlorite, 147B14:274
- cations
 vs. anions, 134B8:119
 pore water, 195A4:131; 201B11:1–19
 sulfate, 193A3:287
 vs. depth, 141A10:408; 150X_B24:331–332
 vs. iron, 168B10:128
 See also ion exchange
- cations, total, vs. total anions, 141A10:408
- caucasinids
 Pleistocene, 133B26:371–374
 Site 821, 133B26:371–374
- cavities
 alteration, 192A3:29–32; 7:9; 192B6:3–4
 carbonates, 133B34:506
 ferrobasalt, 200B3:5
 limestone, 143B29:442, 444–445
 lithology, 187A13:6
 micrite, 143A8:283
 petrography, 200A4:31
 photograph, 144A6:219; 173A8:238–239
 photomicrograph, 192A6:80
 porosity, 143B29:453
 See also borings; dissolution; fractures
 cavities, bulbous, photograph, 183A6:121
 cavities, calcite-filled, photograph, 187A4:11
 cavities, carbonate-filled
 lithology, 200A3:11
 photograph, 200A3:65
 cavities, miarolitic
 alteration, 192A3:29–32; 7:9; 192B6:3–4
 basalts, 192A5:13; 6:18
 halos, 192B6:4–5
 lithology, 187A14:3; 192A1:25
 petrography, 187A8:4–6; 15:5–6
 photograph, 192A3:128–129; 5:79; 7:41
 photomicrograph, 187A8:15, 28–29; 12:17; 14:15; 15:25–26; 192A5:86–87; 6:80; 7:42–43; 193B6:7–8, 10
 cavity fillings
 alteration, 168A5:124
 biostratigraphy, 144A6:226–227
 carbonates, 165B14:229
 photomicrograph, 193B9:23; 205A1:61
 cavity fillings, limestone
 biostratigraphy, 144A8:298
 See also infillings
 Caytoniales, pollen, 183B3:8, 11
 CCD. *See* carbonate compensation depth
 CEC. *See* cation exchange capacity
 cedar
 sediments, 169S_A2:60
 See also juniper/cedar ratio
 cedar/pine ratio
 vs. age, 167B17:223, 225–226
 vs. depth, 167B17:220–222
- celadonite
 alteration, 168A4:70, 72, 75, 77; 5:123–133; 168B10:122, 127, 129, 134; 185A4:25–26; 192A1:20–21, 26; 3:29–32; 4:17–18; 5:16–17; 7:9; 192B6:3–4; 197A3:26–30; 5:19; 6:16; 206A3:71; 206B1:8
 alteration minerals, 129B19:367; 22:417–418; 135A(1)10:517–518; 11:596–597; 136A5:79; 136B10:124–125; 139A5:136
 basalts, 129B27:493; 168A4:65; 191A4:33–35
 basement, 206B8:2–3, 5–10
 chemical composition, 104B20:400, 402, 404; 129B5:142; 17:322, 339–343; 148B10:125; 11:160–162, 168–170
 diabases, 129B18:346
 dusky green halos, 192A6:18
 electron microprobe data, 148B10:124–126; 168B12:154–155
 fine-grained flows, 104A54:103
 formation, 104B20:406–408; 119B16:307, 313

- greenish zones, 168B10:130–131
halos, 192A4:19; 206A3:68–73
interpillow material, 185A3:116
isotopes, 104B20:404–405
Kerguelen-Heard Plateau S, 119B16:301
lithology, 183A4:5–6, 12; 5:38; 192A1:12; 193A4:14; 206A3:25
mineral chemistry, 152B34:421
Norwegian Sea, 104B24:442–443
oxygen isotopes, 123B9:197
petrography, 129B17:308
photograph, 183A4:41, 63–64; 185A3:87, 113, 114; 192A5:84; 197A5:74; 6:77; 206A3:232, 244
photomicrograph, 168A4:75; 5:132, 135; 168B10:136; 185A3:117; 191A4:107–108; 192A3:90, 118–121, 125–126, 129; 4:91–94, 98; 5:83, 87–88; 6:64, 76–79; 206A3:205–206, 225–226, 245–247, 279, 309; 206B9:4
Pigafetta Basin, 129B1:11, 13
pillow basalts, 168A6:172–174
radiometric age dating, 123B30:558–559; 43:805
reddish brown zone, 168B10:130
reduction, 168B10:131–133
replacement, 206B7:3
saponite/iron oxyhydroxide association, 123B9:197
secondary minerals, 148B11:153; 12:173; 35:444; 168B12:150–151; 183A1:14; 4:20–21
Site 747, 120A6:135
Site 765, 123B192
Site 801, 129B14:273
sketches, 168A5:131
Sulu Sea, 124A11:225, 261, 263; 26:361; 124B13:184, 186
transmission electron microscope data, 129B1:29
veins, 136B10:124; 192A5:17; 6:19; 206A3:71–72
vesicles, 185A4:24
volcanic rocks, 141B28:352
volcaniclastics, 180B8:9
vs. depth, 185A3:111; 192A3:122; 197A3:99, 101–102; 5:73; 206A3:255
X-ray diffraction data, 104B20:399–401; 168B10:123
See also saponite-celadonite-iron oxide mixtures; veins
- celadonite-nontronite mixtures
alteration, 148B12:173
secondary minerals, 148B11:153
celadonite-nontronite-saponite mixtures, secondary minerals, 148B11:153
celadonite-saponite mixtures, alteration, 148B12:173
celadonite-smectite mixtures, alteration, 152B35:426
celadonite spheres, photomicrograph, 192A4:94
celadonitic minerals
alteration, 148B12:173
veins, 148B11:155–156
celestine. *See* celestite
celestite
authigenesis, 154B34:495–498
deposition, 166A3:39–40
diagenesis, 166A8:191; 166B17:190–191, 194
dissolution, 166B9:106
Exuma Sound, 101A10:392, 394
lithology, 161A5:131; 166A8:178; 10:299
photograph, 166A6:81
Pigafetta Basin, 129B1:16
pore water, 115B34:631; 181A7:39; 182A1:29–30
precipitation, 101B24:375
saturation vs. age, 154B34:498
sediments, 129B15:286; 146B(2)16:225; 161B1:11; 166A6:95; 8:192; 10:317
Site 716, 115A13:1005, 1008
Site 765, 123B3:83
solubility, 166A11:365
Southern Ocean, 114B39:731
strontium, 115B35:654
vs. depth, 114B39:721; 166B17:193
cell lumens, photomicrograph, 180B10:24, 29
cell pressure, vs. time, 186B17:12
cell walls
macerals, 180B10:8
photomicrograph, 180B10:22–35
Celleporaria, lithology, 182A9:5
cells, bacterial, 138B26:601–602; 160B25:304–306; 161B34:434–436
cement fills, photograph, 143A9:316
cement stratigraphy, Miocene, 133B34:499–512
cementation
accretionary prisms, 141B1:5
alteration, 166A3:34; 200A3:22–27
basement units, 183A7:21–22
breccia, 161B25:334–335
clay, 190/196B6:13
carbonates, 133B20:287; 144B16:322–327; 146B(1)6:127–133; 151B24:429; 182B13:8
consolidation, 149B21:365; 204B8:9
Cretaceous, 143B9:124
current strength, 101B12:183
deep-marine spar cements, 101B17:247–248
deformation bands, 141A7:195–196
deposition, 166A2:14–18; 3:36
diagenesis, 114B35:662; 141B29:367–368; 144B46:789–800; 160B33:424–427; 45:581, 583
environment, 141B11:160–161
fluid flow, 141B25:318
hydraulic conductivity, 141B32:403
image facies, 166B7:78–81
isotopes, 101B17:250–251
limestone, 143A7:207; 143B14:239; 31:523; 144B18:366–380
lithofacies, 144B14:276, 283–284; 45:780
lithology, 134A11:328–331; 146A(1)4:62–67; 7:308–309; 149A7:221; 150A7:147; 151A7:170; 152A6:62; 154A4:60; 166A8:178–179; 10:299–300; 167A(1)14:395; 169A5:209; 190/196B12:8; 194A4:10–11; 198A3:17–18; 199A12:12; 210A3:29, 48–52
microbial origin, 165B14:227–232
oceanic anoxic events, 198B16:6
ooze, 201B13:5–6
outer perimeter ridge, 144B15:296–300
paleoenvironment, 144B15:305–307
permeability, 135B49:801
petrography, 150X_B3:27–28, 35, 39

- phillipsite, 124B13:188
- photograph, 141A10:397–398; 144A10:352;
 144B15:308; 150X_B3:46; 164A7:253, 285;
 210A3:235
- photomicrograph, 194A4:41; 5:41; 201B13:33–34
- physical properties, 119A8:326
- pore water, 165A5:260
- porosity, 114B35:661; 131B20:257–259; 143B13:210–
 211; 146B(1)20:331–334
- recrystallization, 182A10:15–16; 182B12:4–5
- reflectivity, 156B9:134
- sedimentation, 149A7:258–259
- sediments, 129B3:95; 14:267, 275; 141A10:361;
 149B20:372; 164A8:249; 166A11:365;
 169A5:219, 221; 171B_A4:152; 205A5:18
- seismic reflectors, 133B44:658
- silica, 130A9:391; 10:523
- Site 700, 114B13:295; 34:654
- smectite, 124B13:188
- sparry calcite, 160B37:474
- Straits of Florida, 101A5:60
- temperature, 159B8:74–76
- velocity and degree, 119A6:197
- volcanic pebbles, 161B44:568
- well-logging, 133A(1)17:797
- X-ray imaging, 210B6:5
- See also* diagenesis
- cementation, carbonate
 - Lima Basin, 112A6:95, 97
 - Peru margin, 112A6:97
 - Prydz Bay, 119A8:303, 381, 394
- cementation, densification, accretionary prism,
 171A_B3:10
- cementation, incipient, sediments, 141A8:280
- cementation, postdepositional, porosity, 141A6:124
- cementation, seafloor, periplatform sediments,
 115B35:655–656
- cemented layers, dewatering, 146B(1)15:265–267, 273
- cements
 - alteration, 139B14:313–328; 192A4:18
 - apatite, 133B34:502
 - carbonates, 164A8:271–272; 164B29:287–289
 - diagenesis, 143B13:198–199
 - generations, 112B7:99
 - geochemistry, 143B13:208–209
 - isotopes, 159B8:73–76
 - lithology, 169A4:166–167
 - photograph, 143B13:226
 - porosity, 143B29:454
 - precipitation, 133B36:531–533
 - scanning electron microscopy, 164B29:291
 - sediments, 141B11:156–160
 - Site 699, 114B37:695, 698, 703–704
 - stratigraphy, 112B7:95
 - volcaniclastic sand, 180B7:7
 - vs. depth, 180B7:30–34, 39–42
 - See also* carbonate cement; calcite cement; porosity/
 cement relationship
- cements, analcime, photomicrograph, 192A4:98
- cements, anhydrite, photograph, 193A4:170
- cements, anhydrite-quartz-pyrite, photograph,
 193A4:131
- cements, authigenic
 - diagenesis, 112B7:100–101, 103
 - formation, 112B7:95–96
 - morphological considerations, 112B7:101
 - Peru margin, 112B7:100–101, 103
 - Trujillo Basin, 112B7:101
- cements, botryoidal, iron oxides, 133B36:531
- cements, calcite
 - lithology, 159A7:231; 163A5:52; 163X_A6:20;
 172A3:38; 174AXS_A5:38–41; 183A7:7–8;
 194A5:4; 197A5:5–6
 - petrography, 200A4:35–36
 - photograph, 144B14:291–294; 159A7:231;
 160A8:249; 173A8:233, 239; 183A5:130; 8:59;
 185A4:98–100; 200A1:49; 4:101; 207A6:49
 - photomicrograph, 159A6:171; 182B12:8; 192A4:98;
 194A4:46, 55; 201B13:27–28
 - thin section, 163X_A6:37
- cements, calcite spar
 - lithology, 180A9:19; 12:14, 18–21; 210B9:8–9, 49–52
 - photograph, 210A3:172, 196, 227–229, 236; 4:17–18
 - photomicrograph, 180A5:48–49, 51; 8:52–56; 9:82,
 84; 10:25, 41; 12:81; 180B7:51–52; 210B9:54–55
 - sandstone, 180B7:8–10
- cements, carbonate
 - burial diagenesis, 115B35:656
 - calcium enrichment, 112B7:100
 - carbon isotopes, 112B7:101–103; 115B35:656
 - composition, 112B7:107
 - geometry, 141B11:159
 - laminations, 112B7:101
 - lithology, 181A9:6–7; 197A3:14
 - methane oxidation, 112B7:106
 - oxygen isotopes, 112B7:102–103
 - Peru margin, 112B7:100–103
 - photograph, 164A8:253; 185A3:87; 197A4:46
 - Pisco Basin W, 112B7:102–103
 - pore water chemistry, 112B7:103
 - sediments, 141B11:158–159
 - Site 681, 112B7:100
 - Site 739, 119B6:128
 - Site 786, 125A14:316
 - Trujillo Basin, 112B7:102–103
 - truncation relationships, 112B7:101
 - vs. depth, 146A(1)7:318
 - Yaquina Basin, 112B7:102–103
- cements, carbonate, microcrystalline, 210B2:22
- cements, clay, sediments, 141B11:156–158
- cements, columnar, diagenesis, 144B46:793, 798–799,
 808–811
- cements, dolomite
 - lithology, 174A_A3:56
 - oxygen-isotope signal, 112B7:107
 - photograph, 174A_A3:56; 194A8:34
 - photomicrograph, 201B13:23, 27–28
- cements, exotic
 - diagenetic environment, 112B7:95, 104–107
 - fluid sources, 112B7:103–104
 - formation, 112B7:95–96

hypersaline-fluid effect, 112B7:106
 low-temperature basalt alteration, 112B7:105
 oxygen isotopes, 112B7:105
 Peru Continental Basin, 112B7:104
 Peru margin, 112B7:105
 recharging meteoric waters, 112B7:104
 seafloor venting, 112B7:106
 Trujillo Basin, 112B7:104
 Yaquina Basin, 112B7:104
 cements, fibrous, recrystallization, 133B21:295–296
 cements, glauconite, photograph, 152A11:203
 cements, goethitic, photograph, 144B19:398
 cements, granular or blocky, Miocene, 133B34:502
 cements, iron, paleoenvironment, 174AX_A1:18
 cements, jasperoidal silica breccia, 193A4:130
 cements, marine-phreatic, diagenesis, 143B13:199
 cements, meteoric-phreatic, diagenesis, 143B13:199
 cements, microstalactitic, photograph, 144B16:334
 cements, peloidal micritic, photomicrograph, 164A8:255
 cements, phosphatic
 fringing texture, 112B8:130
 Peru margin, 112B8:122–123
 Pisco Basin W, 112B8:131
 pore water chemistry, 112B8:127, 130
 Site 680, 112B8:126, 131
 cements, poikilotopic carbonate
 photomicrograph, 210B2:21
 provenance, 210B2:4–5
 cements, pore-lining granular, Miocene, 133B34:501–502
 cements, pyramidal, diagenesis, 144B46:794, 808–811
 cements, pyrite, photograph, 193A4:170
 cements, quartz, photograph, 193A4:170
 cements, radiaxial
 diagenesis, 144B46:792, 797, 799, 808–811
 isopachous crust, 144B46:791
 cements, rim isopachous fibrous, 133B34:500–501
 cements, saponite, photograph, 185A3:84, 114
 cements, scalenohedral crystals, diagenesis, 143B13:199
 cements, shallow-burial, diagenesis, 143B13:199
 cements, siliceous, photograph, 185A3:81–82
 cements, spar
 calcite, 203A3:8–9
 deep-marine sediments, 101B17:250–251, 18:257
 distinguishing meteoric-connate from deep-marine
 sediments, 101B18:259
 photomicrograph, 173A8:233; 203A3:40; 205A5:55
 cements, syntaxial
 diagenesis, 144B46:795, 811
 limestone, 144B23:431–433
 photograph, 144B16:333, 434
 stable isotopes, 144B46:811
 vs. carbon and oxygen isotopes, 144B13:265
 vs. depth, 144B13:262; 23:432, 435; 24:440–441;
 46:803, 805
 cements, vadose, tropical facies, 133B21:299–300
 cements, zeolites
 lithology, 195A4:13–14
 photograph, 195A4:80
 photomicrograph, 192A4:98
 sediments, 141B11:158

Cenomanian
 benthic foraminifers, 174AXS_A5:45; 6:52, 101;
 198A9:22
 biostratigraphy, 143B2:20–21; 159B35:489;
 171B_A6:263–280; 171B_B3:1–12;
 174AXS_A1:36; 4:29; 182A1:17; 198A1:57;
 210A3:81, 86; 210B13:8–10
 black shale, 207B1:6
 calcareous nannofossils, 159B26:325–326; 198A9:19;
 198B5:5
 carbonate compensation depth, 159B11:105
 correlation, 171B_B9:13
 cyclostratigraphy, 207B2:12, 25
 deformation, 159B2:18
 dinocysts, 183B3:10–13; 189B5:26
 drilling, 182A1:16
 foraminifers, 183B1:21–22; 207A4:15; 5:17; 8:18
 hiatuses, 160B40:522
 lithology, 129B14:268; 130A9:387–390; 143A2:24–26;
 9:306–310; 171B_A4:112–116; 6:257–258;
 174AXS_A1:27–29, 32–35, 58; 4:15–20; 5:38–42;
 182A4:10; 183A1:20, 34; 192A1:18–21;
 198A9:10–11; 207A4:8–9; 6:8–9; 210A3:41–58
 magnetic polarity, 143B27:413–414
 magnetostratigraphy, 171B_B9:10
 mass accumulation rates, 171B_A6:274
 nannofossils, 174AXS_A1:44; 6:55; 207A5:14; 6:15;
 7:13; 8:14
 oceanic anoxic events, 171B_B(introduction):3–4
 paleoenvironment, 174AXS_A4:10–12; 210B13:20–21
 paleolatitude, 171B_A6:280, 282
 paleomagnetism, 129B23:436; 143B27:408, 411–417
 paleotemperature, 159B7:64
 periplatform deposits, 159B11:102–103
 Pigafetta Basin, 129B3:88
 planktonic foraminifers, 174AXS_A5:44; 6:50;
 198A9:21
 pollen, 174AXS_A5:48; 6:56–57
 postrift sedimentation, 210B1:27–28
 quartz-feldspar-lithic fragments system, 210B2:26
 quartz-potassium feldspar-plagioclase system,
 210B2:29
 reduction, 198A9:16
 Rock-Eval pyrolysis data, 171B_A6:285
 sedimentation, 210A1:12; 3:64
 sediments, 143B37:587–588
 seismic stratigraphy, 149B39:623–624
 Site 800, 129A2:33
 Sites 1276 and 398 comparison, 210A1:27
 spreading centers, 159B7:65–66
 stratigraphy, 160B32:413; 174AXS_A1:4; 4:40; 5:62;
 8:5
 tectonic models, 160B54:769
 thermal events, 159B11:105
 transform faults, 159A1:12
 transmission light microscopy, 207B2:30
 volcanic ash, 192A1:6
 volcanism, 143B17:282–283; 144B45:771
 zoning, 160B30:384
 See also Albian/Cenomanian boundary; Albian–
 Cenomanian Elaterates Province; Aptian–

- Cenomanian interval; Cenomanian/Campanian boundary; Cenomanian–Campanian interval; Cenomanian/Maastrichtian boundary; Cenomanian/Turonian boundary; Cenomanian/Turonian Boundary Event; Coniacian/basal Cenomanian unconformity; Coniacian–Cenomanian interval; Early Cretaceous–Cenomanian Trisaccates Province; mid-Cenomanian Event; Santonian–Cenomanian Interval
- Cenomanian, lower
limestone, 198A9:15
lithology, 174AXS_A6:46–47
nannofossils, 183A6:15; 198B7:10
- Cenomanian, upper
age vs. depth, 198A9:75
lithology, 207A8:8–9
nannofossils, 192A5:8
ocean anoxic events, 174AXS_A(summary):2
paleomagnetic units, 192A5:21, 119
pollen, 174AXS_A1:45
sedimentation, 210A3:63–64
- Cenomanian/Campanian boundary, isotope stratigraphy, 143B7:108
- Cenomanian–Campanian interval
hiatuses, 192A3:12
lithology, 129A3:99, 101
- Cenomanian–Coniacian interval, lithology, 207A7:9–10
- Cenomanian (basal)/Coniacian unconformity, sedimentation rates, 198A8:19
- Cenomanian/Maastrichtian boundary
biostratigraphy, 129B8:183
seismic reflectors, 171B_A6:294
- Cenomanian–Maastrichtian interval, magnetostratigraphy, 207A4:19
- Cenomanian–Santonian interval, black shale, 207A4:24–26
- Cenomanian–Turonian anoxic boundary event
biostratigraphy, 159B33:434–376; 183A6:16, 20; 183B3:3–4
black shale, 103B35:631
carbon isotopes, 103B35:599–602
clay minerals, 103B35:597, 627–632
Galicia margin W, 103B35:587–588, 593
lithology, 103B35:588, 590, 593–599
paleoenvironment, 103B35:614–615; 159B35:488
Rock-Eval pyrolysis, 103B35:599–600
sedimentation rates, 103B35:615
sediments, 149B13:299
Site 765, 123A4:107, 111
trace metals, 103B35:600–601, 603–605, 623
- Cenomanian/Turonian boundary
biostratigraphy, 123B18:383; 144B8:165; 171B_B3:3; 174AX_A1:6, 38, 42; 174AXS_A1:44; 207A7:17; 210A3:79
carbon isotopes, 174AXS_A(summary):10–11
deposition, 143B37:591
laminated shale, 123A4:107
lithology, 183A1:20; 210A3:39
ocean anoxic events, 174AXS_A(summary):2, 10–11; 207A1:5; 207B1:6–7
oxygen isotopes, 174AXS_A(summary):9–10
- paleoclimatology, 171B_B(introduction):4
photograph, 171B_A4:110
sedimentation, 143B2:22–23; 210B1:28–31
sediments, 143B37:588
seismic stratigraphy, 123A15:341; 132B1:5–8
Site 765, 123B38:727
Site 766, 123A5:280; 123B38:733
stratigraphy, 143B6:103
thermal events, 159B11:105
weathering, 183A6:10
well-logging, 198A3:111
- Cenomanian–Turonian interval
biostratigraphy, 174AX_A1:38; 174AXS_A5:90; 210B13:44
lithology, 174AXS_A(summary):31; 6:42–46
plate tectonics, 160B54:770
- Cenozoic
age vs. depth, 174AXS_A6:82
arc and forearc evolution, 180A3:4–5
benthic foraminifers, 174AXS_A5:81–82; 198A4:82–83
benthic oxygen isotopes, 199A1:56
biomagnetostratigraphy, 189B10:1–57
biostratigraphy, 131B1:3–13; 132A2:15–36; 4:83–89; 134B10:179–245; 12:265–291; 14:309–317; 138B8:129–162; 143A6:125–133; 149A4:62–66; 149B45:694–696; 151B6:101–124; 8:153–167; 35:627–644; 152B12:161–189; 157B9:97–114; 173A6:117–120; 173B11:1–73; 177A1:11; 181B1:13–19; 182A1:10–12; 183A4:9; 189B1:4; 192A3:22; 6:12–13; 202A1:14–16
biserial planktonic foraminifers, 130B12:231–244
calcareous nannofossils, 130B48:801–809; 143B33:567–570; 150A6:83–85; 174A_B5:1–16; 174AX_A1:38–39; 174AXS_A1:36–40; 6:102; 178B28:1–22; 198B2:1–44
carbonate compensation depth, 145B38:587
carbonate platforms, 133B52:763–770
chronostratigraphy, 133B20:281–289
clay mineralogy, 150B23:411–422; 150X_B3:49–57
clays, 152B4:39–49
coastal plains, 150X_B27:361–373
compression, 149B1:13
continental geology, 141A3:23–31
cool-water carbonates, 182A1:1–58; 182B1:1–30; 16:1–24
correlation, 135A(1)1:12
cyclostratigraphy, 154A9:422, 424; 208A1:11
deposition, 134B29:522–525; 145A6:272–273; 150A8:243–244; 10:344; 157A5:113–114; 189A1:6–10
diatoms, 151B29:483–492
dolomite, 175B15:1–17
drilling, 182A1:16–19
evolution, 134B2:26; 181B1:1–111
explosive volcanism, 165B20:312
felsic magmas, 183A1:37–38
foraminifers, 149B6:165–192; 150A6:81; 150B5:65–95; 183A3:10–11
gateway history, 189B1:1–37
geochronology, 134B6:89–95; 22:413–414

geology, 150A1:7; 188A1:9; 189A1:1–98
 high-resolution mineralogy, 199B11:1–23
 ice sheets, 178A2:1–44
 ichthyoliths, 145B26:401
 isotope stratigraphy, 152B17:233–241
 lithofacies, 149B40:741–754
 lithology, 133A(1)1:13; 134A8:165; 9:250; 134B1:7–8;
 4:59–69; 5:79–89; 149A8:264; 149B45:687–688,
 691–693; 152B3:29–36; 154A9:421–422;
 154B31:465–473; 182A1:9–10; 185A3:6;
 189A1:32–33; 194A1:41–44
 magnetostratigraphy, 130B32:547–559; 134B26:457–
 474; 149B16:315–334; 202A1:14–16
 mass transport deposits, 150B11:189–228
 nannofossils, 174AXS_A5:45–46; 6:52–55; 183A6:12–
 13; 210A3:332–334
 ocean circulation, 189A1:57–60
 organic carbon, 152B24:283–292
 ostracodes, 143B4:75–86
 oxygen isotopes, 202B3:10
 Pacific Ocean N, 145A1:5–7
 paleoceanography, 132B1:3–13; 151B1:13–18;
 36:645–658; 154A9:440–441; 154B34:491–505;
 181B1:6–7; 182A1:37–38; 208A1:32–33
 paleoclimatology, 145B15:231–245; 151B31:515–567;
 162A1:14–15; 165A1:8–10; 177B(synthesis):39;
 181B1:5; 188A1:2–5; 198B1:1–47; 199B1:2–3;
 207A1:64; 208B1:1–55
 paleoenvironment, 151A1:18–19; 22:397–420;
 152B5:51–52; 189B1:4
 paleogeography, 165B9:173
 paleolatitude, 165B9:149–173
 paleomagnetic intensity, 138B38:779–795;
 143B38:593–594
 palynomorphs, 152B16:221–231; 188B3:1–43
 passive margins, 159B2:20
 phytoliths, 188B5:1–12
 planktonic foraminifers, 159B34:445–479;
 174AXS_A5:77–80; 6:48–49; 183A6:17–19
 plate tectonics, 130B43:697–709; 134B23:417–429;
 35:611–615
 radiolarians, 143B34:571–574; 150B3:37–51;
 199B3:1–76; 200B4:1–25
 reactivation of Variscan faults, 149B1:14–15
 sand, 149B11:274–275
 sea-surface temperature, 161B39:489–503
 seawater chemical evolution, 208B1:19–20
 sedimentary bedding, 135B20:323–326
 sedimentary succession, 135B52:841
 sedimentation, 130B28:471–490; 150A10:326–328;
 173A4:100–102; 185A1:53; 188A1:9–11
 sediments, 130B48:775–788; 133B57:795–817;
 149A4:111–112; 157A4:68–70; 177A1:1–67;
 182B14:1–17; 194A1:36–40
 seismic stratigraphy, 145B29:437–453; 182A2:1–25;
 194A1:10–11
 sequence boundaries, 174A_A3:95–96
 Site 803, 130A5:107–131
 sponge spicules, 152B13:191–199
 stratigraphy, 131B26:313–330; 143B31:527;
 145A5:177–178; 145B13:205–217;

174AXS_A(summary):1–38; 178A1:1–2;
 182A1:3–5; 184A1:50; 185A1:9–10
 tectonics, 134B2:20–21, 29–30; 24:431–444;
 135B12:173–188; 146A(1)10:400; 184A1:4
 thin-skin tectonics, 149B1:13–14
 timescale, 154A28:438–440
 transform faults, 159A1:10–11
 triple junctions, 141A3:23–31
 turbidites, 133B27:379–445
 unconformities, 135B53:846; 150A7:161
 volcanic ash, 198B18:1–26
 volcanic history, 151A1:11–16
 volcanic rocks, 134B20:396–399
 volcanism, 135B25:433–455
 zonation, 130A2:27–30
See also Campanian–Holocene interval; Cretaceous/
 Tertiary boundary; Eocene; Holocene; Meso-
 zoic–Cenozoic interval; Miocene; Neogene; Oli-
 gocene; Paleocene; Paleogene; Pleistocene;
 Pliocene; Quaternary; Tertiary
 Cenozoic, lower
 apparent polar wander paths, 129B26:480
 biostratigraphy, 129B12:229–248
 diagenesis, 210B8:1–63
 geochemistry, 129B16:295–302
 geology, 171B_A1:5–10
 lithology, 129A3:99; 129B6:154
 paleoceanography, 199B1:1–39
 Pigafetta Basin, 129B1:22
 redeposited sequence, 129B4:119
 sediments, 129B1:3–30
 stratigraphy, 129A4:171–242; 208A1:1–112
 Cenozoic, upper
 atmospheric circulation, 138B28:615–625
 biostratigraphy, 138B25:555–597; 144A4:119–125;
 5:164–177; 144B4:87–96; 50:887–893;
 149B10:241–265; 159B37:509–523; 175B14:1–
 26; 185B4:15; 206B2:1–25
 carbonate platforms, 144B52:929–932
 clay mineralogy, 133B30:461–470
 diatom-chalk photograph, 145A6:223, 225
 ice rafting, 145B11:179–194
 lithology, 145A6:217–218
 magnetostratigraphy, 145B34:491–521
 organic matter, 151B23:407–414
 paleobiogeography, 133B33:489–498; 144B50:887–
 893
 paleoceanography, 144B43:742–743, 745–769
 paleoclimatology, 202B1:48
 paleoenvironment, 151B22:391–405
 productivity, 175B18:1–24
 sedimentation, 144B41:675–689
See also Haweran; Neogene
 cephalopods, Site 692, 113B28:445
 ceratoliths
 abundance, 160B8:104
 Bahamas, 101B3:75
 biohorizons, 167B1:18, 21, 28
 Indian Ocean W equatorial, 115B15:216
 Pacific Ocean E, 138B12:279

cerium

anomalies, 119B39:726; 123B8:179, 181; 124B21:301, 305–307; 125B7:121, 128–130
basalts, 135B26:475–476; 136B9:112; 141B27:339; 180A12:27; 183A5:34–35; 210B9:16–17
breccia clasts, 173A7:195
calcite, 168B10:126
carbonates, 115B39:712–713; 168B11:139, 141
Cretaceous/Tertiary boundary, 121B20:426; 130B45:748
diabases, 180A6:36
distribution, 127/128B(1)39:692
felsic volcanic rocks, 183A5:36–37
fine-grained sediments, 210B8:15
gabbros, 179B(synthesis):15
geochemistry, 195B1:11
hydrogenous manganese precipitation, 127/128B(1)42:726–727
hydrothermal sediments, 199B15:3
Indian Ocean W equatorial, 115B39:710–713
lava, 183A1:14
lithology, 183A4:19; 185B1:13
lower Campanian–upper Paleocene, 210B8:10
mafic rocks, 125B24:406
metasedimentary rocks, 152B10:136
oxic conditions, 115B39:712–713
oxidation, 191B4:5–7
Paleocene/Eocene boundary, 199B16:3
pore water, 193B4:5
quartz gabbro, 180A11:6
sediments, 129B2:51, 55; 136B6:82; 167B19:236; 170A3:77–78; 4:140–141; 178A4:23; 178B4:1–12; 180B6:5, 10–11, 14, 16; 191B1:4; 4:1–24
siliceous deposits, 129B2:42
Site 784, 125A12:280–281
Site 794, 128A3:101
Site 795, 127/128B(1)41:707
Site 798, 127/128B(2)86:1368–1369
Site 799, 127/128B(1)6:90–91
Sulu Sea, 124A11:264–265
vs. alteration, 148B4:49
vs. barium, 142B2:16
vs. cerium/ytterbium ratio, 179B(synthesis):79
vs. depth, 131B28:350, 358; 139A6:224, 226; 157B27:454; 167B19:237; 170A3:82–83; 171B_B4:10; 179B(synthesis):81, 104; 180A6:132; 183A4:59; 199B15:5; 16:6; 210B8:58
vs. iron oxide/magnesium oxide ratio, 180A12:95
vs. lanthanum, 161B27:366
vs. magnesium oxide, 144B29:503; 163B7:68
vs. manganese, 199B14:16
vs. neodymium, 144B44:758
vs. niobium, 183A1:75; 4:60; 5:123
vs. pH, 115B39:712
vs. silica, 134B19:385
vs. ytterbium, 179B(synthesis):79
vs. yttrium, 135A(1)11:658
vs. zirconium, 129B18:357; 157A7:363; 8:418; 157B13:192
X-ray fluorescence data, 152B35:427

See also barium/cerium ratio; lead/cerium ratio; phosphorus/cerium ratio
cerium, chondrite-normalized, vs. chondrite-normalized lanthanum, 153B10:234
cerium/aluminum ratio, sediments, 129B2:52, 55
cerium anomaly
 diagenetic fractionation, 127/128B(1)39:692–693
 dolomite, 127/128B(1)6:92
 hydrogenous precipitation, 127/128B(1)42:731
 hydrothermal activity, 127/128B(1)42:719, 729
 light rare earths, 127/128B(1)39:693–694
 lithology, 207B8:8, 27
 oxygenation conditions, 127/128B(1)39:692
 sediment contamination, 127/128B(2)49:815
 Site 794, 127/128B(1)39:682, 693
 Site 795, 127/128B(1)39:683
 Site 797, 127/128B(1)39:688–691, 693
 Site 798, 127/128B(1)42:726, 735
 Site 799, 127/128B(1)6:90–91; 42:729, 736
 vs. europium anomaly, 127/128B(1)42:737
 vs. lanthanum/ytterbium ratio, 127/128B(1)39:693–694; 42:737
 vs. manganese, 127/128B(1)42:737
cerium/cerium ratio
 bulk sediments, 199B14:4, 15
 vesicles, 127A5:217
 volcanic glass alteration, 127/128B(2)87:1375
cerium/chromium ratio, vs. cobalt/hafnium ratio, 154B31:470
cerium/holmium ratio, vs. age, 135B52:840
cerium/lanthanum ratio
 Cretaceous/Tertiary boundary, 119B39:726
 sediments, 191B4:5
 vs. aluminum oxide/(aluminum oxide + iron oxide) ratio, 191B1:4; 4:5–7, 19
 vs. depth, 191B4:21
 vs. lanthanum/ytterbium ratio, 134B9:170
 vs. titanium oxide, 139B6:88
cerium/niobium ratio
 basalts, 183A5:35; 9:28–29
 continental component, 183A4:20
 lava, 183A1:15, 19
 lithology, 183A1:32–33
 vs. depth, 183A5:122
 vs. potassium/niobium ratio, 131A6:198
 vs. zirconium/yttrium ratio, 183A1:72; 4:61; 5:125
cerium oxide
 vs. calcium oxide, 157B18:320
 vs. titanium oxide, 157B18:320
cerium/ytterbium ratio
 gabbros, 179B(synthesis):15
 mafic and ultramafic rocks, 153B10:184–185, 188
 vs. cerium, 179B(synthesis):79
 vs. chromium, 153B13:283
 vs. ytterbium, 179B(synthesis):79
cerium/yttrium ratio
 mid-ocean-ridge basalts, 131A6:157
 Site 786, 125B12:230
 volcanic rocks, 152B28:342
 vs. silica, 152B28:343
 vs. titanium oxide, 139B6:88

- vs. zirconium/niobium ratio, 152B27:322–324
- cerium/zirconium ratio
 - vs. barium/zirconium ratio, 141B27:345
 - vs. neodymium isotopes, 125B13:255
- cesium
 - alteration, 115B8:88; 187B1:8
 - basalts, 130B1:7–10, 14–20
 - calcite-free data, 119B39:728–729
 - clay mineralogy, 169B6:7, 9
 - clay source indicator, 121B19:417–418
 - Cretaceous/Tertiary boundary, 121B19:421; 130B45:747–748
 - hydrothermal fluids, 139B20:401
 - jasperoids, 193B1:47; 9:5
 - in volcanic rocks, 183B17:2
 - lava, 206B1:7
 - mineral separates, 158B2:32
 - pore fluids and sediments, 205B5:5–7, 21
 - scandium-normalized distribution, 119B39:725
 - serpentine mud, 195B1:8; 4:8
 - Site 765, 123A4:161
 - Site 795, 127/128B(1)41:707
 - Site 798, 127/128B(2)86:1368–1369
 - Site 799, 127/128B(1)42:724
 - vs. barium, 153B14:302
 - vs. depth, 205B5:12, 14–15; 206B6:6
 - vs. loss on ignition, 148B10:141
 - vs. magnesium, 139B20:403
 - vs. potassium oxide, 148B10:141
 - See also iridium/cesium ratio; iron/cesium ratio; lanthanum/cesium ratio; rubidium/cesium ratio
- cesium/lead ratio
 - basalts, 135B26:475
 - intersite differences, 121B32:637
 - lava, 135B24:410
 - vs. lanthanum content, 121B32:640
- cesium/samarium ratio, lava, 135B24:410
- cesium/sodium ratio, vs. arsenic/tin ratio, 154B31:470
- cesium/yttrium ratio, volcanic ash layers, 121A13:474
- cetacean bones, geology, 188A1:9
- chabazite
 - alkaline basalts, 144B28:487
 - alteration, 152B35:426; 183B15:8
 - Kerguelen Plateau central, 120B(1)4:64, 66
 - lava flows, 152A9:134–135
 - occurrence, 152B34:418
 - phase equilibria, 152B34:419–420
 - photograph, 144A4:134
 - photomicrograph, 192A5:91; 195A4:92
 - secondary minerals, 148A3:141; 148B14:208
 - sediments, 195A1:20
 - spectra, 134B9:146
 - veins, 163A3:28; 192A5:17
 - volcaniclastics, 134B9:137–144
 - X-ray diffraction data, 134B8:114–116, 119; 195A4:16–17
- chabazite, sodium
 - scanning electron microscopy, 129B4:135
 - photograph, 129B4:122
 - Site 802, 129B4:125
- chadacrysts
 - mineral inclusions, 176A3:20; 176B4:8
 - photomicrograph, 176B4:29–30
- chadacrysts, plagioclase
 - Hess Deep, 147A3:58
 - photograph, 147B2:36; 153A6:230
- chaetetids
 - abundance in carbonates, 144B9:180–186
 - floatstone, 103B6:79
 - Site 639, 103B6:80–81; 7:94–95, 103
- Chaetoceros*
 - abundance, 178A7:42
 - backscattered electron image, 178B18:13–14
 - marine signal, 175B11:9
 - mass accumulation rates vs. age, 175B11:23
 - percentage in cores, 178B7:25–26
 - photograph, 178A7:36, 40
 - vs. age, 175B18:22
 - vs. depth, 169S_B1:7
- chain length, vs. alkenone sea-surface temperature, 160B22:279–280
- chain reactions, polymerase
 - alteration, 148B14:209
 - microbial activity, 148B14:211
- chalcedony
 - authigenesis, 198B16:4–5
 - basement secondary mineral geochemistry, 206B8:3
 - Cagayan Ridge, 124A12:309
 - cements, 129B3:92; 192A4:18
 - crystallinity index, 185B10:2
 - diagenesis, 202A9:11
 - Galicia margin W, 103B31:521–522, 524, 526
 - interpillow material, 185A3:24–25
 - lithology, 183A4:5, 11; 198A3:15; 10:6
 - low-temperature alteration, 192B6:6
 - photograph, 149A6:176; 158A8:147–148, 155; 10:180, 184–185; 192A3:116; 206A3:238
 - photomicrograph, 129B3:112–114; 180B7:51–52; 185A1:47; 3:117–118; 185B10:6–9; 192A3:123–129; 6:80; 198A3:74; 206A3:205, 253–254, 309
 - Pigafetta Basin, 129B3:88, 91, 98
 - radiolarian-rich turbidites, 123B5:125–126, 131
 - replacement, 206B7:3
 - siliceous rocks, 198B17:7
 - sills, 139B8:116–117
 - Site 748, 120B(1)8:99, 111
 - Site 754, 121A8:195
 - Site 801, 129B3:92
 - Sulu Sea, 124A11:261–262
 - tholeiites, 129B22:425
 - Tithonian–Valanginian interval, 129B3:93
 - veins, 159A5:101; 159B1:4; 192A6:19
 - vs. depth, 192A3:122
- chalcocite, geochemistry, 129B16:290
- chalcophile elements
 - altered/parent rocks, 193B1:48–49; 6:17
 - clay geochemistry, 184B12:10
- chalcopyrite
 - alteration, 111A3:63; 139A6:213–231; 139B11:214; 147A3:71; 168B10:126; 187A12:9; 197A4:21–22; 209A5:13; 209B1:10

- Atlantis Bank, 118A6:125
 backscattered electron image, 169B9:5, 19
 chemical composition, 193B3:15–17
 chloritized zones, 193B3:3
 copper-iron-sulfur system, 158B1:13
 Costa Rica Rift, 111B3:30–32, 67
 diabases, 168A5:120
 diagenesis, 139B7:109–110
 electron microprobe data, 106/109B13:170
 gabbros, 176B7:5–9
 geochemistry, 129B15:290
 green amphibole, 118B5:117
 hydrothermal circulation, 169A1:11
 hydrothermal fields, 158A1:7, 9–13; 158B1:9–13;
 15:194; 27:368–369; 28:395
 igneous rocks, 139A7:511; 209B3:4
 isotopic profiles, 148B5:63–64
 lead isotopes, 158B8:105–108
 lithology, 193A4:15–41
 mafic and ultramafic rocks, 147B5:92–93
 magnetic properties, 139B31:539–540
 major and trace elements, 158B2:36–39
 metasediments, 173A8:246–249
 mineralization, 158A8:144; 11:211
 moderate-temperature minerals, 176A3:37
 paragenesis, 158B15:194–195
 petrography, 193A3:54, 57
 photograph, 158A7:79, 102–103, 114, 117, 123;
 8:147, 151–156; 10:191–194; 11:214–217;
 158B12:147; 169A3:73–76, 80–81, 93; 169B9:5,
 20; 170A3:62; 193A1:71; 4:144; 206A3:243;
 209A5:88, 101
 photomicrograph, 168A4:68; 169A3:68, 79;
 169B5:16–18; 176A3:128; 176B7:15–16;
 187A12:40; 193A1:55; 3:183, 188; 4:145, 151–
 154, 166
 precipitation, 106/109B13:172; 169B9:6, 22
 secondary minerals, 118B5:115–116; 140A2:69–70;
 148A2:45–53
 sills, 139B6:94
 Site 758, 121B32:629
 Snake Pit hydrothermal area, 106/109A5:149
 stratigraphy, 158A7:67–68
 sulfides, 106/109B12:154–157, 160; 13:169, 170;
 118B4:93–94; 139B18:376–377; 169A3:64–67,
 71; 193A4:36; 193B1:6, 22–23; 10:4–7
 sulfur isotopes, 129B15:288; 158B1:17–21; 5:74–79
 sulfur, 111B4:42–45; 5:55–57
 textures, 106/109B12:153; 13:164–166
 trace elements, 158B2:36–39; 4:55–56
 veins, 139A6:206; 153B30:524; 169A3:75–76;
 169B9:4–9, 16, 20
 vs. depth, 169B5:15; 193A4:117; 209B3:10
 X-ray diffraction data, 106/109A5:150–154
 chalcopyrite, colloform, photograph, 158B15:197
 chalcopyrite, interstitial, photograph, 158A7:74
 chalcopyrite, massive, photograph, 158A7:124;
 169A3:68
 chalcopyrite disease
 massive sulfides, 169B5:6
 photomicrograph, 193A4:156–157, 164
 chalcopyrite fills, photomicrograph, 193A4:160–161
 chalcopyrite percentage, vs. compressional wave veloc-
 ity, 158B23:325
 chalcopyritization, breccia, 158B13:177
 chalk
 alteration, 183A8:20–22
 alternations, 166B16:170–171
 Aptian, 160B32:406
 Aptian–Albian–Cenomanian interval, 129B33:619
 biostratigraphy, 160B31:395–401
 burial curve, 181A7:92
 Campanian, 129B31:555
 Campanian–Holocene interval, 208A1:1–112
 chertification, 113A5:98
 clay mineralogy, 133B30:465–466
 composition, 101A12:490
 compressional wave velocity, 130B40:670–672
 Costa Rica Rift, 111A2:26; 111B16:180
 Cretaceous, 160A6:127; 160B32:406; 198B17:1–45
 Cretaceous/Tertiary boundary, 121B37:735
 dating, 110A6:350; 9:436, 544; 110B2:8; 113A5:95;
 6:189; 7:299
 debris flows, 134A4:45
 deformation, 159B1:5–6; 160A8:238–239
 deposition, 166A9:242–243
 diagenesis, 117A18:565; 150X_B3:31; 192A3:19–20;
 198A9:15
 Eocene, 150B25:429–432
 Exuma Sound, 101A1:7–8; 10:395
 Galicia margin W, 103A9:230
 gamma rays, 103A10:445
 geochemistry, 129B15:289–290, 292
 gully floors, 101A9:345–346
 Hauterivian, 103A1:13
 high density/low porosity spikes, 121A6:150
 in situ properties, 130B36:607–622
 ion concentration, 185B11:10
 iridium content, 119B47:854
 laminae, 121B44:937
 lithofacies, 150B11:209
 lithology, 111A4:258–259; 133A(1)4:91, 93; 8:256–
 257; 14:577; 16:688, 691–692; 17:776–779;
 133B27:389, 391; 134A9:192; 12:401; 134B2:23,
 27; 149A4:52–58; 159A6:163–166; 162A4:106–
 108; 165A3:55; 167A(1)4:56; 170A7:220;
 173A7:175–177; 177A5:6–7; 181A4:5; 8:6–7;
 182A1:17, 28, 33, 37, 39; 4:6, 10; 10:7–8; 11:6;
 12:7; 183A1:27; 189A3:11; 6:13; 192A1:15; 7:3–
 4; 199A11:8; 201A7:8–10; 202A7:9–10; 9:8–11;
 207A5:8–10; 208A4:8
 Little Bahama Bank, 101A1:7–8; 6:121–124;
 101B6:175
 loading, 130B41:673–686
 lower Miocene, 192A1:15
 Maastrichtian, 119B47:852–853
 magnetic properties, 101A6:135; 101B23:328–332;
 115A10:746; 133B50:751
 mass accumulation rates, 121A13:464; 121B44:938–
 939
 Messinian–Pliocene interval, 160B36:458–459; 38:491
 Miocene, 192A1:13

- Neocomian deposition, 123A4:104–105
 Neogene, 103A9:277; 181B1:57
 Northwest Providence Channel, 101A12:489–490
 Oligocene, 130B15:271; 134A9:192
 Oligocene–Miocene interval, 192A3:18
 Pacific Ocean W, 132A1:11
 Paleocene, 159A9:307; 165A8:381
 Paleocene/Eocene boundary, 199A14:8
 permeability, 185B11:6
 petrography, 160B37:471; 161B1:5–7; 198B16:4–5
 photograph, 144A4:116; 149A4:61; 150B20:369–370;
 159A5:77; 170A3:58; 4:116; 171B_A4:110, 113;
 6:250; 173A7:188; 181A7:64; 192A3:56; 5:39;
 6:55; 197A1:51; 202A9:54–55; 207A5:47
 photomicrograph, 129B3:100–104; 192A6:41, 47;
 198A3:75
 physical properties, 123A5:307–308; 129B29:508–517
 Pigafetta Basin, 129B31:551
 Pliocene, 130B27:453–470
 porosity, 114B35:662; 130B39:655–656
 sedimentation, 154A8:393; 154B28:436; 166A9:266–
 267; 192A6:10; 7:4–5
 sediments, 198A6:5
 seismic data, 129B31:565; 154A3:46; 165B12:210
 Site 698, 114A5:88
 Site 704, 114A11:629, 634
 Site 716, 115B35:648, 658
 Site 747, 120A6:104, 139
 Site 749, 120A8:246
 Site 750, 120A9:288, 291
 Site 801, 129B2:34
 Site 802, 129A4:180–182; 129B4:120, 130
 Straits of Florida, 101A1:8
 stratigraphy, 133B25:355, 358–360; 160B52:703
 tectonics, 160B52:704
 thickness, 101A10:390
 tuffs, 129B4:123, 130
 turbidites, 173B6:3
 Upper Cretaceous, 185A4:17–19
 upper Neogene, 181B1:51–54
 vs. depth, 110A4:126
 well-logging, 120A6:139; 120B(2)58:1056–1058;
 123A4:219
 X-ray diffraction data, 202A9:54
 See also *Braarudosphaera* chalk; limestone; limestone-
 chalk transition; volcanic ash–chert–chalk se-
 quence
- chalk, bioclastic clayey, lithology, 133A(1)12:462
 chalk, biosiliceous, tektites, 150B13:250
 chalk, bioturbated
 Formation MicroScanner imaging, 160B38:498
 photograph, 192A3:50, 52, 72; 5:36
 chalk, bioturbated calcareous, photograph, 207A5:46
 chalk, bioturbated foraminifer nannofossil, 207A7:44
 chalk, brecciated nannofossil, photograph, 173A8:236
 chalk, calcareous
 biogenic components, 123B6:147
 Broken Ridge, 121A8:194
 carbonate content, 121B24:475
 compression index, 121B12:260
 dissolution, 121B37:753
 lithology, 133A(1)10:351–356, 359–361; 11:427;
 134A9:188–190; 165A6:300–302, 342;
 171B_A6:251; 173A7:168–172; 9:273; 183A3:5–
 6; 197A3:8–9; 4:6–9; 199A12:11; 13:8–9; 14:7–8;
 207A5:5–7; 8:6
 magnetic properties, 119B43:758; 121A8:206; 12:394
 petrography, 173A9:273
 photograph, 171B_A4:116; 6:249; 207A8:45
 photomicrograph, 173B6:8; 199A13:36
 physical properties, 121A13:497
 porosity, 121B12:258
 Site 758, 121A12:360, 368
 Site 765, 123A4:80–81
 Site 766, 123A5:283
 volcanic ash contact, 121A6:156
- chalk, calcareous nannofossil, lithology, 182A12:6–7
 chalk, calcisphere nannofossil, 123B4:95, 97, 102
 chalk, clay-bearing foraminiferal nannofossil, 208A8:7–9
 chalk, clay-bearing nannofossil, lithology, 189A7:14;
 208A8:7–9
 chalk, clay-rich nannofossil, lithology, 174A_A5:161–
 162; 201A7:10–11
- chalk, clayey
 Exmouth Plateau, 123A4:80, 83, 85, 107
 lithology, 182A6:7–8; 192A6:7–8; 197A4:6–9;
 207A4:9; 6:8–9; 7:9–10; 8:8–9
 mineral composition, 129B4:124
 photograph, 150A6:78; 192A6:50; 198A9:47
- chalk, clayey calcareous
 lithology, 165A4:145–146; 5:241–242; 167A(1)5:89;
 10:247; 12:320; 171B_A3:54–55, 59; 4:101;
 5:181–183; 6:251, 253; 173A4:71–74
 photograph, 171B_A4:113, 115
 photomicrograph, 199A13:36
- chalk, clayey foraminiferal nannofossil, photograph,
 150A7:148
- chalk, clayey nannofossil
 lithology, 143A9:309–310; 157A4:67–68; 7:333–334;
 181A1:32; 7:6–9; 8:7; 9:6–7; 181B3:2–3;
 197A4:7–8; 207A5:8–10; 6:7; 7:7–9
 photograph, 181A7:66; 207A6:43; 7:46
- chalk, clayey siliceous, lithology, 171B_A4:100
- chalk, diatom-bearing nannofossil, lithology, 189A7:14
- chalk, diatomaceous nannofossil, lithology,
 171B_A4:100
- chalk, dolomitic, lithology, 133A(1)10:357;
 167A(1)11:289
- chalk, dolomitic silty
 basement, 183A8:14
 lithology, 173A9:269–272; 183A1:27
 lower–middle Eocene, 199A1:32–33; 10:4
- chalk, foraminiferal
 lithology, 134A9:186, 189, 194; 165A3:59;
 171B_A6:246, 250–251; 173A7:168–172;
 182A10:8; 12:5; 183A6:4–7
 photograph, 165A3:59; 171B_A6:251
 photomicrograph, 173A6:118; 192A3:75
 seismic stratigraphy, 115A5:272
 Site 698, 114A5:95
 Site 758, 121A12:368

- chalk, foraminiferal nannofossil
 Eocene–Pleistocene interval, 130A9:375–383
 lithology, 133A(1)8:257; 159A5:75–77; 160A8:222–223; 166A10:298; 171B_A4:101; 182A8:7; 182B12:3–5; 183A6:5–6; 7:5; 189A6:13–14; 7:12–13; 192A1:11; 3:5–7; 197A4:6; 207A4:7; 6:5–6
 Miocene, 117A3:38
 Oligocene–Miocene interval, 130A7:230–232
 Oman margin S, 117A18:582
 photograph, 160A8:238–239; 171B_A4:111; 183A7:68–69; 192A6:48; 207A5:46; 6:42
 photomicrograph, 161B1:18; 192A3:51
 Site 703, 114A10:557–558
 Site 713, 115A10:737
 Site 806, 130A8:298–307
 upwelling, 117A3:40
- chalk, glauconite-bearing, photograph, 202A7:49
 chalk, glauconite-rich clayey, photograph, 207A8:46
- chalk, gypsiferous
 lithology, 161A5:125–128, 131
 petrography, 161B1:5
 photograph, 161A5:132
 photomicrograph, 161B1:19
- chalk, indurated
 lithology, 167A(1)6:133–134
 Site 700, 114A7:261, 265, 300
 Site 702, 114A9:489–490, 509
- chalk, interbedded, photograph, 170A7:224
- chalk, laminated, photograph, 201A6:42
- chalk, marly, Oman margin S, 117A8:561
- chalk, marly nannofossil, grain size, 117B10:219
- chalk, massive, photograph, 152A11:200
- chalk, micritic
 deformation, 160A8:242
 lithology, 133A(1)5:144–146; 159A6:166–168
 Site 699, 114A4:51; 6:156, 161, 193
 Site 700, 114A7:260, 284
 Site 702, 114A9:489
 Site 703, 114A10:557
 Site 704, 114A11:629, 636
 Site 713, 115A10:739, 757
- chalk, micritic nannofossil
 lithology, 159A7:227; 165A5:241–248
 Site 700, 114A7:300
- chalk, nannofossil
 acoustic impedance, 115A6:422
 Albian–Cenomanian interval, 123A5:288
 Aptian, 160B32:406
 carbon isotopes, 185B6:4–5
 carbonate and dolomite content, 107B37:610
 chalk–ooze transition, 119A13:501
 clay mineralogy, 117B8:186
 color reflectance, 167A(1)13:342
 composition, 182B14:4
 compressional wave velocity, 117A9:224
 core ages, 129B2:37
 correlation, 135B22:367–368
 density, 115A12:936
 depositional setting, 115A5:244; 129B12:232–233
 Eocene, 130A5:108
 Eocene–Miocene interval, 130A5:108
 Eocene–Oligocene interval, 117A5:55
 Eocene–Pleistocene interval, 130A9:375–383
 lithofacies, 135B12:175–178; 160B37:469–471
 lithologic motifs, 173A7:168–173
 lithology, 104A5:467; 129B2:37; 14:268–269; 23:441; 133A(1)16:696–697; 134A8:146–147; 135A(1)5:197–198; 10:501–507; 138A(1)11:275, 280; 144A4:116–117; 145A5:130, 132; 6:217–218; 149A4:58–59; 7:220–223; 150A7:148; 8:216–220; 152A11:196, 198, 204; 154A4:61–62; 5:157; 6:257; 7:283–284; 8:344–346; 157A8:403–405; 159A5:77–80; 161A8:358–359, 362; 162A4:106–108; 165A3:58; 166A9:239–241; 167A(1)4:56; 5:89; 6:134; 14:395; 170A4:106–108; 171B_A3:53–55, 59; 4:99–103, 112; 5:175, 179–181; 6:246, 250–253; 173A4:71–74; 8:228–236; 9:269–273; 181A1:21–23, 29; 6:9; 8:7; 182A4:6–9; 5:7; 7:9; 183A3:5–6; 5:5; 8:3–5, 16–17; 189A3:11–13; 5:12–13; 192A5:5–6; 6:6–8; 197A3:8–9; 4:6–9; 198A3:14–15; 4:9–12; 10:5; 199A10:7–8; 11:8–10; 14:7–8; 205A4:21; 6:9; 207A4:5–8; 5:5–7; 6:6–8; 7:5–9; 8:6–8; 208A7:7–9; 8:7–9
 lower Eocene–upper Paleocene, 199A1:11–12
 Maastrichtian–Eocene interval, 121A4:75
 Mascarene Plateau, 115A5:241–242
 Miocene, 117A3:38
 Nazareth Bank, 115A4:128
 Oligocene, 181B1:41; 189B1:15
 Oligocene–lower Miocene interval, 199A1:10
 Oligocene–Miocene interval, 130A7:230–232
 Oman margin S, 117A18:561–562
 photograph, 145A5:132–136; 150A8:217, 221; 152A11:201–204, 207; 157A8:405–406; 157B17:312; 160A8:237, 247–248; 161A8:367; 165A3:59; 167A(1)5:93; 170A4:115; 7:224; 171B_A3:54, 57–58; 4:113; 173A4:76; 7:170–171; 8:231–232, 236; 181A8:55; 197A4:42; 199A10:27; 205A4:75, 77, 81, 121; 6:33; 207A4:40; 5:46; 6:43
 photomicrograph, 173B6:8; 192A6:49; 205A4:78; 6:29
 magnetic properties, 117A9:220; 18:569; 121A12:394, 424; 123A5:297–298
 physical properties, 115A5:272; 7:482; 10:757; 117A10:301–302
 porosity, 117A10:295
 radiolarians, 115A5:242
 resistivity logs, 117A10:292
 sedimentation, 117A19:606; 119B18:353; 135B53:846
 shear strength, 115A7:484; 8:613
 Sierra Leone Rise, 108A12:838
 Site 651, 107A7:301
 Site 698, 114A5:93–94, 106, 115
 Site 699, 114A6:160–161, 193
 Site 700, 114A7:259, 300
 Site 701, 114A8:369, 373, 408
 Site 702, 114A9:490
 Site 703, 114A10:557, 559
 Site 709, 115A7:459, 461, 465
 Site 710, 115A8:597

- Site 711, 115A9:662
- Site 713, 115A10:739
- Site 714, 115A11:851
- Site 715, 115A12:917, 922
- Site 721, 117A9:202, 241–242
- Site 722, 117A10:259–260
- Site 731, 117A19:591–592
- Site 738, 119A7:237
- Site 747, 120A3:57–58, 68; 6:98, 147
- Site 748, 120A7:169–170
- Site 750, 120A9:288
- Site 752, 121A13:460
- Site 758, 121A12:360, 368, 373
- Site 765, 123A4:80, 83, 85
- Site 766, 123A5:280–281
- Site 782, 125A10:202
- Site 801, 129B2:36
- Site 802, 129A4:182–183, 192, 194
- Site 803, 130A5:109
- Site 804, 130A6:183
- Site 806, 130A8:298–307
- synrift sedimentation, 210B1:25–27
- temperature gradient, 111B8:92
- thin sections, 198B16:19
- trace elements, 129B4:126
- Trubi Formation, 107A8:433
- turbidites, 173B6:1–11
- upper Paleocene, 129B3:91
- velocity, 117A18:571
- vs. depth, 113B6:74
- well-logging, 121A12:410; 173A3:51–61
- chalk, nannofossil bioclastic, lithology, 133A(1)6:183
- chalk, radiolarian
 - lithology, 185A4:15–16; 207A7:5–6
 - photograph, 185A4:88–91; 198A9:47–48
 - photomicrograph, 185A4:83–84
- chalk, radiolarian nannofossil
 - lithology, 192A5:5–6
 - photograph, 207A7:44
 - photomicrograph, 192A5:37
- chalk, radiolarian nannofossil/micrite, lithology, 159A6:164–166
- chalk, sandy nannofossil, lithology, 174A_A5:161
- chalk, siliceous nannofossil
 - lithology, 170A4:106–108; 171B_A4:100; 5:175, 179–183; 7:323–324; 207A4:5–7
 - photograph, 171B_A4:104; 5:187–188
- chalk, silicified
 - photograph, 192A6:42–43
 - photomicrograph, 160B32:407
 - silica cementation, 130A9:391
- chalk, silicified nannofossil foraminiferal, lithology, 182A8:8
- chalk, silty, lithology, 134A9:189; 12:406
- chalk, volcanic ash-rich, magnetic susceptibility, 115A10:748
- chalk, zeolitic
 - lithology, 192A3:7–9; 6:5–6
 - photograph, 192A6:46
 - sedimentation, 192A6:11
- chalk, zeolitic nannofossil, lithology, 171B_A6:246, 250
- chalk “biscuits,” ooze, 133A(1)8:256
- chalk-chert-volcanic ash layers, Cretaceous/Tertiary boundary, 121A13:471
- chalk clasts. *See* clasts, chalk
- chalk fragments, lithology, 174AXS_A6:27–28
- chalk-limestone-chert layers, mass accumulation rates, 121A13:464–465; 121B44:939
- chalk–limestone transition
 - diagenesis, 130A10:528
 - photomicrograph, 130A9:392
 - seismic reflection profiling, 121A8:226
 - well-logging, 121A8:221
- chalk–ooze transition
 - Kerguelen Plateau-Prydz Bay region, 119A7:269, 271
 - Little Bahama Bank, 101A6:123; 7:217, 219
 - Site 700, 114A7:264–265, 289
- chalkification, diagenesis, 144B16:327, 329
- chamosite
 - alteration chemistry, 149B32:547
 - Tschermak substitutions, 147B14:274
- changes of level
 - carbonate platforms, 133A(1)5:150–151
 - Quaternary, 134B3:48–54
 - See also* cyclic processes; eustatism; sea level changes
- channel fills
 - couplets, 143A9:325–326
 - lithology, 155A10:265–266; 19:588; 155B40:632
 - sedimentation, 180A6:32–33
- channel fills, abandoned, lithology, 155A14:433
- channel-levee complexes
 - aggradation, 155A3:25
 - Amazon Channel, 155A1:10–12
 - biomarkers, 155B34:551
 - deposition, 168B2:52
 - sedimentation, 152B1:8–17
- channel sand bodies
 - depositional environment, 119B3:47–49, 53
 - original bedform identification, 119B3:49
- channel shifting, Prydz Bay, 119B3:47–49, 53, 57
- channels
 - lithofacies, 160B43:554, 557
 - sedimentation, 152B1:8–17
 - See also* buried channels
- CHAOS, computer models, 137/140B5:54–55
- chaotic bedding
 - lithology, 192A4:8
 - photograph, 159A6:167; 160A8:230; 171B_A3:57; 190A1:65; 6:32; 7:24
 - Site 748, 120B(2)48:900
- chaotic fills, submarine canyons, 150B15:291–292
- chaotically stratified facies, diamictite, 178A9:7
- characteristic remanent magnetization. *See* remanent magnetization, characteristic
- charcoal
 - Kerguelen Plateau central, 120B(2)18:275
 - lithology, 167A(1)13:357–359; 174AXS_A4:21–24; 197A5:6
 - paleoecology, 167B17:220
 - Quaternary, 133B9:107–114
 - vs. age, 155B25:414–415
 - vs. depth, 178B28:13

- charcoal, microscopic, vegetation, 155B25:411–418
 charge anomalies, ions, 182A9:21
 charge balance
 pore water, 166A10:316–317
 vs. depth, 166A10:316
 vs. magnesium, 166A10:316
 charge imbalance, vs. excess magnesium, 182A9:46
 charnockites
 geology, 188A1:7–8
 Precambrian, 119B13:247
 Charophytes
 abundance in carbonates, 144B9:181
 See also algae, green
 charring, photomicrograph, 180B10:29
 Chattian
 biostratigraphy, 151B14:273; 182B4:10; 189B5:39
 thin-skin tectonics, 149B1:13–14
 See Rupelian/Chattian boundary
 Chattian/Aquitanian boundary, sedimentation,
 189B10:9, 12, 15
 check shot surveys
 acoustic traveltime, 207A4:34–35
 data, 207A4:111; 7:37–38, 113; 8:103
 near-offset vertical seismic profiles, 204B25:7, 23
 cheilostomes, reef mounds, 182A2:4; 182B1:9–10
 Cheirolepidiaceae, pollen, 183B3:8
 chemical analysis
 basaltic rocks, 142B10:75–81
 bulk marine sediments, 199A7:1–14
 procedures, 143A4:75–76
 shipboard vs. shore-based digestion, 206B3:8, 26
 shore-based flux vs. shore-based microwave acid di-
 gestion, 206B3:7–8, 19–25
 sodium carbonate treatment, 199A6:1–21
 chemical composition
 basalts, 191A4:145
 sediments, 175B13:1–31; 205A4:172
 volcanic ash, 162B16:217–230
 See also geochemistry
 chemical discontinuities, intrusions, 176B10:18–25, 48–
 52
 chemical discrimination
 tectonic fields, 129B5:148
 volcaniclastics, 129B5:148
 chemical elements, mobility, 183B15:9–10
 chemical gradients, pore water, 130A7:248; 8:320, 324–
 326
 chemical horizons, sediments, 146A(1)6:271–273
 chemical index of alteration
 lithology, 207B8:6
 Site 1143, 184B12:6
 Site 1144, 184B19:7–8
 vs. age, 184B19:20
 vs. weathering factor, 207B8:19
 chemical interfaces, microbes, 201B1:22–24
 chemical profiles
 mixing, 148B9:118
 sediments, 146A(1)6:267–273; 7:344–346
 chemical properties
 alteration, 148B12:171–189
 sediment grain size, 141B6:91–93
 chemical reactions
 alteration, 147B15:309
 early diagenesis, 155B30:501–503
 chemical reactions, in situ, sediments, 129B14:270–271
 chemical sediments, classification, 121A2:42
 chemical stratigraphy
 gabbros, 176A3:51–53; 176B(synthesis):14–17, 32–45;
 10:16–21, 23–25
 glass shards, 157B15:258–260
 sideromelane, 157B15:260
 subaerial deposits, 157B15:243–245, 256
 Transect EG63, 163X_A1:16
 turbidites, 157B31:535–558
 volcaniclastics, 157B15:256, 258
 chemical techniques, interstitial normative determina-
 tion, 139B22:429–438
 chemical tracers, contamination, 190A4:23–24, 141;
 5:28–29; 6:20; 8:20; 9:23; 201A2:1–19
 chemical weathering
 clay mineralogy, 189A5:17–19
 sedimentation, 161B2:32, 34
 chemoautotrophs, hydrothermal fields, 158A1:9
 chemobiostratigraphy
 Neogene, 130B16:281–305
 Oligocene, 130B15:269–279
 chemofacies, limestone, 144B51:900, 902
 chemoherms, environment, 204A7:7
 chemostratigraphy
 basalts, 129B19:380; 148B2:14–16
 carbonates, 144B25:447–457
 Jurassic, 129B19:369
 Messinian/Zanclean boundary, 160B2:17, 21
 Miocene, 130B17:307–322
 oxygen isotopes, 174A_B(synopsis):7–8
 strontium isotopes, 134B6:91–93
 chemosynthetic communities
 gas transport in shallow sediments, 204B15:1–52
 hydrothermal fields, 158A1:8–9; 193A1:7
 lithology, 164A8:248–249
 mud domes, 160A1:11
 photograph, 164A8:249
 Chenopodiaceae
 Australian grassland pattern, 123B20:423
 mass accumulation rates, 146B(2)20:267–268
 palynomorphs, 188B3:15
 pollen, 133B9:109
 seasonal variations, 117B15:278
 Site 717, 116B21:255
 Site 720, 117B16:287
 Site 721, 117B15:279
 Site 723, 117B15:280
 Site 794, 127/128B(1)28:491
 Site 820, 133B9:107–114
 Chenopodiaceae/Amaranthaceae ratio, 105B27:503
 chert
 accessory component, 188A3:74–75; 188B4:11
 acoustic impedance, 102B1:12
 Albian–Cenomanian interval, 129B1:9
 Aptian–Albian–Cenomanian interval, 129B33:619
 Bathonian, 129B32:582
 Berriasian–Aptian interval, 129B32:598

- Berriasian–Valanginian interval, 129B36:681, 683
 Broken Ridge, 121A8:194–195; 13:462–463
 Callovian, 129B36:675
 Campanian, 129B1:18; 31:555
 carbonates, 121B24:471; 129B3:88, 97, 100–104
 Cenomanian–Campanian interval, 129B1:10; 31:561;
 32:598
 chalk association, 113A5:98
 chemical composition, 121A12:399, 410; 129B34:639
 chertification, 167B32:350
 clasts, 190A7:6
 color, 113B6:77–78; 198A9:95; 198B17:9, 14–17
 core ages, 129B2:33
 Cretaceous, 129B36:689; 198A1:22; 3:7; 198B17:1–45
 Cretaceous–Paleogene interval, 121A13:460;
 121B44:937
 Cretaceous/Tertiary boundary, 121A2:507
 De Marchi Seamount, 107B2:34
 deepwater coring, 124E_A1:5; 18:133–134
 deposition, 192A3:13
 diagenesis, 138A(1)12:367–369; 160B32:408; 51:684;
 165B20:308; 177A1:10
 dropstones, 145B12:196–203
 Eocene, 192A3:17–18
 Exuma Sound, 101A1:7–8
 formation, 177A5:22; 181A8:32
 Formation MicroScanner imagery, 127A6:307; 127/
 128B(2)66:1039–1044; 78:1232; 129B36:688;
 192A6:44–45; 198A3:43–44
 geochemistry, 129B15:290; 138A(2)15:850; 158B4:52
 hardgrounds, 144B22:421
 hydrothermal alteration, 158A8:162
 hydrothermal fields, 158A1:9–11; 158B1:7–11
 ice-rafted debris, 120B(1)14:208
 intact layers, 199A11:90
 ion concentration, 185B11:11
 Jurassic–Lower Cretaceous interval, 129B36:677
 lithofacies, 182B4:10
 lithology, 127/128B(2)78:1232; 129A2:38–40, 44;
 3:104–106; 129B2:33; 130A9:386; 136A4:40;
 138A(1)11:275; 12:344; 143A9:306; 159A5:78;
 6:164–166; 7:227; 8:264–266; 160A7:162;
 165A3:58; 165B12:209, 213; 167A(1)10:247;
 16:468; 170A6:195, 197; 7:219–220;
 171B_A3:52–53; 4:100; 6:246, 250;
 174A_A4:111; 177A5:7; 181A1:19–20;
 182A1:22, 28, 34, 37, 39; 4:9, 11; 6:7–8; 7:9–10;
 10:9; 11:6; 12:6–7; 183A4:4; 185A3:7; 191A4:14;
 192A3:7–8, 11; 6:5–6; 195A4:11–12; 198A3:13–
 14; 8:10; 9:10–11; 10:5–9; 199A8:5–6; 10:7–8;
 11:9; 12:11; 13:7–8; 14:6–7; 15:6; 202A9:8–11;
 206A1:23; 3:25–26; 207A7:6–7
 Little Bahama Bank, 101A1:7–8; 6:113; 101B11:175
 lower Callovian, 129B32:584
 lower–lower middle Eocene interval, 199A1:11
 lower–middle Eocene interval, 199A1:32–33; 10:4
 lower Tithonian, 129B36:680–681
 magnetic properties, 120B(1)15:231; 121A8:206;
 12:395; 129B23:436
 Mariana Basin E, 124E_A18:118–123
 Mascarene Plateau, 115A5:242; 115B37:698
 microfolds, 159A8:280
 middle Berriasian–Valanginian–lower Hauterivian in-
 terval, 129B32:597
 middle Oxfordian, 129B32:588
 nannofossils, 120A9:302–303
 nodules, 198A1:49
 Northwest Providence Channel, 101A12:491–493
 Ontong Java Plateau, 130A9:466
 opal-CT, 115B37:697
 Oxfordian–Kimmeridgian interval, 129B36:680
 paleoenvironment, 159A6:176; 159B11:105;
 160A7:16–164
 Paleogene, 130A10:521
 pebbles, 121A12:368
 permeability, 185B11:6
 Peru margin, 112A6:99; 14:376; 20:929
 petrography, 150X_B3:27; 160B36:455; 161B3:47;
 198B16:4–5
 petrology, 191A1:14–15
 photograph, 138A(2)15:826; 158A7:81; 8:149–150,
 158; 159A7:228; 8:265; 165A6:305; 170A6:201;
 185A3:78, 82; 4:87; 191A1:41; 4:73, 92;
 192A3:53; 6:42–43, 52, 57; 195A4:76;
 198A10:21; 199A11:45; 202A9:55
 photomicrograph, 129B3:88; 185A3:117; 198A3:73,
 78
 physical properties, 121B13:268; 129B29:508–517
 Pigafetta Basin, 129B2:32; 3:81–82, 88, 99; 31:551
 Pleistocene, 174AXS_A1:14
 pore water, 138A(2)16:920; 181A5:21
 recovery, 129B34:635
 recrystallization, 185B10:1–11
 redox, 198A9:4–5, 15–17
 reflections, 200A1:17–18
 reflectivity, 136B8:99–104
 resistivity, 138A(2)15:846–847; 208A6:82
 sandstone, 127/128B(1)9:144–148
 sedimentation, 192A6:10
 sediments, 177A1:14
 seismic reflection profiling, 115A10:759; 115B34:683;
 121A8:226; 127A7:407–408
 seismic stratigraphy, 129B31:565; 185A4:4–6
 silica, 120A7:209
 Site 698, 114A5:93–95, 100, 111, 115
 Site 700, 114A7:261–263, 266, 279
 Site 702, 114A9:490–491; 114B1:18
 Site 703, 114A10:556–557, 585
 Site 704, 114B1:17
 Site 709, 115B37:689
 Site 711, 115A9:664
 Site 747, 120A6:104
 Site 748, 120A7:169–170, 193
 Site 749, 120A8:246–248
 Site 750, 120A9:288
 Site 751, 120A10:346
 Site 795, 127A5:187–188
 Site 796, 127A6:265
 Site 797, 127A7:343–344, 349
 Site 800, 129B1:6; 2:56
 Site 801, 129B1:4; 2:34, 36; 3:92
 Sites 846–847, 138A(1)12:369–370

- smear slides, 188A3:16–17
- Straits of Florida, 101A1:8, 5:60; 101B11:174
- stratigraphy, 158A8:142–144; 185A1:9–10; 198A1:66–67
- temperature history vs. age, 167B32:352
- thickness, 129B36:690; 165A6:304
- Tithonian, 129B32:589, 592
- Tithonian–Valanginian interval, 129B3:93
- Turonian–Campanian interval, 129B1:9
- unconformities, 159B2:16–17
- Upper Cretaceous, 129B1:14; 31:563; 185A4:17–19
- Valanginian, 129B32:596
- Valanginian–Barremian interval, 129B32:599
- velocity, 120A7:216
- vertical distribution, 158B1:14–17
- volcanic ash, 165B19:295
- volcanic pebbles, 161B44:568
- vs. depth, 113B6:74; 165A6:320; 8:397; 165B19:296; 198A1:136; 3:113; 198B17:30
- well-logging, 121A6:149; 8:221; 127A1:27–28; 6:302; 7:394; 138A(1)11:308–309; (2)16:929–930; 192A6:27
- X-ray diffraction data, 183A3:29; 185A4:85
- See also* chalk-chert-volcanic ash layers; chalk-limestone-chert layers; clay-chert series, interbedded pelagic; claystone; limestone-chert sequence; nodules; porcellanite; temperature history (youngest chert/porcellanite bed)
- chert, argillaceous, photomicrograph, 161B3:55
- chert, bedded
 - Leg 129, 129B3:89, 91, 97–98
 - photomicrograph, 129B3:105
- chert, black
 - photograph, 160A8:238
 - Site 747, 120A6:104
- chert, brown
 - ages, 129B2:35
 - lithology, 129A3:99; 129B2:35; 14:268; 23:437; 201A7:12
 - photograph, 201A7:42
 - Site 801, 129A3:112–113; 129B2:56
 - X-ray diffraction data, 201A7:45
- chert, calcareous, photomicrograph, 198A3:75
- chert, dark brown, lithology, 129B14:268
- chert, diagenetic, lithology, 195A3:14
- chert, foraminiferal-radiolarian, photomicrograph, 198A3:76
- chert, gray
 - lithology, 129B14:268
 - paleomagnetism, 129B23:431
 - X-ray diffraction data, 129B3:86
- chert, green, lithology, 177A5:6
- chert, hematitic, photomicrograph, 193A4:154
- chert, interbedded, lithology, 165A6:300–302, 308, 348
- chert, laminated, photograph, 138A(2)15:827
- chert, massive, upper Miocene, 167A(1)10:266
- chert, nodular
 - genesis, 133A(1)10:357; 133B56:791–794
 - lithology, 182B12:3–5
 - Ontong Java Plateau, 130A9:387
 - photograph, 130A9:390
- Pigafetta Basin, 129B3:88
- chert, pink, photograph, 185A4:78
- chert, quartz
 - lower Eocene, 129B3:93
 - lower Miocene, 129B3:93
 - Pigafetta Basin, 129B3:98
- chert, radiolarian
 - composition, 190A1:3
 - deposition, 185A3:9
 - Jurassic–Cretaceous, 170A1:7
 - lithology, 185A3:7; 4:14–16
 - photograph, 149A6:176; 185A4:80
 - photomicrograph, 129B1:30; 3:105; 160B45:592; 190/196B3:26, 28
 - Site 766, 123B39:755
 - Site 800, 129B2:32
 - Site 801, 129B3:92
 - upper Tithonian, 129B32:592
 - X-ray diffraction data, 129B3:86
- chert, radiolarian volcanoclastic, X-ray diffraction data, 129B3:82
- chert, red
 - cores, 136A5:68
 - Cyprus-type deposits, 158B28:409
- chert, red and gray
 - lithology, 158A8:145–155
 - petrology, 158A9:171–172; 10:179–180, 184–188
 - photograph, 158A10:179–183, 187
- chert, ribbon radiolarian, Pigafetta Basin, 129B3:89
- chert, thermal, Pigafetta Basin, 129B3:89, 98, 108–110
- chert, volcanic, Pigafetta Basin, 129B3:97
- chert bands
 - Formation MicroScanner imagery, 199A12:91
 - pore water, 145A5:151–152
 - sedimentation, 192A6:11
- chert breccia, veined. *See* breccia, veined chert
- chert clasts. *See* clasts, chert
- chert/clay ratio, velocity logs, 129B36:688
- chert color
 - cores, 198A3:119
 - logs vs. depth, 198B17:31
 - trace elements, 198B17:32
 - vs. Cretaceous age, 198A1:127
 - vs. depth, 198A10:27
- chert fragments
 - lithology, 198A4:12–13; 199A11:8
 - photomicrograph, 190/196B3:28
- chert layers
 - lithology, 181A8:8
 - mineralogy, 119B11:214–219
 - photoelectric effect, 119B14:279
 - physical properties, 119A7:266; 123A5:308, 313
 - silica, 119A7:254–256; 119B18:372
 - Site 737, 119A6:171, 207
 - Site 738, 119A7:237; 119B18:363–364
 - vs. depth, 138A(2)16:954
- chert nodules. *See* nodules, chert
- chert nodules/core ratio, vs. depth, 165A3:59
- chert percentage, vs. depth, 198A3:113
- chert position, vs. depth, 198A3:113
- chert thickness, vs. depth, 198A3:113

- chertification
 diagenesis, 167B32:350; 192A6:11
 Formation MicroScanner imagery, 129B32:591
 fronts, 129B3:88
 limestone, 192A3:20
 lithology, 192A3:8
 photograph, 192A3:71, 73, 76
 Pigafetta Basin, 129B3:89, 91, 93, 97
 Site 698, 114A5:94, 96–97, 100, 105–106
 Site 700, 114A7:269
 Tertiary, 192A3:18, 20
 Tithonian, 129B32:592–593
- chevkinite
 clastic mineral phases, 157B15:239
 inclusions, 157B27:455
 photomicrograph, 157B15:266
- chevron folding. See folds, chevron
- Chiastozygaceae, photomicrograph, 198B7:58–63
- Chierolepidaceae, palynomorphs, 188B2:10
- chilled contacts
 lithology, 185A3:12; 4:96
 lower sill complex relationship, 210A3:69–70
 photograph, 185A3:114; 4:96–97
 photomicrograph, 185A3:94, 99–100
- chilled margins
 alteration, 183A8:20–22; 187A9:6–7; 11:9–10; 12:8–9;
 13:10–11; 187B5:7
 aphyric basalts, 168A5:120, 122
 basement, 183A5:22–30, 44; 6:28–29, 39–40; 8:13–14,
 17–20
 diabases, 148A2:42–43
 dikes, 137/140B7:94–99
 enrichment/depletion diagram, 169A3:99
 folding, 206A3:75
 isocons, 169A3:99
 lithology, 187A9:3–5; 10:2–3; 11:4–7; 13:3–7; 14:3;
 15:4–7; 198A9:17–18; 210A4:5; 210B9:8–9
 microfaults, 148A2:70
 petrography, 187A8:4–6; 12:5; 15:6
 photograph, 148A2:41; 153A4:126; 169A6:272;
 183A8:42, 46, 49; 9:56, 59; 187A1:22, 34; 3:14;
 8:14, 31; 10:8, 17; 12:20, 22, 29, 37; 13:36; 14:9–
 10, 16; 15:18, 27, 30; 195A4:97; 198A9:50–61;
 205A4:97–98; 206A1:76; 3:164, 171
 photomicrograph, 169A3:95; 183A5:104; 6:101–102;
 8:52, 58; 187A12:27–30; 13:16, 22; 206A3:186
 pillow basalts, 148A3:132–137; 187A4:3; 5:3
 recrystallized basalts, 206A3:61
 sill/sediment contacts, 210A3:66
 structure and deformation, 148A2:61, 63; 3:156–157
 thin sections, 148A2:64–65
- chilled margins, basaltic, photograph, 192A5:46–47
- chilled margins, glassy, photomicrograph, 187A8:30
- chilled margins, spherulitic, photograph, 187A8:17, 19
- chilouembelinids
 Atlantic Ocean S subantarctic, 114A11:644
 Site 738, 119B25:457; 47:858
- chimneys
 active zones, 158A2:18–19
 aragonite, 125B19:355
 Conical Seamount, 125B1:8; 21:375–376
- hydrothermal circulation, 169A1:7–9
- hydrothermal fields, 158A1:7; 158B27:379–381;
 193A1:5–7; 193B1:6
- metal sources, 193B1:33–35
- sulfides, 193A1:23–28; 193B1:28
- vent fluids, 125A8:148
- chimneys, carbonate
 Conical Seamount, 125A4:72
 geochemistry, 125A1:12; 125B36:595
 stable isotopes, 125A4:77
 vent fluids, 125A4:75
- chimneys, silicate, Conical Seamount, 125A4:72–73
- chloranthaceous affinity, pollen, 183B3:8
- chloride
 advecting fluids, 164A8:272
 alkalinity, 117B30:507
 alteration, 134A8:169; 185A4:29–30
 amphiboles, 118B9:208, 212
 anomalies vs. oxygen isotopes, 164B6:61, 63
 bacterial cells, 169B2:7
 Barbados Ridge, 110A1:21–22; 6:334; 7:415, 418;
 110B11:156–161, 178; 13:195–200; 22:335;
 27:419
 basalts, 183B1:17–18
 brines, 207A6:32; 8:28–29
 bulk solids, 195B6:7
 Cagayan Ridge, 124A12:326
 Celebes Sea, 124A10:153–154
 chemical reactions, 150X_B24:338–339
 clay, 127/128B(1)34:608–610; 156B10:146
 contour concentration, 182A1:53; 182B1:28
 contour maps, 166A2:22; 166B8:92; 182A7:52
 Cretaceous interval, 123B2:68
 décollement zone, 131A6:130–132
 depletion in sediments, 129B14:271–272
 diagenesis, 160A9:311
 diffusion curve, 146A(1)6:273; 164A6:130–132
 dilution spikes, 112B25:435
 discrete excursions, 204B13:16
 distribution, 102A1:5–6; 3:143; 127/128B(1)34:605;
 146A(1)6:273
 enrichment, 164A5:89–90, 96
 evaporites, 160A4:69; 8:247, 249; 9:311; 10:366–367
 faults, 190A7:15
 fluid-rock interactions, 195B6:1–23
 fluids, 112B25:434; 125B36:602–603; 139B20:397;
 141B29:365; 158A7:126; 9:173; 166A9:254, 267;
 168A4:84; 171A_A5:67–68; 186B14:9;
 204B13:5–6
 freshwater spikes, 112B33:530
 gas hydrates, 112A1:17; 15:476; 146A(1)5:229;
 160B50:669; 164A7:200; 9:315–317; 164B1:7–8;
 4:40–43; 22:220; 25:247–249; 167A(1)13:372;
 167B32:353; 172A4:126–129; 175A5:130–131;
 190A9:17; 201A11:14–15; 204A1:43; 3:13–16;
 4:13–14; 5:7; 6:10; 7:10; 8:11–12; 9:10–11;
 10:13–14; 11:11–12; 204B1:11–12
 geochemical logs, 114A11:697–700; 118A6:174, 178;
 127/128B(2)65:1023–1024
 glacial–interglacial cycles, 117B30:504
 glaciation signals, 204B13:4–5

- gouge, 161B25:333
gradients, 151A13:412; 164A6:130–132; 190A1:30–32, 81
grain density, 126B38:553
hornblende, 118B9:198
hydrocarbon maxima, 125B21:383–384
inclusions, 157B23:403–410
increase by water uptake, 129B14:281
Indus Fan, 117A8:177
interlayer cation composition, 156B10:140
ions, 129B14:272
iowaite, 125B17:317, 319; 19:358–359
Kerguelen-Heard Plateau, 119A5:123; 6:185; 7:255
Kerguelen sediment ridge, 119A14:516; 15:544
Lima Basin, 112A11:182–184; 18:732; 19:823–828; 25:423–425; 112B25:416, 423, 432
lows, 110B11:171–174
Mascarene Plateau, 115A5:260
measured spectra, 129B34:636
methane/ethane ratio, 112A15:459
moisture and density bulk density, 204A8:84
Nazareth Bank, 115A4:145
negative anomaly, 112A1:18; 2:18
negative charge, 125B21:381
Ninetyeast Ridge, 121B22:452
Oman margin N, 117A11:358
opal-A, 127/128B(1)34:608–610
Owen Ridge comparison with Oman margin, 117A19:617
Pacific Ocean W, 124B31:414
Peru margin, 112A1:17, 2:41; 14:388; 17:625–627; 112B25:433; 32:523, 525
phase equilibria, 179B2:44
Pisco Basin W, 112A18:725–726, 732, 735; 112B25:423–425
pore water, 112A2:20; 116A4:58–61, 65; 5:106, 109, 110; 6:165–166; 116B10:128–130; 34:422–423; 119B18:354–355; 19:378, 380, 383, 385; 121A8:213; 121B22:448–451; 125A8:160–167; 125B21:377–384; 129A4:207; 129B14:269–275; 130A8:320; 131A6:128–138; 7:283; 131B31:389–390; 32:403; 133A(1)4:105, 107; 5:155–156; 6:189–190; 7:216; 8:266–267; 9:316–319; 10:370; 11:430–431; 12:468; 13:521–522; 14:584; 15:632–633; 16:708; 17:783; 133B32:481–482; 134A7:111–112; 9:202–203; 10:279; 11:347; 12:416; 13:505–506; 135A(1)9:432; 136A4:47; 5:69; 138A(1)10:221–225, 228; 11:297; 12:355; 139A5:118, 120; 6:188; 139B22:433–437; 143A6:136; 7:215; 9:330; 144A3:67; 4:128–129; 5:178–179; 6:232; 8:302; 10:366; 145A3:52; 4:96; 5:148; 6:237; 7:312; 8:351; 149A5:137; 6:192; 7:245; 146B(1)25:376–377; 30:432–435; (2)25:331; 150A6:99; 7:169–170; 8:235; 9:286–288; 10:331; 151A5:82; 6:129; 7:182; 8:240; 9:285–286; 10:333; 11:366–367; 152B25:299–300; 154A4:89; 5:179; 6:249; 7:300, 302; 8:355; 155A6:105; 7:140; 8:190; 9:217; 10:295; 12:348; 13:398; 14:424; 16:475; 17:520; 18:557; 19:583; 20:610; 21:650; 22:674; 156A6:145, 147; 156B25:314–315; 157A4:77–78; 5:123; 6:154; 7:355–356; 8:417; 9:458; 10:523; 159A5:109; 6:193; 7:243; 8:284; 160A4:67; 5:110; 7:186; 11:391–393; 14:485; 161A6:235; 8:378; 9:405; 162A3:76, 81; 4:116; 5:157; 6:193; 7:247; 8:275; 9:310; 10:362; 164A5:88–89; 6:128; 7:198; 8:264; 9:296, 298–301; 164B1:4; 165A3:73–74; 4:166; 5:259; 6:317; 166A6:91; 7:161, 168; 8:190–192; 9:251; 10:312–316; 167B32:343; 168A1:11; 5:136–137; 6:176–177; 169A3:113–117; 4:171–175; 5:218; 6:274–281; 169B1:3; 170A3:72–73; 4:131; 5:172–173; 6:203; 7:235; 171B_A3:77; 4:143; 5:207; 6:285–287; 7:333–334; 172A5:228–229; 6:288; 173A4:88, 90; 174A_A3:72–73; 4:122–123; 5:171; 175A3:73–74; 4:102; 6:165–166; 8:214; 9:258; 10:297; 11:326; 12:371; 13:410; 14:445; 15:473; 177A3:12; 4:16; 5:20; 6:13–14; 7:14–15; 8:16; 9:13; 178A4:21; 7:13, 16; 8:13; 180A5:31; 6:54, 58; 7:21; 9:39; 12:37; 181A4:18; 5:19; 6:28; 7:13–14, 37; 8:30; 9:19; 182A1:18, 24, 27, 32, 35; 4:30; 5:19; 6:28–29; 7:20, 22; 8:23, 25; 9:19–21; 10:23, 25; 11:13; 12:20; 184A4:20; 5:17–18; 6:13; 7:17–18; 8:8; 9:21–22; 184B13:3, 11; 186A1:10; 5:25; 186B1:4; 14:4–6; 188A3:43–44; 4:30; 5:23; 189A3:42–43, 161; 4:20, 60; 5:46, 158; 6:50–51, 166; 7:43–44, 140; 190A1:6, 8–9, 81; 4:16–17, 64; 5:21–22, 70; 6:15; 7:12, 15; 8:14–15, 44; 9:16–18; 194A3:15; 4:21; 5:16; 6:13; 8:17; 9:15; 195A3:30–37; 4:33–36; 195B9:3–4; 198A8:21; 9:30; 199A8:15; 9:10; 10:16; 11:25; 12:25; 13:21; 14:18; 15:12; 202A1:25; 3:12–13; 4:14; 5:12; 6:13; 7:17; 8:23; 9:18; 10:17; 11:14; 12:15; 13:13; 204A4:15; 204B13:13, 17; 205A4:46; 5:28–29; 6:14–15; 205B1:28; 206A3:38; 207A4:26–27; 5:26, 30; 208A3:20; 4:18; 5:14; 6:22; 7:21; 8:22
Prydz Bay, 119A8:310–312; 9:360; 11:418; 25:465–466
reduction, 129B14:272
remanent magnetization, 164A8:260–261
rock-seawater reaction, 125A8:160–162; 188A3:46
Salaverry Basin, 112A12:266–269, 274, 13:319, 321, 16:550, 561, 564; 18:732
salinity minima, 174A_A3:73
seawater, 148A2:56–57
sediments, 130A7:248, 250; 131B28:352–353; 34:424; 134A8:156; 146A(1)7:345–346; 149A4:99–100; 150A9:283; 152A11:236–237; 12:270; 156A7:231; 166A11:363–364; 167A(1)4:74; 5:104; 6:143–144; 7:166; 8:193; 9:230; 10:260; 11:295; 12:328; 13:368; 14:405; 15:447; 16:473; 167B23:265; 169B10:19; 169S_B1:40; 182A1:14; 204A3:17–18
seismic Horizon A, 204B1:32
serpentinization, 125B21:377–381; 149B30:520, 524–525
sideromelane, 157B25:423, 425
Site 680, 112B25:423–425
Site 681, 112B25:423–425
Site 682, 112A14:386–388, 399; 112B25:423, 434; 32:521–522, 525

Site 685, 112A17:626–629; 112B25:423, 434; 32:521–522, 525
 Site 688, 112A20:909, 911; 112B25:423, 434–436; 32:521–522, 525
 Site 690, 113A6:230
 Site 693, 113A8:374
 Site 695, 113A10:560
 Site 696, 113A11:643, 646
 Site 699, 114A6:173–174; 114B37:688–689, 698
 Site 701, 114A8:388–389
 Site 702, 114A9:498–499
 Site 703, 114A10:567
 Site 704, 114A11:648
 Site 708, 115A6:416
 Site 709, 115A7:481
 Site 714, 115A11:857–858
 Site 716, 115A13:1013
 Site 721, 117A9:228
 Site 722, 117A10:278
 Site 723, 117A11:346; 117B30:504
 Site 724, 117B30:504
 Site 725, 117A13:431–432; 117B30:504
 Site 726, 117A14:458, 466
 Site 727, 117A15:478; 117B30:504
 Site 728, 117A16:520
 Site 730, 117A18:578
 Site 731, 117A19:616–617
 Site 744, 119A13:491
 Site 747, 120A6:117
 Site 748, 120A7:208
 Site 749, 120A8:260
 Site 750, 120A9:309
 Site 751, 120A10:356–357
 Site 757, 121A11:335
 Site 758, 121A12:398
 Site 765, 123A6:142–145
 Site 766, 123A15:303
 Site 778, 125A6:110–111
 Site 779, 125A7:127
 Site 781, 125A9:190
 Site 783, 125A11:260
 Site 784, 125A12:284
 Site 786, 125A14:329; 15:368–369
 Site 794, 127A4:107
 Site 795, 127A5:205
 Site 796, 127A6:278–279
 Site 797, 127A7:364, 374
 Site 798, 128A4:172, 179
 Site 799, 127/128B(1)34:610; 128A5:317, 328
 Site 800, 129A2:59–60
 Site 803, 130A5:132
 Site 804, 130A6:200
 Sites 1088 and 1090 comparison, 177A5:52
 Sites 1245 and 1249 comparison, 204A8:50
 Sites 1245 and 1250 comparison, 204A9:48
 solid phase, 125B21:378, 381
 Southern Ocean, 114B39:720–721
 subduction, 125B21:373; 190/196B1:11
 subsurface brine, 112B25:424, 429
 Sulu Sea, 124A11:238
 summary, 189A1:42–43

Tiburon Rise N, 110A5:233–234; 110B11:159, 161, 178; 13:194; 22:335; 27:419
 Torishima Seamount, 125B21:381
 Trujillo Basin, 112A16:551, 561, 564; 18:732; 112B25:423–425
 vent fields, 139B20:408–409
 volcanic alteration, 121B22:449
 volcanics, 180A9:43; 187B4:3–4
 vs. ammonium, 201B5:9, 25
 vs. boron, 127/128B(1)36:642
 vs. bottom-simulating reflector, 204A3:61
 vs. bromine, 134B8:119; 161B33:427–429
 vs. calcium, 121A12:399; 134B8:121; 160A8:254; 169A6:279
 vs. chlorine isotopes, 164B12:135
 vs. copper oxide, 168B14:171
 vs. depth, 113A5:128–130; 6:237; 8:379–380; 9:481, 485–486; 10:561–562; 11:650–651; 12:736–737; 129A3:125; 131B32:399–402; 133A(1)4:103; 9:318; 10:372; 12:474; 13:523; 14:582; 15:633; 16:710; 17:783; 133B48:719; 134A7:113; 8:160; 9:207; 10:282; 12:422, 424; 13:506; 134B8:113, 117–118, 124–127; 135A(1)4:128; 5:220; 8:369; 10:539; 11:629; 137A2:37; 137/140B13:145; 138A(1)9:159; 10:232; 11:298; 12:360; (2)13:710; 14:775, 778; 16:936; 17:998; 18:1047; 19:1084; 139A5:125; 6:194; 7:333; 8:475, 479; 139B22:433; 29:513; 43:687; 141A6:121; 8:281–282; 10:406–407; 141B20:267–268; 21:282–286; 26:326; 29:368–370; 32:405; 143A6:139–140; 7:217; 9:332; 144A3:73; 4:130; 5:182; 10:368; 145A3:64; 4:105; 5:151; 6:241; 7:321; 8:360; 146A(1)4:86; 5:189–190; 6:270; 7:345–346; 146B(1)10:178–184; 25:377; 150A6:103; 7:172; 8:236; 9:290; 10:333; 150X_B24:332, 335; 152A8:103; 11:239; 12:272; 152B25:296, 300–303; 154A4:103; 5:184; 6:256; 7:305; 8:381; 155A6:112; 7:149; 8:192; 9:219; 10:261; 11:296; 12:354; 13:402; 14:426; 15:456; 16:481; 17:528; 18:558; 19:585; 20:615; 21:651; 22:677; 156A6:147; 7:239; 156B12:167, 169; 25:313–314; 157A7:365; 8:419; 9:460; 10:526; 160A4:79; 5:114–115; 7:190; 8:254; 9:314; 10:367; 11:393–395; 12:436–437; 14:486; 160B44:571; 161A4:92; 5:152; 6:260; 7:332; 8:387; 9:412; 161B33:425–427; 162A4:119; 5:162; 6:196; 7:248; 8:281; 9:318; 10:374; 164A5:93; 6:130, 151, 154; 7:203–204, 223–224; 8:271; 9:303, 316–317; 164B1:6; 6:63–64; 9:91; 12:131–135; 22:222, 224; 23:230; 24:238–245; 26:256–257; 165A3:74; 4:166; 5:259; 6:319; 7:372; 166A2:21–22; 6:94; 7:163; 8:189, 191; 9:253; 10:314; 11:363; 166B8:92, 96–97; 10:117; 17:181–185, 189–191, 194; 167A(1)4:79–80; 5:110–111; 6:148; 7:170; 8:204; 9:232; 10:265; 11:302; 12:339; 13:371; 14:414; 15:447, 456; 16:480; 167B32:354; 168A4:83; 5:145; 6:182; 169A3:114–116; 4:176; 5:220; 6:276–280; 169B1:7–9; 2:8, 18; 169S_A2:47, 51, 55, 58; 170A3:48, 79; 4:98, 131; 5:154, 176; 6:190, 207;

- 7:217, 236; 171A_A3:36; 5:58, 74; 6:78; 7:94;
171B_A3:84; 4:147; 5:217; 6:296; 7:341;
172A3:63; 4:138; 5:228; 6:287; 7:321;
174A_A3:75; 4:126; 5:173; 174A_B2:7;
175A3:79; 4:107; 5:134; 6:170; 7:192; 8:216;
9:261; 10:301; 11:333; 12:371; 13:417; 14:450;
15:479; 20:552; 177A1:48; 3:33; 4:48; 5:51; 6:43;
7:34; 8:50; 9:41; 178A4:77; 5:70; 6:49; 7:52–53;
8:47; 180A5:83; 6:163; 9:115; 12:119; 181A3:54;
4:40; 5:46; 6:73; 7:93–94; 8:75; 9:49; 182A4:63;
5:44; 6:66; 7:48; 8:52; 9:42; 10:53; 11:30; 12:44;
184A4:59; 5:57; 6:38; 7:56; 8:23; 9:68;
185A4:119; 186A1:13, 15, 31; 4:38, 128; 5:73;
186B1:20; 14:18–19; 188A1:52; 3:124–125; 4:78;
5:65; 189A1:89; 3:92; 4:37; 5:91; 6:104; 7:83;
190A1:79, 81; 4:64; 5:70; 6:46; 7:38; 8:44; 9:51;
194A3:46; 4:80; 5:63; 6:48; 8:53; 9:43;
195A1:21; 3:114; 4:132; 195B6:17, 21; 9:8; 10:4;
196A1:25; 4:33; 198A3:33, 93; 4:25; 5:26–27;
6:24, 57; 7:23, 53; 8:50; 199A8:35; 9:26; 10:39;
11:64; 12:69; 13:53; 14:38; 15:30; 202A1:106;
3:36; 4:48; 5:42; 6:47; 7:55; 8:67; 9:63; 10:58;
11:53; 12:63; 13:51; 204A1:65, 79; 3:59, 70;
4:61–64; 5:28, 30; 6:39, 41; 7:36, 38; 8:48, 50;
9:46, 48; 10:52–55, 69; 11:35–36; 204B1:32, 34;
14:18; 205A4:144; 5:82; 206A3:147; 207A4:57;
5:67; 6:66; 7:62; 8:58; 207B16:5; 208A3:57;
4:58; 5:48; 6:67; 7:57; 8:56
- vs. depth in serpentinites, 149B30:525
vs. deuterium, 164B22:223
vs. distance from ridge crest, 168A1:16
vs. grain size, 164B24:238–245
vs. iodide, 161B33:428–429
vs. lithium, 201A8:38; 207A4:59
vs. magnesium, 137/140B13:146; 169A3:118; 4:172,
178; 185A4:118
vs. magnesium oxide, 157B16:283; 23:406; 25:426;
209B2:6, 8–9
vs. methane, 189A6:104; 201B20:6–7
vs. oxygen isotopes, 134B8:121; 141B25:318;
152B25:296; 166B8:93, 96
vs. phosphorus, 144B22:422; 157B23:407
vs. pore water deuterium/hydrogen ratio,
129B16:300–301
vs. potassium, 169A6:279; 187B4:7
vs. potassium, strontium, and lithium, 160A5:115
vs. potassium oxide, 157B16:283; 25:427
vs. salinity, 133A(1)12:475; 13:524; 15:634; 182A6:67
vs. seawater, 125A8:159–160
vs. seismic reflectors, 204A3:61; 11:36
vs. sodium, 150X_B25:350; 160A8:254; 9:313;
161A8:387; 161B33:427–429; 162A4:119; 5:162;
6:196; 169A6:279
vs. sodium/chloride ratio, 164A5:93
vs. sodium + potassium, 137/140B14:160
vs. strontium, 156B25:315; 166B17:192
vs. subbottom depth, 141A6:120; 7:217–218
vs. sulfur, 157B23:407
vs. temperature, 162A9:319; 164A21:204
water-sampling probe, 164A7:196
- Yaquina Basin, 112A1:17; 27:462, 28:466;
112B25:423, 433–434; 32:521–522, 525
See also alkalinity/chloride ratio; boron/chloride ratio;
bromide/chloride ratio; calcium/chloride ratio;
fluoride/chloride ratio; iodide/chloride ratio;
lithium/chloride ratio; magnesium/chloride ra-
tio; silica/chloride ratio; sodium/chloride ratio;
strontium/chloride ratio; sulfate/chloride ratio
- chloride, dissolved
glaciation, 175A20:552–553
pore water, 201A1:31, 36, 39–40, 46; 6:18; 7:18; 8:17;
9:14; 10:15; 11:14; 12:14; 204A3:111; 4:109; 5:7
vs. depth, 201A6:44; 7:48; 8:37; 9:38; 10:39; 11:50,
83; 12:34; 201B5:23; 20:10
- chloride, low, anomalies, 207A5:30; 7:29–30
chloride, neutron capture cross section, 178A5:28
chloride/hydrogen ratio
pore water, 117A11:358, 366
vs. depth, 160A8:271
See also salinity logs
chloride/hydrogen ratio logs, vs. depth, 155A7:160
chloride logs
lithology, 185A4:46–47
vs. depth, 185A4:140–141
chloride/potassium ratio
fluid flow, 166A9:254
interlayer cation composition, 156B10:140
Pisco Basin W, 112B25:425
pore water, 131B14:181, 183; 166A8:190–192;
207A6:31
Salaverry Basin, 112B25:425
sediments, 182A4:31
Trujillo Basin, 112B25:425
vs. depth, 160A11:396; 14:487; 160B44:571–572;
166A9:253; 189A3:95; 207A6:68; 8:60
vs. magnesium/chloride ratio, 207A6:70; 8:61
- chlorine. *See* chloride
chlorine-37
pore water, 186B14:6–7
vs. depth, 186B14:20
chlorine isotopes
pore water, 164B12:129–137; 190A1:30
vs. chloride, 164B12:135
vs. depth, 164B12:131–135
See also chlorine-37
chlorine yield, vs. neutron porosity, 138A(2)17:1015
- chlorins
absorption, 202A10:51
deposition, 202A11:9–10; 12:9–10
lithology, 202A9:8
organic carbon, 184A5:16–17
sapropels, 160B24:298–302
sediments, 184A5:89–91
vs. chlorin mass accumulation rate, 175B23:38
vs. depth, 184A5:56
vs. total organic carbon, 184A5:56
See also mass accumulation rates; porphyrin/chlorin
ratio
- chlorite-amphibole schist, photograph, 195B4:15
chlorite clasts. *See* clasts, chlorite
chlorite grains, sandstone, 180B7:10, 17

- chlorite-hematite alteration halo, photomicrograph, 193A3:149
- chlorite-illite province
 continental shelf, 178B8:9
 deposition, 178B8:10–12
- chlorite/illite ratio, Site 682, 112B5:63
- chlorite intergrowths, photomicrograph, 193B6:14
- chlorite + kaolinite/illite ratio
 Lima Basin, 112B5:62, 74
 post-Oligocene silts and muds, 112B5:74
 Site 682, 112B5:63
 Yaquina Basin, 112B5:74
- chlorite + kaolinite mixed minerals
 relative abundance, 168B5:60
 sediments, 167B25:282–284
 vs. depth, 131B28:347–348; 136B5:69; 167B25:284; 204B7:12–14
- chlorite/kaolinite ratio
 chemical vs. physical weathering, 117B8:187
 Indus Fan, 117B8:186
 nannofossil clay, 184B14:2
 Owen Ridge, 117B9:187
 power spectra, 177B(synthesis):51
 sediments, 146B(2):7:92
 veins, 156A7:225
 vs. depth, 156A6:102–114; 184B14:7; 205A5:63
- chlorite layers, dolomite, 187A13:9
- chlorite/mixed-layer clays ratio, X-ray diffraction data, 178A4:23; 5:71; 6:50; 8:48
- chlorite-pyrite alteration, geochemistry, 193B8:1–18
- chlorite-quartz assemblage, Milankovitch frequency, 117B9:205
- chlorite/quartz ratio
 nannofossil clay, 184B14:2
 vs. depth, 184B14:7
 vs. composite depth, 145B15:241
- chlorite-saponite mixed minerals
 altered materials, 127/128B(2):55:884–888
 chemical composition, 127/128B(2):55:885–887
 isotopes, 127/128B(2):55:888
 sandstone, 127/128B(1):9:139
 Site 794, 127/128B(2):55:885
 X-ray diffraction data, 127/128B(2):55:886
- chlorite schist
 chemical composition, 149B26:451
 erosion, 181B1:27
 photograph, 195A3:96
 photomicrograph, 195A3:98
- chlorite-smectite mixed minerals, alteration, 129B19:367
- chlorite/smectite ratio, fluctuations, 107A6:142
- chlorite/total clay minerals ratio, vs. depth, 141A10:362
- chlorite-tremolite schist, photomicrograph, 195A1:43; 3:95; 195B4:16
- chlorite veins. *See* veins, chlorite
- chlorites
 abundance, 104B2:32–34; 111A3:125; 160B19:241
 alkaline basalts, 144B28:487
 alteration, 118B9:211; 147A3:69–71; 147B14:289; 15:307; 149B32:547; 169A3:81–86; 176B1:4–5; 6:4; 179A2:5; 183B15:6–9; 187A1:11; 11:9–10; 13:8–11; 187B1:7–8; 5:8; 197A3:26–30; 205A4:32; 206A3:66; 209A5:82, 84; 8:3
 alteration minerals, 111A3:60–67; 133B37:538; 135A(1):11:644; 135B40:658; 137A2:28–29; 139A7:498–510; 139B10:155–201; 144B28:478–480, 484–487; 148B8:103; 152B10:131; 193B5:1–10; 11:1–19
 amphibolites, 173A6:130–131; 7:190–191
 authigenic minerals, 149B31:532
 basalts, 144B29:497; 169A5:213; 6:272; 210B9:14–15
 basement, 131A6:155; 173A1:10; 196A3:31; 206B8:3
 breccia, 173A6:131–132; 7:188–189, 193–195; 173B1:3–5; 193A4:41–44
 Broken Ridge, 121B27:521
 Cagayan Ridge, 124A12:310–311
 carbonates, 144B26:462–463
 cataclastic deformation, 147A3:74–76
 Celebes Sea, 124A10:138–139, 175
 chemical and nuclear parameters, 178A5:137
 chemical composition, 107B11:160; 110B7:104–109; 137/140B13:149; 147B15:306; 148B8:107; 10:124; 11:163; 149B26:455, 467; 176B1:10; 9:49–50
 chemical weathering, 113A10:538; 117B9:206
 clasts, 147A4:133–134; 149A6:166–167; 173A7:189–192; 9:282–283
 clay, 119B3:50; 180B17:20; 190/196B4:10–11; 6:7–8
 Conical Seamount, 125B25:419
 continental shelf, 178B8:9
 core PS1565, 178B8:15
 corona structures, 118B8:172
 Costa Rica Rift, 111A3:124; 111B6:62, 64, 68–69
 dating, 113A5:99; 6:197; 8:344; 10:539; 11:623; 113B5:57–63
 deep copper zone, 169A3:77–78
 deformation, 209A6:20
 diabases, 180A12:26
 diagenesis, 159A9:303, 305; 180A9:42; 180B6:19
 diffuse reflectance spectrophotometry, 188B7:9
 disseminated sulfides, 169A6:270
 distribution, 116B4:36–40
 downslope transport, 119B12:231
 drift deposits, 178B8:7–16
 dust, 130B28:474–477, 480–485, 489–490
 electron microprobe data, 137/140B18:210–211; 149B32:547
 electron microscopy, 160B34:443–444
 faults, 180A1:13; 6:41; 11:4
 folds, 173A6:143–144
 gabbro sills, 205A4:28
 Galicia margin W, 103B5:55, 57
 geochemistry, 137/140B6:67–72; 169B6:5–6, 14, 17; 193B8:5;
 geothermometry, 137/140B15:178–179
 grain size distribution, 162B17:239–240
 green clay, 184B15:4, 14
 greenschist facies, 176B9:18–19
 hemipelagic mud, 131B2:22, 24–29
 hexagonal particles, 107B11:161
 high-grade schist, 161A6:215
 high-latitude marine sediments, 119B10:198

- high-resolution image, 147B13:246
 high-temperature facies, 139A6:212
 histogram in serpentinite, 149B32:551
 hydrothermal alteration, 135B20:316; 137/
 140B14:157; 139B11:214; 12:298–302;
 158A8:161; 10:197; 179A4:43–44; 179B(synthe-
 sis):8; 193B1:14–16; 209A5:12; 6:10; 10:12–15
 hydrothermal events, 193B1:24–25
 hydrothermal fields, 158A1:9–10; 158B1:14; 18:236–
 241; 27:368–369
 hydrothermal veins, 153A3:79; 4:162–163; 5:202,
 207; 6:242, 250–251; 7:267–270; 153B30:524
 hydrous fluids, 149B32:546–548
 igneous rocks, 139A7:511
 Indus Fan, 117A8:181; 6:188–189
 influence of water/rock ratio, 118B8:174
 iowaite, 125B17:315
 Iran-Makran source area, 117B8:193, 198
 iron oxide-magnesium oxide-aluminum oxide plot,
 169B6:18
 iron oxides, 107B15:235; 148B6:83
 isotopes, 147B14:281
 Japan Sea sediments, 127/128B(2)78:1235–1241
 Kerguelen sediment ridge, 119B11:244
 lava, 134A8:153; 169A3:93–94
 light absorption spectroscopy, 199A5:5–6
 lithology, 134A10:273; 152A9:116; 159A7:233;
 160B34:438; 162A8:263; 9:298; 165A4:138;
 167A(1)13:357–359; 169A6:267; 173A4:75;
 6:126–130; 174A_A4:113–115; 174AX_A1:32;
 174AXS_A6:34; 180A5:8–9; 7:7–8; 12:10;
 180B6:6, 9–13, 16; 187A13:3–4; 188A3:13–14;
 193A3:26–33; 4:24–41; 195A3:14; 210A4:7
 lower sill complex, 210A3:69
 mafic rocks, 149A7:234–235
 magmatic structures, 176A3:60
 magnesian composition, 118A6:138
 meta-anorthosite, 173A6:131
 metadiabase, 180A7:15
 metamorphism, 118B28:735; 139A6:236;
 152B34:422–423; 153B21:391–393; 173A6:136
 metasediments, 173A8:246–249
 mica schist, 180A7:12–13
 middle-upper Eocene sedimentology, 210B8:12–13
 mineral chemistry, 147B14:263, 301; 152B10:137,
 140–141; 34:420–422; 153B9:168–170, 173–176;
 180B3:24–25
 mineralogy-porosity inversion, 156B16:224–225
 modal composition, 148B5:66; 155B7:150
 moderate-temperature minerals, 176A3:36
 molar compositions, 111B3:30
 mylonites, 180A11:6; 209A3:12
 nannofossil clay, 184B14:2
 negative illite correlation, 119B13:247
 Norwegian Sea, 104B2:29–31
 origin, 143B12:191
 Owen Ridge, 117A3:39; 10:282–283; 117B8:187;
 23:412
 oxygen isotopes, 111B3:35; 147B14:280
 paleoclimatology, 184B19:6–7; 22:3–4
 peak areas and heights, 113B3:29; 119B10:199
 Pearson correlation coefficients, 152B4:43, 46
 petrography, 148A2:47; 160B36:455; 161B27:357–
 359; 187A13:5
 photograph, 139A7:526; 152B10:144; 153A3:70, 83–
 84, 87–88; 4:130, 135, 138–139, 144, 146, 155–
 158, 163; 5:183, 189, 196–197, 201–205; 6:243–
 245, 249–250; 7:265, 270; 153B3:43, 45; 7:138;
 9:167–171; 22:403; 30:528; 158A7:132; 10:198–
 201; 158B18:246–249, 254; 165A6:328;
 169A3:92–93, 106–107; 6:272; 170A3:62;
 173A6:129; 7:188, 190; 9:281; 180A6:130;
 187A11:16, 29; 193B1:57; 206A3:238; 209A3:85,
 87; 5:123; 6:51
 photomicrograph, 113B18:231; 147B14:291;
 157A7:358; 161A6:247; 161B19:277; 169A3:94–
 95; 6:271; 173A7:192; 8:251; 180A11:15–16, 25;
 12:91–93; 180B3:26; 187A8:36; 11:28; 13:16, 21,
 25–29; 193A3:166; 4:101; 193B1:56; 200A3:82,
 91; 209A3:86, 89; 5:85; 6:67–68, 73–76; 10:85,
 93–94
 potassium logs vs. photoelectric effect logs, 178A5:85
 principal component analysis, 104B2:34–37
 provenance, 107B20:325; 160B19:238
 Prydz Bay, 119B6:86
 pyroclastic sequences, 124B13:184, 186–187
 quartz gabbro, 180B3:5–6
 rare earths, 169B6:20
 recrystallization, 159B10:97
 reflectance, 184B22:9
 relative abundance, 141A6:87; 190/196B6:5
 replacement, 118A3:53; 6:138
 sandstone, 127/128B(1)9:134, 139; 210B2:4–5
 Sardinian margin, 107B11:158–159, 161–167
 scanning electron microscopy, 110B16:255
 schists, 161B19:265
 seawater downflow vs. upflow, 118B9:208
 secondary minerals, 137/140B15:172–173, 180–181;
 148A2:45–53; 3:141; 148B6:77, 82, 86;
 149A4:80; 180B3:8
 sedimentary regimes, 195B3:9
 sedimentation, 161B2:30
 sediments, 131B28:347; 31:391–392; 139A5:129;
 6:208–209; 7:328–329; 139B8:115–116;
 141B7:99; 146A(1)5:154; 6:253; 146B(2)7:92–
 94; 149B40:748–749; 150X_B4:50, 53;
 155B9:179–191; 161B2:24; 172B5:4;
 174A_B(synopsis):8–9; 178A1:50; 8:49;
 181B1:26–27; 3:5–6, 20–21; 184B19:5;
 188B13:11–12; 204B7:5
 serpentines, 125B18:332
 serpentinites, 149B31:530; 42:543–544; 153B3:39, 47;
 173A7:192–193; 9:280–282
 sheeted dike complexes, 148B33:410–411
 siliciclastics, 133B30:462–470
 silicification alteration, 193A3:41–47
 sills, 139B6:94; 8:116–117; 210A3:67–68
 silty clay, 150B11:195–199
 Site 671 comparison, 110B6:91
 Site 672 comparison, 110B6:91
 Site 724, 117B23:412
 Site 738, 119B10:194

- Site 744, 119B10:194, 199
 Site 778, 125B25:424
 Site 779, 125B25:425
 Site 786, 125A14:318
 Site 798, 127/128B(1)24:411, 416, 418
 sources, 116B4:37, 40; 5:54–55; 117A3:35; 117B8:185,
 198; 9:202; 118B7:147; 119B6:113–114;
 123A4:150–151
 spectral data, 164B31:319–322
 strontium isotopes, 158B22:306–308
 sulfides, 169A3:69; 176B7:6
 Sulu Sea, 124A15:217–218; 16:261; 19:263
 tectonic breccia, 173A6:132
 temperature effects, 103B16:249
 ternary diagrams, 139B10:182–183
 terrigenous component, 189B11:4–5
 thermal diagenesis, 159B6:57–63; 10:97–98
 thorium/potassium ratio, 171B_A4:167; 174A_A4:150
 tonalite gneiss, 173A6:141
 Torishima Forearc Seamount, 125B25:423, 427–428
 trace elements, 169B6:19
 troctolites, 147B14:270, 274
 turbidites, 131A6:96–97; 168A4:57–59
 ultramafic rocks, 125B26:437; 147B14:272–273
 veins, 118B27:551; 169A3:75–76; 5:216–217;
 173A6:144–145; 176A3:45; 176B9:11; 209A5:87
 volcanics, 131B13:171–177; 141B28:352–355
 volcanoclastics, 180B3:3–4; 7:6–7
 volume percentage, 158B21:290; 209A3:92
 vs. actinolite, 153B21:395
 vs. age, 167B18:232; 178B8:27; 181B3:10; 184B19:18;
 189B11:9
 vs. composite depth, 145B15:235
 vs. depth, 111B6:66; 131A6:121; 140A2:66;
 145B43:658, 660; 148A2:52; 152B4:42;
 155B10:202–213; 160B18:221, 223; 161B2:29;
 168A5:113; 169B6:14–17; 173B1:7, 11;
 178B(synthesis):38; 8:23–26; 181A3:39;
 181B1:100; 184A5:40; 6:31; 7:44; 9:60;
 184B14:5–6; 188B13:34; 189A6:88; 190/
 196B4:22–23; 5:16, 18; 6:20–22; 193B5:5–6;
 195A3:76–78; 197A3:100, 102; 204B11:13–16
 vs. temperature, 137/140B15:179
 X-ray diffraction data, 106/109A5:154; 134B9:144;
 139B8:116–117; 9:142–146; 141A6:84;
 156B16:222; 172B5:21; 173A9:285; 178A4:79–
 80; 5:20, 71; 6:15, 50; 8:15, 65, 79; 185A4:66;
 185B9:20; 186A4:90; 188A4:16; 190/196B4:20;
 5:6; 210A3:52, 237
 X-ray fluorescence data, 161A6:238
 xenoliths, 193B6:3
 zoning, 139B17:355–358
See also brunsvigite; chamosite; clinocllore; diaban-
 tite; hydroxychlorite; illite/chlorite ratio; illite/
 (kaolinite + chlorite) ratio; kaolinite/chlorite ra-
 tio; magnesium-chlorite; penninite; picnochlo-
 rite; quartz-micaceous chlorite rocks; ripidolite;
 smectite/chlorite ratio; smectite-chlorite mixed
 minerals; sudoite; talc-chlorite series; veins
 chlorites, fibrous, photograph, 169A3:82
 chlorites, fibrous magnesium-rich, photomicrograph,
 169A3:86
 chlorites, groundmass, electron microprobe data,
 148B8:106
 chlorites, iron, sediments, 139B8:115–116
 chlorites, magnesian
 hydrothermal alteration, 169A6:259; 210A3:56–57
 photograph, 169A3:80
 porphyroblasts, 210A3:239
 Sardinian margin, 107B11:155
 chlorites, schistose, photograph, 209A6:95
 chlorites, secondary, vs. depth, 176A3:135
 chloritite, foliation, 173A4:201
 chloritization
 alteration, 139B8:127; 158A8:162–163; 169A3:82–84
 biotite, 141A8:274
 cataclasts, 173A4:199
 chemical effects, 148B4:49
 clay mineralogy, 169B6:7
 deformation, 173A9:285–288
 enrichment/depletion diagram, 169A3:99
 geochemistry, 158B19:271–273; 21:290–291;
 169A3:99
 hydrothermal fields, 158A1:10, 12; 158B19:264–270
 lithology, 170A4:108
 oxygen isotopes, 158B21:293
 photograph, 158A7:132; 10:200; 158B18:248, 254;
 169A3:92–93; 6:272
 photomicrograph, 169A3:94–95
 sandstone, 146B(1)29:426
 sills, 169A3:91–93
 sulfides, 169A3:76
 veins, 169A3:75–76
 chloritoids, composition, 155B7:151–152, 165
 Chlorobiaceae, biomarkers, 207A10:7
 Chloroflexi phyla, bacteria, 201B1:18; 2:6
 Chlorophyceae, kerogen, 157B35:599
 chlorophyll
 circulation, 161A1:12–13
 paleoclimatology, 202B12:9
 productivity, 138A(1)7:96–98; 199A1:53; 199B1:34
 sapropels, 160B24:298–302
 vs. water depth, 202B12:36
 See also deep chlorophyll maximum
 chlorophyll-*a*
 concentration, 202A1:109; 8:33; 9:32; 10:31; 11:26;
 12:27; 13:24; 202B12:36
 vs. water depth, 202B12:36
 See also chlorins; chlorophyllone alpha
 chlorophyllinite, Sites 798–799, 127/128B(1)38:669–670
 chlorophyllone alpha, sapropels, 160B24:298–302
 “chlorozoan” facies, neritic, microfacies, 133B21:293
 cholesta-5-en-3-ol, sediments, 175B5:8–9; 10:8–10
 5-cholestan-3-ol, sediments, 175B5:8–9
 cholestan, organic-rich layers, 161B30:396–397
 cholestane, biomarkers, 207A10:6
 cholesterol
 alteration, 139B24:457
 concentration, 175B10:30
 organic-rich layers, 161B30:396–397
 sapropels, 160B21:266

- sediments, 162B15:213; 175B10:8–10
- Chondrites*
- bedding, 159A6:186
- chalk, 160B32:410
- claystone burrows, 119A6:171
- composition, 113B1:8
- Coniacian, 159A9:306
- deposition, 171B_A6:260, 262
- Gortani Ridge, 107B4:62
- ichnofacies, 138B10:183–184
- laminations, 160B27:337–338
- lithofacies, 160B32:408; 169A3:56
- lithologic motifs, 173A7:168
- lithology, 133A(1)16:692; 138A(1)12:344; 149A4:52, 55; 5:124; 6:158; 7:221; 152A9:116; 11:196, 198, 204–205; 154A4:61; 5:157; 156A7:203; 159A5:77–80, 98; 6:164–166; 7:228; 160A4:59–60; 8:220–223; 9:294; 10:341–342; 12:423; 161A5:118; 7:304–305; 8:357–358, 361; 9:394; 165A4:145; 166A9:239–242; 10:298–299; 167A(1)6:133; 10:246–247; 11:289–291; 12:318–320; 14:395; 16:468; 171B_A3:53, 55; 4:101, 114, 116; 5:180–181, 186; 6:251, 253, 257; 7:324; 172A4:84, 90–91; 5:164–165, 168–174; 6:257–258; 173A4:71–77; 6:110–114; 174A_A4:104, 111; 5:157–162; 178A4:6; 5:6–7, 11–12; 180A6:12, 15–16, 20–21; 8:5; 9:10, 24; 10:9; 12:5, 11, 13; 181A1:25; 3:5–8; 4:5; 6:7–9, 12; 7:5–11; 8:5–6, 8; 9:5–7; 182A1:22; 4:6–9; 5:7; 6:4–5, 8; 7:8–10; 10:7; 183A6:6–7; 7:5–6; 184A4:9–10; 7:9; 9:8–11; 186A1:10; 4:18–19; 189A3:12–14; 6:15, 18; 7:13–16; 190A4:7–8; 6:6–7; 8:6; 191A4:11–13; 192A3:10–11; 194A3:6; 4:7; 6:4–6; 198A4:9–12; 199A11:9; 201A6:12; 11:9–10; 205A4:21; 206A3:23–26; 207A4:5–7; 5:5–7; 6:5–8; 7:5–9; 8:7–8; 210A3:22–25, 34, 37
- Marshall Paraconformity, 181B1:107
- Marsili Basin, 107B4:62
- metasedimentary rocks, 152B10:130–131
- millennial cycles, 167B25:277–296
- mottling, 149B17:339
- mudstone, 113A9:462
- Neogene, 159A9:308
- normalized light rare earths, 104A4:100
- Norwegian Sea, 104B19:379–380
- occurrence, 152A13:283
- Oligocene, 181B1:41
- Pacific Ocean E, 138B10:178, 183–185, 187
- photograph, 138A(1)9:137; 149A4:56, 157; 152A11:200, 207–208; 159A5:79, 99; 6:164–165; 160A4:66–69; 5:99; 7:169–171, 196; 8:235, 237; 9:299; 10:350–351; 161A5:120; 6:197; 8:361, 364–366; 166A9:240–241; 167A(1)10:246; 169A3:62; 172A5:168; 173A4:82–83; 174A_A5:162; 177A5:36; 180A6:93; 8:47; 180B9:21; 181A3:42; 6:56; 7:37; 186A4:80; 190A5:41; 194A3:29; 6:36; 198A4:46; 205A4:75; 207A6:47; 210A3:153, 158, 161–162
- photomicrograph, 160B27:342; 173A4:79
- radiolarite layers, 129B32:597
- rare earths, 106/109B30:317
- Sardinian margin, 107B4:62
- sedimentation, 166A9:267
- sediments, 116B2:15–20, 23; 3:29; 119B33:636–641; 131B26:318–319; 138A(1)11:281–285; 157B32:564; 174A_B3:6, 9; 183A8:5; 184A1:27
- Site 261, 123B1:27
- Site 698, 114A5:99, 104, 118; 114B6:127
- Site 699, 114A6:157, 159–161
- Site 700, 114A7:260–261, 266; 114B6:127
- Site 702, 114B6:127
- Site 704, 114A11:636
- Site 808, 131A6:85
- Site 810, 132A4:82
- Site 840, 135B(1)12:179
- Site 844, 138A(1)9:127, 137
- Site 845, 138A(1)10:199, 209–210
- Site 846, 138A(1)11:282–285
- Site 847, 138A(1)12:344
- Site 850, 138A(2)15:817
- Site 851, 138A(2)16:902
- Site 852, 138A(2)17:975
- Site 853, 138A(2)18:1029
- Site 854, 138A(2)19:1068
- size, 113A11:621
- Tiburón Rise N, 110A5:216
- turbidites, 139B7:107–108
- Tyrrhenian Sea, 107B4:62
- See also* bioturbation; burrows
- chromaticity
- blue-yellow wavelength, 208A5:28
- comparison with nannofossils, 189A6:79–80
- composite digital images, 208A3:41–42; 4:43
- composite section, 175A3:71; 6:160–161; 8:211; 10:292, 294
- correlation, 146B(2)7:175; 172A3:47–48; 4:102–104
- gamma rays, 195B12:16
- lithology, 178A5:45; 7:35, 39; 178B6:3; 201A8:9; 10:10; 11:9–10; 12:7–11; 206A3:24–26; 208A6:6–10
- red-green wavelength, 208A3:42
- sediments, 171B_A4:136–139; 178B(synthesis):13
- vs. age, 146B(2)12:190–191
- vs. composite depth, 178A7:62, 64–65, 68–69
- vs. depth, 171B_A5:177–179; 172A3:50–52; 4:108–113; 5:193–201; 6:256, 272–276; 178A4:49–51, 98–99; 5:88–89; 8:33; 189A3:71, 73; 6:79–80; 192A1:52; 4:40; 201A7:60; 202A1:118, 121, 124–134, 137–141; 3:26, 30; 4:29; 5:28; 6:29, 32; 7:39; 9:49, 52; 11:37; 206A3:33, 126; 208A4:36, 41, 48; 5:30, 35, 38; 6:42, 50, 53–56; 7:32, 34, 39, 41, 45; 8:35, 39, 42, 44
- vs. oxygen isotopes, 172B9:7–9
- vs. reflectance, 208A3:38
- See also* color; Commission Internationale de l'Éclairage chromaticity; lightness; red/blue spectral ratio; reflectance
- chromaticity ratio, lithology, 170A3:93; 4:152; 7:247
- chromatograms, mass, hexane eluates, 208A6:70
- chromatography, pyrolysis-gas, 127/128B(1)35:627–628, 632–633

- chrome diopside
 lithology, 176A3:13–14
 troctolitic rocks, 118B26:447
- chrome spinel
 alteration, 137A2:24–27; 137/140B14:157; 192A1:19–21
 basaltic andesite, 135A(1)9:450
 basalts, 135B33:565–584; 187A1:8–9; 191A4:28–29
 boninites, 125B12:229
 Celebes Sea, 124B20:277
 composition, 103B12:198–199, 203; 124B19:263; 129B5:141; 17:331–333; 135B29:522; 30:535–536, 539, 542; 163X_A8:22
 Costa Rica Rift, 111A3:57–58
 crystals, 129B5:140; 17:319
 dunites, 195A3:17–18
 electron microprobe data, 135B25:470
 geochemistry, 200A3:30–31
 harzburgites, 195A3:16–17
 igneous units, 163X_A6:21–23
 iron-chromium-aluminum system, 163X_A8:22, 37
 lava flows, 197A3:21; 5:14–15; 6:13
 lherzolites, 195A3:18
 lithology, 187A6:4; 209A6:8
 magmas, 135B55:893
 magnesium number, 127/128B(2)51:843
 mineral chemistry, 124B20:284, 291
 modal data, 135B25:433–455
 occurrence, 106/109B3:21, 25; 4:38–39; 120B(1)9:118, 125–127; 127/128B(2)52:853
 peridotites, 125B27:450, 455–456, 468–473
 petrogenic indicator, 127/128B(2)51:837–847
 petrography, 187A15:5; 192A5:13–14
 photograph, 209A6:51
 photomicrograph, 163X_A6:40; 176A3:127–130, 187A6:19–20; 191A4:101; 192A1:62; 5:53, 56, 59–60, 63, 66–67; 7:31; 193B6:8; 195A3:80, 88; 197A1:21, 87; 3:81, 91–92; 5:65–66; 6:43–44, 58–60, 63
 serpentinized peridotite, 125B33:563–564; 173A7:192–193; 9:280–282
 Site 786, 125B10:182
 stability in basalt and diabase, 140A2:62–63
 Sulu Sea, 124A11:253, 255, 263
 tholeiites, 129B17:317; 19:371
 troctolites, 118B26:441, 447, 470
 ultramafic rocks, 125B26:431
 volcanic basement, 163X_A8:8
 xenoliths, 193B6:2
See also ulvospinel
- chrome spinel, relict, photomicrograph, 197A6:53, 64, 66
- chrome spinel phenocrysts. *See* phenocrysts
- chromian spinel. *See* chrome spinel
- chromite
 basement, 183A8:17
 chemical composition, 193B3:27
 electron microprobe data, 113B1:7; 148B8:105
 fractionation, 115B7:80
 hydrothermal alteration, 209A6:10
 hydrothermal veins, 153B30:524
 lithology, 180A10:11–12
 mineral chemistry, 153B30:527
 mineralization, 193B3:4
 Nazareth Bank, 115B3:26
 occurrence, 127/128B(2)51:840
 photomicrograph, 183A1:92; 8:52; 209A6:53
 ultramafic rocks, 147B4:79
 volcanoclastic sandstone, 180A7:16
 vs. depth, 147B4:78
See also ferrichromite; chrome spinel; magnesio-chromite; spinel
- chromite grains, volcanoclastic sand, 180B7:6
- chromitite
 lithology, 209A6:8
 mid-ocean ridges, 209A1:35–36
 origin, 147B7:146
 petrography, 147B7:139
 photograph, 209A6:51
 photomicrograph, 209A6:52–53, 81
- chromitite, podiform
 lithology, 209A6:8
 origin, 147B7:145
 photograph, 209A1:112
- chromium
 Atlantis Bank, 118B6:136
 basalts, 115B8:87; 119B16:303, 317; 121A11:333; 12:399; 130B1:7–10, 14–20; 131B16:206; 134A9:199–200; 139A5:137–138; 145A5:136, 138; 158B17:218; 163B7:70; 165A6:329; 180A12:27; 183A5:34–35; 185A3:17; 187A3:9; 6:10–11; 7:11; 8:11; 9:8; 10:5; 11:12; 14:7; 15:11; 191A4:32; 192A6:17; 7:8; 195A4:23; 210B9:16
 basement, 123A4:195, 198–199; 128A3:99; 183A6:48; 8:18; 9:27–28
 black shale, 210B8:16; 10:5
 bulk sediments, 165A4:202
 Cagayan Ridge, 124B19:256–257
 chromium-titanium vs. magnesium number, 127/128B(2)53:867
 clinopyroxenes, 176B10:12
 cooling units, 129B19:366
 Cretaceous/Tertiary boundary, 119B39:724; 130B45:747–748; 207B1:23
 cyclical variations, 118B1:5
 deep-sea sediments, 185B7:5
 depletion, 156B13:173
 depletion in vesicles, 135B37:615
 detrital component, 167B23:266–270
 diabases, 118B26:480; 129B18:348; 137/140B9:108; 140A2:152; 153B10:223; 19:372; 180A6:36; 209A7:23
 fine-grained sediments, 210B8:14
 fractionation index, 129B19:383
 gabbros, 118B26:480; 176B6:19; 8:3–14; 179A2:5; 4:45–47; 179B(synthesis):17; 205A4:34; 209A3:35–36; 6:30; 10:24–25
 geochemistry, 117B23:413; 147A4:144
 hornblende, 176B10:14
 hyaloclastite, 206A3:70
 hydrothermal alteration, 147B26:450; 206A3:71

- hydrothermal clays, 158B17:218
hydrothermal sediments, 199B15:3
igneous rocks, 135A(1)8:370–372; 163X_A6:22–23;
209A5:36; 10:26
in volcanic rocks, 183B17:2
lava, 134A10:277–278; 163A4:39–40; 5:59–60, 64;
183A1:14; 206B1:6
lithology, 183A1:22, 33; 4:19; 210A3:29, 32, 35, 54
melting, 125B12:227–228; 147B2:44
metabasaltic clasts, 158B17:218
metamorphic clasts, 195B4:8
metasedimentary rocks, 152B10:136
microbial activity, 158B2:30; 168B14:171; 205B8:7–8
Ninetyeast Ridge, 121A10:280
oceanic anoxic events, 210A3:98
oxide-bearing gabbros, 118B26:483, 486
Paleocene/Eocene boundary, 199B16:3
percent change from protolith, 137/140B17:203
peridotites, 209A3:34; 6:29; 7:22
phenocrysts, 163X_A6:23
provenance, 165A6:322
pyroxenes, 129B17:316–317
quartz gabbro, 180A11:6
saponite, 168B12:154
scandium-normalized distribution, 119B39:724
sediments, 145B28:428–431; 165B6:117–118;
167B23:265; 170A6:206; 171B_B4:4–5;
178A4:23; 5:21; 6:15; 178B4:1–12; 180B6:5–24;
7:5, 21
serpentinites, 125B18:336, 340; 149A4:81;
149B30:523; 173A9:284; 195A3:20; 195B4:7
shipboard vs. shore-based digestion, 206B3:14
shore-based flux vs. shore-based microwave acid di-
gestion, 206B3:12–13
Site 748, 120B(1)1:23
Site 778, 125A6:104
Site 779, 125A7:122–123
Site 780, 125A8:155
Site 781, 125A9:186
Site 783, 125A11:258
Site 784, 125A12:280
Site 786, 125A14:327, 329
Site 795, 127/128B(1)41:706
Site 797, 127/128B(2)58:920
Site 798, 127/128B(2)86:1368–1369
spinel, 129B17:317, 319; 135B34:585–594; 139B6:90;
149B31:532–534
Sulu Sea, 124A11:265; 124B19:256–257
stratigraphy, 163X_A8:12, 34
terrigenous component, 127/128B(1)42:723;
165A5:261, 321
tholeiitic basalt, 192A5:15
troctolites, 209A10:23
tuff, 129B4:127
volcanics, 121A13:474; 161B27:364–369; 163B7:67;
165A4:169–170
vs. age, 185B7:20
vs. alteration percentage, 137/140B9:109; 148A2:62
vs. aluminum, 127/128B(1)42:733
vs. aluminum oxide, 209A5:153; 6:104, 107; 7:95;
9:87; 10:118
vs. barium, 137/140B9:111
vs. calcium carbonate, 149B30:524
vs. calcium number, 147B1:15
vs. calcium oxide, 180B6:33
vs. cerium/yttrium ratio, 153B13:283
vs. clinopyroxene number, 176B8:25
vs. depth, 129B18:351; 131B7:116; 28:350, 356–357;
135A(1)9:449; 139A6:224, 226; 139B11:230–
250; 145B28:430; 147A3:91; 147B1:13; 11:217;
26:448; 148A2:61–62; 3:158; 148B2:14; 4:48;
10:137; 149B30:524; 156B13:179, 181;
157B27:454; 160B16:201; 176B6:51; 8:12–13,
27, 29–30; 179A4:125; 180A6:132; 180B6:34;
183A1:81; 5:98, 121; 6:135; 8:66; 9:93;
185A3:107; 199B15:5; 16:6; 200B1:28; 2:14;
205A4:114; 206A1:84; 206B3:15; 210B8:51
vs. diopside, 147B1:15; 164B15:157; 167B23:267;
170A6:210; 171B_B4:10
vs. europium number, 147B1:14
vs. iron, 148B3:28
vs. iron oxide/magnesium oxide ratio, 121B29:567–
568, 571; 180A12:95; 200B2:16
vs. lanthanum/samarium ratio, 137/140B9:115
vs. loss on ignition, 148B10:140
vs. magnesium number, 137/140B1:9; 141B28:359;
144B28:481, 484; 147B1:10, 15; 148A2:59;
3:156; 148B3:28; 153A4:147; 6:239;
153B31:538; 176B8:25; 179B2:38; 209A10:117
vs. magnesium oxide, 153A3:78; 163X_A8:32;
176A3:49, 169; 180B6:14, 16; 187A3:25; 4:18;
5:18; 6:37; 7:34; 8:52; 9:22; 10:25; 11:36; 12:42;
13:42; 14:29; 15:43; 200B2:11; 206A1:89; 3:200;
209A7:99
vs. nickel, 140A2:92; 141B28:358; 149A4:82;
180B6:12, 14, 35, 37; 195B4:22
vs. platinum + palladium, 147B4:85–86
vs. silica, 209A3:140; 5:156
vs. strontium, 137/140B9:111
vs. subbasement depth, 148A3:159
vs. titanium, 134B16:345; 135B43:702; 153B28:496
vs. titanium oxide, 192A1:48; 4:17, 86; 5:72; 6:74;
7:35
vs. yttrium, 195A1:59; 4:115
vs. vanadium, 141B28:358
vs. water content, 148A2:62; 3:160
vs. yttrium, 128A3:101; 134A11:346; 165A6:331
vs. zirconium, 121B30:574; 129B18:357; 142A4:70;
157A7:363; 8:418; 157B12:169, 171; 205A4:118
vs. zirconium/yttrium ratio, 143B16:274
xenoliths, 193B6:3
websterite, 153B16:323–324
See also cerium/chromium ratio; iron-chromium-alu-
minium system; zinc-copper-nickel-cobalt-chro-
mium diagram
chromium/aluminum oxide ratio
Site 765, 123B8:177–178, 182
vs. depth, 131B35:445
vs. silica/aluminum oxide ratio, 170A5:182
chromium/aluminum ratio
aridity, 117B24:438–439
hydrothermal alteration, 209B1:10

- monsoonal influence, 117B23:413
- nannofossil clay, 184B12:6–7
- oceanic anoxic events, 210A3:98
- Oman margin N, 117B24:432
- Owen Ridge, 117B24:432, 437
- periodograms, 117B23:415
- sedimentation, 160B17:213–214
- sediments, 171B_B4:4
- vs. depth, 157B31:554; 160B17:210–212; 171B_B4:12; 210A3:280
- wind velocity, 117B24:434–435
- chromium/barium ratio, basement, 128A3:99
- chromium/(chromium + aluminum) ratio
 - mafic and ultramafic rocks, 153B10:184–185, 189
 - mantle sources, 209A1:81
 - vs. forsterite, 147B7:151–153
 - vs. iron/(iron + magnesium) ratio, 153B29:516
 - vs. magnesium/(magnesium + iron) ratio, 134B16:347; 139B6:90; 147B7:151, 454
 - vs. titanium oxide, 147B6:124; 7:152; 27:455
- chromium diopside. *See* chrome diopside
- chromium/iridium ratio, Site 738, 119B39:724
- chromium oxide
 - alteration, 168B10:128; 187B5:10
 - amphiboles, 118B3:56; 153B5:97; 209B4:5
 - clinopyroxenes, 118B1:6; 3:53, 65; 6:140; 135B27:493–494; 153B27:488–489
 - diopside, 176B9:10
 - gabbros, 179B(synthesis):24, 29
 - orthopyroxenes, 118B3:53
 - spinels, 152B33:407
 - vs. aluminum oxide, 153B14:288; 16:324; 29:514; 209B2:6, 8–9
 - vs. calcium oxide, 153B14:288; 157B12:150; 15:240–245
 - vs. depth, 149B23:422–423; 27:482; 179B(synthesis):93
 - vs. magnesium number, 137/140B3:37; 11:126; 142A4:71; 153B5:95; 11:254; 13:279; 14:299; 16:325; 17:339; 176B10:39, 41; 179B(synthesis):85
 - vs. nickel oxide, 209B2:6, 8
 - vs. titanium oxide, 147B7:151; 27:455
 - vs. wollastonite, 137/140B15:169
 - xenoliths, 193B6:2
 - websterite, 153B16:323
- chromium/neodymium ratio, vs. europium number, 147B1:15
- chromium/nickel ratio
 - gabbros, 153A5:193
 - vs. aluminum oxide, 153A3:78
 - vs. calcium oxide, 153A3:78
 - vs. depth, 164B15:162
 - vs. nickel, 153A4:148; 5:195; 6:240
- chromium number
 - electron microprobe transects, 147B8:164; 9:179–180
 - spinels, 147B8:165; 149B12:391; 153B11:256, 260; 159B14:134, 136; 163B11:124–134; 209B4:4, 6
 - vs. across-channel variations, 153B12:273
 - vs. aluminum oxide, 153B14:299
 - vs. depth, 209B4:5, 19–20
 - vs. forsterite, 157B22:382; 209B4:17
 - vs. magnesium number, 149B21:386; 153B12:269; 13:281; 14:299; 157B22:381; 159B15:137; 163B11:127–128; 209B2:7; 4:14
 - vs. sodium, 149B21:394
 - vs. sodium oxide, 153B11:260
 - vs. titanium, 149B21:389, 391, 394
 - vs. titanium oxide, 153B11:260; 159B15:137; 209B4:15
 - websterite, 153B16:323–324
- chromium spinel. *See* chrome spinel
- chromium/titanium ratio
 - detrital component, 167B23:267–270
 - sediments, 135B43:706
- chromium/zirconium ratio
 - sediments, 171B_B4:4–5
 - vs. depth, 171B_B4:13
- chron boundaries
 - depths, 145B34:498, 505, 508, 515, 520; 165A6:315
 - magnetic polarity, 149B45:701; 162A3:71; 4:113; 5:158; 6:190; 7:241; 8:271; 10:365; 162B9:135, 138–139, 142–143; 10:155, 158; 177A4:86; 202A7:69; 8:98–99; 11:75
- Chron C1n
 - alteration, 169A3:137–139
 - biostratigraphy, 188B6:6; 189B6:10; 200A3:30
 - carbonate platforms, 166A3:33
 - magnetostratigraphy, 157A10:520; 167A(1)4:71; 6:141; 7:164; 8:187; 11:293; 12:325; 13:364; 14:400; 15:442; 175A6:160; 7:186; 8:211; 15:470; 181A6:22; 7:28–32; 8:25; 9:17; 188A3:42–43; 5:22; 191A1:16; 4:25; 194A9:13; 195A5:10–11; 199A8:11–12; 11:21; 12:22; 15:10; 200A3:35, 38–39; 208A3:18
 - paleoclimatology, 195A1:27
 - sedimentation rates, 199A9:9; 200A3:39
 - sediments, 164A6:119; 7:189; 169A4:201; 5:232; 182A6:24; 189A6:41; 198A3:25; 4:22; 6:20; 7:19–20; 8:17; 202A7:16; 11:14
 - Site 902, 150A6:87
 - Site 904, 150A8:227–228
 - Site 906, 150A10:325–326
- Chron C1n/C1r boundary
 - magnetic polarity, 199A8:11
 - sediments, 164A6:119; 7:189; 9:292
 - stratigraphy, 151A10:331
- Chron C1n/C1r.1r boundary
 - magnetostratigraphy, 161B13:162; 182A10:51; 201B16:4
 - sediments, 164A8:258
- Chron C1n.1, sediments, 190A6:13; 7:11
- Chron C1r
 - biomagnetostratigraphy, 152A12:265–266
 - magnetostratigraphy, 166A10:310–311; 167A(1)5:102; 10:256; 178B37:14; 181A6:22; 9:17; 182A7:18; 191A1:16
 - sediments, 157A5:121; 164A6:119; 7:189; 182A1:26; 183A5:46–47Z
- Chron C1r.1n
 - age models, 183B9:10

- magnetostratigraphy, 166A10:310; 167A(1)6:141;
7:165; 8:187; 14:400; 15:442; 174A_A3:65, 68;
4:120; 175A3:70; 5:127; 9:252; 11:322;
180A6:51; 181A6:22; 7:28; 8:25; 182A5:17; 7:18;
10:51; 188A3:42–43; 5:22; 188B13:8; 189A3:35;
7:38; 191A1:16; 208A3:18
- Neogene, 178B28:4
- sedimentation rates, 199A9:9
- sediments, 157A4:75; 5:121; 178B36:8; 37:8, 10;
182A1:13, 26; 189A6:41; 198A3:25; 202A7:16;
11:14
- stratigraphy, 151A10:331
- volcaniclastics, 157A7:349
- Chron C1r.1r
- magnetostratigraphy, 167A(1)14:400; 174A_A3:65,
68; 178B37:13; 181A8:25; 182A5:17; 12:5;
188A5:22
- Site 902, 150A6:87
- Chron C1r.1r/C1r.1n boundary, sediments, 164A8:258
- Chron C1r.1r.2r.2r, magnetostratigraphy, 201B16:4
- Chron C1r.2r
- biostratigraphy, 185B2:4; 200B4:6
- magnetostratigraphy, 161A4:77; 174A_A4:120;
181A6:22; 188A5:22; 7:28–32; 8:25; 191A4:25
- Chron C1r.2r.1n
- magnetostratigraphy, 180A6:51; 181A8:25; 9:17;
191A1:16; 4:25
- sediments, 178B36:11; 37:16
- Chron C1r.2r.1r, silicoflagellates, 185B4:8
- Chron C1r.2r.2n/C2n boundary, magnetostratigraphy,
161B13:161
- Chron C1r.2r.2r, silicoflagellates, 185B4:8
- Chron C2.ln
- magnetic polarity, 151A5:76
- sediments, 170A4:127
- Chron C2A
- magnetostratigraphy, 178A1:11
- sediments, A8:17
- Chron C2An
- carbonate platforms, 166A3:31
- magnetostratigraphy, 167A(1)4:71; 178A4:18;
178B37:10; 181A6:23; 7:28–32; 8:25; 9:17;
194A9:13; 199A8:11–12; 208A3:18; 7:20
- Pacific Ocean E equatorial, 138B5:65
- sediments, 157A4:76; 5:122; 164A6:119; 198A5:23;
202A7:16; 8:21
- volcaniclastics, 157A8:413
- Chron C2An/C2Ar boundary
- sedimentation rates, 186A4:36; 5:24
- sediments, 164A7:190
- Chron C2An/C2n boundary, magnetostratigraphy,
157A10:520
- Chron C2An/C2r boundary, sediments, 164A7:189;
9:292
- Chron C2An.1, sediments, 157A4:76
- Chron C2An.1n
- age models, 183B9:10
- magnetostratigraphy, 178A1:11; 5:16; 8:11–12;
178B36:9–10; 37:13, 15–16; 180A5:30;
181A7:28; 188A4:28
- silicoflagellates, 185B4:8–9
- sediments, 202A11:14
- Chron C2An.1r
- diatoms, 185B2:3
- magnetostratigraphy, 178B37:15; 180A5:30; 6:51–52;
188A4:28
- sediments, 202A8:21
- volcaniclastics, 157A8:413
- Chron C2An.1r/C2An.2n boundary, magnetostratigra-
phy, 178A8:12
- Chron C2An.2n
- age models, 183B9:10
- diatoms, 185B2:3
- magnetic polarity, 180A5:30
- sediments, 178B36:10; 37:8, 10, 13, 15
- Chron C2An.2r
- magnetic polarity, 180A5:30; 6:51
- sediments, 178B37:8; 190A9:15; 202A8:21
- Chron C2An.3n
- biostratigraphy, 188B6:4
- magnetostratigraphy, 177A6:13; 178B37:15;
188A3:42–43
- sedimentation rates, 189B10:16, 19
- sediments, 159A5:94; 170A3:70
- Chron C2Ar
- carbonate platforms, 166A3:31
- magnetostratigraphy, 167A(1)4:71; 175A10:292;
15:470; 178B37:10; 181A7:28; 9:17; 191A1:16;
199A11:21
- See also* Chron C2An/C2Ar boundary
- Chron C2Ar.2r, sediments, 178B37:12
- Chron C2Ar.3r, magnetostratigraphy, 181A8:25
- Chron C2Ar.4n, magnetostratigraphy, 181A8:25
- Chron C2D, lithology, 183A1:23
- Chron C2n
- age models, 183B9:10
- biomagnetostratigraphy, 152A12:265–266
- biostratigraphy, 177A4:13; 188B6:4; 189B6:4–9;
200A3:30; 200B4:6
- magnetic polarity, 180A6:51–52; 181A7:28;
199A8:11–12
- magnetostratigraphy, 161A4:77; 167A(1)6:141; 7:165;
174A_A4:120; 175A3:70; 9:252; 11:322; 14:442;
181A6:22; 8:25; 182A7:18; 188B13:8; 189A6:41;
191A1:16; 194A9:13; 201B16:4; 208A3:18; 8:20;
208B1:6–7
- sedimentation rates, 189B10:13, 19
- sediments, 157A5:121; 164A6:119; 7:189; 9:292;
178B36:8–9; 37:10, 13–16; 182A1:13, 26;
198A3:25; 7:20; 202A7:16; 11:14
- stratigraphy, 208A1:31
- volcaniclastics, 157A7:349
- Chron C2r
- biostratigraphy, 177A4:13; 200A3:30
- carbonate platforms, 166A3:31, 33
- magnetostratigraphy, 167A(1)16:473; 181A9:17;
200A3:38–39
- sediments, 157A5:122; 159A5:94; 164A6:119;
178B37:14; 183A5:46–47; 6:54; 198A4:22;
202A8:21
- sequence stratigraphy, 166A3:37
- Chron C2r.1, sediments, 157A4:75; 5:122

- Chron C2r.1n
 impacts, 178A2:18
 magnetostratigraphy, 180A6:51–52; 181A8:25;
 188A4:28; 191A1:16; 200A3:38–39
 sediments, 178B9:2; 36:8–11; 37:10, 13, 16
- Chron C2r.1r
 biostratigraphy, 188B6:6
 magnetostratigraphy, 181A6:22; 188A4:28; 189A6:41
- Chron C2r.2r
 biostratigraphy, 185B2:4; 188B6:6
 magnetostratigraphy, 162A10:358; 188A4:28
- Chron C3, sediments, 190A5:19; 198B22:4
- Chron C3A
 diatoms, 167B3:66; 177A7:10
 magnetostratigraphy, 138A(1)10:216; 159A8:276;
 181A8:25; 190A1:28
 sediments, 190A8:13; 9:15
 See also Gilbert/C3A boundary
- Chron C3A/C4 boundary
 magnetostratigraphy, 173B11:13
 sediments, 149B16:325
- Chron C3A.1n
 correlation with gamma ray attenuation density,
 138A(1)6:88
 timescales, 138B6:87
- Chron C3A.2n, timescales, 138B6:87
- Chron C3A.3n, correlation with gamma ray attenuation
 density, 138A(1)6:89
- Chron C3An
 carbonate platforms, 166A3:32
 magnetostratigraphy, 174A_A3:68; 4:120; 181A7:28;
 191A1:16
 sedimentation rates, 162A7:242
 sediments, 190A4:15; 198A7:20
 sequence stratigraphy, 166A3:37
 See also Gilbert/C3An boundary
- Chron C3An/C3r boundary, sediments, 164A7:190
- Chron C3An.1n
 long-core data, 189A5:37
 magnetostratigraphy, 178B37:11; 188A3:42; 206A3:35
- Chron C3An.1r, magnetostratigraphy, 188A3:42;
 206A3:35
- Chron C3An.2n
 geochronology, 154B4:92
 long-core data, 189A5:37
 magnetostratigraphy, 167A(1)4:71; 178B37:12;
 188A3:42–43
- Chron C3An.4n, magnetostratigraphy, 167A(1)4:71
- Chron C3Ar
 magnetostratigraphy, 167A(1)4:71; 181A8:25;
 188A3:42–43; 194A5:14
 tectonics, 185A4:36
 volcaniclastics, 157A8:413
- Chron C3Ar/C3Bn boundary, sedimentation, 162A8:270
- Chron C3B
 magnetostratigraphy, 151A5:76; 181A8:25; 190A1:28
 sediments, 190A8:13; 9:15
- Chron C3Bn
 diatoms, 167B3:66
 magnetostratigraphy, 167A(1)4:71, 77; 174A_A3:68;
 4:120; 178B37:12; 181A7:29; 8:25
 sediments, 170A4:127; 198B22:4
- Chron C3Bn/C3Br boundary, biohorizons, 167B1:28
- Chron C3Bn–C3Br1r–C3Br1n interval, magnetostratigra-
 phy, 194A5:14
- Chron C3Br, magnetostratigraphy, 178B37:12; 181A8:25
- Chron C3Br.1n, Pacific Ocean E equatorial, 138B5:67
- Chron C3Br.2n, Pacific Ocean E equatorial, 138B5:67
- Chron C3n
 carbonate platforms, 166A3:33
 magnetostratigraphy, 161A8:372–373; 175A14:442;
 181A7:28; 9:17; 191A1:16; 194A4:18–19;
 208A6:21; 7:20
 Pacific Ocean E equatorial, 138B5:65
 sediments, 183A6:54; 198A4:22; 5:23; 6:20; 7:19;
 202A8:21
 sequence stratigraphy, 166A3:37
- Chron C3n.1n
 age models, 183B9:10
 biostratigraphy, 175A12:352
 correlation, 145B34:497
 magnetostratigraphy, 178B37:11, 15; 181A7:28;
 201B16:4, 7
 sediments, 202A8:21
- Chron C3n.1r, magnetostratigraphy, 178B37:11
- Chron C3n.2n
 biohorizons, 167B1:21
 magnetostratigraphy, 178A1:9; 5:16; 178B36:9;
 181A7:28
 “pachyderma” interval, 165A4:207
 sediments, 170A5:167
- Chron C3n.2n–C3.4n interval, correlation, 145B34:497
- Chron C3n.3n
 biohorizons, 167B1:21
 magnetostratigraphy, 167A(1)15:442; 178B37:15;
 181A7:28; 189A7:37
 sediments, 202A8:21
- Chron C3n.4n
 geophysical surveys, 180A2:5
 magnetostratigraphy, 162A10:358; 167A(1)15:442;
 178B37:11; 181A1:33; 7:28; 188A3:42–43;
 189A7:37; 195A4:31
 sediments, 195A1:21
- Chron C3r
 biohorizons, 167B1:14
 carbonate platforms, 166A3:32
 diachronism, 157B10:122
 long-core data, 189A5:37
 magnetostratigraphy, 156A7:220; 178B37:11;
 181A7:28, 31; 9:17; 188A3:42–43; 191A1:16;
 194A4:18–19; 206A3:35
 Pacific Ocean E equatorial, 138B5:65
 sediments, 183A6:54; 198A4:22; 7:19–20
- Chron C3r/C3n boundary, sediments, 164A7:190
- Chron C3r/C4 boundary, diatoms, 177A7:10–11
- Chron C3r–C4r interval, magnetic polarity, 181A1:30
- Chron C4
 paleomagnetism, 138A(1)10:216
 sediments, 183A6:54; 190A9:15
 Site 844, 138B29:629–630
 Site 852, 138A(2)17:987; 138B5:65
 See Chron C3A/C4 boundary

- Chron C4/C5 boundary, Sites 1174 and 1173 comparison, 190A5:19–20
- Chron C4A
 biostratigraphy, 149A6:181; 177A7:11
 sediments, 190A5:19
- Chron C4A.1n, correlation with gamma ray attenuation density, 138A(1)6:89
- Chron C4A.2n, correlation with gamma ray attenuation density, 138A(1)6:89
- Chron C4A.3n, Pacific Ocean E equatorial, 138B29:630
- Chron C4An
 magnetostratigraphy, 178A4:70; 181A7:29; 8:26; 201B16:4
 sediments, 190A4:15
 Site 903, 150A7:158
 volcanoclastics, 157A8:413
- Chron C4Ar
 magnetostratigraphy, 151A5:76; 181A8:25; 201B16:4
 Pacific Ocean E equatorial, 138B5:65
 Site 902, 150A6:87
 Site 904, 150A8:242
- Chron C4Ar.1n
 magnetostratigraphy, 178A4:18; 178B36:8; 37:12; 181A7:29; 8:25
- Chron C4Ar.1r, sediments, 178B37:12
- Chron C4Ar.1r.1, Pacific Ocean E equatorial, 138B5:68
- Chron C4Ar.2n, magnetostratigraphy, 181A7:29; 8:25
- Chron C4n
 magnetostratigraphy, 174A_A3:68; 4:120; 175A14:442
 Site 903, 150A7:158
- Chron C4n–C4r interval, sediments, 194A3:12
- Chron C4n.1n, lithology, 191A1:14; 4:12–13
- Chron C4n.1r, magnetostratigraphy, 206A3:35
- Chron C4n.2
 magnetostratigraphy, 151A5:76; 162A7:241
 sediments, 170A5:167; 198B22:4
- Chron C4n.2n
 diatoms, 177A7:10
 magnetostratigraphy, 178B37:12
- Chron C4n.2r, magnetostratigraphy, 201B16:7
- Chron C4n.3n, correlation with gamma ray attenuation density, 138A(1)6:90
- Chron C4r
 magnetostratigraphy, 178B37:12; 181A7:29; 8:26
 sediments, 190A4:15; 202A8:21
 sand, 150B8:137
 volcanoclastics, 157A8:413
- Chron C4r.1n
 magnetostratigraphy, 178B37:12
 sediments, 190A9:15
- Chron C4r.2r, magnetostratigraphy, 178A4:19, 70; 178B36:8
- Chron C4r.2r.1, Pacific Ocean E equatorial, 138B5:66, 68
- Chron C5
 correlation with gamma ray attenuation density, 138A(1)6:89
 diatoms, 177A7:11
 sediments, 190A4:15; 8:13
 Site 798, 128A4:30
 Site 844, 138B29:629
 Site 845, 138B5:66
- Site 848, 138B29:630
 Site 852, 138A(2)17:987
- Chron C5–C6 interval, sediments, 183A5:46–47
- Chron C5.n1, correlation with gamma ray attenuation density, 138A(1)6:89–90
- Chron C5A, paleomagnetism, 138A(1)10:216; 145B4:76
- Chron C5A.4n, long-core data, 189A5:37
- Chron C5AA, magnetostratigraphy, 145B1:7
- Chron C5AAn
 magnetic polarity, 181A7:30
 Pacific Ocean E equatorial, 138B5:66
- Chron C5AB, magnetostratigraphy, 145B1:7
- Chron C5ABn
 magnetic polarity, 181A7:30
 Pacific Ocean E equatorial, 138B5:66
 Site 903, 150A7:159
- Chron C5ABn/C5ACn boundary, magnetostratigraphy, 162A7:241
- Chron C5ABr
 biostratigraphy, 188B4:10
 sedimentation rates, 162A7:242
- Chron C5AC, magnetostratigraphy, 145B1:7
- Chron C5ACn
 magnetostratigraphy, 181A7:30; 189A6:42
 sediments, 190A4:15
 Site 903, 150A7:159
- Chron C5ACn/C5ADn boundary, magnetostratigraphy, 162A7:241
- Chron C5ADn
 magnetostratigraphy, 181A7:30; 189A6:42
 sediments, 190A4:15
- Chron C5An
 biostratigraphy, 150B2:27
 magnetostratigraphy, 151A5:76; 181A7:31; 194A6:12
 sediments, 183A6:54
- Chron C5An.1n
 remanent magnetization, 189A6:42; 7:37
 sediments, 198B22:3
- Chron C5An.1n/C5r.3r reversal, diatoms, 183B9:12
- Chron C5An.2n, remanent magnetization, 189A6:42
- Chron C5Ar
 biostratigraphy, 150B2:27
 magnetostratigraphy, 194A6:12
 sediments, 202A8:21
 Site 902, 150A6:89
 Site 903, 150A7:159
 Site 904, 150A8:228
 Site 906, 150A10:326
- Chron C5Ar.1n
 magnetic polarity, 181A7:30–31
 sediments, 170A3:70
- Chron C5Ar.2n, magnetic polarity, 181A7:30
- Chron C5Bn.1n, magnetostratigraphy, 195A4:31
- Chron C5Bn.2n, sediments, 205A4:42
- Chron C5Br, magnetostratigraphy, 181A7:29; 182A4:26; 188A3:42; 189A3:35
- Chron C5Br–C5ADn interval, magnetostratigraphy, 181A8:26
- Chron C5Br–C5Bn interval, basalts, 206A3:85
- Chron C5C
 magnetostratigraphy, 145B1:7

- sediments, 190A8:14
- Chron C5Cn
 - magnetostratigraphy, 181A7:30; 8:26; 182A4:26; 188A3:43; 189A3:35; 194A4:19
 - sediments, 205A4:42
 - Site 904, 150A8:228
- Chron C5Cn.1n, sediments, 205A4:42
- Chron C5Cn.2n, sediments, 170A3:70
- Chron C5Cr, magnetostratigraphy, 181A8:26; 182A4:26; 189A3:35
- Chron C5D
 - magnetostratigraphy, 145B1:7; 173B11:11; 207A6:23
 - sediments, 149B16:323
 - Site 904, 150A8:228
- Chron C5Dn, magnetostratigraphy, 181A7:30; 189A3:35
- Chron C5Dr
 - biostratigraphy, 188B4:10, 12
 - lithology, 191A4:13, 25
 - magnetostratigraphy, 181A7:30; 183A7:48; 189A3:35
- Chron C5E, magnetostratigraphy, 145B1:7; 207A6:23
- Chron C5En
 - correlation, 145A8:350; 145B34:501
 - magnetostratigraphy, 145B1:4; 181A7:30; 189A3:35; 208A6:21
- Chron C5Er, magnetic polarity, 181A7:30
- Chron C5n
 - biohorizons, 167B1:23, 28
 - carbonate platforms, 166A3:31
 - correlation, 145B34:500
 - magnetostratigraphy, 165A4:160; 181A7:28–29; 189A3:35; 6:43; 7:37; 194A6:12; 208A7:20
 - Pacific Ocean E equatorial, 138B5:65
 - sediments, 183A6:54; 190A4:15; 5:19; 198A3:25; 4:22; 202A8:21
 - sequence stratigraphy, 166A3:37
 - Site 902, 150A6:87, 113
 - Site 906, 150A10:325–326
 - volcaniclastics, 157A8:413
- Chron C5n.1n
 - diachronism, 157B10:121–122
 - magnetic polarity, 181A7:29
- Chron C5n.1n/5n.2n boundary, magnetostratigraphy, 162A7:241
- Chron C5n.2n
 - lithology, 191A4:12
 - magnetostratigraphy, 162A7:241; 178B36:8; 37:12; 189A6:42; 201B16:7; 206A3:35
 - sedimentation rates, 162A7:242; 189B10:12–13
- Chron C5n.1r, magnetostratigraphy, 181A8:25
- Chron C5r
 - magnetostratigraphy, 181A6:23; 7:29; 194A6:12
 - sand, 150B8:137
 - sediments, 183A6:54
 - Site 902, 150A6:87, 113
- Chron C5r.1n, magnetostratigraphy, 181A1:22; 6:23
- Chron C5r.1r, sedimentation rates, 162A7:242
- Chron C5r.2, Site 903, 150A7:187
- Chron C5r.2n, magnetic polarity, 181A1:22
- Chron C5r.2r
 - biostratigraphy, 162B9:139
 - magnetostratigraphy, 181A6:23
- Chron C5r.2r.1, Pacific Ocean E equatorial, 138B5:68
- Chron C6
 - magnetostratigraphy, 156A6:136
 - plate tectonics, 149B1:4
 - Site 796, 127A6:277
 - Site 798, 128A4:30
- Chron C6A, Site 902, 150A6:79
- Chron C6AAn, magnetostratigraphy, 194A6:12; 208A6:21
- Chron C6AAr, magnetostratigraphy, 194A6:12; 208A6:21
- Chron C6AAr.1n, magnetostratigraphy, 208A6:21
- Chron C6An
 - debris flows, 181A7:12
 - magnetostratigraphy, 188A3:43; 199A13:18
- Chron C6An.2n, Oligocene, 199B1:11
- Chron C6Ar, magnetostratigraphy, 188A3:43; 194A6:12
- Chron C6B, terranes, 189A1:9
- Chron C6C
 - magnetostratigraphy, 207A6:23
 - plate tectonics, 149B25:438
- Chron C6Cn
 - magnetostratigraphy, 181A8:26; 208A6:21; 7:20; 208B1:6
 - New Jersey continental slope, 150B6:109
 - sediments, 183A7:48
 - Site 903, 150A7:159
 - Site 904, 150A8:228
 - stratigraphy, 208A1:31
- Chron C6Cn–C12n interval, magnetostratigraphy, 199A15:10
- Chron C6Cn.2n
 - age models, 189B9:4
 - biostratigraphy, 199A12:17
 - sedimentation rates, 189B10:12
- Chron C6Cn.2r
 - biostratigraphy, 199A12:14, 17, 19–20
 - oxygen isotopes, 177B(synthesis):7
- Chron C6Cn.3n
 - age models, 189B9:5
 - magnetostratigraphy, 195A4:31
 - Oligocene, 199B1:11
- Chron C6Cr
 - biostratigraphy, 174AXS_A3:43; 199A12:17
 - sediments, 183A7:48
- Chron C6n
 - debris flows, 181A7:12
 - magnetostratigraphy, 181A1:25; 7:30–31; 188A3:43; 189A3:35–36; 6:42; 194A4:19; 6:12; 207A6:23; 208A6:21
 - seismic reflections, 199A4:5
- Chron C6r, magnetostratigraphy, 181A1:10; 7:31; 188A3:43
- Chron C7, sediments, 183A7:48
- Chron C7–C8 interval, sediments, 183A5:46–47
- Chron C7–C12 interval, sediments, 183A7:48
- Chron C7An
 - long-core data, 189A5:37
 - magnetostratigraphy, 199A11:21
- Chron C7n
 - magnetostratigraphy, 181A8:26; 182A4:26; 208A7:20

- sediments, 183A7:48
- Site 904, 150A8:228
- Chron C7n.1, magnetostratigraphy, 156A6:136
- Chron C7n.1n, long-core data, 189A5:37
- Chron C7n.2n
 - long-core data, 189A5:37
 - magnetostratigraphy, 195A4:31; 199A11:21
- Chron C8n
 - magnetostratigraphy, 202B3:13–14; 208A6:21
 - Site 903, 150A7:159
- Chron C8r
 - magnetostratigraphy, 181A8:26; 202B3:5, 13–14
 - oxygen isotope shift, 202B3:5–6
 - seismic reflections, 199A4:5
- Chron C9, magnetostratigraphy, 149A4:73
- Chron C9n
 - magnetostratigraphy, 181A8:26; 202B3:4–5, 13–14; 208A6:21
 - Oligocene, 199B1:11
 - sediments, 202A8:22
 - seismic reflections, 199A4:5
 - Site 902, 150A6:89
- Chron C9r, Site 902, 150A6:89
- Chron C10
 - dinocysts, 189B3:10
 - magnetostratigraphy, 149A4:73
 - sediments, 182A6:24
- Chron C10n, sediments, 182A6:24
- Chron C10n.2n, sedimentation rates, 189B10:9
- Chron C10r–C12 interval, magnetostratigraphy, 207A6:23
- Chron C11n
 - dinocysts, 189B4:12
 - magnetostratigraphy, 189A7:38; 199A11:21; 199B2:6
 - Oligocene, 183B5:6
- Chron C11n–C11r interval, stratigraphy, 177B(synthesis):4
- Chron C11n.1n
 - magnetostratigraphy, 199A11:21
 - Oligocene, 199B1:11
- Chron C11n.2n
 - age models, 189B9:6
 - magnetostratigraphy, 183A1:3; 195A4:31; 199A11:21
- Chron C11r
 - radiolarians, 183B5:10
 - sediments, 183A6:54
- Chron C11r/C11n boundary, Oligocene, 183B5:6
- Chron C12
 - biostratigraphy, 150B2:27; 195A4:25
 - lithology, 183A1:23
 - magnetostratigraphy, 199A11:21
 - Site 903, 150B2:25
- Chron C12AB, magnetostratigraphy, 208A3:19
- Chron C12n
 - magnetostratigraphy, 192A3:34; 195A4:32; 207A4:18; 208A4:17; 7:20
 - sediments, 183A7:48
- Chron C12n/C12r boundary, sediments, 183A7:48
- Chron C12n–C13n interval, Oligocene, 199B1:11
- Chron C12n–C18n interval, magnetostratigraphy, 199A10:13
- Chron C12n.16n.2n, sediments, 195A1:21
- Chron C12r
 - dinocysts, 189B4:9
 - lithology, 181A1:25
 - magnetostratigraphy, 152A6:66; 181A7:31; 8:26; 189A3:35; 192A3:34; 199A11:21; 12:22; 207A4:18; 208A3:19
 - sediments, 150X_B22:297; 182A6:24; 183A7:48
- Chron C13
 - biostratigraphy, 150B2:27
 - lithology, 183A1:23
 - plate tectonics, 149B1:4
 - sediments, 183A5:46–47
 - terranes, 189A1:9
- Chron C13n
 - age model, 182B14:4
 - carbonate content, 208B1:17
 - correlation, 199B2:8
 - dinocysts, 189A5:33; 189B4:7–9, 12–13
 - magnetostratigraphy, 152A6:66; 181A7:31; 8:26; 188A4:29; 195A4:32; 199A12:22; 199B2:7; 207A4:18; 208A3:19; 4:17; 6:21; 7:20
 - sedimentation rates, 189B10:9
 - sediments, 208A8:21
 - stratigraphy, 177B(synthesis):4
- Chron C13n/C13r boundary, sediments, 183A7:48
- Chron C13n/C13r reversal, magnetostratigraphy, 199A12:22
- Chron C13n–C20n interval, magnetostratigraphy, 199B2:7
- Chron C13r
 - biostratigraphy, 189B4:10; 195A4:24
 - correlation, 171B_B9:16
 - magnetostratigraphy, 152A6:66; 171B_A7:330; 171B_B9:1–58; 181A7:31; 199A14:15
 - sediments, 182A6:24
 - stratigraphy, 177B(synthesis):4
- Chron C15
 - dinocysts, 189B4:10
 - Site 841, 135B16:249
 - Site 904, 150B6:104
- Chron C15n
 - dinocysts, 189B4:8, 10, 12
 - magnetostratigraphy, 152A6:66; 181A7:31; 195A4:32; 199A12:22; 14:15; 207A4:18; 6:24; 207B3:9, 12, 15
 - Site 904, 150A8:228
- Chron C15n–C15r interval, magnetostratigraphy, 192A5:19
- Chron C15n–C20n interval, magnetostratigraphy, 199A14:15
- Chron C15r
 - correlation, 171B_B9:16
 - dinocysts, 189B4:11
 - magnetostratigraphy, 171B_A6:275; 7:330; 171B_B9:12; 195A4:32; 207A6:24
 - sediments, 183A5:46–47
 - Site 841, 135B16:249
 - Site 904, 150A8:228

- Chron C16n
magnetostratigraphy, 171B_A5:199; 6:275; 7:330;
171B_B9:12; 195A4:32; 207A4:18
Site 841, 135B16:249
- Chron C16n.1n, dinocysts, 189B4:10, 12
- Chron C16n.1r, magnetostratigraphy, 171B_A6:275
- Chron C16n.2n
dinocysts, 189B4:8, 10, 12
remanent magnetization, 189A7:38
- Chron C16r
correlation, 171B_B9:16
dinocysts, 189B4:10
magnetostratigraphy, 171B_A5:199; 7:330;
171B_B9:12; 192A5:19; 199A10:13
Site 841, 135B16:249
- Chron C16r.1r, dinocysts, 189B4:8, 10
- Chron C17, magnetostratigraphy, 199A10:13
- Chron C17–C20 interval, magnetostratigraphy,
207A4:18
- Chron C17n
correlation, 171B_B9:15–16
biostratigraphy, 183B5:10; 189B4:12; 200A4:40
magnetostratigraphy, 171B_A5:199; 7:330;
171B_B9:10, 12; 207A4:18; 207B3:15
- Chron C17n.1n
dinocysts, 189B4:8
magnetostratigraphy, 189A7:38; 192A5:19
sedimentation rates, 189B10:15
- Chron C17n.1r, magnetostratigraphy, 171B_A5:199;
6:275
- Chron C17n.2n, magnetostratigraphy, 192A5:19–20
- Chron C17n.2r, magnetostratigraphy, 171B_A6:275
- Chron C17n.3n, magnetostratigraphy, 192A5:19
- Chron C17r
correlation, 171B_B9:16
magnetostratigraphy, 171B_A7:330; 171B_B9:10;
207B3:9
- Chron C18
magnetostratigraphy, 181A8:26
plate tectonics, 149B1:3–4
- Chron C18–C34 interval, plate tectonics, 149B25:438
- Chron C18n
correlation, 171B_B9:15–16
magnetostratigraphy, 171B_A5:199; 171B_B9:12;
207B3:9, 15
- Chron C18n–C27r interval, magnetostratigraphy,
207B3:16
- Chron C18n.1n, dinocysts, 189B3:9
- Chron C18n.1r, magnetostratigraphy, 171B_A6:275
- Chron C18n.2n, magnetostratigraphy, 183A1:3;
192A5:19
- Chron C18r
correlation, 152A7:79
magnetostratigraphy, 171B_A6:275; 171B_B9:12;
181A8:26; 192A5:20; 199A15:10; 207B3:11
- Chron C18r–C21n interval, magnetostratigraphy,
207A6:24; 207B3:12
- Chron C18r–C21r interval, magnetostratigraphy,
207A7:20
- Chron C18r–C23n interval, magnetostratigraphy,
207B3:11
- Chron C18r–C24r interval, magnetostratigraphy,
207A6:24
- Chron C19
magnetostratigraphy, 181A8:26
plate tectonics, 149B1:3–4
- Chron C19n
correlation, 152A7:80; 171B_B9:15
magnetostratigraphy, 171B_A3:71; 4:134; 5:199;
171B_B9:8–9, 11–12; 181A8:26
sedimentation rates, 199A9:9
- Chron C19r
correlation, 171B_B9:15–16
magnetostratigraphy, 171B_A4:134; 171B_B9:8–9, 11;
181A8:26; 192A5:20; 207A8:21
- Chron C19r–C21r interval, magnetostratigraphy,
207B3:13
- Chron C20, sediments, 150X_B22:297
- Chron C20n
biostratigraphy, 200A4:40
correlation, 171B_B9:15
magnetostratigraphy, 171B_A3:71; 4:134; 5:199;
171B_B9:8; 173B11:15; 189A5:38; 199A9:8;
10:13; 207A7:20; 207B3:9
sedimentation rates, 199A9:9
sediments, 208A8:21
- Chron C20n/C20r boundary, magnetostratigraphy,
173B11:15
- Chron C20r
correlation, 171B_B9:15
magnetostratigraphy, 171B_A3:71; 4:134; 5:199;
171B_B9:8; 189A6:42; 199A12:22; 207A4:19;
7:20; 207B3:9
- Chron C20r/C21n boundary, biostratigraphy, 200A4:41
- Chron C20r–C21n interval, magnetic polarity, 197A6:21
- Chron C21
basaltic basement, 195A4:33
geology, 195A1:15–16
magnetostratigraphy, 199A13:18
- Chron C21n
correlation, 171B_B9:15
magnetostratigraphy, 171B_A5:199; 171B_B9:8;
173A7:183; 173B11:13–17, 22–23; 189A5:38;
6:42; 199A13:18; 207A7:20; 8:21; 207B3:12
- Chron C21n–C21r interval, magnetic polarity, 197A6:21
- Chron C21n–C21r–C22n interval, magnetic polarity,
197A4:25; 6:21
- Chron C21n–C22n interval
magnetostratigraphy, 207B3:12
seafloor spreading anomalies, 152B39:463–464
- Chron C21r
correlation, 171B_B9:15
magnetostratigraphy, 171B_A3:71, 199; 183A4:23–24;
189A6:42; 199A8:12; 207A5:20; 7:20; 8:21;
207B3:10–15; 210A1:19; 3:93–94
sedimentation rates, 189B10:14
sediments, 208A8:21
- Chron C22n
correlation, 171B_B9:15
Eocene, 150X_B17:239
magnetostratigraphy, 171B_A3:71; 4:134; 5:199;
171B_B9:8–10; 173B11:15, 17, 22–23

- Chron C22n–C22r–C23n interval, magnetic polarity, 197A6:21
- Chron C22n–C23n interval, magnetostratigraphy, 207A6:24
- Chron C22r
Eocene, 150X_B17:239
lower Eocene, 208A1:42
magnetostratigraphy, 171B_A3:71; 4:134; 183A4:23–24; 199A8:12; 207A8:21; 207B3:10, 13
volcanic history, 163B6:56
- Chron C23
magnetic anomalies, 183A1:3
sediments, 197A4:25
- Chron C23n
aeromagnetic profiles, 152A13:289
magnetostratigraphy, 152B16:223–224; 41:511, 513, 518; 171B_A3:71; 173B11:15, 17, 22–23; 199A8:11–12; 207A5:20; 7:21; 8:21; 207B3:10
sediments, 150X_B22:298
- Chron C23r
age, 152B40:486
correlation, 171B_B9:15
magnetostratigraphy, 152B16:223–224; 163X_A8:6; 199A8:12; 207A6:24; 8:21; 207B3:10, 13
- Chron C23r–C24n interval, magnetostratigraphy, 207A5:20
- Chron C24
magnetostratigraphy, 173B11:20
sediments, 183A6:54
seismic reflectors, 152A1:6
- Chron C24n
aeromagnetic profiles, 152A13:289
carbon isotope excursion, 208B1:20
composite digital images, 208A6:55; 7:45
continental margin, 152A13:288–292; 152B41:511, 513
Eocene Thermal Maximum-2, 208B1:15–16
lower Eocene, 208A1:42
magnetostratigraphy, 152B16:223–224; 163X_A8:6; 171B_A3:71; 5:1; 173B11:15–17, 22–23; 199A8:11–12; 207A4:19; 5:20; 6:24; 8:21; 207B3:8–9, 11; 208A3:19; 7:20
sediments, 150X_B22:298; 208A8:21
seismic data, 208B6:6
- Chron C24n clay layer event, 208A1:37–38
- Chron C24n.3n
sedimentation rates, 199A8:14
volcanic history, 163B6:57
- Chron C24n–C24r interval, seafloor spreading anomalies, 152B39:463–464
- Chron C24r
age, 152B40:484–488; 41:510–513
basalts, 197A5:24
biostratigraphy, 199A12:18
carbon isotope excursion, 208B1:20
continental margin, 152A13:288–292; 152B41:505
correlation, 152A7:79; 171B_B9:15
lava, 152A9:119
magnetostratigraphy, 152A11:223–224; 152B21:263–264; 163X_A8:6; 171B_A4:134; 5:199; 171B_B9:7–9; 189A6:42–43; 199A8:11–12; 207A5:20; 6:24; 7:21; 8:21; 207B3:6, 8–12, 15; 208A6:22; 7:20; 208B1:6–7
sediments, 152A8:97
seismic reflectors, 152A1:9
stratigraphy, 163X_A8:14; 208A1:31
volcanic history, 163B6:57–58
- Chron C24r/C24n boundary, magnetostratigraphy, 208B4:4
- Chron C24r–C25n–C25r–C26n interval, magnetostratigraphy, 207A4:19
- Chron C24r–C25r–C26n–C26r interval, magnetostratigraphy, 207B3:10
- Chron C24r–C26n interval, magnetostratigraphy, 207A7:21
- Chron C24r–C27n interval, magnetostratigraphy, 207B3:13
- Chron C25n
composite record, 207A4:21
correlation, 171B_B9:15
lava flows, 163A5:54
magnetostratigraphy, 171B_A3:71; 4:134; 5:199; 171B_B9:7–8, 10; 173B11:17, 22–23; 199A8:11; 207A6:25; 207B3:8–9; 208A3:19; 6:22
sedimentation rates, 199A8:14–15
volcanic history, 163B6:56–57
- Chron C25n–C26r interval, magnetostratigraphy, 207A5:21
- Chron C25r
continental margin, 152A13:288–292; 152B41:513
lithology, 181A1:20
lava flows, 163A5:54; 163B6:58
magnetostratigraphy, 152B21:264; 171B_A5:199; 171B_B9:7–8, 10; 181A5:18
- Chron C25r–C26n–C26r interval, magnetostratigraphy, 207B3:11
- Chron C25r–C26r interval, magnetostratigraphy, 207A6:25
- Chron C25r–C27n interval, magnetostratigraphy, 207A8:21
- Chron C26–C30 interval, magnetostratigraphy, 181A8:27
- Chron C26n
composite record, 207A4:21
lithology, 181A1:20
magnetostratigraphy, 165A6:314; 181A5:18; 207A4:19; 207B3:8–9, 12; 208A7:20
volcanic history, 163B6:56–57
- Chron C26n/C25r boundary, marine isotope stages, 181B1:30
- Chron C26r
age, 152B40:484, 486–488; 41:511
correlation, 171B_B9:14
magnetostratigraphy, 152B21:264; 171B_A4:134; 171B_B9:11; 181A5:18
seismic reflectors, 152A1:6
- Chron C27, sediments, 183A6:54
- Chron C27n
continental margin, 152A13:288–292; 152B32:394
correlation, 171B_B9:14–15
lava, 163A4:35
lithology, 181A1:20

- magnetostratigraphy, 171B_A3:71; 4:134; 171B_B9:7–11; 181A5:18
- seismic reflectors, 152A1:6
- Chron C27r
 - age, 152B40:486; 41:511
 - lithology, 181A1:20
 - magnetostratigraphy, 171B_B9:9, 11; 181A5:18
- Chron C28n
 - lava, 163A4:35
 - magnetostratigraphy, 165A6:314; 171B_A3:71; 5:203; 171B_B9:11
- Chron C28r
 - correlation, 171B_B9:14
 - magnetostratigraphy, 171B_A4:134; 171B_B9:11
- Chron C29n
 - correlation, 171B_B9:14
 - Cretaceous/Tertiary boundary, 183A1:13
 - magnetostratigraphy, 171B_B9:7, 10–11
- Chron C29r
 - correlation, 171B_B9:14
 - Cretaceous/Tertiary boundary, 183A1:13
 - critical events, 207A1:12–13; 207B3:14
 - hiatuses, 189B3:8
 - magnetostratigraphy, 171B_A3:71; 171B_B9:7–8, 10–11; 173A7:183; 181A8:29; 189A7:39; 207A5:21; 7:21; 207B3:9, 12–13; 208A3:19; 210A3:93–94
 - sedimentation rates, 189B10:17
 - stratigraphy, 208A1:31
- Chron C29r–C30n interval, magnetostratigraphy, 207B3:11
- Chron C29r–C31 interval, magnetostratigraphy, 207B3:16
- Chron C29r–C31r interval, magnetostratigraphy, 207B3:11, 13
- Chron C30, seafloor spreading, 189A1:9
- Chron C30n
 - magnetostratigraphy, 171B_A3:71; 181A8:29; 207A5:21
 - sedimentation rates, 189B10:17
- Chron C30n–C31n interval, magnetostratigraphy, 207A8:21
- Chron C30n–C31r interval, magnetostratigraphy, 207A6:25
- Chron C30n–C34n interval, magnetostratigraphy, 207B3:9
- Chron C30r, magnetostratigraphy, 171B_A3:71; 4:134; 171B_B9:7, 10; 192A6:21
- Chron C31n, magnetostratigraphy, 171B_A4:134; 171B_B9:7, 10; 183A3:14; 4:24; 207B3:12; 208A8:21
- Chron C31n–C31r interval, magnetostratigraphy, 207B3:11
- Chron C31r
 - Cenomanian/Turonian boundary, 207A1:7
 - magnetostratigraphy, 171B_A4:134; 171B_B9:7; 192A6:21; 207A4:19; 8:21; 207B3:8, 13
- Chron C32n, magnetostratigraphy, 171B_B9:7; 198A3:26
- Chron C32n–C32r–uppermost C33n, magnetostratigraphy, 207A4:19
- Chron C32n–C33n interval, magnetostratigraphy, 207B3:8
- Chron C32n.1n, magnetostratigraphy, 192A6:21
- Chron C32n/C31r boundary, biostratigraphy, 144B8:166
- Chron C32r
 - Cretaceous, 143B27:414
 - reversed polarity, 143B22:377, 379
- Chron C32r.1r, magnetostratigraphy, 192A6:21
- Chron C32r.2r, magnetostratigraphy, 192A6:21
- Chron C33, drift, 189A1:7
- Chron C33n
 - magnetostratigraphy, 171B_A4:134; 171B_B9:7–8; 198A3:26; 207A4:19
 - sediments, 183A6:54; 197A4:25
- Chron C33r, magnetostratigraphy, 144B34:601; 192A6:21; 207B3:13; 210A3:93–94
- Chron C34
 - magnetostratigraphy, 171B_A3:71; 183A1:3
 - plate tectonics, 149B1:3–4
 - seafloor spreading, 189A1:9
- Chron C34n
 - correlation, 171B_B9:13
 - magnetostratigraphy, 171B_A4:134; 171B_B9:8; 183A3:14; 4:24; 207A4:19; 5:21; 207B3:7, 14
 - sediments, 183A6:54
 - tectonics, 207A1:9–10
- Chron C34n(y), tephra ages, 165B20:302
- Chron CM0, Cretaceous, 143B25:396–397
- Chron CM3, Site 866, 143B25:397
- Chron CN4/CN5A boundary, sedimentation, 138A(1)10:207
- Chron M0
 - age, 144B32:554–555
 - rifting in Newfoundland margin, 210B1:45–46
- Chron M-1r
 - age, 144B32:554–556
 - remanent magnetization, 192A7:10–11
- Chron M-2r
 - Albian magnetic polarity subchron, 171B_B9:6–7
 - correlation, 171B_B9:13
 - magnetostratigraphy, 171B_B9:1–58
- Chron M-3, magnetostratigraphy, 171B_A6:280
- Chron M-4, radiolarians, 185B6:3
- Chron M-5r, radiometric ages, 143B17:282
- Chron M-7, magnetic polarity, 143B31:512
- Chron M-7n, Hauterivian/Barremian boundary, 143B17:282
- Chron M-8, extension rates, 210B1:20
- Chron M-10, plate tectonics, 149B1:4
- Chron M-11, carbon isotopes, 185B6:4–5
- Chron M-12
 - carbon isotopes, 185B6:4–5
 - paleodepth, 198A9:17
- Chron M-15–M-18 interval, sediments, 198B21:5
- Chron M-16, sediments, 198B21:5
- Chron M-17, sediments, 198B21:5
- Chron M-18, sediments, 198B21:5
- Chron M-19, sediments, 198B21:5
- Chron M-19–M-20 interval, sediments, 198B21:5
- Chron M-21, paleodepth, 198A9:17

- chronology
 calcareous nannofossils, 170B5:6–17
 Holocene, 178A7:12
 lower Pleistocene, 160B15:191–197
See also age; geochronology
- chronostratigraphic datums, Quaternary, 146B(2)8:107
- chronostratigraphic events
 Pliocene–Holocene interval, 134A13:520
 Site 828, 134A8:169
- chronostratigraphy
 age model, 166A3:32–33
 Atlantic Ocean N, 105B51:985
 Baffin Bay, 105B32:599; 49:936–937
 biohorizons, 167B1:8, 11–12, 14–16, 18, 21
 biostratigraphy, 138B12:236–250; 145B17:258
 calcium carbonate, 167B11:163–182
 Cenozoic, 133B20:281–289; 27:400; 134B6:89–95;
 138B39:798–805; 149B10:243; 151A13:416–
 417; 208B1:6–19
 comparison with seismic sequences, 166A3:38
 Cretaceous, 130B7:99; 144B8:165–166, 168
 Cretaceous/Tertiary boundary, 130B14:259–268
 diagenesis, 166A3:28
 Eocene/Pleistocene boundary, 174A_A3:182
 gamma ray attenuation density, 138B3:40–42; 14:324
 hiatuses, 207B1:11
 Labrador Sea, 105B33:619, 634
 lower Cenozoic, 208A1:26–30
 magnetic polarity, 162B10:151–154; 17:243
 Messinian/Zanclean boundary, 160B9:115, 118
 microfossil zones, 105B50:941–948, 950–951
 middle Miocene, 202B1:7
 Miocene, 130B17:314
 Miocene/Pleistocene boundary, 174A_A3:86–88;
 4:134–135
 Miocene/Pliocene boundary, 157B11:127–140
 nannofossils, 161B16:226; 184B10:16–17
 Neogene, 105B50:938–939; 51:985; 138B1:8–9; 6:73–
 101; 19:431; 178B36:21; 201B16:11
 Oligocene, 130B15:269–279
 oxygen isotopes, 184B2:4–10
 paleoclimatology, 167B21:249–254
 Paleogene, 105B50:940; 130B25:426; 152A1:15–16
 palynomorphs, 188B3:12–13
 planktonic foraminifers, 149B6:165–166; 170B1:1–58
 Pleistocene, 138B43:839–854; 151B13:244, 246
 Pliocene, 138B15:339; 180B11:2–3
 Pliocene/Quaternary boundary, 160B8:101
 Pliocene–Quaternary interval, 160B12:161–164
 Quaternary, 130B22:381–395; 134B3:47–57;
 161B40:507–508
 sedimentation rates, 166A9:267; 184A5:13
 sediments, 155B23:384
 seismic data, 162B6:83–84; 166B16:168–169, 176;
 188B14:10–11
 Site 1088, 177A3:5–11
 Site 1089, 177A4:8–15
 Site 1090, 177A5:8–19
 Site 1091, 177A6:6–13
 Site 1092, 177A7:5–14
 Site 1093, 177A8:9–15
- Site 1094, 177A9:7–12
 stable isotopes, 138B13:294–296; 17:373–374
 strontium isotopes, 144B21:411–417; 174AXS_A4:29–
 30; 5:49–51; 6:57–58; 7:24–26, 63
 summary, 102B1:4–9; 174A_A4:134
 synthesis, 190A1:28
 timescales, 149B45:693–694
 upper Quaternary, 202B2:1–22
 volcanic ash, 185B13:6–7, 20
 vs. depth, 198B7:45
 vs. magnetic polarity, 171B_A3:75; 4:138; 5:204
 vs. seismic reflectors, 172A6:317
See also age; biochronology; biochronostratigraphy;
 dating; geochronology; geomagnetic polarity ti-
 mescale; stratigraphy
- chronostratigraphy, astronomically calibrated, Neogene,
 202B4:1–69
- chrons
 ages and correlated core intervals, 157A7:351
 basalt and sediments, 192A6:112
 boundaries, 149B45:701
 Cretaceous, 143A7:215
 depths and ages, 190A4:130; 5:132; 6:82; 7:72; 8:82
 gabbros, 205A4:43
 magnetic polarity, 145B13:206–217; 157A4:75;
 162B8:117; 9:139, 143; 167A(1)7:164–165;
 15:442; 174A_A4:123; 180A12:35; 198A1:7–8
 magnetic reversals, 167A(1)6:141
 magnetostratigraphy, 167A(1)4:64, 71–72; 5:102–103;
 171B_A7:329–330; 171B_B9:22–26; 185A1:52;
 4:130; 201B16:4–5
 plagioclase, 197B1:12–13
 sediments, 171B_A5:199–203
 vs. depth, 161A8:379; 171B_A3:72–75; 4:135–138;
 5:200–204; 6:276–281; 7:331–333
 zones, 171B_A6:275–282
See also Blake excursion event; chron boundaries;
 cryptochrons; magnetochrons; reversed polarity
 Chron M0
- chrons, normal, igneous units, 205A4:176
- chrysene, sediments, 155B35:562
- chrysophycean cysts
 continental signal, 175B11:10–11
 mass accumulation rates vs. age, 175B11:22
 sediments, 175B11:8
 Site 693, 113B26:423–424
 Site 699, 114B15:304, 308–310
 Site 700, 114B15:304, 308–310
- chrysotile
 bastite, 106/109A8:213
 breccia clasts and matrix, 173A7:195
 chlorine, 195B6:7
 clasts, 173A9:282–283
 decomposition, 125B17:317
 deformation of ultramafic rocks, 147B14:264
 fault gouge, 180A11:4
 fibers, 173A7:202
 formation temperature, 125B26:439
 hydrothermal veins, 153A3:86
 magnesium-calcium-silicon-oxygen-hydrogen sys-
 tem, 209A6:77

- magnetite formation, 106/109B9:105, 115
- olivines, 106/109A17:214
- petrology, 173A7:189–190
- photograph, 147A4:135; 153B3:40, 47–48, 53, 55–56; 195A3:140
- photomicrograph, 195A3:73; 209A3:74
- secondary minerals, 149A4:80
- serpentine deposits, 125B19:355, 358, 361
- serpentinites, 125B17:323; 149B32:544; 153B3:38–39, 47; 173A7:192–193
- Site 778, 125B19:354
- veins, 173A7:203
- volcaniclastics, 180B3:3–4
- vs. depth, 209A9:68
- X-ray diffraction data, 125B17:315; 209A6:64; 7:60, 63, 65; 9:60, 65
- See also* clinochrysotile
- Cibicidae
 - Pleistocene, 133B26:371–374
 - Site 821, 133B26:367, 371–374
- Cichorioideae, Site 795, 127/128B(1)28:491
- cinnamyl/vanillyl ratio
 - organic matter, 201B4:9
 - vs. depth, 201B4:20
 - vs. syringyl/vanillyl ratio, 201B4:21
- circulation
 - paleoceanography, 160A2:21
 - See also* ocean circulation
- circulation, convective, hydrothermal alteration, 139B12:303–305
- circulation models, sensitivity tests, 108B29:463–464
- circulation obviation retrofit kit (CORK)
 - configuration, 195A3:47–51, 133–137
 - formation pressure, 139B41:651–668
 - hydrothermal circulation, 169A1:13–14; 4:192–193
 - Sites 1023–1025, 168A4:97–98
 - Sites 1026–1027, 168A5:153
 - temperature, 156B19:247–252
 - tools, 139A3:43–53
 - well-logging, 139A7:535–536
- circulation obviation retrofit kit II (CORK-II)
 - Alvin* submersible postcruise visit, 205A1:36–37
 - installation, 205A1:25–26, 36, 53, 63, 72–74; 2:1–36; 4:11, 69; 6:4, 25
 - monitoring, 205A2:1–36
- cirripeds, sediments, 169S_A2:60
- cis*-2-butene, sediments, 180B18:4–14
- clams
 - gas hydrates, 204A1:6
 - lithology, 174AXS_A7:22
 - mud domes, 160A1:11
- Clansayesian, biostratigraphy, 171B_B3:2
- clastic component
 - breakdown, 141B11:159–160
 - lithology, 175A3:56; 4:89; 8:205; 10:281; 11:315–317
- clastic dikes
 - lithology, 134A12:405; 150A10:317–318
 - photograph, 135A(1)11:647; 141A9:311; 150A10:318; 159A6:172; 159B7:68; 161A8:375
 - sandstone, 131A6:97
 - Site 737, 119A6:170–171, 173
- See also* sandstone dikes
- clastic environment, sedimentation, 160B43:563–564
- clastic sediments. *See* sediments, clastic
- clastic sills, photograph, 150A10:318
- clastic-turbidite facies, Oligocene–Miocene interval, 117A10:277
- clastic wedges, transform margins, 159B2:19
- clastic zones
 - lithology, 193A3:32
 - photograph, 193A4:113
- clastics. *See* conglomerate; fanglomerate; granulestone; graywacke; gypsarenite; litharenite; lutite; molasse; pelites; quartzwacke; rudite; scleratoclasts; subarkose
- clasts
 - abrasion, 193A4:138
 - abundance, 155A12:332
 - age, 192B1:7
 - alkalic volcanism, 180B8:13
 - alteration, 183A7:44–47; 187A12:8–9; 187B5:8; 192A4:17–18; 192B6:5; 193A3:39–41
 - Antarctic basement source, 119A15:541, 551
 - apparent maximum size vs. depth, 149A6:164
 - area vs. depth, 160B48:628–629
 - basalts, 149B29:497–515; 206A3:78
 - basement/sediment contact, 161A6:216
 - basement units, 183A1:18–19, 35; 5:30, 38–43; 6:26–46; 7:14–39; 9:14, 16–22
 - boron and iodine, 195B5:5–8
 - breccia, 148B17:250–251; 158A7:70–74; 158B5:74–79; 161A6:235; 173A6:131–132; 195A3:55–56
 - calc-alkaline source, 180A10:11–12
 - carbonates, 160B33:428–429; 161B6:78; 195A5:8
 - cement, 164A8:271–272
 - characteristics, 160A11:389; 12:427–430
 - composition, 119A8:303; 152A10:169
 - Cornaglia Terrace, 107B2:32
 - Cretaceous/Tertiary boundary, 165A8:394
 - dating, 180B2:9–11
 - debris flows, 181A7:26
 - deposition, 155A21:645–646
 - diagenesis, 144B46:807; 160B45:581, 583
 - diamictite, 178A9:6–7
 - diamicton, 152A10:169
 - dip, 178A9:47
 - disintegration, 173A4:198–199; 7:200
 - distribution, 160B46:602; 50:671, 677
 - Eocene, 134B14:309
 - fault gouge, 180A11:4
 - foliation, 173A6:148
 - foraminifer sand, 162A4:115
 - foraminifers, 161B15:207; 207A8:15–16
 - forearcs, 180B(synthesis):9
 - Formation MicroScanner imagery, 180A6:213
 - gabbro, 173A9:282–283
 - geochemistry, 134A13:504; 163A5:59; 163B7:68
 - glacial–interglacial cycles, 107B38:659
 - glaciomarine sediments, 163X_A8:3
 - glassy rims, 168B10:128
 - grain size, 119B6:81; 155B6:125–128; 162A10:356
 - halite, 160B50:669

- halogens, 195B5:18
 histograms, 149A6:164
 hydrothermal alteration, 158A10:193–199; 11:220;
 209A6:10
 hydrothermal event frequency, 193B1:24–25
 hydrothermal fields, 158A1:9–10
 hydrothermal veins, 153B9:171–172
 ice-rafted debris, 178B25:9
 igneous units, 163X_A6:21–23
 Kerguelen Plateau, 119A2:7
 Krumbein sphericity, 195A3:143
 lava flows, 183A4:16
 lithofacies, 150B11:203, 205; 155B2:13; 40:613;
 160B43:550–559
 lithologic motifs, 173A7:173–174
 lithologic origin, 160B45:584–586
 lithology, 119B10:195; 134A12:408; 149A4:58–59;
 150A9:263–265, 269; 10:317–318; 151A7:170;
 11:359–360; 152A6:57–62; 8:92; 155A11:281;
 13:388; 17:508–509; 20:600; 22:662–663;
 160A11:400–401; 12:424, 430–431; 161A6:195;
 7:306; 163A3:26; 4:35; 5:52–53; 163X_A5:4;
 164A8:246; 169A4:167–168; 170A3:53; 4:103–
 104; 6:195; 7:220; 171B_A3:54; 4:104–105;
 173A4:71–74; 7:186; 8:238, 240–241;
 174AX_A1:26; 174AXS_A6:28–29, 31–34;
 178A6:4–4; 8:7; 180A5:8–9, 16–17; 6:24, 30–38;
 7:9–10; 9:20–24; 10:5–8; 180B6:11; 181A7:8–9;
 182A1:19–20; 6:5–6; 8:7; 183A1:25, 32–33;
 5:15–22; 7:42–43; 185A3:13; 187A13:4–7;
 188A4:9–13; 190A6:7; 192A3:10; 4:5–8;
 193A3:21–33; 194A8:6–9; 7:14; 195A3:11–12;
 4:13–14; 197A3:13–14; 4:8–9; 5:6, 10;
 201A8:11–12; 9:8–9; 204A9:6–7; 10:5;
 205A4:21; 206A1:27–28; 207A5:8–9; 8:4–6;
 209A3:4; 210A1:22; 3:28; 4:5–6
 lower Aptian, 192A6:9
 Marsili Basin, 107B17:288
 mass flow units, 160B37:468
 matrix petrography, 187A13:6
 Messinian–Pliocene interval, 160B36:458–459;
 51:685–686
 metamorphic groups, 119B7:137–138
 meta-ophiolitic sulfide ore association, 107B16:252
 metasediments, 173A8:256–258
 microcyclicality, 107A10:761
 mineralogy and composition, 160B45:584–585
 movement, 193A3:25; 4:13
 mud breccia, 160A1:11–14; 160B46:598–599
 mud domes, 160A18:522–524
 mud volcanoes, 160B45:575–595; 195A1:10–15
 occurrence, 160A12:445
 orientation, 119A7:299–300; 119B6:107
 origin, 158B18:243–244
 paleogeography, 160B50:672–673
 peridotites, 195A1:3–4
 petrography, 157A7:353–355; 160B37:471; 45:577–
 579; 161B3:42; 173A9:273; 187A13:4–6;
 195A4:14–16
 petrology, 134A13:501; 134B18:364–367; 19:375–392;
 144B29:496, 500–502; 147A4:114–122;
 149B36:581; 157B12:145–148; 16:268, 270–273,
 282–283; 158A7:79–81; 173A7:188–189; 9:279;
 180A7:11–17; 183A5:32–33; 195A3:16–21;
 195B1:10–11
 photograph, 144A3:80; 4:134; 5:159; 145A5:135;
 8:343; 146A(1)4:67; 149A4:61; 6:166–169, 185,
 188; 149B22:403; 150A9:266–271; 10:318;
 150B11:214–215; 151A7:170; 152A8:95;
 153A4:128, 157; 155A17:518; 19:573; 20:602–
 603; 155B6:123; 157A7:336–339; 10:511–514;
 158A7:73, 76–77, 81–83, 88–92, 115–116, 123,
 126, 130–132; 8:154–157; 10:181, 185–192,
 195–197; 11:215–217; 158B12:147; 18:248;
 159A6:173; 7:233; 160A8:230, 245; 161A4:68;
 6:236; 7:310; 161B25:341; 42:533; 162A10:360;
 163A5:52–53; 165A6:306, 328; 170A3:59; 7:224;
 173A7:176–179, 188; 9:274; 176A3:195;
 178A8:39; 180A5:57, 114; 8:49; 9:83; 12:79;
 183A3:28; 4:40, 64; 5:76, 87–88, 134, 137; 6:83–
 84, 117; 7:84, 101, 150; 8:59; 9:59, 74–75, 101;
 183B14:17–18; 185A3:83, 87; 187A10:7; 15:20;
 188A5:44; 192A6:59–60; 193A3:111–112, 116,
 151; 4:87, 92, 113, 131; 194A8:41; 195A3:68,
 90, 141–144; 197A1:60; 5:43; 6:32; 204A11:28;
 206A3:234, 237, 284; 207A4:44
 photomicrograph, 157A9:457–458; 157B17:313;
 160B37:472–473; 45:591–593; 161B27:362;
 173A4:80; 7:192; 180A1:60–62; 5:48–49, 58, 63;
 6:107; 7:31, 48; 8:57, 76, 78; 9:73; 180B7:55–56;
 8:41; 183A1:100; 5:94, 96, 109, 111; 187A8:21;
 192A4:57; 6:60; 193A3:135–136, 163;
 201B13:32; 209A6:97; 10:93; 210B2:23
 Pigafetta Basin, 129B5:147–148, 155, 160
 Pleistocene, 180A1:10
 Pliocene channels, 160B37:477–478
 Pliocene–Pleistocene interval, 180A1:19
 provenance, 107A12:961; 107B2:29, 32–33;
 160B50:668; 180B8:9–12
 reworking, 180B8:12
 rounding, 183A7:76
 sediments, 157A8:407; 207A4:8
 seismic properties, 195B11:1–12
 semibrittle shear zones, 209A6:24–25
 serpentinites, 149A6:164–166; 149B35:571–575;
 173A9:282; 195A3:60–63
 shapes, 119B6:90–91, 97–98
 silicification and paragonitization, 158A7:104–105,
 107; 158B19:257, 263–264
 Site 652, 107B38:645
 Site 654, 107B38:641
 Site 698, 114A5:96, 117
 Site 699, 114A6:159
 Site 701, 114A8:369, 393
 Site 736, 119A5:139
 Site 746, 119A15:539, 550
 Site 766, 123A5:278–279
 size, 149A6:162–163; 160A11:385, 387; 12:428;
 183A5:86; 197A3:57
 sources, 173A6:155–156
 stratigraphy, 158A7:67–68; 8:142–144
 structural data, 160A14:483; 169A4:169; 180A8:24

- sulfides, 158A7:103–104; 169A3:67–68
 tectonics, 173A7:215–217
 tektites, 150B13:249
 Tertiary sources, 107B2:33
 textures, 174A_B3:4, 9
 trace elements, 163X_A8:32
 vitroclasts, 157B16:268, 270–271
 volcanic pebbles, 161B44:568
 volcanoclastics, 180B7:7; 8:5–9; 197A3:19
 vs. depth, 157B12:146–147; 17:304; 192A4:48
 X-ray diffraction data, 188A5:12–13
 X-ray fluorescence data, 170A6:206
See also anhydrite; bioclasts; breccia; clay clasts; crystalloclasts; hydroclasts; intraclasts; limestone clasts; mud clasts; phytoclasts; quartzite clasts; rip-up clasts; veins; vitroclasts; volcanic clasts
- clasts, acidic, photomicrograph, 180A8:56
 clasts, acidic volcanic, photomicrograph, 180A10:24
 clasts, alkalic volcanic, volcanoclastics, 180B8:8
 clasts, altered
 lithology, 193A4:15–23
 photograph, 183A7:106
 photomicrograph, 168A5:138; 187A13:22; 193A4:105
 clasts, amphibolite
 internal structures, 173A4:199–200
 lithology, 173A6:127–129
 petrography, 173A7:190–191
 photograph, 173A6:147; 7:191
 clasts, andesite
 alteration, 125B14:268
 photomicrograph, 180B8:42
 clasts, angular, photograph, 180A12:105; 183A9:68; 192A1:56; 206A1:76; 3:171, 173
 clasts, angular altered sheared serpentized harzburgite, 210B9:48
 clasts, angular-subangular, photograph, 180A12:86
 clasts, anhedral olivine, photomicrograph, 200A3:93
 clasts, anorthosite, lithology, 173A7:175–177, 188–189
 clasts, apatite, lithology, 8:205
 clasts, aphyric basalt, photograph, 210A4:19
 clasts, aphyric pillow basalt, photograph, 187A15:27
 clasts, autolithic breccia, photograph, 183A7:103
 clasts, basalt
 alteration “placer sands,” 157B12:150
 composition, 163B7:73–74; 180A1:6
 geochemistry, 126B26:386
 lithology, 144A4:117–118; 10:345, 349–350; 149A6:163–166; 157A8:406–407; 163X_A4:6–14; 180A12:21–22; 180B6:13–14; 183A5:19–20; 187A13:6–7
 major elements, 157B12:155–156, 160
 Pacific Ocean E equatorial, 138A(1)10:199, 208
 petrography, 187A12:5–7; 192A4:14–15
 petrology, 143B16:263–276; 157B12:145; 168A5:119
 photograph, 144A11:424; 148A3:164–165; 149A4:59; 152A7:79; 157A7:337; 10:511, 513; 157B12:179; 158A7:92, 116, 118, 130; 158B15:200; 18:249–253; 168A5:117; 180A9:83; 185A3:87; 4:100; 187A1:25–26; 7:13, 20–21; 8:14; 12:22, 32; 14:10, 17–18; 15:21; 192A4:58, 64–67; 210A4:18
 photomicrograph, 129B5:152; 157A8:416; 163X_A6:39; 168A5:121; 180A10:23; 187A8:41; 12:27–28, 30, 33, 36; 13:37
 Pigafetta Basin, 129B5:138, 147
 Site 738, 119A12:238; 119B16:301
 Site 791, 126A7:148
 Sulu Sea, 124B15:255–256
 summary, 187A12:45
 turbidites, 143A9:312
 volcanoclastics, 157A9:454, 456; 180B8:7
 clasts, basalt/diabase
 lithology, 180A12:21–22
 photograph, 180A12:86
 clasts, basalt-micritic limestone, lithology, 187A7:4–5
 clasts, basalt tephra, photomicrograph, 197A3:62, 64
 clasts, basaltic glass, photograph, 187A12:32
 clasts, basaltic rubble, petrography, 187A8:3–4; 12:3–4
 clasts, basement, lithology, 173A7:175–177, 188–189
 clasts, basic volcanic rocks, lithology, 180A12:12
 clasts, biogenic, photomicrograph, 195A4:99
 clasts, biomicrite, photomicrograph, 160B37:473
 clasts, biotite, photomicrograph, 173A6:118
 clasts, biotite hornfels, photomicrograph, 173A7:174
 clasts, biotite schist, lithology, 173A7:176–177, 188–189
 clasts, bituminite, lonestone, 188A5:11
 clasts, black phosphate, lithology, 201A10:10
 clasts, bleached, photograph, 193A4:96, 138
 clasts, boundstone, photograph, 173A8:239
 clasts, breccia
 andesites, 126B28:442
 alteration, 187A1:11; 13:7–8
 basement units, 183A6:25–26, 37–38
 geochemistry, 173A7:195–196
 internal structures, 173A4:199–201
 Kerguelen-Heard Plateau S, 119B16:301
 lithology, 183A5:25; 187A8:3–7; 12:7–8
 oxidation, 183A7:43–47
 Peru margin, 112A17:610
 photomicrograph, 173B6:8; 183A7:78, 82, 86
 Vanuatu, 134A11:338
 X-ray diffraction data, 173A7:193–194
 clasts, bryozoan, lithology, 194A7:7
 clasts, calc-alkalic, photomicrograph, 180B8:42
 clasts, calc-alkalic volcanic, volcanoclastics, 180B8:8–9
 clasts, calcareous mud, photograph, 210A3:215
 clasts, calcareous mudstone rip-up, 210A3:134, 146
 clasts, calcite, photograph, 187A7:22
 clasts, calpionellid limestone, lithology, 173A7:175–177
 clasts, carbonate
 gravity flows, 101B12:179–182
 origin, 101B12:182–183
 lithology, 160A6:130; 7:161; 8:266; 200A3:15; 204A7:4; 210A3:22–25, 33–34
 petrography, 101B12:181
 photomicrograph, 168B10:136
 sediments, 101B12:187; 105B3:38
 Straits of Florida, 101A5:57, 59
 Tyrrhenian Sea, 107B2:29
 clasts, chalcopyrite-sphalerite, photomicrograph, 193A4:139

- clasts, chalk
 - lithofacies, 160B37:469; 43:555
 - photograph, 150B11:214; 170A4:116; 7:224
 - Vanuatu, 134A9:192
- clasts, chalk and siltstone, Vanuatu, 134A9:191
- clasts, chert
 - lithology, 181A5:5
 - vertical distribution, 158B1:14–17
 - volcaniclastics, 180B8:9
- clasts, chilled, photomicrograph, 183A6:101–102
- clasts, chlorite, volcaniclastics, 180B8:5–6
- clasts, chloritite, internal structures, 173A4:201
- clasts, chloritized metabasite, petrography, 173A7:191–192
- clasts, clay
 - lithofacies, 150B11:207–209
 - lithology, 164A5:69–75, 78, 94–96; 6:110; 174AX_A1:21, 29; 174AXS_A6:23, 45; 204A7:5; 11:4–7
 - photograph, 151A6:120; 151B32:573; 155A22:668; 164A5:76–77; 6:110; 171B_A4:110–111; 187A12:29; 204A9:40; 11:28
 - photomicrograph, 187A12:27
 - sediments, 171B_A4:107
- clasts, clay-rich, lithology, 180A12:17
- clasts, clay rip-up, lithology, 171B_A4:105; 174AX_A1:22–26; 174AXS_A5:18; 7:12
- clasts, clayey, photograph, 152B9:127
- clasts, claystone
 - lithology, 171B_A4:103; 200A3:15
 - photograph, 170A7:223; 171B_A4:110; 180A12:79
- clasts, chlorite, volcaniclastics, 180B8:5–6
- clasts, clinopyroxenite, mylonites, 180A11:5
- clasts, conglomerate
 - composition, 180A12:26; 180B6:14
 - lithology, 150B11:209–210; 180A9:23–24
 - volcaniclastics, 180B8:9
- clasts, cryptalgal micrite, photomicrograph, 173A7:174
- clasts, dark organic, lithology, 188A4:10
- clasts, deformed, photograph, 150B11:216
- clasts, diabase
 - alteration, 192A4:17–18
 - composition, 180A7:14; 8:17
 - lithology, 180A12:21–22; 180B6:13–14
 - photomicrograph, 192A4:68–69
 - volcaniclastics, 180B8:7
 - See also* basalt/diabase clasts
- clasts, diamicton, lithology, 163X_A6:5–19
- clasts, diorite, volcaniclastics, 180B8:6–7
- clasts, disturbed sediment, photograph, 130A6:186
- clasts, doleritic basalt
 - lithology, 170A6:195, 197
 - photograph, 170A6:201
- clasts, dunite, lithology, 173A7:175–177, 188–189
- clasts, elongate
 - dip, 178A6:35
 - lithology, 178A6:36
 - photograph, 183A9:71
- clasts, epidosite
 - breccia, 173A6:131–132
 - internal structures, 173A4:201
 - lithology, 173A7:175–177, 188–189
- clasts, epidote
 - lithology, 173A7:175–177; 187A13:4
 - volcaniclastics, 180B8:5–6
- clasts, extraformational, lithology, 173A8:234–236
- clasts, feldspar, photograph, 187A12:22
- clasts, floating, mudstone, 178A9:8
- clasts, folded mud, lithofacies, 155B40:643
- clasts, foliated amphibolite, lithology, 173A7:175–177, 188–189
- clasts, fractured, photograph, 149A6:184
- clasts, fractured amphibole, photomicrograph, 209A10:102
- clasts, gabbro
 - composition, 180A11:8
 - lithology, 210A1:22; 4:7; 210B9:10–11
 - photograph, 210B9:48
- clasts, garnet-biotite, monazite, 183B1:9
- clasts, glassy
 - lithology, 192A7:4
 - photograph, 168A5:117
 - photomicrograph, 192A4:78; 193A4:112
 - volcaniclastics, 192B1:7
- clasts, glassy basalt
 - photograph, 187A12:34
 - photomicrograph, 180A10:33
- clasts, glauconitic, lithology, 201A8:11
- clasts, gneiss, garnet grains, 183B1:9
- clasts, granite
 - dating, 180B2:10–11
 - photomicrograph, 183A5:110
 - volcaniclastics, 180B8:6
- clasts, granules, lithology, 210A3:37
- clasts, gravel
 - ice-rafted debris, 178B25:9–10
 - lithology, 152A8:93
 - shape, 119B6:90–91
 - sources, 119B6:114
 - weathering rinds, 119B6:114
- clasts, highly vesicular basalt, photomicrograph, 192A4:63
- clasts, hyaloclastite, photograph, 210B9:50
- clasts, ice-rafted, photograph, 178A6:40
- clasts, igneous
 - cores, 147A4:114
 - lithology, 180A6:28–29
 - petrology, 183A5:32–33
 - serpentine matrix, 125A7:119
 - Site 732, 118A3:49, 55
- clasts, igneous breccia
 - major elements, 170A6:209
 - trace elements, 170A6:209
- clasts, indurated angular, lithology, 180A8:14–15
- clasts, intraformational
 - lithology, 180A5:11–12
 - photograph, 171B_A5:185
- clasts, jigsaw brecciated
 - petrology, 173A7:189
 - photograph, 173A9:287
 - structural data, 173A9:285–288

- clasts, lava
 - alkali basalts, 143B16:267
 - basement units, 183A7:14, 25
 - lithology, 173A4:75; 7:175–177
 - photograph, 183A5:80
 - photomicrograph, 173A8:233, 236; 173B6:8; 180B8:42; 183A5:95
 - volcaniclastics, 180B8:8–9
- clasts, lapilli scoria, photograph, 197A3:63
- clasts, lensoid, petrology, 180A11:5
- clasts, limestone
 - Baffin Bay, 105B3:51
 - lithology, 144A10:342, 344–345, 349–350; 160B37:469–471; 43:555
 - mass flow units, 160B37:467
 - Messinian–Pliocene interval, 160B36:458–459
 - photograph, 144A10:353; 161A7:312; 192A6:59
- clasts, lithic
 - alteration, 183A6:50; 7:43; 187A14:4–5; 192A4:17–18
 - basalts, 192A4:13–15
 - eruptions, 192A4:16
 - Kerguelen Plateau, 120B(1)10:138–139
 - lithofacies, 150B11:207–209
 - lithology, 183A5:7, 26; 190A9:6–9; 200A3:13
 - petrography, 187A15:6–7
 - photograph, 150B11:213; 183A6:83–84, 89–90; 7:112; 187A14:21; 190A1:68; 7:29; 200A3:73, 75; 209A5:108
 - photomicrograph, 183A6:86–88; 187A8:38; 210A3:171
 - Pigafetta Basin, 129B5:138
 - provenance, 159B12:120
 - Site 748, 120B(1)9:118
- clasts, lithic/all clasts ratio, vs. depth, 192A4:48
- clasts, lithic vitric, photomicrograph, 192A1:54
- clasts, lithic volcanogenic, Pigafetta Basin, 129B5:138
- clasts, macrofossil, Site 738, 119A7:238
- clasts, mafic
 - metamorphism, 125A7:110
 - petrology, 125A6:102
 - photograph, 149A7:235
 - tephra fall deposits, 183B9:7–8
- clasts, manganese oxide-coated, 119A13:482–483
- clasts, marl turbidites, 123B5:115–116, 127
- clasts, matrix-supported, photograph, 209A7:87
- clasts, meta-anorthosite
 - internal structures, 173A4:200–201
 - petrography, 173A7:191
- clasts, metabasaltic, geochemistry, 158B17:217–218, 221
- clasts, metabasite, lithology, 173A7:175–177, 188–189
- clasts, metagabbro
 - internal structures, 173A4:199–200
 - lithology, 173A7:175–177, 188–189
 - petrography, 173A7:190–191
 - photomicrograph, 173A7:201
- clasts, metaigneous, lithology, 173A7:175–177, 188–189
- clasts, metamorphic
 - Coryell-Masuda diagram, 195B4:33
 - lithology, 149A6:166–167
 - major elements, 195B4:7–8
 - petrology, 183A5:33–34
 - provenance, 119A14:530
 - serpentine matrix, 125A7:119
 - Site 732, 118A3:49, 55
 - Site 745, 119A14:508
 - Tyrrhenian Sea, 107B2:34; 38:643
- clasts, metasedimentary
 - photograph, 173A8:230, 236, 239–240
 - Tyrrhenian Sea, 107B38:643
- clasts, metatonalite, petrography, 173A7:191
- clasts, micrite
 - lithology, 210A3:28
 - photomicrograph, 173A8:233
 - Tyrrhenian Sea, 107B12:175
- clasts, micritic carbonate lithic, photomicrograph, 210A3:149
- clasts, microamphibolite, lithology, 173A7:175–177, 188–189
- clasts, microgabbro, volcaniclastics, 180B8:6–7
- clasts, microlitic basalt, photomicrograph, 157B17:313
- clasts, mineral, veins, 140A2:111
- clasts, monogenic, photograph, 173A9:287
- clasts, mud
 - clastic sulfides, 169A3:59
 - composition, 150B11:222–223
 - deformation, 150B11:195–199
 - lithofacies, 150B11:201, 203; 155B40:620, 625, 627, 630
 - lithology, 135A(1)5:193–194; 151A6:122; 155A6:93; 7:130; 12:328–335; 17:509; 19:575; 21:637–638, 641–645; 157A9:444; 160A7:196; 168A5:110; 172A3:39–40; 4:84; 174A_A5:159–160; 178A9:7; 184A9:8–9; 188A5:9–11; 189A3:13; 197A5:6; 204A4:9–10; 10:4–5; 210A3:22–25
 - paleoenvironment, 151A13:418–419
 - photograph, 143A9:316; 146A(1)5:141; 7:320; 150B11:208–209; 155A6:103; 7:136; 10:254; 11:284–285; 12:330, 332–333, 337–341; 17:513, 515–516; 19:574, 576; 21:639, 641–642; 22:662, 664; 164A7:254; 169A3:60, 65; 170A4:104, 106, 111; 5:161; 171B_A4:115; 174A_A4:112; 5:161; 177A4:37; 188A5:49; 190A9:33; 204A4:57; 210A1:63; 3:220–221
 - photomicrograph, 180B8:41
 - sandstone beds, 126B4:85
 - Site 799, 128A5:267
- clasts, mud and normally graded sands, 150B11:203
- clasts, mudstone
 - Baffin Bay, 105B3:38, 40, 52
 - lithology, 160A12:430–431; 178A9:7; 210A3:21–25, 58–59
 - photograph, 144A7:268; 160A12:428
 - photomicrograph, 160B45:594
 - Site 682, 112A14:375
- clasts, mudstone rip-up, photograph, 210A3:132
- clasts, muscovite, argon isotopes, 210B4:1–13
- clasts, mylonite
 - composition, 180A1:14
 - lithology, 210B9:7–8
- clasts, nonvesicular basalt, photomicrograph, 192A4:57
- clasts, ochreous, Tyrrhenian Sea, 107B38:647–648

- clasts, olivine
 - lithology, 200A1:23; 3:15–19
 - photomicrograph, 200A3:84
- clasts, olivine gabbro, lithology, 173A7:175–177, 188–189
- clasts, ooze, lithology, 170A3:57
- clasts, ophiolitic
 - lithofacies, 160B43:558
 - volcaniclastics, 180B8:10–11
- clasts, oxidized
 - Chichijima, 125B9:148–149
 - photograph, 183A5:130
 - Site 786, 125B9:148
- clasts, palagonite
 - lithology, 187A7:4
 - petrography, 187A12:5–6
 - photograph, 187A7:20; 12:29; 13:34
 - photomicrograph, 187A8:22–23; 12:36; 13:23
- clasts, partially welded tuff, vitroclasts, 157B16:270
- clasts, pebble, photograph, 183A5:73
- clasts, pelite
 - photograph, 173A6:119
 - photomicrograph, 173A7:174; 8:233
- clasts, perlitic
 - photograph, 193A4:96, 138
 - photomicrograph, 193A4:112
- clasts, phonolite
 - photograph, 157A7:337; 10:511, 513
 - photomicrograph, 157A8:416
- clasts, plagioclase, mylonites, 180A11:5
- clasts, plagioclase-clinopyroxene phyric basalt, 183A6:46–47
 - glass, 192A4:79
- clasts, plagioclase-olivine phyric basalt, photograph, 187A8:18
- clasts, plagioclase phyric basalt, photomicrograph, 180A12:68
- clasts, polycrystalline quartz, photomicrograph, 173A8:233
- clasts, polymict basalt, lithology, 187A7:3–5
- clasts, porous, photograph, 193A4:96, 138
- clasts, porphyritic, photomicrograph, 180A10:34; 193A4:112
- clasts, potassium feldspar
 - lithology, 183A5:7
 - photograph, 183A5:137
- clasts, pumice
 - alteration, 183A6:50
 - depositional mechanisms, 126A6:117
 - lithology, 198A10:5, 7; 206A3:24–26
 - photograph, 157A10:514; 183A6:83–85, 89–90
 - photomicrograph, 157A7:357; 9:458; 180A9:73; 183A6:86–88
 - sediments, 135A(1)7:299; 8:350; 135B4:69; 7:107
 - Site 788, 126A6:106–107, 109
 - Site 793, 126A9:325, 331
 - volcaniclastics, 180B8:8–9
 - X-ray diffraction data, 126A7:148
 - Yaquina Basin, 112A15:446
- clasts, pyrrhotite
 - hydrothermal alteration, 169A6:267–268
 - photograph, 169A3:68
- clasts, quartz
 - dolomite, 175B15:12
 - lithology, 170A3:58–60; 173A6:112–114; 8:234
 - photograph, 190A1:68
 - photomicrograph, 173A4:78; 6:118; 7:174; 8:233
 - provenance, 159B12:120
- clasts, quartzite, photograph, 161A7:312
- clasts, quartzose sandstone, Baffin Bay, 105B3:52
- clasts, red lithic
 - deposition, 192A4:10
 - vs. depth, 192A4:48
- clasts, residual
 - structural analysis, 146B(1)13:219, 221, 223–224
 - vs. depth, 146B(1)13:222
- clasts, resistive, Formation MicroScanner imagery, 209A7:90
- clasts, reworked, lithology, 182A1:39
- clasts, rhyodacite, photograph, 141A9:309
- clasts, rhyolite
 - age, 180B(synthesis):, 7
 - dating, 180B2:9–10, 27
- clasts, rhyolitic pumice, composition, 135A(1)8:356
- clasts, rip-up
 - diamictite, 178A9:7
 - eruptions, 192A4:16
 - lithology, 163X_A6:19–21; 174AXS_A1:27; 5:34–35; 180A5:11–12; 8:10; 9:23; 10:9; 182A5:7; 189A7:14; 210A3:26–28
 - photograph, 152A11:202; 157A6:148; 10:514; 159A5:84–85; 161A8:373; 177A4:37; 178A6:37; 7:41; 184A9:57; 188A3:100; 190A8:32–33; 192A4:46, 62; 200A3:66; 210A3:20
 - Pliocene, 180B(synthesis):11
 - sandstone, 127/128B(1)7:104; 180B8:4
 - vs. depth, 177A4:33
- clasts, rock
 - lithology, 188A5:9–11
 - photograph, 155A12:334
- clasts, rounded, photograph, 178A6:37; 180A9:85
- clasts, sand
 - photograph, 155A12:334
 - composition, 180B7:18
- clasts, sandstone
 - Beacon Supergroup strata, 119B10:195
 - cross laminations, 160B45:583
 - lithology, 160A11:400; 12:430–431
 - photograph, 155A11:284–285; 159A6:189; 180A9:83; 210A3:214, 218
 - photomicrograph, 160A11:389
 - volcaniclastics, 180B8:9
- clasts, sanidine-phyric, geochemistry, 183A5:36–37
- clasts, scattered elongate rip up, photograph, 210A3:202
- clasts, schist, photomicrograph, 180A10:25
- clasts, sedimentary
 - photograph, 130A6:187
 - Site 732, 118A3:49
 - Site 793, 126A9:342
 - Tyrrhenian Sea, 107B2:34
 - volcaniclastics, 180B8:9
- clasts, sedimentary breccia, trace elements, 170A6:209

clasts, serpentine • clay

192

- clasts, serpentine
 Bonin-Mariana region, 125A10:199; 125B36:599
 deformation, 125B18:328
 photograph, 149A4:62, 87; 173A9:287
 shape, 125A6:106
- clasts, serpentine clay
 cycles, 150B20:366–367
 lithology, 149A5:118–124; 6:152–155; 7:218–220;
 8:264; 150X_A1:23; 150X_B2:16, 18; 18:255
 Neogene, 149B12:283–284
 photograph, 149A7:219
 pore water, 150X_B25:343–354
 textures, 150X_B24:317–341
 vs. depth, 150A7:143
See also red clay; sheared clays
- clasts, serpentinite
 lithology, 173A7:175–177, 189–190; 210A1:22;
 210B9:7–8
 petrology, 173A9:279
 photograph, 195A3:79
 photomicrograph, 173A9:282
 volcanoclastics, 180B8:6
- clasts, serpentinite-gabbro, photograph, 210A4:20, 22
- clasts, shardlike, petrography, 160B45:579
- clasts, sideromelane
 petrology, 157B12:145
 photomicrograph, 157B12:149
- clasts, silicified
 hydrothermal alteration, 158A8:160–163
 strontium and oxygen isotopes, 158B22:302–308
- clasts, silicified mudstone, Site 682, 112A14:371
- clasts, silt
 lithology, 169S_A2:24
 photograph, 178A9:45
- clasts, siltstone
 lithology, 160A12:430–431
 photograph, 180A9:83
 veins, 159A7:240
- clasts, sparsely vesicular basalt, photomicrograph,
 192A4:57
- clasts, spherulitic, photomicrograph, 193B8:13
- clasts, subangular plutonic, photomicrograph,
 210A3:182
- clasts, subrounded
 mudstone, 210A3:132
 siltstone, 210A2:203
- clasts, sulfide, photograph, 169A3:67; 210A3:163
- clasts, tachylite
 alteration, 192A4:17–18
 deposition, 192A4:10
 eruptions, 192A4:16
 petrography, 157A10:520–521
 petrology, 157B12:145
 photomicrograph, 129B5:152; 192A4:57
 Site 738, 119B16:301
- clasts, tephra
 photograph, 170A4:107
 volcanoclastics, 197A3:19
- clasts, titanite, petrology, 157B12:145
- clasts, tonalite, internal structures, 173A4:201
- clasts, trachyte, volcanoclastics, 180B8:9
- clasts, tube pumice, photomicrograph, 193A4:103
- clasts, tuff, photomicrograph, 157A10:524
- clasts, ultramafic
 petrology, 125A6:102, 110; 12:300
 photograph, 209A3:70, 83, 107
- clasts, variegated mud, lithology, 183A6:4
- clasts, vesicular, photograph, 183A6:98, 100; 7:89
- clasts, vitric
 altered tuff, 124B13:189–191
 andesitic composition, 135A(1)6:259
 photograph, 135A(1)10:515; 152B8:112
 photomicrograph, 193A3:117–118
 rhyolitic strata, 124B13:183
 volcanic ash, 198B18:4–5
- clasts, vitric shard, photomicrograph, 192A4:57, 76–77
- clasts, vitric vesicular, photograph, 144A10:353
- clasts, volcanic
 alteration, 135B40:653; 183A6:50–52
 argon isotopes, 178B22:1–26
 basement units, 183B14:3–8
 chemical composition, 135B38:640–642; 180B8:36
 conglomerate, 126A9:333
 deposition, 126A9:346
 lithology, 177A8:7–8; 183A5:16
 pebbles, 178B11:3
 petrography, 161B27:357–359
 petrology, 126A9:361–362; 134A10:276–277; 12:412–
 414; 141A9:315–316
 photograph, 157A8:407; 180A10:30; 193A4:78–79,
 90–92, 118, 134, 138
 photomicrograph, 157A8:416; 183A5:92–93, 97;
 193A1:68, 72; 4:80–81, 104, 107–109;
 210A3:174
See also alkalic volcanic clasts
- clasts, volcanic glass, petrography, 187A12:5–6
- clasts, volcanoclastic, Pacific Ocean NW, 144A3:71–72
- clasts, volcanogenic sandstone, composition, 180A7:16
- clasts, weathered, photograph, 209A7:72
- clasts, welded
 basement units, 183A7:29
 photograph, 183A6:117
- clasts/matrix ratio, breccia, 187A13:9–10
- clathrates
 accretionary wedges, 146A(1)9:396
 bottom-simulating reflectors, 141B20:259–260
 dissociation, 112A1:18
 Lima Basin C, 112B29:488
 melting, 153B22:408; 159B6:51
 mud domes, 160A11:394; 18:522–524
 occurrence, 160A12:445
 pore water, 162A9:310
 sediments, 160A11:394–395
 seismic reflectors, 175A16:500, 503–504
 Site 796, 127A6:251, 278, 281, 288–289
 upwelling, 175A1:15
See also gas hydrates
- clathrates, methane, bottom-simulating reflectors,
 141B20:259–260
- clay
 abundance, 105B39:767; 145A3:42; 5:128; 6:217–218;
 7:307–308; 8:341; 160B19:241

- amygdules, 193A3:29–30
 Albian, 103A12:600
 alteration, 113B5:53; 124A11:259–262; 147A3:71;
 163A3:27; 4:38; 5:62–64; 183A6:50–52; 9:33–35;
 187A5:4; 8:7–8; 10:3–4; 11:7–10; 12:8–9; 13:10–
 11; 14:4–5; 15:8–9; 187B1:7–8; 193A3:26;
 193B11:1–19; 197A4:20; 6:16; 200A3:22–25;
 205A4:32–33; 209A5:12; 6:14; 7:8–10; 8:2–3
 aluminum ratios, 104B3:59
 Atlantic Ocean E tropical, 108B15:249, 257
 authigenesis, 180A9:40
 Baffin Bay, 105A4:77–79
 Barbados Ridge, 110A6:323, 327; 9:410; 8:494
 Barremian–Aptian interval, 103A1:11
 basalts, 120B(1)4:64; 129B27:493; 163B2:25–26
 basement units, 183A6:24–25, 36–37; 9:31
 biostratigraphy, 129B10:206; 144A5:177
 bioturbation, 113B6:83
 Bouma sequence T divisions, 103A9:236
 breccia, 161B25:335; 173B1:3–5
 Cagayan Ridge, 124A12:304–306, 315; 14:400–401,
 410
 Callovian, 129B32:603
 Campanian, 129B31:555
 Campanian–Tertiary interval, 129B1:10
 carbon, 103B33:558–559
 carbonates, 113B7:77, 79–80; 115B25:471; 209A9:10–
 11
 cation exchange capacity, 111B12:139
 Celebes Sea, 124A13:346–348, 351, 359–360
 Cenomanian/Turonian boundary, 103B35:592
 Cenozoic, 103B36:637
 chloride, 156B10:146
 clastic sulfides, 169A3:59
 coatings, 127/128B(1)4:57
 color, 103B35:590; 106/109B14:182–183; 113B6:73–
 75; 167B29:329
 color reflectance, 166A9:242; 167A(1)4:77
 compaction, 165B10:181–183
 composite digital images, 208A7:45
 composite sections, 166A9:248–250
 composition, 137/140B13:149; 169S_A2:14; 187A7:9–
 10; 9:8; 14:6–7; 15:10; 190/196B4:1–28
 convergent margins, 141B8:108–109
 Costa Rica Rift, 111A1:11; 3:108, 114
 Cretaceous, 103A1:9; 103B35:598; 123B5:127;
 129B36:689; 143B9:120
 Cretaceous/Tertiary boundary, 121B19:419–420;
 165A4:151–152
 cumulative percentages, 174AXS_A3:73–77
 cycles, 165B7:132
 dating, 110A5:260; 6:350; 7:436; 8:500; 9:544;
 110B2:8; 5:51; 113A7:299–300; 8:335–336;
 10:532; 11:614–615; 12:711; 113B5:53–54, 59,
 63
 décollement zone, 171A_B3:10–11; 190/196B1:6
 density, 127/128B(2)80:1278–1279
 deposition, 124A12:311–313; 14:404
 diagenesis, 104B3:52–53; 113B5:53; 120B(1)8:105;
 159A9:303, 305; 175A10:294; 178A8:14;
 189A3:44; 190/196B6:11–12
 distribution, 110B7:99, 104–105; 119B8:149
 electrical conductivity modeling, 124B7:96–103
 electron microscopy, 160B34:443–444; 170B3:24;
 171A_B1:4, 13–14; 178B18:11–12
 flux sedimentation, 145A3:62
 Formation MicroScanner imagery, 143B21:332–333
 frequency distribution, 110B16:247–248
 gabbros, 205A4:27–29
 Galicia margin W, 103A8:125, 129–133, 160, 162;
 9:221–223, 230–233, 239; 103B27:461–464;
 31:513–514
 gamma ray logs, 103A9:271; 10:445; 127/128B(1)1:6
 gas hydrates, 204B10:4–6
 geochemistry, 102B10:139–143; 104B3:50–52;
 115B38:702; 121A12:410; 166B17:191–194;
 168B12:149–157; 180B17:5–6; 200A3:30–35
 geology, 195A1:15–16
 geotechnical properties, 144A3:77; 5:188; 190/
 196B6:12–13
 glauconite, 120B(1)9:121–122
 grain density, 105B43:820
 grain size, 110B5:56, 62–83; 19:295, 299, 303;
 130A8:306; 152B4:39–49; 174A_B4:1–18; 190/
 196B8:9–11
 halos, 106/109A6:168
 hydration, 162A5:158
 hydrothermal circulation, 169A1:11
 igneous rocks, 163A4:36
 imagery, 171A_B1:14
 input pulses, 129B32:602
 in situ dehydration, 190A1:30
 instability tests, 131A6:213–217, 220
 ion concentration, 185B11:10
 iron-magnesium smectite/chlorite, 147B13:242
 iron-potassium-magnesium plot, 168B10:134
 Jurassic–Lower Cretaceous interval, 129B32:608
 laminae, 188A3:15–16; 205A4:20
 lath structures, 102B10:148–149
 lava flows, 163A5:55
 layers vs. depth, 166A9:242
 light absorption spectroscopy, 199A5:5–6
 limestone, 192A3:20–21
 Lingayen Gulf, 124E_A13:76, 81
 lithofacies, 143B31:514, 518–520; 144B51:899–900;
 155B40:620; 161B4:59, 62–64; 165B7:131–133
 lithology, 103A10:416–417, 451, 462; 11:536–537,
 550; 12:571–572, 576–580; 103B27:462–463;
 468; 104A4:65, 70; 5:461–467; 6:625; 105A4:83,
 89; 6:692, 695; 129B2:33; 133A(1)14:574;
 135A(1)11:585, 589; 138A(2)13:681–684;
 144A6:220, 422–423; 144B45:771–772;
 145A3:86; 6:216; 7:306; 8:342; 151A7:166, 171;
 11:353, 356; 152A12:261–264; 154A4:60; 6:235–
 236; 7:283; 8:342–343; 9:421–422; 155A6:93;
 13:387–388, 391; 15:443–444; 19:574–576;
 21:637–638, 641–645; 22:661; 156A6:98; 7:202;
 159A5:77–78, 80; 8:264–266; 160A8:220–222;
 9:295; 14:469–471; 160B34:438; 161A4:59–64;
 5:125–126, 128, 131; 7:304–305; 161B7:84–86;
 162A3:55, 58; 5:146, 149, 152; 6:178, 181, 184;
 8:261–266; 9:296, 298; 163A5:52; 163X_A4:6;

- 6:17-19; 164A5:75; 165A3:53-55; 4:146-147, 150; 5:241-248; 6:298-306; 166A8:178; 9:238-239; 169S_A2:21; 167A(1)4:55; 5:89; 7:161; 8:180-181, 183; 9:245-247; 13:357-359; 14:393, 395; 15:436-438; 16:465, 467-468; 169A4:167-168; 5:208-209; 170A5:158-159, 161-162; 7:219-221; 171A_A7:100; 171B_A3:53-55, 59; 4:112; 5:180-181; 6:246, 251, 253; 172A3:38; 4:83-93; 5:164-165, 168, 170-174, 242; 6:255-259, 302; 173A4:71-74; 6:112-114; 8:238; 174A_A3:43-50; 4:104-115; 5:157-160, 162-163; 174AXS_A2:15-26, 29-33; 3:20-33; 4:12-28; 5:18; 6:24-25; 7:12; 175A4:89; 10:281; 11:315-317; 13:395; 14:434; 15:460; 177A5:5-7; 178A4:4-5, 10-11; 5:5; 7:35, 39; 178B25:4; 180A6:11; 8:13-14; 180B6:9, 11; 182A1:9-10, 22; 183A1:28, 34; 4:11-12; 6:5; 184A4:8-10; 5:6-9; 6:4-7; 7:5-9; 8:3-4; 9:6-11; 186A4:16-17; 187A11:4-7; 15:3-7; 188A3:15-16; 5:8-11; 189A3:12; 5:11-12, 17-19, 71; 7:13-18; 191A1:14; 4:11-13; 194A3:6-7; 5:5; 6:4; 9:3-4; 197A5:6; 198A3:12-13; 5:10-12; 7:10; 8:7-12; 9:9-10; 10:5, 7; 199A8:5; 9:5-6; 10:6-8; 11:7; 12:8-11; 13:6-10; 14:6-8; 15:4-6; 200A1:23-30; 201A8:11; 12:7-11; 202A3:6-9; 5:5-8; 9:8-11; 10:6-10; 204A3:4-8; 4:5-10; 5:3-5; 8:6-8; 206A3:23-26; 207A4:5-9; 5:5-7; 6:7-8; 7:4-11; 8:6-8; 208A3:6-7; 4:6-8; 5:5; 6:9-10; 7:6-9; 8:5-6
- Little Bahama Bank, 101A7:215, 218; 8:277
 location, 105A5:441
 Lower Cretaceous, 129B32:606
 lower Eocene, 199A1:29
 lower-lower middle Eocene interval, 199A1:11
 lower Oligocene-Neogene interval, 182A6:10
 magnetic properties, 136B3:45-46
 major events, 113B5:64
 Mariana Basin E, 124E_A18:122-123
 marl, 110A5:221
 mass accumulation rates, 129B32:598
 microfibrils, 113B18:226-230; 185B9:7-9
 microorganisms, 168B14:170-171
 mineral chemistry, 120B(1)4:67
 mineralogy, 101B11:173-174; 103A10:463-466, 470-471; 103B27:462-464, 466-469, 472-475; 110B6:86-91; 113A7:301, 303; 10:537-539; 11:620-623; 12:710-712, 715; 113B5:57-58, 61-62, 67-68; 119B3:50; 145B43:657-660; 177B13:1-10; 204B7:1-15; 11:1-19
 Miocene, 135B11:164
 Miocene-Pleistocene interval, 191A1:5-6
 Miocene-Pliocene interval, 103A8:123; 103B36:649
 Neogene, 103A1:10; 103B27:468-469, 472; 159A9:308-309
 neutron porosity logs, 102A3:114
 Norwegian Sea, 104A4:70, 74; 104B3:60
 ooze, 133A(1)8:256-257
 organic matter, 124A12:330; 207A8:27-28
 origin, 119A14:530; 144B17:348
 Orinoco River, 110B8:116
 Owen Ridge, 117A10:258, 293; 117B12:240
 oxidation, 106/109B14:184
 Paleocene/Eocene boundary, 199A14:8
 paleoenvironment, 174AXS_A4:10-12; 189A5:15-16
 paleomagnetism, 103A10:430; 11:539-540; 129B23:432; 159B20:201, 203
 palygorskite, 101B11:174
 pelagic sequence, 102A3:101, 114
 percentage vs. depth, 138A(1)10:198; 168B6:69-71; 174A_A3:60; 4:116; 5:164
 permeability, 111B12:140
 petrography, 161A9:401; 161B7:86-87; 162A9:302; 167A(1)5:93; 170A7:221, 223, 225; 171B_A4:106, 113-114; 6:249, 257; 172A4:84-85, 89, 92; 5:166, 175; 6:259; 172B7:18; 173A9:274; 174A_A3:54; 5:158; 174AXS_A2:58; 175A4:91; 7:181; 187A8:3-4, 7; 13:5
 petrology, 144B29:497-502
 photograph, 141A7:165, 167-168; 8:245; 144B19:396, 398; 148A3:145, 162; 152B9:128; 155A7:134, 136; 12:335; 21:640; 157A4:68-69; 6:148; 160A8:230, 233-234; 9:298, 300; 163A4:36; 164A4:61; 7:183; 166A9:240; 168A5:118, 136; 171B_A4:114; 178A4:53; 178B18:10; 180A8:47; 181A5:31, 34; 183A4:63-64; 5:80, 133; 8:73; 9:72-73, 101-102; 185A4:64, 72-74; 187A8:19, 32; 10:7, 13, 17-18; 12:34, 37, 39; 13:36; 14:10; 15:30, 35, 37; 188A4:53-55, 57; 5:43, 50-52; 189A6:84; 192A6:55, 58; 194A8:36; 198A5:48; 199A10:27; 201A10:36; 12:30; 204A11:27; 205A1:59; 4:77, 87-88, 93-94, 97-104; 207A6:47-48; 7:45; 8:45; 209A5:89; 10:94; 210A3:171
 photomicrograph, 110B16:245-255; 129B1:27; 163X_A4:20; 6:39; 168A5:135; 172B5:18; 178A9:64; 180A12:62, 68; 183A5:116; 187A8:20, 29, 34-36; 10:10-11, 14-15; 11:28; 12:18, 22, 33, 35; 13:19; 14:13-15; 15:32, 36; 193A6:17; 194A4:49; 195A4:90; 200A3:86, 98-101; 205A1:57; 4:78, 92, 110; 206A3:205; 207A5:50; 209A5:89; 10:94; 210A3:171
 physical properties, 144A8:309; 10:376; 155B29:477-493
 physico-chemical forces, 113B18:225-226
 Pigafetta Basin, 129B6:158-159
 pillow basalts, 187A5:3
 Pleistocene, 180A1:10
 pore water, 160A7:187
 porosity, 111B12:139-140; 155B29:491-492; 190/196B11:6
 provenance, 168B5:59-61; 180B6:1-53
 Prydz Bay, 119B19:385
 reflectance, 155A23:697-700
 recovery, 129B34:635
 resistivity, 111B9:103-104; 12:139; 124B6:83-84
 secondary minerals, 163X_A4:13
 sediment drifts, 172A11:7-8
 sedimentation, 141B31:380-388; 166A9:266-267
 sediments, 146A(1)5:151-153; 156A7:206-213, 216-217; 159B43:590; 172B5:4; 174AXS_A5:72-76; 6:86-90; 177A1:20-22; 177B13:1-10; 183B7:25;

- 185A1:25; 187A5:6; 189A5:68–69; 194A5:18–19;
 200A1:14
- Serocki Volcano, 106/109A4:64–71
- siltstone, 173A9:270
- Site 699, 114A6:158, 160; 114B37:687–688
- Site 700, 114A7:261, 300
- Site 701, 114A8:373, 405, 407–408
- Site 702, 114A9:490–491
- Site 703, 114A10:556, 585
- Site 704, 114A11:631–632, 636
- Site 747, 120A6:139
- Site 748, 120A7:173; 120B(1)8:102–103, 111
- Site 750, 120A9:320–321; 120B(1)1:27; 8:105–106
- Site 765, 123A4:79, 84, 157; 123B4:89
- Site 766, 123A5:280
- Site 779, 125B36:604
- Site 800, 129A2:33
- Site 802, 129B4:123
- Sites 543 and 27 comparison, 110B5:55
- size, 113A12:712
- smectite, 101B11:173–177
- sources, 191A4:16
- stable isotopes, 116B5:51–53
- Sulu Sea, 124A11:201, 215, 220–221, 269; 12:315
- swelling, 181A8:84
- temperature gradient, 111B8:92
- textures, 113B6:73–75; 161B7:89–90
- thermal diagenesis, 159B6:57–65
- thermal maturation, 159B11:105
- thickness, 103A9:231–232; 105A5:424; 106/
 109B14:183
- Tiburon Rise N, 110A5:219, 225; 110B5:49
- Tithonian, 103B4:40–41; 173A8:256–258
- Upper Cretaceous–Paleogene interval, 185A4:18
- Upper Jurassic, 129B32:606
- uranium content, 117A11:360
- Valanginian–Barremian interval, 103A9:276
- veins, 168A4:74–75
- visible and near-infrared spectroscopy, 199B11:18;
 206A3:49
- volcanics, 104B3:53; 136B4:55–59
- volcaniclastics, 136B7:87–88; 152B9:122
- volume ratio, 167B25:296
- vs. biogenic silica, 177B13:6
- vs. calcite, 161B2:32, 34
- vs. depth, 110A4:78, 126; 113A6:190–191; 8:335–336;
 9:460; 11:614, 616; 12:711; 113B6:74–76, 84;
 133A(1)15:626, 636; 138A(1)11:275; 12:344;
 (2)13:687; 14:753; 15:822; 16:907, 953; 17:975;
 18:1032; 19:1071; 146B(1)1:10–16; 152B4:42;
 154A4:72; 156A6:102–114; 156B27:341;
 160A5:96; 7:164; 8:228; 9:297; 10:342; 11:385;
 161B1:14; 2:22–24; 7:90–92; 162A10:360;
 164A5:74, 78, 80; 6:112; 7:182; 8:255; 9:286;
 164B23:233; 35:375; 168B6:69, 73–84;
 171A_B3:21; 178A4:49; 8:30; 178B(synthe-
 sis):38; 8:23–24, 26; 25:19–25; 182B7:7–12;
 8:11–16; 9:12; 183A4:62; 5:128–129; 6:140;
 7:139; 8:70; 9:98–99; 184A9:51; 184B9:21;
 186A4:83; 188A5:54; 189A3:67; 6:75–78; 7:61,
 65; 190/196B8:15–17; 193A3:171; 4:117;
- 197A4:38, 41; 204A3:45–47; 4:36–40, 42; 5:22;
 6:29–30; 7:26; 8:37; 9:32–33, 35; 10:40–43;
 11:23–24, 26; 204B10:11–18; 11:13–15;
 205A4:79; 5:53; 6:28; 206A3:123; 208A3:30;
 4:37; 5:31; 6:43; 7:35; 8:36
- vs. feldspar, 168A4:60
- vs. phyllosilicates, 161B4:63, 65
- vs. porosity, 105B39:770
- vs. siliceous microfossil percentage, 114B33:616–621
- weathering, 113B5:53–54; 152B9:117
- well-logging, 120A10:139; 138A(2)17:1001–1002;
 156B26:321–334; 181A7:46
- X-ray computed tomography, 185B12:12
- X-ray diffraction data, 103B27:468; 106/109A6:170;
 129B5:143; 133A(1)12:477; 141A10:362;
 146A(1)7:321; 159A6:170, 177; 168A5:113;
 178A4:79; 185A4:66, 71, 79, 85; 188A3:17–18,
 105–106; 190/196B4:26–28; 198B16:30–31;
 205A5:102–103
- xenoliths, 193B6:3
- Yaquina Basin, 112A15:445
- See also amorphous silica-clays; boehmite; black clay
 facies; carbonate-clay matrix; chert/clay ratio;
 clasts, clayey; claystone-clay layers; corrensite;
 expansion; illite; kaolinite; mixed-layer miner-
 als; montmorillonite; mud/clay ratio; nodules;
 plagioclase/clay ratio; quartz/clay ratio; radio-
 larite/clay ratio; red clay province; sand/clay ra-
 tio; sand-silt-clay content; silica; silt/clay ratio;
 smectite
- clay, aluminous detrital, provenance, 200A3:33–34
- clay, ash-bearing, lithology, 185A4:11–14; 208A3:6–7;
 8:7–9
- clay, ash-bearing nannofossil, lithology, 208A8:7
- clay, ash-bearing siliceous, lithology, 185A4:11–14
- clay, basal, biostratigraphy, 144A3:64–65
- clay, bentonitic, Argo Abyssal Plain-Exmouth Plateau,
 123B4:89, 91–94
- clay, biocarbonate-bearing, lithology, 151A11:353, 356
- clay, biogenic opal-rich, photomicrograph, 204A3:49
- clay, biogenic silica-bearing, lithology, 185A4:11–14
- clay, biosiliceous
 lithology, 151A11:357–359; 178A5:7–8, 11–12
 photograph, 151A11:358–359
- clay, bioturbated silty
 lithology, 195A4:11–12
 photograph, 195A4:74
- clay, black
 biostratigraphy, 144A6:226–227
 lithology, 144A6:220; 155A10:246, 277; 182A6:5–6
 sediments, 155A9:234
- clay, blue-green, alteration zones, 169A3:81–82
- clay, brown
 Cagayan Ridge, 124A12:339
 Celebes Sea, 124A13:362–369
 core ages, 129B2:33
 cores, 136A5:67–68
 lithology, 103B27:472–473; 129B2:33; 14:269
 photograph, 191A1:40; 197A6:76–77
 vs. depth, 197A3:99–100, 102; 5:73
 Sulu Sea, 124A11:234

- upper Campanian–Tertiary interval, 129B1:9
- clay, calcareous
Barremian, 103A1:13
Cornaglia Terrace, 107A9:610–611
fabric, 155B27:458
lithologic motifs, 173A7:170–172
lithology, 155A6:91–92; 7:127; 8:178; 12:324; 17:506–507; 19:571–572; 21:637; 22:661; 160A6:130; 10:340; 160B34:438; 36:454; 161A5:118–120, 128; 9:393–397; 161B7:85–86; 170A7:221, 223; 171A_A3:27; 5:60; 180A5:7; 6:8; 7:7–10; 9:8, 10–11; 180B6:5; 182A6:7; 183A3:5–6; 187A6:9; 202A8:7–9
magnetic susceptibility, 121A12:394, 424
photograph, 155A6:96; 13:392; 161A7:311; 170A7:221, 226; 180A5:47; 183A3:28
Site 758, 121A12:360
Valanginian–Barremian interval, 129B32:599
well-logging, 173A3:51–61
See also highstands; interglacial deposits
- clay, calcareous nannofossil
lithology, 207A5:7–8
photograph, 207A5:48
- clay, calcareous silty, well-logging, 173A3:51–61
- clay, calcareous surficial, lithology, 155A11:308
- clay, carbonaceous, lithology, 188A4:13–14
- clay, carbonate-rich
color reflectance, 167A(1)13:342
composition, 187A10:5; 11:11–12; 15:10
lightness, 184A7:80; 8:35; 9:93–96
lithology, 167A(1)10:246–247; 12:318–320; 13:357–359; 14:395; 15:437; 16:465, 467–468; 174AXS_A5:27–28; 184A6:5–7; 7:6; 8:4
- clay, clay-bearing nannofossil, lithology, 208A8:5–6
- clay, dark
biostratigraphy, 144A8:298
photograph, 144A8:295
- clay, dark greenish gray, lithology, 144A10:344
- clay, dark reddish brown pelagic, lithology, 129A3:99
- clay, diatom
lithology, 127/128B(2)78:1230–1232; 145A5:128, 130; 183A1:19; 188A3:11–14; 4:9–11
mineralogy, 145B43:657–660
photograph, 145A5:131; 188A3:89; 4:53–54
photomicrograph, 188A3:93
Site 699, 114A6:156, 193
Site 794, 127A4:90
Site 795, 127A5:186
Site 796, 127A6:261–264
Site 797, 127A7:341–343
Site 798, 128A4:124, 137–138
Site 799, 128A5:256, 260
- clay, diatom-bearing silty
lithology, 178A4:4–5, 10–11; 5:5; 9:5–6; 178B25:4; 186A1:12–13; 5:9–10; 202A5:5–8; 204A5:3; 10:4–5
photograph, 178A5:46
- clay, diatom-bearing sponge spicule-bearing silty, lithology, 186A1:12–13; 5:8–11
- clay, diatom-quartz bearing, lithology, 201A9:9–11
- clay, diatom radiolarian, lithology, 138A(1)9:126
- clay, diatom-rich
correlation, 186B8:12
lithology, 175A3:56; 5:117; 9:232; 10:276; 12:345–346; 185A4:11–17; 188A3:13–14; 201A12:7; 204A4:5–7; 7:3–6; 8:6–8
photograph, 175A3:65; 5:119; 186B8:12; 188A3:92
photomicrograph, 188A3:93; 191A4:62; 204A4:49; 10:49
- clay, diatom-rich silty
lithology, 146A(2)2:22, 24; 186A1:9–10, 12; 5:8–10; 201A10:10; 11:10; 204A5:3; 6:4–5; 9:4–5; 11:2–6
photograph, 201A9:35
- clay, diatomaceous
facies intervals, 119B13:252–253
glacial–interglacial cycles, 119B12:226–233
ice-rafting, 119B13:248–249
Kerguelen sediment ridge, 119A14:510, 513, 541; 119B13:249,
lithology, 138A(1)9:124–126
Oman margin N, 117A11:361
origin, 119A14:514
- clay, expandable, vs. depth, 173B1:7
- clay, feldspar-rich, lithology, 201A10:9–10
- clay, ferruginous
Kerguelen Plateau central, 120A5:82
lithology, 144A5:159
- clay, ferruginous calcareous, deposition, 192A3:12
- clay, ferruginous zeolitic, photomicrograph, 191A4:62, 68
- clay, foraminiferal
lithofacies, 155B40:642; 164A9:281–283
lithology, 151A11:353, 356; 155A17:506–507; 19:573; 167A(1)8:181, 183; 174A_A5:160; 174AXS_A3:34
photograph, 155A19:573; 204A10:48
- clay, foraminiferal diatom, lithology, 138A(2)19:1065–1066; 183A6:4
- clay, foraminiferal glauconitic, lithology, 174AXS_A1:22, 30–32
- clay, foraminiferal nannofossil
lithology, 155A6:116; 7:165; 8:196; 9:204; 10:245; 11:277; 13:386–387, 403; 14:412; 15:442; 16:466; 17:526; 18:541, 545, 564; 19:571–572, 587; 20:594; 155B36:569; 175A9:231–232; 10:276; 180A8:4; 183A6:5
photomicrograph, 204A10:48
- clay, foraminiferal nannofossil surficial, lithology, 155A10:265; 12:362; 14:433; 16:487; 20:622
- clay, foraminiferal silty, lithology, 204A11:5–7
- clay, fossiliferous glauconitic sandy, lithology, 174AX_A1:22, 24–26
- clay, glass-bearing diatom-bearing silty, lithology, 186A5:8–9
- clay, glass-bearing silty, lithology, 186A1:12–13
- clay, glauconitic
lithology, 167A(1)16:467–468; 174AXS_A1:25; 2:28; 3:33–34; 6:23–24, 32–34; 175A4:89
paleoenvironment, 174AX_A1:21–22, 26–30, 32
photograph, 204A10:49
- clay, glauconitic carbonate-rich, lithology, 174AXS_A5:32–33

- clay, glauconitic laminated, lithology, 174AXS_A5:28–29
- clay, glauconitic sandy
lithology, 174AXS_A6:22–23, 25–26
photograph, 174AXS_A2:56
- clay, glauconitic silty, lithology, 174A_A4:14; 5:26–27, 31–32; 174AXS_A1:24–25
- clay, goethitic, photograph, 159A8:264
- clay, granule-bearing, basement units, 183A9:18, 21
- clay, gray, lithology, 144A6:220
- clay, gray layers
Cretaceous/Tertiary boundary, 119B47:850, 862, 864
dark–light cycles, 127/128B(1)32:570–571; 33:579, 581–587; 146B(2)8:108
iridium content, 119B47:854
lithofacies, 146B(2)27:348–349
lithology, 146B(2)11:147
magnetic properties, 119B47:852
mineralogy, 119B47:854
mud, 146B(2)22:296–299
organic carbon content, 127/128B(1)33:589
organic matter, 146B(2)9:131
power spectra, 127/128B(1)32:574
scanning electron microscope data, 119B47:857
sedimentation rates, 119B47:852–853
Site 797, 127/128B(1)33:592
stable isotopes, 119B47:859
thickness vs. depth, 146B(2)11:154, 157, 159–161; 12:177–179
time-series analyses, 127/128B(1)32:571; 36:644
vs. age, 146B(2)11:167, 192
vs. depth, 146B(2)22:302
Yamato Rise, 128A5:249
- clay, grayish brown, lithology, 174AX_A1:22, 24
- clay, green
alteration, 102B10:139–140, 143–144; 124B13:188, 190–192; 185A3:21
autocorrelogram, 184B15:17
Barbados Ridge, 110B5:49, 54–56
basalts, 192A5:12–13
bulk density, 184B15:18–19
Cagayan Ridge, 124A12:309
Celebes Sea, 124A13:362–369
clay mineralogy, 184B15:4
depths and ages, 184B15:18
diagenetic origin, 184B15:5–8
geochemistry, 184B15:4–5, 22
grain size, 184B15:4
lithology, 184A6:5; 7:6; 8:3–4; 9:9–11
microfossil remains, 119B47:866–867
paleoenvironment, 184A1:30–31; 184B15:1–23
photograph, 152A9:132; 184A4:46
photomicrograph, 192A3:87–90, 95–97; 197A1:71; 6:41–42
spatial and temporal distribution, 184B15:5, 15
Sulu Sea, 124A11:260–262
vs. depth, 184A4:45; 7:45; 8:15; 9:52; 197A3:100–101; 5:73
- clay, green bioturbated, photograph, 182A6:51
- clay, green-blue, vs. depth, 197A3:101
- clay, green silty, lithology, 165B4:87
- clay, greenish, organic geochemistry, 162B15:209–216
- clay, greenish gray, lithology, 165A4:145
- clay, gypsiferous, lithology, 197A4:9
- clay, hematite, lithology, 114A5:112; 208A8:5–6
- clay, hemipelagic
environment, 204A9:8; 10:10–11
lithology, 169A6:263; 204A6:3–4; 7:5–6
sedimentation rates, 175B9:1–23
stable isotopes, 167B7:129–140
synrift sedimentation, 210B1:25
- clay, hemipelagic diatomaceous, lithology, 186A4:18–17; 5:8–11
- clay, hemipelagic sponge spicule-bearing diatomaceous silty, lithology, 186A5:9–11
- clay, hydrothermal, geochemistry, 158B17:215, 217–220
- clay, incipient scaly and foliated, photograph, 190A1:76; 9:46
- clay, indurated
lithology, 165A4:143–145; 204A10:7–8
photograph, 165A4:144
- clay, interfluvial mottled, lithology, 174AXS_A4:17
- clay, iridium-rich
calcite-free data, 119B39:728–729
formation, 119B39:727
vs. clay-rich lamination elemental ratios, 119B39:727–728
- clay, iron-manganese oxide/sulfide, photomicrograph, 199A13:36
- clay, iron oxide, lithology, 199A15:5
- clay, kaolinitic
Kerguelen Plateau central, 120A6:82
lithology, 174AXS_A1:17–8
- clay, laminated
lithofacies, 150B11:206–207
lithology, 151A11:357–359; 174AXS_A5:21, 35–36
photograph, 150B11:212; 207A7:45
postglacial sediments, 178B18:5
- clay, laminated shelly foraminiferal-rich, lithology, 174AXS_A6:22–23
- clay, laminated silty, lithology, 178A4:7; 5:7, 11–12
- clay, lignitic
lithology, 174AXS_A1:25, 28–29; 4:15; 5:42; 7:19
paleoenvironment, 174AX_A1:18, 32
- clay, magnesian, Argo Abyssal Plain-Exmouth Plateau, 123B8:177–178
- clay, marbled, photograph, 141A10:389
- clay, marine, Pigafetta Basin, 129B2:56
- clay, massive, sedimentology, 200A4:25
- clay, massive dark brown
lithology, 200A3:9
photograph, 200A3:59–60
- clay, micaceous, lithology, 174AX_A1:18, 20, 32; 174AXS_A2:29–31; 4:23
- clay, micaceous fossiliferous silty, lithology, 174AX_A1:30–31
- clay, micaceous glauconitic, lithology, 174AXS_A1:23–24
- clay, micaceous interbedded glauconitic silty, lithology, 174AXS_A6:26
- clay, micaceous organic-rich, lithology, 174AXS_A6:20–22
- clay, micaceous silty, lithology, 174A_A5:157–159; 174AXS_A2:22–23; 5:36–37, 39–42

- clay, micritic
 lithology, 161A5:120–121, 125, 130–131
 photograph, 187A14:24
- clay, middle neritic, photograph, 174AXS_A6:75
- clay, middle neritic glauconitic, photograph,
 174AXS_A6:76
- clay, middle neritic silty, photograph, 174AXS_A6:76
- clay, middle–outer neritic, photograph, 174AXS_A6:75,
 80
- clay, mottled
 lithology, 144A3:52–53
 photograph, 144B19:397
- clay, nannofossil
 Atlantic Ocean E tropical, 108A2:35
 carbonate content, 115A9:662
 deposition, 167A(1)9:226
 geochemistry, 184B12:1–25
 lithology, 149A4:47–58; 5:118–124; 6:152–155;
 7:218–220; 8:264; 154A4:60; 5:156; 7:283–284;
 8:341; 155A7:163; 9:230; 13:386–387; 15:455;
 157A4:67–68; 5:108; 7:329–332; 9:445; 10:511–
 514; 160A4:59, 75–76, 78; 5:92–93; 6:129–130;
 8:220–222; 9:294–295; 10:339–340; 11:381;
 12:421–423; 13:452–454; 160B34:438;
 161A4:59–64; 5:118–120, 128; 6:189–193;
 7:304–305; 8:357–358, 361; 9:393–397;
 162A4:101, 105–108; 6:181, 184; 8:261;
 164A5:69–72, 74–75, 78–79, 94–96; 6:105–109;
 7:179–181; 8:245–246; 9:281–284; 165A6:298–
 300; 167A(1)6:132–135; 8:181, 183; 9:227;
 11:289–291; 12:320; 14:393, 395; 15:437–438;
 16:465, 467–468; 171A_A3:27; 5:60, 62;
 171B_A3:54–55, 59; 172A3:38; 4:84–88; 5:164–
 165, 168, 170–174; 175A10:281; 12:344–346,
 351; 180A7:7–10; 183A1:20; 7:5–6, 14; 184A7:5–
 9; 9:8–11; 198A7:8–10; 199A8:5–6; 201A12:8;
 202A4:6–8; 13:6–7; 204A4:4–7; 6:6–7; 7:4–6;
 8:6–8; 9:7; 11:3–5; 207A4:5; 7:4; 8:4–6;
 208A3:6–7; 8:5–9
- mineralogy, 184B14:1–10
- photograph, 157A4:69; 160A8:237; 10:344; 12:426;
 13:455–457; 14:471–472, 474; 161A4:68; 5:121–
 122, 126; 6:191–192; 7:311; 8:362, 364;
 161B7:86–87; 164A6:107–109; 167A(1)9:227;
 171B_A3:58; 180A7:29; 172A4:90; 184A9:54;
 198A4:41; 207A8:43
- reflectance, 175A10:571
- shear wave velocity, 115A9:680
- Site 711, 115A8:662
- clay, nannofossil diatomaceous
 lithology, 174A_A5:161–162; 175A3:56; 12:346;
 202A8:7–9
- photograph, 175A3:65
- clay, nannofossil siliceous
 Site 699, 114A6:157
- Site 701, 114A8:373
- clay, nannofossil silty, lithology, 165A7:363–368;
 174A_A5:160; 180A9:6, 8, 10–11; 180B6:5;
 181A8:5–6; 202A4:6–8; 5:5–8; 204A5:3; 11:3–5;
 206A3:23
- clay, organic-rich
 lithology, 174AXS_A7:19
 reflectance, 175A10:571
- clay, outer neritic, photograph, 174AXS_A6:75
- clay, oxide-rich, lithology, 138A(2)17:971–972, 974;
 19:1065–1066
- clay, palagonite, photograph, 197A4:43
- clay, pale olive, photograph, 207A4:40
- clay, palygorskite, lower Eocene, 159B15:141–156
- clay, peaty, paleoenvironment, 174AX_A1:18
- clay, pebbly sandy, photograph, 174A_A5:161
- clay, pelagic
 Bathonian, 129B32:582
- Bengal Fan, 116A4:49; 5:94; 6:158; 116B31:379, 386–
 387
- Cenomanian–Campanian interval, 129B31:562
- composition, 145B28:430–432
- core ages, 129B2:37
- geochemistry, 129B15:287–288
- lithology, 129B2:37; 185A3:6; 4:12–14; 191A4:13
- lower Miocene–middle Pliocene interval, 129B31:561
- Miocene, 129B31:563
- overconsolidation, 145B38:593
- Pacific Ocean N, 145A1:5–7
- permeability, 185B11:6; 191B5:1–16
- photograph, 191A4:72
- physical properties, 129B29:510
- Pigafetta Basin, 129B2:32
- rebound, 199B12:5–6
- Site 800, 129B2:32
- Site 802, 129B4:123, 130
- Tertiary, 129B31:563
- clay, pelagic brown
 core ages, 129B2:35
- Cretaceous–Cenozoic interval, 129A2:47–48
- deposition, 185A3:9
- lithology, 129A2:38; 3:99; 129B2:34; 14:268
- Site 802, 129A4:176, 194
- clay, pelagic calcareous, Bengal Fan, 116A4:49; 5:94;
 6:159; 116B31:387–388
- clay, pelagic red
 Cenozoic, 129B1:17
- mineral composition, 129B1:17
- clay, porcellanitic, lithology, 174AXS_A2:31–33
- clay, porcellanitic foraminiferal, lithology,
 174AXS_A2:31–33
- clay, prodelta, photograph, 174AXS_A6:78
- clay, prodelta laminated, photograph, 174AXS_A6:78
- clay, pyritic, lithology, 159A8:261–264
- clay, quartz-rich, lithology, 201A10:9–10
- clay, quartzose glauconitic, lithology, 174AXS_A2:29–31
- clay, radiolarian
 lithology, 199A11:7; 12:8–11; 15:5
- photograph, 138A(2)16:913
- clay, radiolarian diatom, lithology, 138A(1)10:192–193,
 195–198
- clay, red
 biostratigraphy, 124A11:224
- Celebes Sea, 124A10:152, 181–183; 124B3:40, 47
- composite depth scale, 145B13:205–217
- Cretaceous–Quaternary interval, 129B1:6

- ichthyoliths, 136B2:27-43; 145B14:220-221
- lithology, 144A6:220; 157A4:67; 199A1:28, 30; 8:2; 9:3
- Palawan Island, 124B9:121
- photograph, 157A4:68-69
- sedimentation, 154A8:391
- sources, 124B1:4
- Sulu Sea, 124A11:260-262, 280
- uppermost Cenozoic, 129B1:15
- clay, sandy
 - lithology, 150X_A2:14-18; 155A12:328-330; 174A_A4:104-113; 5:157-159; 174AXS_A1:15, 27; 181A1:19-20; 5:4-5; 188A5:8
 - photograph, 188A5:43
- clay, sandy silty
 - lithology, 174AXS_A2:19-23; 3:23; 5:28-29, 34-42; 6:24-25; 178A4:7; 206A3:23-24
 - paleoenvironment, 174AX_A1:18
- clay, saponitic, photograph, 168A5:117
- clay, saprolitic, consolidation, 144B56:985-990
- clay, scaly, core-scale structures, 131B29:370-371
- clay, serpentine
 - Site 778, 125A9:101
 - Site 779, 125A7:117-119; 125B19:348
 - Site 780, 125B19:349
- clay, sheared
 - permeability, 156B9:132-134
 - scaly fabric, 156B4:59-77
 - structural domains, 149A4:86
- clay, shelly, lithology, 174AXS_A1:27-29
- clay, shelly glauconitic silty, lithology, 174AX_A1:20-21, 23
- clay, shelly silty, lithology, 174AXS_A2:31-33
- clay, siliceous
 - composition, 187A8:10-11; 12:10; 13:13
 - consolidation, 138B16:362-363
 - lithology, 187A6:8-9; 202A8:7-9
 - Northeast Georgia Rise, 114B2:39
- clays, siliceous silty, lithology, 127/128B(2)78:1232
- clay, silty
 - Argo Abyssal Plain-Exmouth Plateau, 123A4:79
 - Atlantic Ocean E tropical, 108A2:35; 5:330-331; 6:412-413
 - clay mineralogy, 204B11:1-19
 - composition, 187A11:11-12
 - cores, 167B25:278-280
 - cycles, 127/128B(1)32:568; 146B(2)8:107-108
 - deformation, 125A12:285; 150B11:195-199
 - depositional environment, 119A12:463; 119B42:749
 - Formation MicroScanner imagery, 155B2:14-20
 - grain size, 141A6:86
 - hydraulic conductivity, 146B(1)17:287-289
 - lithofacies, 150B11:205-209; 155B2:11; 40:641; 161B4:63; 169A3:54-56
 - lithology, 127/128B(2)78:1229-1232; 139A6:173; 7:297-298; 8:446-447; 141A6:81-84; 7:164-165; 8:246; 9:306-309; 10:349-350, 352-353; 145A8:340; 146A(1)5:136-137, 140-141, 144; 149A4:47-58; 150A6:69-75; 7:135-146; 8:210-216; 9:260-272; 10:312-317; 150X_A2:13-24; 151A5:60-69; 6:118-122; 7:166-171; 8:227-230; 9:275-277; 10:322-326; 152A12:261-264; 155A7:127-128; 8:178-180; 9:204-207; 10:246-248; 11:277-281; 12:330-335; 13:387-388, 391; 14:412-415; 15:443-444, 466-467; 16:470; 17:507-512; 18:541-545; 19:574-576; 20:595, 599-603; 21:637-638, 641, 643, 645; 22:661-663; 159A8:261-264; 160A9:294-296; 12:423-424, 427-428; 160B34:438; 161A4:59-64; 5:125-126, 128, 131; 6:188-189; 7:304-305; 8:357-358, 361; 9:393-397; 161B7:84-86; 162A4:101, 105-108; 5:146, 149, 152; 6:181, 184; 7:227, 231; 8:261, 265-266; 9:296, 298; 10:350, 353, 355-356; 164A5:73-75; 8:245-246; 165A7:363-368; 166A9:239; 167A(1)4:55-56; 5:87, 89, 92; 6:132-135; 7:161; 9:225-227; 11:288-291; 13:357-359; 168A4:57; 6:167-169; 169A3:52; 4:163-167; 169S_A2:21-22, 24; 170A3:53, 55-56; 4:103-104; 5:158-159, 161-162; 7:219-221; 172A3:38; 4:83-92; 6:258-259; 174A_A3:43-50, 54-56; 4:104-113; 5:157-161; 174AXS_A1:17-20, 23; 2:17-23, 29-31; 3:18-20; 4:12-25; 5:18-19, 21-23; 6:36-42; 7:20; 175A6:150, 152; 7:179; 8:205; 178A4:4-13; 5:6-7, 11-12; 6:4-5; 7:5-6; 8:3-9; 178B25:4-6; 180A6:8, 11-12, 14, 16; 7:7-10; 180B6:5, 10; 181A1:11-14, 19-20; 3:5-8; 5:4-5; 6:6-8; 7:10; 8:5-6; 9:4-6; 182A6:8; 185A4:11-14; 186A4:15-17; 188A4:9-11; 190A4:6-7; 5:7-8; 6:4-6; 7:5; 9:6-9; 195A3:13-14; 197A4:8-9; 202A3:6-9; 6:6-9; 204A3:4-8; 4:4-11; 5:3-5; 6:3-8; 7:3-6; 8:6-8; 9:4-7; 10:4-9; 11:2-7
 - magnetic polarity, 178B31:8-9
 - magnetic properties, 117A18:569; 117B9:172
 - mineral composition, 155A14:415-417
 - oxic to anoxic environment, 165A7:361
 - paleoenvironment, 174AXS_A4:10-12
 - permeability, 185B11:6
 - petrography, 185B7:4-5
 - photograph, 141A6:87; 9:312; 10:355; 150A6:76; 7:146-147; 8:215-216; 10:317; 150B11:212, 214; 150X_A2:20-21; 151A5:64-65; 6:119; 8:230; 9:274-275; 10:327; 11:358-359; 155A6:101; 7:136; 9:209-211; 10:250, 253; 11:279; 12:331; 13:391-392; 14:416; 17:511-516; 22:666-667, 669; 160A9:300; 10:345-346; 12:424, 430; 14:474-475; 160B27:341; 161A4:70-71; 5:121-122, 126-127; 6:198, 200; 8:368; 162A10:360; 164A6:108; 169A3:57, 60, 65-66; 5:211; 170A7:221, 224-226; 174A_A3:55, 58; 5:158-159; 174AXS_A6:74; 178A4:52; 5:52, 55; 6:39-40; 8:31; 180A6:92, 100; 181A3:40-42, 44; 5:30; 183A6:77; 190A1:56; 4:42-44; 7:24; 195A5:22; 204A3:50; 11:29
 - photomicrograph, 155A11:280
 - sedimentation rates, 119B42:749
 - sediments, 187A5:6
 - Site 725, 117A13:422
 - Site 726, 117A14:442
 - Site 743, 119A12:462
 - Site 784, 125A12:275-276

- Site 794, 127A4:90; 128A3:77
- Site 795, 127A5:186
- Site 796, 127A6:261–264
- Site 797, 127A7:340–341
- Site 798, 128A4:124, 137–138
- Site 799, 128A5:256
- textures, 161B7:89–90; 174A_B3:4, 9
- vs. depth, 146B(1)20:320–321; 178A4:51
- well-logging, 173A3:51–61
- clay, silty ashy radiolarian, lithology, 136A4:39
- clay, silty micaceous, lithology, 174AXS_A3:24–25
- clay, smectitic
 - lithology, 165A6:305
 - photograph, 165A6:307; 171B_A5:179
- clay, smectitic/chloritic, Pigafetta Basin, 129B6:155
- clay, surficial, Paleogene, 199A1:9–10
- clay, terrigenous
 - Argo Abyssal Plain-Exmouth Plateau, 123B2:64
 - flux, 145B34:502–503
 - geochemistry, 206B3:1–26
 - Kerguelen sediment ridge, 119B12:230, 245–246
 - lithology, 155A7:127–128; 10:245–246; 11:277; 16:466–467, 470; 17:507; 18:541–542; 19:595; 21:637; 194A5:4
 - mineralogy, 119B12:237, 259–260
 - Neogene, 145B16:247–256
 - Ninetyeast Ridge, 121A15:534
 - occurrence, 102B1:9
 - sediments, 177A1:21
 - Site 701, 114A8:371
 - Site 738, 119B10:196, 208–209
 - Site 744, 119B6:197, 209–210
 - terrigenous abundance vs. depth, 141A7:169
- clay, terrigenous-volcanic ash, vs. depth, 185A4:124
- clay, variegated, lithology, 144A3:53
- clay, vermicular, photograph, 148A3:165
- clay, vitric
 - platinum-palladium content, 125B29:510–511
 - Site 781, 125A9:180, 182
- clay, volcanic
 - basement units, 183A6:24–25, 36–37
 - drilling biscuits, 121A12:373–374
 - lithology, 134A12:401
 - photograph, 183A6:96
- clay, volcanic ash
 - Site 699, 114B33:613
 - Site 701, 114B33:614
- clay, volcanic glass, Site 711, 115A9:662
- clay, volcanic glass-rich, lithology, 201A12:8
- clay, volcanic glass-rich silty, lithology, 204A9:4
- clay, volcanoclastic, 129B4:124
- clay, yellow, alteration, 168A6:173
- clay, yellowish brown, photograph, 200A3:56, 118
- clay, zeolitic
 - Argo Abyssal Plain-Exmouth Plateau, 123A5:297–298; 123B1:32–33; 29:551
 - cores, 136A5:67–68
 - lithology, 185A4:14–15; 191A4:12–13; 199A10:6–7; 12:11; 14:7–8
 - Paleocene/Eocene boundary, 199A14:8
 - photograph, 185A4:74–75
- clay, zeolitic pelagic brown, lithology, 129B14:268
- clay, zeolitic silty
 - lithology, 183A4:5–6, 12–13
 - photograph, 183A4:41
- clay/basalt contact, photomicrograph, 187A8:35
- clay beds
 - composite digital images, 208A3:41
 - magnetic susceptibility logs, 188A5:33–34
 - resistivity logs, 188A5:33–34
- clay/calcite ratio
 - sediments, 161B1:11
 - vs. depth, 161B1:14
- clay/chert ratio, interbedded pelagic, lithology, 199A9:5–6
- clay clasts. *See* clasts, clay
- clay–claystone transition, silty, Owen Ridge, 117A19:589–591
- clay conglomerate. *See* conglomerate, clay
- clay content
 - fluid pressure, 156B17:236–237
 - vs. depth, 159B22:231
- clay drapes, lithology, 174AXS_A7:14
- clay fabric. *See* fabric, clay
- clay-indicator ratio logs, vs. depth, 166A6:103
- clay microfabric. *See* microfabric, clay
- clay mineral zones
 - composition, 155B9:189–191
 - lithology, 150B23:418, 419
 - sedimentation, 150B9:148–157, 159–163
 - sediments, 150X_B4:50, 53
- clay mineralogy
 - abundance, 117B8:188–191; 155B9:187–189
 - alteration, 124B36:493; 127/128B(2)55:885–888; 58:908–909, 918; 135A(1)11:596–597, 644–645; 136A5:79–80; 136B11:134–135; 139A7:498, 500–510; 139B8:118; 12:298–302; 144B28:478–480, 484–487; 193B5:1–10
 - aluminosilicate detritus factor, 117B23:412–414
 - aluminum/magnesium ratio, 105B7:94
 - aluminum/titanium ratio, 105B7:95
 - ammonium logs, 127A6:279
 - antithetic relationships, 107B20:324
 - assemblages, 116B4:37, 40; 123A4:99–101
 - Atlantic Ocean E tropical, 108B18:314, 320–321; 19:337–338, 342
 - Atlantis II Fracture Zone, 118B7:146–147
 - authigenesis, 105B12:181
 - backscattered electronic images, 161B8:104
 - Baffin Bay, 105B3:41, 44; 7:91
 - basement/sediment contact, 161A6:216–217
 - bathymetry and abundance patterns, 117B8:193
 - Bengal Fan, 116B4:35–40, 40; 5:44–51
 - bentonites, 123B4:99, 110
 - between-mineral correlations, 107B20:324–325
 - biogenic sediments, 117B11:228
 - blue tuff, 127/128B(1)8:119
 - Broken Ridge, 121B27:521–522
 - burial transformations, 117B11:236
 - Cagayan Ridge, 124A12:309–311
 - carbonates, 144B26:459–468

- Celebes Sea, 124A10:174–175; 124B1:4, 7; 3:40, 42, 47; 4:58–59
- Cenozoic, 133B30:461–470; 150X_B3:49–57
- chemical composition, 127/128B(2):55:885–887
- chemical weathering, 117B9:203; 119B48:874, 884
- clay/quartz ratio, 105B7:90
- clay-size fraction, 190/196B6:7–8
- climate effects, 105B6:76; 107B11:159; 112B5:75; 117B8:186; 9:205–208; 119B10:198–200
- climate indexes, 117B9:210
- compaction structures, 127/128B(1):2:39
- Cornaglia Terrace, 107B11:153, 155; 20:323–327
- correlation, 119B6:114
- Cretaceous/Tertiary boundary, 113B53:944; 119B47:854
- crystallization, 105B6:76, 79; 7:84; 128A5:320–321
- cyclicality, 105B7:98; 117B8:188; 9:202, 204, 208; 127/128B(1):32:569; 33:588; 130B27:459
- deep water, 177B(synthesis):15–16
- detrital components, 119B10:199; 123B2:64–56
- deuterium/hydrogen ratio, 127/128B(1):36:642
- diagenesis, 101B11:171–177; 105B8:106; 107B11:160–163; 15:242; 123B2:66–70; 41:785–786; 124B13:193; 31:423–427; 127/128B(1):2:39; 150X_B3:33–34
- discrete samples, 162B18:254–255
- distribution, 105B10:145
- drift sediments, 178B8:1–29
- Dronning Maud Land margin, 113B5:57
- dust, 130B28:474–477, 480–485, 489–490
- electron microprobe data, 129B2:50
- Eocene, 113B53:949; 119B10:199, 201; 48:882
- Eocene–Oligocene interval, 119B10:199, 201; 48:882
- eoian sediment temporal variation, 117B9:201–207
- error analysis, 131B2:23
- event stratigraphy, 107B14:220
- expandable minerals, 112B5:62, 64, 75–76; 30:498
- fabric, 127/128B(1):2:35–36, 38
- factor analysis, 117B9:202–203, 208
- fault zones, 135B20:315
- gabbros, 118A3:53
- gamma ray logs, 127A7:393
- geochemistry, 123B2:59, 63–64, 67
- geodynamics, 107B11:163–164
- Gortani Ridge, 107B11:153, 155
- green clay, 184B15:4
- Himalayan source, 117B9:198
- ice sheets, 120B(2):56:1010
- Indus Fan, 117B11:229
- intermediate oxygen-minimum zone, 117B8:192
- Islas Orcadas Rise, 114B35:665
- Jane Basin, 113A12:710–712, 715; 113B5:62–63
- Japan Sea sediments, 127/128B(2):78:1235–1244
- Kerguelen Plateau, 119B6:114
- Kerguelen sediment ridge, 119B13:242, 244
- Labrador Sea, 105B6:76; 8:102; 38:770; 43:815–816
- lag effects, 117B9:204
- Leg 114 sites, 114B35:662
- Lima Basin S, 112B5:72, 74–75, 84
- lithofacies, 105B7:91–92; 119B12:228–229
- lithology, 105B6:72–73; 107B11:155; 117B8:183, 191–192; 9:198; 133A(1):15:644–645; 134B5:74–84; 143B12:177, 179–180; 150A8:218; 150X_B2:16, 18–23; 171A_A4:45; 177A4:7; 189A3:15–17; 5:16–19, 71; 6:12–19; 7:19–21; 190/196B6:3–4
- long-term variations, 178B8:13–14
- low-chloride pore fluids, 127/128B(1):34:608–610
- low-temperature alteration, 123B9:191–193
- lower oxygen minimum zone, 117B8:191–192
- Maastrichtian climate, 113B53:941
- magnetic properties, 119B43:758
- major element molar ratios, 127/128B(1):34:611
- Marsili Basin, 107B17:257; 19:316
- Meteor Rise, 114B35:665
- Mid-Atlantic Ridge SW, 114B35:665
- Mid-Pacific Mountains, 143B12:173–196
- Milankovitch cycles, 182B14:9
- Miocene, 107B11:157–158, 162; 15:233–235, 237–239; 113B53:955; 117B8:193; 150X_B24:321–322, 326, 328
- Miocene–Holocene patterns, 181B1:26–27
- Miocene–Pliocene interval, 123B1:34
- mixed-layer minerals, 107B11:160; 121B27:521
- monsoonal effects, 117B9:202
- morphology, 107B11:160
- mud-filled veins, 112B1:5, 8, 16
- mudstone, 107B19:313
- multiple source areas, 119B10:199
- noncalcareous clay layers, 123B1:20
- noncarbonated fraction, 105B10:144–145, 154
- non-Milankovitch frequencies, 117B9:205
- Northeast Georgia Rise, 114B34:651–652; 35:665
- Oligocene, 105B8:104; 113B53:953; 119B10:199
- Oman margin, 117B8:193
- origin, 105B8:104; 115A9:675; 123A4:150–152; 123B1:64–70
- Owen Ridge, 117B8:186–187, 193
- oxygen isotopes, 124B36:503
- Pacific Ocean W, 124B31:411–412, 416–418, 428
- paleoclimatology, 184B22:1–10; 189A1:34–35; 6:23–25
- paleoenvironment, 107B20:327–329; 189A5:17–19; 6:23–25; 7:19–21
- Paleogene interval, 113B53:951
- Peru margin, 112B5:59–77
- petrography, 129B17:307; 134A9:199; 10:276; 143A6:141
- photograph, 144B26:468
- Pigafetta Basin, 129B2:39
- Pisco Basin W, 112B5:71, 74–75, 83–84
- Pleistocene sediments, 117B8:192–193
- Pliocene compositional shift, 119B6:114
- Pliocene–Pleistocene interval, 117B8:192
- pollen and foraminiferal records, 107B20:329
- pore water, 150X_B24:338–339
- porosity, 113B19:244
- principal component analysis, 117A8:187
- productivity in arid assemblages, 117B9:205
- provenance, 105B3:45; 7:94–99; 107B20:325–329
- Prydz Bay, 119B6:84, 86–87
- pyroclastic sequences, 124B13:183

- quantitative distribution, 105B8:107
 rare earths, 127/128B(1)39:691
 reflectance, 184B22:9
 review, 189B1:4
 sand, 168B5:55–56
 sandstone cement, 127/128B(1)9:134–135
 Sardinian margin, 107B1:2; 11:153–162; 12:176–178,
 182–183; 15:237
 scanning electron microscopy, 127/128B(1)1:30
 sea level changes, 117B8:187
 sedimentary layers, 107B17:268, 271
 sedimentation, 150B9:147–170
 sediments, 131B4:47; 20:248; 131B26:317–318;
 28:343–364; 136B5:66, 68–69; 139A5:129;
 139B8:115–116; 141A7:172; 141B7:99, 102;
 146A(1)5:154; 6:253; (2)7:89–101; 150B20:363–
 364; 150X_B5:59–64; 161B2:24, 27–31;
 162A8:276; 162B17:237; 167B25:282–284;
 169B6:22; 178B(synthesis):13; 13:1–10;
 182B14:3; 184B19:5; 189A6:22–25; 189B11:27–
 34; 204B7:1–15; 11:1–19; 205A5:19
 seismic velocity, 139A2:23, 27, 31
 short-term variability, 117B9:204; 178B8:12–13
 silicon/aluminum ratio, 105B7:94
 Site 652, 107B11:156–157
 Site 680, 112B5:62–63, 65, 75, 78–79
 Site 681, 112B5:63, 66, 75, 79
 Site 682, 112B5:63, 67, 80
 Site 685, 112B5:69, 74, 82
 Site 688, 112B5:63, 73–74, 85–86
 Site 689, 113B5:57, 67
 Site 690, 113B5:58
 Site 692, 113A7:301, 303; 113B6:75
 Site 693, 113A8:342, 344; 113B5:68
 Site 694, 113A9:461–462, 465; 113B5:59
 Site 695, 113A10:537–539
 Site 696, 113A11:620–623; 113B5:61
 Site 722, 117B9:212–213; 11:229
 Site 723, 117B11:229
 Site 728, 117A16:531; 117B11:229
 Site 731, 117B11:229
 Site 738, 119B10:194, 208–209
 Site 747, 120A6:135
 Site 748, 120A7:222; 120B(1)9:118
 Site 765, 123A4:84–85, 88–89, 149; 123B8:178
 Site 794, 127A4:94
 Site 798, 127/128B(1)24:411, 416, 418
 Site 799, 127/128B(1)34:611
 Site 801, 129B2:36
 Site 802, 129B4:124
 Sites 823 and 588 comparison, 133B30:467–470
 smectite, 105B7:92; 112B5:74
 Socotra margin, 117B8:192, 194
 soft vs. firm mud, 107B19:309, 311
 sources, 108B19:338; 116B4:40; 5:54–57; 117B8:187–
 188; 118B7:147; 119B6:113–114; 10:199; 13:247
 spectral gamma ray logs, 150B23:411–422
 stratification, 123A9:193
 stratigraphic correlation, 107B11:161–162
 strike-parallel changes, 168B5:62
 Sulu Sea, 124A11:217–219, 255, 263, 269, 280
 Tasmanian Gateway, 189B11:1–34
 tectonic influence, 107B11:159, 163; 20:329
 tektites, 150B13:247–248, 252
 ternary diagrams, 139B10:182–183
 terrigenous component, 117B11:231; 167B18:229;
 189B11:4–5
 thorium/potassium ratio, 107A8:448, 450
 Tortonian–Messinian event, 107B11:158, 162
 transmission electron microscopy, 150B9:169–170
 transport patterns, 117B9:202
 trough-mouth fans, 188B1:12
 Trujillo Basin, 112B5:69, 74, 82
 turbidites, 108B18:314, 318, 320–321; 19:337–338,
 342; 116B4:40; 5:44–51, 55–56; 33:401–402;
 117B8:185–187, 193–194; 10:218–220;
 131B2:18–19; 168A5:112
 Tyrrhenian Sea, 107B19:316
 uplift effect, 117B8:187–188
 upper oxygen minimum zone, 117B8:192–193
 veins, 136B10:124
 volcanic rocks, 141B28:352–355
 volcanoclastics, 134B9:133–134
 vs. age, 146B(2)7:97; 161B8:102–103; 167B18:232;
 189B11:9
 vs. composite depth, 145B15:235, 241
 vs. depth, 113B6:76, 84; 133B2:29–30, 32; 136B5:68;
 141A6:87; 7:174; 9:314; 145B43:658–660;
 146A(1)4:70; 146B(2)7:93; 150A8:220;
 150B20:365; 161B7:90–92; 162B17:235–236;
 171A_A5:59; 181B1:100; 182B14:8; 189A3:77;
 6:88; 7:6
 vs. electrical impedance, 169B8:6–7, 28
 vs. lithology, 141A10:350
 vs. titanium oxide and aluminum oxide, 150B20:367
 weathering effects, 117B9:205
 Weddell Sea, 113B5:51–52
 well-logging, 117A19:623
 X-ray diffraction data, 102A11:418; 102B10:140–142;
 116B1:11–14; 120B(2)67:1067; 129B2:50; 3:87;
 134B8:114–116, 119; 139B8:119–121; 9:142–
 146; 141A6:84; 190/196B6:5–7
 Yaquina Basin, 112B5:68, 74, 81
 zoning, 107B20:324
See also akaganeite; beidellite; calcium oxide-quartz-
 clay minerals diagram; chlorites; clay; clay min-
 erals; clays; corrensite; dickite; greenalite; hal-
 loysite; illite; illite/smectite ratio; illite-
 vermiculite mixed minerals; kaolinite; kaolin-
 ite/illite ratio; kaolinite/chlorite ratio; mixed-
 layer minerals; montmorillonite; nontronite;
 palygorskite; pyrophyllite; saponite; sepiolite;
 smectite; vermiculite
 clay mineralogy, diagenetic
 sandstone, 127/128B(1)9:139–141
 Site 799, 127/128B(1)2:35–36
 clay mineralogy, smectitic
 alteration, 131A6:155
 fabric, 131B11:150
 turbidites, 131A6:94–99
 veins, 131B32:406
 volcanic ash, 131B14:176–177

- vs. depth, 131A6:110, 112, 114, 120
X-ray diffraction data, 131B28:345–362, 364
clay minerals
 Albian–Turonian sedimentology, 210B8:5–7
 alteration, 165B19:296; 168A4:70, 72; 6:173–175;
 168B10:121–122, 124; 183A8:20–22; 185A4:25–
 26; 187A1:10; 192A3:29–32
 authigenesis, 149B31:532; 198A1:55–56
 basalts, 169A5:212–214
 basement units, 183A7:19
 black shale, 198A9:33; 207A4:26
 carbon/oxygen ratio, 164B21:205–206
 chemical and nuclear parameters, 172A5:245;
 178A5:137
 chimneys, 193A1:25
 clay, 190/196B4:6–7
 composition, 148B11:164–166; 176B9:58; 188B13:11–
 12
 core-log integration, 156B16:222–223
 cyclicality, 188B13:12
 d collement zones, 156B1:3–30
 deep-sea sediments, 185B7:4–5
 dehydration, 162A10:362; 186B14:9
 deposition, 188A5:13
 diagenesis, 166A8:191; 181A8:31; 182A6:29
 diffuse reflectance spectrophotometry, 188B7:10;
 13:10–11
 distribution and chemistry, 152B34:417–424
 electron micrograph, 170B3:24
 electron microprobe data, 148B12:176; 183B15:35
 fabric, 149B19:353–361
 factor score vs. depth, 188B7:34
 fluid flow, 166A9:254
 geochemistry, 156B25:317; 180B17:5–6
 glacial–interglacial cycles, 178B8:10–12
 hydrothermal alteration, 158A7:108; 158B18:239–
 241; 20:277–284; 27:368–369; 193B1:13–16
 hydrothermal veins, 153A3:79–80; 7:270–271
 identification, 148A3:141; 165A6:340
 in volcanic rocks, 183B17:1
 inorganic sediments, 154B36:509–516
 lithofacies, 169A3:54–56
 lithology, 149A4:50, 55, 59; 6:120, 124; 7:222;
 154A4:60–66; 155A6:93–95; 159A7:229–231;
 160A4:59; 160B34:438; 162A8:261; 164A6:110–
 111; 9:284–286; 165A4:142–143; 5:239, 241,
 243; 6:297–308; 170A3:55–57; 171A_A3:27;
 5:62; 6:84; 172A4:84–88; 175A4:89; 5:117, 119;
 180B6:15–16; 182A4:6–8; 183A4:4; 7:5–6, 14;
 8:3–5; 184A9:11; 185A4:12–17; 186A4:19–22,
 49–50; 5:12–13; 190A4:6–9; 5:7–8; 193A6:5;
 196A3:19–20; 4:16; 201A12:10–11; 202A5:5–8;
 6:6–9; 7:6–10; 8:7–9; 10:6–10; 11:6–10;
 204A3:4–8; 6:3–8; 11:5–7; 208A6:6–10
 low-temperature alteration, 192B6:3–4
 magnetization, 154B10:175
 major oxides, 148B11:163
 matrix, 160B46:599–600, 603–604; 50:668; 180B8:34
 Messinian–Pliocene interval, 160B34:440
 mica schist, 180A7:12–13
 mineralogy, 152B34:420–422; 158B20:277–284;
 169B6:1–24
 no bacterial habitation, 193A3:227
 origin, 160B45:586–587
 petrography, 195A4:14–16; 200A4:30
 photograph, 148B14:214; 153A3:89; 6:249; 153B3:56;
 9:167; 158A7:131; 169A3:70; 183A6:91–92, 96–
 97, 117; 193A3:125, 151, 159, 211
 photomicrograph, 183A6:87–88, 127; 185A4:83;
 193A3:135–136, 212; 4:101, 106, 196–197;
 193B1:56; 195A4:88–89, 103; 198A9:65, 70;
 200A3:82; 206A3:235; 210A3:226; 210B2:33–34
 pillow lava, 169A3:94
 pore water, 166A10:316; 175A4:101; 6:164–165;
 12:371; 180A5:32; 188A3:47
 preferred orientation, 190/196B7:6–13
 ratios, 185B9:21
 provenance, 178B8:8–10
 relative abundance, 168B5:59, 60; 190/196B5:17
 replacement of serpentinite, 149B31:534
 sapropels, 160B3:35; 19:235, 241–245
 secondary minerals, 148B11:152–153; 168A5:126
 sedimentation, 190/196B1:9
 sediments, 149B40:748–749; 152B4:39–49;
 155B9:177–192; 23:391, 393–394; 26:444;
 41:670; 156A7:204–213, 216–217, 220;
 159B43:592–593; 164A7:182–183; 171A_A3:28;
 174A_B(synopsis):8–9; 181B3:5–6; 182A4:32;
 6:30
 serpentinites, 149B31:530; 153B3:42
 siliceous rocks, 198B17:9–10
 siliciclastics, 189B11:3–6
 sill zoning, 210A3:67
 silty clay, 155A14:415–417
 smear slides, 205A5:14
 temperature, 159B4:39
 ternary diagram, 184B12:17
 terrigenous composition, 166B9:106–108; 175B23:10–
 11
 thorium vs. potassium, 171B_A4:167; 5:235
 veins, 176B9:14
 volcanic ash, 165A3:82; 190/196B2:4
 volcanic glass alteration, 200B2:13–14
 vs. core number, 155A9:212
 vs. age, 189B11:10–12
 vs. depth, 152A9:134; 152B4:42; 155A11:287;
 155B10:202–213; 12:343; 156A3:36; 7:208–209;
 159B43:592; 160B18:221, 223; 164B35:375;
 171A_B3:22; 182B14:7; 186A4:91; 5:54–55;
 188B13:34; 190A4:47; 5:46; 6:34; 7:30; 8:37;
 190/196B4:21; 5:15–16, 18; 196A1:23;
 202A13:37
 well-logging, 166A8:199
 X-ray diffraction data, 148A3:142; 155A7:138; 11:287;
 156A3:32–33; 6:102–103, 105–114; 156B1:9,
 11–13; 159A5:77; 164A6:112; 165A4:142;
 174A_A3:59; 4:116; 5:163; 175A10:281–282;
 178A4:23, 163; 5:134; 6:50; 186A4:89–90;
 188A4:15–16; 5:12–13; 190A5:9; 6:8; 8:9; 190/
 196B5:1–28; 195A4:94; 208A6:51; 210A3:52

- See also* beidellite; celadonite; celadonite-smectite mixtures; chlorites; chlorite/illite ratio; chlorite/total clay minerals ratio; chlorite-illite province; clay; clay mineralogy; clays; gibbsite; glauconite; hydroxychlorite; iddingsite; illite; illite-smectite-chlorite diagram; illite/total clay minerals ratio; kaolinite; kaolinite/feldspar ratio; kaolinite/illite ratio; kaolinite/(kaolinite + smectite) ratio; mixed-layer minerals; montmorillonite; montmorillonite-beidellite mixed minerals; nontronite; palygorskite; phyllosilicates; quartz/kaolinite ratio; sepiolite; smectite; smectite/kaolinite ratio; smectite province; veins; vermiculite
- clay minerals, montmorillonitic, oceanic anoxic events, 198B16:7
- clay-organic matter intervals, photograph, 207A5:51
- clay platelets
 electron microscopy, 185B9:16, 22–26
 microfabrics, 185B9:8–9
 origin, 185B9:9–12
- clay preferred orientation. *See* preferred orientation, clay
- clay-pyrite veins. *See* veins, clay-pyrite
- clay/(quartz + feldspar) ratio
 lithology, 177A3:5; 5:7
 vs. depth, 177A3:22; 4:28; 5:34; 7:25
- clay/radiolarite ratio, Milankovitch cycles, 129B30:545
- clay/silt ratio
 models, 178B24:4–8
 sediments, 174AXS_A4:49–50
- clay-sized fraction
 clay mineralogy, 190/196B6:7–8
 linear regression, 190/196B8:18
 siliciclastics, 184B19:8–9
- clay/total phases ratio, vs. depth, 141A6:84
- clay units
 lithology, 189A5:17–19, 71
 mineralogy, 189A7:19–21
- clay volume content, velocity logs, 204B22:6–7
- clay vs. sand, vs. depth, 174A_B7:12
- clayey diatom ooze. *See* ooze, clayey diatom
- clayey silt. *See* silt, clayey
- clayey siltstone. *See* siltstone, clayey
- clays, authigenic
 Argo Abyssal Plain-Exmouth Plateau, 123B6:147
 carbonates, 204A8:7–8
 Marsili Basin, 107B19:316
 volcanic ash, 185A4:28–29, 32
- clays, deep-sea, strontium isotopes, 145B26:399–412
- clays, detrital
 aluminum, 115B39:710
 Indian Ocean, 115B31:603
 Pigafetta Basin, 129B2:55
 titanium/aluminum ratio, 205B3:4
- claystone
 Bathonian–Callovian interval, 129B1:10; 31:559
 biogeographic implications, 123A4:129–130
 biostratigraphy, 129B4:207, 229; 144A8:299
 bioturbation, 123A5:282–283
 Cagayan Ridge, 124A14:401–402
 calcareous vs. noncalcareous composition, 123A4:91
 Callovian, 129B32:584–585, 587, 602
 carbonate content, 115A5:243
 Celebes Sea, 124A10:128, 132–137, 143; 13:346–347
 chemical composition, 129B32:582
 clastic sulfides, 169A3:59; 169B10:13
 clay mineralogy, 156B1:18–19, 22; 204B7:1–15
 climatic fluctuations, 105B38:758
 clinof orm stacks, 171B_A1:5–6
 color, 123A4:83, 106
 Coniacian–Eocene interval, 159B12:117–119
 core ages, 129B2:37
 Cretaceous, 130A9:382; 10:525; 130B5:65
 Cretaceous–Eocene interval, 130A5:108
 Cretaceous–Paleogene interval, 123A4:107
 Cretaceous/Tertiary boundary, 119A7:279; 165A4:151–152; 5:204–206
 debris flows, 207B14:6
 décollement structures, 159B3:28
 deformation, 125A12:300; 15:375; 141A6:99, 105; 159B1:6–7
 deposition, 119A9:356; 124A14:404; 159A9:308
 electron microprobe transects, 129B32:591
 Eocene, 105B10:138–148; 159B32:421
 fluid inclusions, 210B5:7–8
 Galicia margin W, 103A1:11
 geochemistry, 129B15:289
 glaucony lithofacies, 150B10:171–187
 graded bedding, 130A9:396
 Hauterivian–Aptian interval, 123B43:805
 hematite content, 123A5:136; 6:138, 140
 hydrocarbon fraction, 107A10:778
 impedance, 124B37:509
 isotopes, 143B6:103; 186B14:6–7
 Jurassic, 129B1:18; 32:581
 Jurassic–Cretaceous interval, 129B32:601
 Jurassic–Lower Cretaceous interval, 129B36:677
 Late Paleocene Thermal Maximum, 165A4:206
 Lingayen Gulf, 124E_A13:76
 lithologic motifs, 173A7:168–173
 lithology, 102B1:6; 127/128B(2)78:1232–1233; 129A2:40–44; 3:104; 129B2:37; 14:268–269; 131A6:85–86; 134A12:402; 136A4:40; 141A7:165, 167; 9:309–313; 143A9:306–308; 144A5:159; 6:220; 11:422–423; 145A6:216, 218; 149A4:52–62; 5:124–126; 6:155–175; 7:220, 223; 149B45:687–688; 150A6:72–75; 154A8:342–343; 156A6:98–99; 7:202–203; 157A8:405; 159A5:78; 6:164–166, 170–174; 8:261–267; 161A8:359–362; 164A6:110; 7:181–182; 9:284; 165A4:147–148; 6:302–306; 167A(1)4:56; 14:395; 169A4:165; 6:265; 170A4:106–108; 5:158–162; 171A_A3:27; 6:84; 171B_A4:112–116; 5:180–181; 6:250; 173A4:74–77; 6:110–114; 8:228–234; 9:269–272; 180A6:30–31; 8:5, 9; 9:13–14, 21–22, 26; 10:10; 12:17; 180B6:6–8, 11–16; 182A1:22; 4:10; 6:8; 188A3:15–16, 19–21; 4:11–12; 188B1:4; 189A6:15; 7:16–18; 192A1:24–26; 6:8; 7:3–4; 194A7:10; 198A9:11; 204A3:7–10; 4:7–9; 10:8–9; 207A5:8–9; 8:6–8; 210A1:14; 3:21–30, 32–33, 42, 44–48, 58–60

- lower Aptian, 198A3:16
 Lower Cretaceous, 129B1:19; 30:530; 149B36:578–580
 Luzon Strait, 124E_A14:94
 Mariana Basin E, 124E_A18:122–123e
 mass accumulation rates, 127A5:191
 mineralogy, 123A4:89, 93; 124B31:411–412; 145B43:657–660
 mottled zones, 119B3:46–47, 53
 mud domes, 160A18:522–524; 160B50:668
 nannofossils 124A13:347
 oceanic anoxic events, 198A10:3
 osmium isotopes, 159B19:185–186
 overconsolidation, 170B3:8–9
 Palawan Island, 124B9:122
 Paleocene, 159B12:118; 165A8:381
 paleoenvironment, 189A6:20–21
 paleomagnetism, 123A4:136, 138, 140; 5:299; 123B29:551; 143B27:405–418
 paleosols, 144B19:383
 palygorskite, 159B1:10
 petrography, 143B12:176–190; 160B45:577, 580; 200A3:15–16
 petrology, 144B29:497, 499
 photograph, 135A(1)4:105; 141A7:171–172; 145A6:223, 225–226; 149A4:54–55, 59; 5:126–127; 6:157, 160–161, 164; 7:224–225; 156A6:101, 104; 159A3:60; 159B7:69; 160A12:429; 161A8:374; 165A4:148–149; 6:305, 307; 170A7:224; 171B_A4:110, 116; 173A4:82–83; 7:171–172; 180A5:55; 8:54; 9:88; 183A6:80; 188A3:96–102, 104; 189A6:83; 7:66–67; 190A8:38; 192A6:50; 195A4:82; 204A4:55; 205A1:67; 4:80; 5:46, 50, 62; 6:30, 33; 207A6:46; 210A3:186, 213, 216, 232
 photomicrograph, 180B10:33–34; 194A4:49; 200A3:102; 205A4:78; 6:29
 physical properties, 123A4:165; 5:307–308; 129B29:510
 Pliocene, 180A1:16
 post-Valanginian, 129B36:683, 683
 postrift sedimentation, 210B1:27–28
 provenance, 210B2:4–5
 pyrite, 159B1:5; 180A9:45
 redeposition, 205A6:9
 rifting, 159B12:115–116
 scaly fabric, 156B4:59–77
 sediment provenance, 180B6:1–53
 sedimentary structures, 119A9:353–354
 sedimentation, 154A8:393; 180A1:6; 181B1:39; 192A6:9–10; 7:4–5
 sediments, 149A4:111–112; 195A1:20–22
 seismic reflection profiling, 123A5:341–342
 silica dissolution, 129B32:587
 Site 261, 123B1:32
 Site 698, 114A5:96; 114B22:387
 Site 699, 114A6:156, 161, 193
 Site 700, 114A7:261
 Site 747, 120A6:98
 Site 748, 120A7:173–177
 Site 750, 120A9:293, 319; 120B(1)8:100
 Site 765, 123A4:80–81
 Site 784, 125A12:275–276; 125B19:352, 354
 Site 794, 127A4:92–93; 128A3:81
 Site 795, 127A5:189
 Site 796, 127A6:264; 127/128B(2)78:1260
 Site 797, 127A7:343–344
 Site 798, 128A4:124, 138
 Site 799, 127/128B(1)2:41–43; 128A5:265
 Site 800, 129A2:33; 129B2:32
 Site 801, 129A3:106–107; 129B2:34, 36
 Site 802, 129A4:183, 185–186, 190, 192; 129B4:123; 31:557
 Site 803, 130A5:109
 sources, 173A6:155–156
 structural data, 173A7:196–197; 180A8:21–22
 Sulu Sea, 124A11:201, 209–212, 220–221, 269–271
 terrigenous sedimentation, 180A1:10
 thermal diagenesis, 159B6:57–58
 thermal history, 159B10:97–98
 tuffs, 129B4:130
 turbidites, 131A6:95; 173B6:1–11
 unconformities, 180B(synthesis):9
 uniaxial reconsolidation, 149B20:363–373
 Upper Cretaceous, 183A1:34
 Upper Jurassic, 129B1:19
 Valanginian–Hauterivian interval, 103A5:84
 volcanoclastics, 180A1:9
 vs. depth, 171A_B3:21–22
 well-logging, 124A13:376–378; 144A11:434; 171A_A5:62; 173A3:51–61
 X-ray diffraction data, 159A6:168; 8:264–265
 See also clays/claystone transition; hemipelagites; mudstone; metaclaystone; pelite; siltstone/claystone couplets
 claystone, bentonitic
 age, 123B4:97
 clay mineralogy, 123B4:99
 diagenetic alteration, 123B4:105
 geochemistry, 123B4:100
 Site 765, 123B4:107
 Site 766, 123B4:93–94
 smectite-rich composition, 123B4:97–98
 volcanic sources, 123B4:100, 105
 claystone, biosiliceous, postrift sedimentation, 210B1:31
 claystone, bioturbated
 lithology, 200A3:10–11
 photograph, 164A9:285; 200A3:63; 210A3:189
 claystone, bioturbated silty
 lithology, 180A12:5; 195A4:11–14; 196A3:18
 photograph, 180A12:71, 76; 190A1:57; 4:45–46; 195A4:74–76, 78–83
 well-logging, 195A4:77
 claystone, black
 bedding, 159A6:186
 biostratigraphy, 144A5:169–170
 deposition, 159B8:73
 lithology, 159A5:80–81; 183A6:7
 paleomagnetism, 159B20:203
 photograph, 159A5:81, 85, 102; 159B7:67; 183A6:71–72
 Site 261, 123B1:32

- claystone, brown
 - carbonate content, 124B33:447–448
 - Celebes Sea, 124B1:3–4
 - chemical classification, 124B31:422–423
 - chemical composition, 124B31:422–423
 - diagenesis, 124B31:427–428
 - lithology, 129B23:441
 - mineralogy, 124B31:412–413, 416
 - Sulu Sea, 124B1:6
 - volcanic influxes, 124B31:420–421
- claystone, burrow-mottled, photograph, 192A7:22
- claystone, burrowed hemipelagic, photograph, 210A3:192
- claystone, calcareous
 - Argo Abyssal Plain-Exmouth Plateau, 123A4:91, 246
 - Campanian–Eocene interval, 129B31:558
 - core ages, 129B2:37
 - diagenetic greenish laminations, 119A6:170
 - lithologic motifs, 173A7:168–173
 - lithology, 129B2:37; 23:441; 135B6:87–92; 143A9:310; 149A4:58–59; 161A6:191–193; 8:358–359, 362; 161B7:86; 170A4:106; 171B_A4:100–101; 6:251, 256–258; 173A8:228; 9:269–272; 180A9:10–11; 192A3:10–11; 207A4:9; 7:7, 9–10; 8:8–9
 - marl turbidites, 123B5:116
 - photograph, 149A4:85; 6:174; 160A14:477; 173A6:117; 7:171–172, 174; 8:231–232; 180A5:57; 192A3:63, 67; 207A7:47; 210A3:32–33, 161
 - photomicrograph, 192A3:68–69; 207A7:49
 - red/green color boundary, 123B1:9
 - Site 261, 123B1:26
 - Site 737, 119A6:168
 - Site 765, 123A4:86, 90, 94, 104
 - Site 802, 129A4:180–182, 185, 191–192
 - Valanginian–Barremian interval, 123B1:15
 - vs. depth, 171A_B3:21–22
 - X-ray imaging, 210B6:16
- claystone, calcareous laminated, lithology, 207A6:8–9
- claystone, calcareous nannofossil, lithology, 171B_A4:100–101
- claystone, calcareous sandy silty, lithology, 180A9:12–13; 180B6:6
- claystone, calcareous silty, lithology, 169A5:209–210; 6:266; 173A6:110, 112–114; 7:173
- claystone, calcite-cemented, photomicrograph, 188A3:103
- claystone, calcite-rich, photograph, 205A4:76
- claystone, carbonate
 - Albian, 159B2:16–17
 - photograph, 159B10:99
- claystone, carbonate-cemented, lithology, 190A8:6
- claystone, chalk-nannofossil, photograph, 198A9:46
- claystone, cherty, lithology, 171B_A6:250
- claystone, dark
 - deposition, 127A6:267
 - photograph, 192A3:61
- claystone, deep-sea, geotechnical properties, 149B18:343–350
- claystone, diatom
 - lithology, 186A1:13; 189A6:14–15; 7:14–15
 - Site 739, 119A8:300
 - Site 795, 127A5:186–187
 - Site 796, 127A6:264
- claystone, diatomaceous silty, lithology, 186A1:9–10; 4:18–19; 189A7:15
- claystone, dolomitic
 - lithology, 173A4:74–77
 - Tripoli Formation, 107B13:191
- claystone, dolomitized calcareous ferruginous, 171A_A3:29
- claystone, ferruginous, photograph, 192A6:58
- claystone, ferruginous laminated, deposition, 192A6:12
- claystone, ferruginous nannofossil, Aptian/Albian boundary, 192A3:13–14
- claystone, glauconite
 - lithology, 159A6:166–168; 207A6:8
 - photograph, 159A6:167; 207A6:46
 - structure, 159B2:16
- claystone, glauconite-bearing, 119A14:513
- claystone, glauconite-bearing silty, 189A7:13–14
- claystone, glauconite-bearing silty diatomaceous, 189A7:13–14
- claystone, glauconitic calcareous, 119A6:159
- claystone, green, Celebes Sea, 124B3:47
- claystone, greenish gray
 - Argo Abyssal Plain-Exmouth Plateau, 123B28:529–530
 - magnetic properties, 123B28:529–530
 - marl turbidites, 123B4:120
 - Site 766, 123A5:303
- claystone, hemipelagic
 - photograph, 169A3:66; 173A8:230
 - synrift sedimentation, 210B1:25
- claystone, hemipelagic diatom-bearing sponge spicule-bearing silty, 186A5:11–12
- claystone, hemipelagic diatomaceous silty, 186A4:17–18
- claystone, hemipelagic glassy silty, 186A5:12
- claystone, indurated
 - lithology, 135A(1)4:103–104
 - photograph, 169A3:85
- claystone, interbedded siliceous, 190A1:57; 4:45
- claystone, iron-rich radiolarian, 129B32:583
- claystone, kaolinitic, iridium content, 121B25:490–491
- claystone, laminated, photograph, 171B_A4:110; 192A7:23; 207A6:49–50; 8:47; 210A3:190, 194, 212, 234, 236
- claystone, laminated calcareous, lithology, 210A3:42–43
- claystone, laminated carbon-rich, photograph, 210A3:189
- claystone, lithified tuffaceous, Pigafetta Basin, 129B5:138
- claystone, marbled, photograph, 144A5:170
- claystone, massive, Kerguelen Plateau-Prydz Bay region, 119B3:49
- claystone, metalliferous, Late Jurassic–Lower Cretaceous interval, 129B32:600
- claystone, metamorphosed
 - igneous provinces, 163X_A1:3
 - lithology, 152A9:115–116

- See also* metaclaystone
- claystone, micritic, photograph, 159A8:268
- claystone, mottled, lithology, 171A_A5:62
- claystone, nannofossil
- carbonate content, 124B33:447–448
 - depositional environment, 123B1:26
 - lithology, 133A(1)16:688; 149A4:58; 7:220–223; 154A8:344–346; 157A7:333–338; 9:447–448; 10:510; 159A7:227; 161A6:191–193; 8:358–359, 362; 167A(1)5:89; 171B_A4:100–101; 6:251; 173A4:71–74; 6:110, 112–114; 8:228; 180A5:10–18; 183A6:6–7; 7:5–6, 14; 189A6:15–16; 7:12–15
 - photograph, 157A10:514; 159A6:167; 161A6:197; 164A9:285; 167A(1)5:93; 171B_A4:106; 6:252; 173A4:76; 7:170; 189A3:11–12, 75; 198A4:9–12; 10:5–9; 199A10:8, 27; 204A4:54; 207A7:45
 - photomicrograph, 204A4:56
 - Pigafetta Basin, 129B2:36
 - sediments, 159A9:306
 - Site 261, 123B1:43–45, 56
 - Site 765, 123A4:92, 103; 123B1:35
 - Tithonian, 123B1:24–26
- claystone, nannofossil-bearing diatomaceous silty, 189A6:14–15
- claystone, nannofossil-foraminiferal, lithology, 161A6:188–193
- claystone, nannofossil silty, lithology, 150A7:146–148; 180A9:10–11; 189A3:13–14
- claystone, noncalcareous
- depositional environment, 123B1:30–31
 - Site 261, 123B1:26–31
 - Site 765, 123B1:15–16
- claystone, noncarbonate silty, photograph, 180A9:88
- claystone, organic-bearing, lithology, 189A6:16
- claystone, organic-bearing silty, lithology, 189A3:14–15
- claystone, organic-rich, photograph, 198A3:71; 207A7:48
- claystone, organic-rich silty, lithology, 180A9:18–19
- claystone, palygorskite
- lithology, 159A6:166; 8:264–266
 - photograph, 159A6:168; 7:229
- claystone, pebbly, Site 796, 127A6:264–265
- claystone, pelagic
- Cretaceous, 129B2:39
 - depositional setting, 129B12:231
 - postrift sedimentation, 210B1:29–31
 - Site 802, 129B4:120
- claystone, phosphatic calcareous, lithology, 207A5:9
- claystone, phyllosilicate, lithology, 173A7:173
- claystone, porcellanitic calcareous, lithology, 171B_A6:250; 174AXS_A5:26–27
- claystone, prodelta, Site 763, 123B4:101
- claystone, pyritic, Sardinian margin, 107B38:664
- claystone, radiolarian
- Argo Abyssal Plain-Exmouth Plateau, 123B1:31
 - Barremian–Aptian interval, 123B1:17–18, 31–32, 45
 - color, 123B1:17, 45
 - correlation, 171A_B3:24
 - depositional environment, 123B1:15, 17–18, 32
 - graded layers, 123B1:17
 - Jurassic–Lower Cretaceous interval, 129B36:677
 - lithology, 143A9:308; 159A8:264–266
 - paleomagnetism, 129B23:435
 - photograph, 198A9:44–45
 - Pigafetta Basin, 129B6:158
 - Site 261, 123B39:744
 - Site 765, 123B1:55; 4:102; 39:744
 - Site 800, 129B2:32
 - Tithonian–Berriasian interval, 123B1:13–15
 - vs. depth, 171A_B3:21–22
- claystone, reddish brown
- Argo Abyssal Plain-Exmouth Plateau, 123B28:529
 - magnetic properties, 123B28:529
- claystone, reddish silty, lithology, 180A12:5, 8
- claystone, redeposited diatom-rich, photomicrograph, 205A6:29
- claystone, sandy, lithology, 161A6:188–193; 183A6:8–9; 189A3:13–14
- claystone, sandy/silty
- lithology, 180A12:14, 16
 - photograph, 180A5:62; 9:81
 - photomicrograph, 180A9:72–73
 - Prydz Bay, 119A8:300, 409–410
- claystone, sheared, photograph, 149A4:87
- claystone, sideritic, lithology, 159A6:170–173
- claystone, siliceous
- grain shape, 127/128B(1)2:38
 - grain size, 127/128B(1)2:38
 - lithology, 127/128B(2)78:1230–1232; 129A2:44–45; 171B_A5:181–183; 190A8:6
 - mass accumulation rates, 127A5:191
 - photograph, 171B_A5:187–188
 - Site 794, 127/128B(2)78:1258
 - Site 795, 127A5:187–189
 - Site 796, 127A6:264–265
 - Site 797, 127A7:343–344
 - Site 798, 128A4:124, 138
 - Site 799, 127/128B(1)2:39–43; 128A5:260, 264–265
 - vitric tuff, 127/128B(1)2:34
 - volcanic ash, 190/196B2:1–9
 - well-logging, 171A_A3:29
- claystone, siliceous volcanoclastic, X-ray diffraction data, 129B3:86
- claystone, siliciclastic, Site 766, 123A5:282
- claystone, silicified
- lithology, 129A3:104–106
 - Site 801, 129B1:4
- claystone, silty
- Albian, 159B12:117
 - calcareous vs. noncalcareous composition, 123B4:92, 94
 - depositional environment, 119A11:413
 - fissility, 117B11:237
 - geotechnical properties, 149B18:343–350
 - lithology, 127/128B(2)78:1232–1233; 133A(1)16:688; 134A12:405; 139A7:449–454; 141A6:82–84; 7:167, 169–170; 8:248, 251; 10:354–356, 358; 149A4:58–59; 150A10:318–319; 159A5:82–83; 7:228–231; 161A8:358–360, 362; 170A4:103–104, 106; 6:194–195; 171B_A4:113–116; 6:256–259; 173A9:269–272; 180A5:13–16; 6:18–21, 25, 27–28; 7:11; 8:13–14; 9:13, 18, 23, 26; 10:5–6,

- 10, 42; 12:5, 10–11, 13, 16, 23; 180B6:7–8, 10–13; 182A6:8; 183A1:20; 6:8–9; 189A3:14–15; 5:13–15; 6:14–19; 7:16–18; 190A4:7; 5:8–9; 8:5–9; 9:6–9; 190/196B12:3–4; 196A1:9; 3:18; 4:15; 204A4:9–10; 10:8–9; 207A6:9
- paleomagnetism, 159B20:204
- photograph, 134A13:497; 150A10:318–319; 159A6:173–174; 161A8:372–375; 169A3:80; 170A4:112–113; 5:161, 163; 173A6:117; 180A6:110–112; 10:28, 37, 39; 12:57–58, 60; 190A1:70; 4:45–46; 5:41, 43–44; 8:29–31, 35; 195A4:74–76, 78–79; 207A6:51
- photomicrograph, 173A6:120; 180A9:70, 90; 205A5:51
- shell fragments, 123A4:102–103
- Site 722, 117A10:259–260, 267
- Site 731, 117B11:224
- Site 737, 119A6:168
- Site 742, 119A11:409–410
- Site 765, 123A4:91–94
- Site 794, 127A4:93–94
- Site 797, 127A7:343, 345–346
- Site 799, 127/128B(1)2:43
- Tithonian and older, 123B1:5, 7, 43
- claystone, silty calcareous, lithology, 207A4:9
- claystone, silty dolomitic, Site 799, 127/128B(1)2:41
- claystone, silty phosphatic, Site 799, 127/128B(1)2:43
- claystone, silty siliceous, Site 799, 127/128B(1)2:40–41
- claystone, smectitic
- Site 261, 123B1:30
- vs. depth, 171A_B3:21
- claystone, spicular silty, Site 797, 127A7:343
- claystone, spicule-bearing, lithology, 186A1:13
- claystone, tuffaceous
- Owen Ridge, 117A3:35
- Site 794, 128A3:81
- claystone, tuffaceous calcareous, 129B4:130
- claystone, vitric
- lithology, 135A(1)6:257; 145A6:217
- Site 786, 125A14:316
- claystone, volcanic, lithology, 135A(1)11:594–595
- claystone, volcanoclastic
- limestone, 192A3:21
- lithology, 200A3:11–12
- photograph, 200A3:67
- claystone, volcanoclastic silty
- lithology, 200A3:11–14
- photograph, 200A3:66, 68–69, 72–74, 102, 121–123
- photomicrograph, 200A3:80, 103
- claystone, well-indurated normally graded, 183A9:25–26
- claystone, zeolitic
- Albian–Miocene interval, 123B1:18–19
- lithology, 159A7:227
- photograph, 144A5:170
- sediments, 198A4:2
- Site 261, 123B1:45–46
- Site 765, 123A4:83; 123B1:45–46
- X-ray diffraction data, 159A7:228
- claystone, zeolitic pelagic, lithology, 129B14:269
- claystone/basalt contact, Site 765, 123A4:95
- claystone clasts. *See* clasts, claystone
- claystone-clay layers, geochemistry, 119B39:726–727
- claystone/limestone boundary, reflection, 119A6:214
- claystone-mudstone layers, gypsiferous, 107A8:448
- claystone-radiolarite layers, microprobe transects, 129B32:587
- claystone-serpentine transition
- geochemistry, 125A12:281, 284
- pore water chemistry, 125A11:259–260; 13:300
- cleavage
- brown amphibole veins, 209A5:19–20
- clays, 159B1:6
- décollement structures, 159B3:28
- fabric, 134A7:115
- gabbro magnetic susceptibility, 176B11:22–23
- greenschist facies, 173A6:144–145
- harzburgites, 195A3:17
- Lower Cretaceous, 159B2:18
- photograph, 159B3:33; 204A8:45
- photomicrograph, 187A9:19; 197A4:64–65; 5:62–64; 6:50, 56, 62; 209A3:61
- recrystallization, 159B10:97
- scanning, 156B11:155–156
- serpentine sediments, 125A7:133
- Site 778, 125A6:106–107
- Site 779, 125A7:127
- volcanic ash, 190/196B2:5
- cleavage, anastomosing, Conical Seamount, 125B19:347, 349; 36:605
- cleavage, crenulation
- basement/sediment contact, 161A6:218–219
- photograph, 153A3:99
- photomicrograph, 161A6:241, 244–246
- cleavage, disjunctive, photograph, 161A6:227
- cleavage, fracture
- cores, 141A6:108
- plot of poles, 141A6:114
- cleavage, helicoidal, Site 779, 125A7:135
- cleavage, scaly
- lithology, 112A17:630, 631
- movement-related structure, 112A14:376
- Site 682, 112A14:377; 112B2:19, 25, 28; 41:631
- Site 685, 112A17:610–611, 618; 112B2:19, 21, 28
- Site 688, 112B2:19, 25, 28
- Yaquina Basin, 112A15:452
- cleavage, shaly, photograph, 165A6:307
- Clifdenian
- foraminifers, 181A7:19, 21; 8:17, 19
- paleoclimatology, 181B1:5
- climate
- Antarctic ice sheets, 120B(2)56:1001
- California margin, 167A(1)1:6
- Cenozoic evolution, 151A1:19–20
- circulation, 120B(2)46:875–876
- connection with tectonics, 167B32:370–372
- Eocene, 120B(2)44:839
- Eocene/Oligocene boundary, 120B(2)55:979–980
- evolution, 184A1:4–7
- forests, 120B(1)18:276–277
- glaciation, 120B(1)12:162–164
- Holocene, 169S_A2:14–15; 178B7:1–45
- ice-rafted debris, 120B(1)17:216; (2)63:1099

- Japan Sea, 127/128B(1)11:180; 19:337
- oceanography, 167B32:342
- pollen, 127/128B(1)18:320
- precipitation, 127/128B(1)19:326
- radiolarians, 127/128B(1)16:299
- Raggatt Basin, 120B(1)8:107
- sedimentation, 178B(synthesis):3–5
- Site 796, 127A6:274
- Site 797, 127A7:356
- South America, 155B8:169
- sporomorphs, 120B(1)17:260
- tectonics, 178A1:4
- vegetation, 127/128B(1)19:325–326
- See also* paleoclimatology
- climate change
 - Antarctic region, 114B12:234; 31:595
 - faunal responses, 184B11:8
 - geochemical logs, 114B30:577–578
 - ice cores, 177A1:10
 - Meteor Rise, 114B11:224, 227
 - Neogene, 202A1:26–30
 - Northeast Georgia Rise, 114B13:292
 - orbital-scale paleoclimatology, 202B1:19–24
 - Site 699, 114A6:171
 - Site 701, 114A8:411, 413
 - Site 704, 114A11:622, 637, 687; 114B9:197, 199; 10:207; 23:409, 413, 415–416, 419–420; 24:437; 25:467, 470; 26:475, 478; 28:527–531; 30:583; 33:630
 - surface water structure, 177B(synthesis):10–12
 - See also* greenhouse warming; paleoclimatology
- climate change, millennial-scale, 202A1:33–37; 202B1:24–29
- climate controls
 - deposition, 141B31:391–393
 - sedimentation, 141B10:140–141; 146B(2)5:69–70
 - See also* paleoclimatology
- climate cycles
 - color density logs, 146B(2)3:31–44
 - core-log integration, 186B15:9–10
 - deep-sea sediments, 130B48:797
 - deposition, 178A5:11–12
 - gamma ray attenuation density, 130B37:623–639
 - indicators, 130B20:358
 - paleoclimatology, 202A1:32–33; 202B1:19–30
 - Quaternary, 146B(2)4:45–59
 - sedimentation, 130B44:713–718
 - spectral properties, 130B22:389–390
 - volcanic ash, 186B9:7–8
 - See also* paleoclimatology
- climate cycles, equatorial, Jurassic–Cretaceous interval, 129B30:529–547
- climate forcing
 - Cretaceous/Tertiary boundary, 165A1:8
 - deposition, 178B25:10–11
 - mid-Oligocene, 183B7:9
 - Pliocene, 202B13:11–13
 - sea level changes, 133B15:189–202; 143B20:322–326
- climate models
 - lower Paleogene, 199A3:3
 - straw man model, 199A3:1–30
- See also* community climate model; global coupled climate models; greenhouse warming; Holocene climate optimum; ocean-atmosphere climate models; straw man model
- climate overprints, sequence stratigraphy, 133B25:362–363
- climate proxies, nannofossils, 180B11:3
- climate ratio
 - Pliocene, 145B3:48–49
 - See also* paleoclimate ratio
- climate reversals
 - diatomaceous sandy mud, 178B34:4
 - mass accumulation rates, 178B34:4–5
- climate signals, foraminifers, 178A8:8
- climate variability. *See* paleoclimatology
- climbing ripple laminations. *See* laminations, climbing-ripple
- climbing ripple marks. *See* ripple marks, climbing
- Cline (wireline logging coreline), vs. time, 204B23:21–28
- clino-amphibole, sulfide-banded/impregnated sandstone, 169A3:76
- clinocllore
 - alteration chemistry, 149B32:547
 - high-grade schist, 161A6:215
 - lithology, 167A(1)13:357–359
 - Mid-Atlantic Ridge, 106/109B9:111
 - mineral chemistry, 152B34:421
 - serpentinites, 149B32:544
 - Tschermak substitutions, 147B14:274
 - X-ray diffraction data, 153A3:86
- clinochrysotile
 - lithology, 180B6:10
 - X-ray diffraction data, 209A9:65
- clinoenstatite, Site 786, 125B10:172, 177
- clinoform bedding
 - Celebes Sea, 124A10:180
 - prograding structure, 121B37:747, 753
- clinoform ramps, Pliocene–Quaternary interval, 182A1:5
- clinoform stacks, sediments, 171B_A1:5–6
- clinoforms
 - lithology, 194A8:4
 - middle Miocene, 174A_A1:8
 - Miocene/Pliocene boundary, 174A_A3:86–88
 - Neogene, 182A1:19–22, 25–33; 182A7:11
 - progradation, 194B5:14–15
 - seismic stratigraphy, 174A_A1:11–12; 4:135
 - sequence stratigraphy, 174A_B(synopsis):2–5
 - upper slope, 166A8:205
- clinohumite, marbles, 161B23:313–314
- clinoptilolite
 - abundance, 114A8:391; 10:563; 114B6:125; 127/128B(2)78:1235–1244
 - alteration, 163A4:42; 183B15:6
 - biogenic component, 189B11:3
 - Bonin-Mariana region, 125B7:118
 - clay, 180B17:20
 - clay mineralogy, 150X_B5:60
 - composition, 129B3:117
 - Cretaceous, 103B35:598
 - Eocene claystones, 123A4:107
 - Eocene–Oligocene precipitation, 119B11:218

- formation and biogenic silica diagenesis, 115B37:688
genesis, 131B14:183
glaucinite, 120B(1)9:121
Indian Ocean equatorial, 115B34:643
Kerguelen-Heard Plateau, 119B11:215
Lima Basin C, 112B5:62
lithology, 165A5:241; 177A5:7; 183A3:6; 4:12; 7:5-6;
207A5:10; 6:10; 210A3:30
Mascarene Plateau, 115B37:687-689, 694
microfabrics, 185B9:7, 9
mineral chemistry, 152B34:419-420
Norwegian Sea, 104A4:99
opal-A/opal-CT transition, 127/128B(1)1:10
opal CT and quartz formation, 115B37:688
origin, 101B11:173
Pacific Ocean W, 124B31:421-422
paleoenvironment, 159A6:176
petrography, 195A4:16
photograph, 183A5:135; 6:100, 105, 117
Pigafetta Basin, 129B1:11, 22; 2:80
precipitation, 150B20:365, 367
pyroclastic sequences, 124B13:184-187
scanning electron microscopy, 127/128B(1)1:30;
(2)80:1294; 129B1:28
sediments, 129B14:270; 136B5:66-68; 141B11:158;
150X_B4:50
siliceous microfossils, 144A3:64
Site 698, 114A5:105
Site 699, 114A6:160, 164, 174
Site 700, 114A7:260, 264, 278, 300; 114B6:126
Site 701, 114A8:388
Site 702, 114A9:497, 501
Site 709, 115B37:687-689
Site 711, 115B37:687-689
Site 748, 120B(1)8:102
Site 765, 123A4:98, 100
Site 796, 127/128B(1)9:139
Site 797, 127A7:344
Site 802, 129B4:124; 14:275
transmission electron microscopy, 129B1:29
tuffs, 129B4:129-130
turbidites, 131A6:95-97
volcanic ash, 127/128B(2)87:1390; 131A6:173-184;
131B14:177
volcaniclastics, 152B9:122
volcanism, 129B3:89
vs. age, 189B11:9-12
vs. depth, 136B5:68; 144A4:126; 5:177; 159B43:590;
181A4:32; 5:38
weathering, 120B(1)8:105
X-ray diffraction data, 129B1:12-15; 3:87; 5:143;
159A6:177; 7:228; 195A4:16-17; 198B16:5
See also microclinoptilolite
clinoptilolite, calcium-rich, Broken Ridge, 121B27:521
clinoptilolite-heulandite series, X-ray diffraction data,
190A5:10
clinopyroxene clasts. *See* clasts, clinopyroxene
clinopyroxene crystals
basalts, 192A4:13-15
composition, 157B14:205
petrography, 192A5:14
photomicrograph, 192A1:49, 69; 3:100; 4:61; 5:68-
69, 77, 88
clinopyroxene glomerocrysts, photomicrograph,
157B12:148; 197A6:47-48, 68
clinopyroxene grains
photomicrograph, 180A9:92; 12:85
volcaniclastic sand, 180B7:5
clinopyroxene groundmass
basalts, 192A5:13
core composition, 200B2:15
grain size vs. depth, 206A3:190
clinopyroxene/hornblende ratio, vs. depth, 180B7:30-
33, 36, 39-42
clinopyroxene number
vs. calcium number, 176B8:24
vs. chromium, 176B8:25
vs. magnesium number, 176B8:24
vs. nickel, 176B8:25
vs. niobium, 176B8:26
vs. scandium, 176B8:23
vs. strontium, 176B8:26
vs. titanium oxide, 176B8:25
vs. vanadium, 176B8:25
vs. yttrium, 176B8:26
vs. zirconium, 176B8:26
clinopyroxene-olivine-opaque minerals diagram, modal
composition, 179A4:107
clinopyroxene-olivine-plagioclase diagram, modal com-
position, 179A4:107
clinopyroxene-olivine-plagioclase system, phase equilib-
ria, 135B27:497
clinopyroxene/orthopyroxene ratio, vs. calcium oxide,
153A3:77
clinopyroxene paradox, gabbros, 179B(synthesis):30
clinopyroxene phenocrysts. *See* phenocrysts, clinopyrox-
ene
clinopyroxene-plagioclase-olivine diagram, phase equi-
libria, 135B32:561-563
clinopyroxenes
abundance, 111A3:125
actinolite replacement, 118A6:138
alteration, 111A3:63, 67; 111B3:28; 5:49; 6:62, 64;
124B20:278; 147A3:69, 71; 4:129-131;
147B11:216; 148A2:47; 148B12:173; 34:428;
153A4:151, 153; 5:196-197; 6:236; 7:267;
157B12:150; 176A3:40, 136; 176B4:7-8;
179A2:5; 183A4:21; 187A7:5-8; 13:8-11;
192A3:29-32
aluminum vs. sodium, 153B12:271
aluminum oxide vs. titanium oxide, 118B1:17;
153B13:283
amphibolite clasts, 173A7:190-191
andesites, 180A7:13-14
ash fall layers, 157B14:203-204
Atlantis Bank, 118B4:82; 8:180
backscattered electron images, 153B7:139-141;
178B22:16; 179B(synthesis):84
Baffin Bay, 105B3:41
basaltic andesites, 135A(1)11:630-631; 135B32:559-
562

- basalts, 131A6:153; 131B16:200; 134A8:153;
135A(1)4:143–146; 137A2:24–27; 142A4:57–60;
143B16:264–268; 144A4:132–135; 144B29:497–
502; 145B22:336, 338; 151A5:78–79;
152B33:404–405; 169A6:271; 183A4:17–19;
5:31; 187A1:8–9; 191A4:27; 195B8:15;
197A5:10; 206A1:28–30; 210B9:14–15
- basement, 123A4:179, 183; 123B10:207; 161A6:215;
173A1:13; 183A1:17; 6:47; 7:37–39; 8:17–18;
196A3:31
- black crystals, 169A5:212–214
- Cagayan Ridge, 124A11:255; 12:313–314; 14:403
- calcium number vs. magnesium number, 176B8:24
- calc-silicate rocks, 161B18:254–255
- Celebes Sea, 124A10:141–142, 168; 124B26:362–369
- chemical composition, 103B12:198–201; 16:242;
17:255–259; 106/109B2:13; 3:20, 24; 4:30–36;
5:50; 8:90–91, 95; 118B3:57–59, 69;
119B16:304, 317; 120B(1)10:141; 124B19:255,
258; 35:469; 134B16:342–344; 17:356–357;
135B6:92–94; 25:467–468; 26:474–475; 27:489–
503; 29:521–524; 30:534–538, 541; 137/
140B20:238; 139B6:100; 148B11:153–154;
157B15:246–249; 17:305–307; 22:380; 176B4:9–
10; 6:21, 71–73
- chemical modifications in peridotite, 153B11:260
- chloritized metabasite clasts, 173A7:191–192
- chromium vs. cerium/ytterbium ratio, 153B13:283
- chromium oxide, 111A3:58; 118B1:6–7; 153B27:488–
489
- classification, 176B4:33
- clastic mineral phases, 157B15:234
- clasts, 173A9:283–284
- composition, 147B2:26–27, 40–41; 3:64; 8:168; 9:176;
10:197; 15:301–302; 149B27:479; 157B12:150;
22:389; 163X_A8:23; 176B4:34; 180B8:19;
200B3:29–31
- Costa Rica Rift, 111A3:52–57, 124; 111B2:18; 3:32;
11:122–124
- crust, 152B28:344
- crystal mush, 176B10:23–25
- crystal-plastic fabric, 153A3:95
- crystallization, 111A3:59; 142B6:42–43; 158B17:220–
225
- cumulates, 179A4:42
- deformation features, 118A6:130; 206A3:73–74
- diabases, 180A12:26; 180B3:6–7; 210A3:243
- dikelets, 153B11:249–251
- electron microprobe data, 104B19:372; 111A3:58;
111B2:23; 5:50; 143B15:250–251; 195B8:22–23;
209B2:1–13
- equilibrium with orthopyroxene, 106/109B4:40
- exsolution lamellae, 118B1:4
- felsic rocks, 118A6:117
- ferrobasalts, 200B3:3–6, 21
- formation temperature, 176B4:11–12
- fractionation, 111B1:13; 124B35:476
- gabbros, 118B2:25; 147A3:60–61; 176B8:3–14; 10:11–
12; 147B1:5; 15:294; 153A4:126–141; 5:181–
193; 6:218–231; 153B17:335–336, 339, 348;
27:473, 477–478; 180A11:5–8; 180B3:7;
205A4:27–28; 209A3:8–9
- Galicia margin W, 103B13:213–219
- geochemistry, 115B3:31, 34, 38; 131B16:202, 204;
137/140B6:67–72; 11:121–130; 147B3:60;
149B27:473–488; 157B12:161–162; 22:394–395;
176B8:43–48; 10:57; 192A3:28–29; 195B6:6–7
- glomerocrysts, 201A12:11
- Gortani Ridge, 107B4:61; 5:77, 80, 81
- grain size, 176A3:113; 206B5:22–23; 209A9:51
- groundmass, 106/109A4:52–56; 6:164–167;
206A3:57–59
- harzburgites, 195A3:16–17; 209A3:6
- histograms of composition, 147B10:196
- hydration, 103B16:242, 245–246, 248
- hydrothermal alteration, 137/140B14:157; 209A6:10–
11; 9:7–11
- igneous rocks, 139A7:337; 143B15:247, 251;
163X_A6:21–23
- impregnation in dunites, 147B14:260; 20:362
- inclusions, 157B22:375–401; 23:403–410; 24:416
- intergrowths with orthopyroxene, 118B3:44
- intrusions, 176B10:18–19
- inverted pigeonite, 118B3:47, 49, 71
- ion microprobe data, 147B2:29
- iron oxide vs. samarium, 153B17:347
- iron-titanium oxide gabbros, 118A6:113; 118B3:44
- lamprophyres, 180A7:15
- lanthanum/ytterbium ratio, 153B10:231–232; 18:359
- late differentiation, 118B4:97
- lava, 197A5:14; 6:12–13; 206B5:2–3
- lherzolites, 195A3:18
- lithology, 163X_A5:4; 176B6:3, 5–14; 179A4:31–34;
179B(synthesis):9–11, 22–26, 44; 180A5:13;
187A3:5–6; 6:4–5; 9:4–5; 11:4–7; 14:3; 15:3–7;
198A9:12–13; 209A5:4–8; 6:3–10; 9:2–7; 10:7–
10
- low-pressure fractionation, 123B42:794
- mafic and ultramafic rocks, 153B10:184–185, 189
- magmatic-tectonite textures, 179A4:51–52
- magmatic differentiation, 153B11:261
- magmatic veins, 206A3:63–64
- magnesium number, 118B1:18; 3:62; 153B5:96, 98;
10:217; 11:251, 254; 13:281; 17:339, 340;
176B10:43, 44; 179B(synthesis):91
- magnetic susceptibility, 176B11:64
- major oxides, 149B21:392–393; 153B10:212;
179B(synthesis):117–119
- manganese oxide vs. iron content, 118B4:91
- Marsili Basin, 107B4:56, 61
- Mascarene Plateau, 115A10:756
- mass balance, 169A3:96, 98–99
- melting, 103B17:264; 127/128B(2)56:895
- meta-anorthosite clasts, 173A7:191
- metadiabase, 180A7:14–15; 8:17–18
- metagabbro clasts, 173A7:191
- metamorphism, 118B8:160; 153B22:401–404
- microstructures, 106/109B5:49–50, 54
- Mid-Atlantic Ridge, 106/109A8:206–207
- mid-ocean-ridge basalt, 187B2:4

- mineral chemistry, 115B3:30; 118B1:14–15;
 124B11:282; 125B16:299; 134B18:366–367;
 143B16:268; 144B33:570–507, 514–527;
 147B7:141; 9:174–179; 11:216; 14:261; 15:299;
 153B9:158–160, 177; 26:462–464; 28:499–500,
 535–538; 157B22:379; 176B10:15; 179B2:10–14;
 180B3:18–19; 8:10; 193B2:8–9; 200B3:7
- mineral/melt partition, 153B10:219
- mineral zoning, 103B17:259–260, 264; 118B1:5
- minor elements, 104B22:425; 118B3:51, 53, 65; 4:97
- modal composition, 118A6:116; 135B25:430–455;
 147B6:108–109; 153A4:150; 6:241; 176A3:18,
 115; 176B3:4–5
- mylonites, 180A11:5
- Nazareth Bank, 115A10:754, 756; 115B3:28
- neoblasts, 176B9:17–19
- Ninetyeast Ridge, 121B30:570–571; 32:623, 656
- Norwegian Sea, 104A4:83, 94, 114
- oikocrysts, 118A6:109, 121, 124; 135A(1)4:137
- olivine gabbros, 118A6:126; 118B2:25; 176B4:6–7,
 49–50
- orthopyroxenite, 209A3:7–8
- pegmatites, 173A9:280
- peridotites, 125B28:500; 30:522–523; 149A4:77, 79;
 153A3:52–58, 60; 153B12:269–270; 13:278;
 14:291–293; 29:509–511, 514–515
- petrography, 125B10:172; 134A9:198–199; 10:276–
 277; 11:336–338; 12:412–414; 135A(1)5:219–
 220, 222; 8:369–371; 9:433–448; 137/140B3:36;
 139B6:81–84; 143A6:141; 144A10:371, 373–
 374; 147A4:126; 161B27:357–359; 179A4:38–
 41; 179B2:6–9, 14–21; 187A12:4; 13:5;
 192A3:27; 200A4:30–36
- petrology, 139A5:130, 132, 135–138; 144A6:236
- phase equilibria, 153B31:536
- phenocrysts, 121A10:275; 11:323; 121B32:625;
 135A(1)4:147; 6:267–268; 142B1:4–5
- photograph, 135A(1)4:142; 9:442; 139A5:142–144;
 142A3:47; 147A4:118, 132, 135; 147B7:154–
 155; 10:210; 148A2:40; 149B21:382, 388;
 152B8:113; 153A3:55, 64, 70, 89–90; 4:129–132,
 137–138, 155, 158; 5:183, 186, 188, 200–201;
 6:221–224, 227–230, 237, 243–244; 7:262, 264,
 268; 153B5:84; 6:117; 7:125, 137–141; 8:146–
 149; 9:158, 160, 166–167, 170, 174; 11:245,
 248; 22:403; 29:520–521; 157B12:177;
 165A6:329; 169A3:92; 173A9:280; 176A1:61;
 3:148; 179A4:126, 139–140; 193A1:77;
 209A3:85; 6:55; 7:55
- photomicrograph, 157A7:356; 8:416; 9:457;
 157B12:149; 13:199; 161B18:260–261; 27:362;
 163X_A4:20; 5:10; 165A6:329; 173A9:283;
 176A3:127; 176B4:23–24, 28–32, 39–40;
 179A4:113–115, 122, 133, 137–138, 141, 143;
 180A7:31, 33, 37, 43, 56–57, 59–61, 79; 9:82–86,
 89–90; 11:27; 12:92–94; 180B3:26–28; 7:51–58;
 183A4:47, 53; 6:130; 8:54; 9:83; 187A1:32; 3:15,
 18; 7:25; 8:29; 9:16, 19; 11:14, 25; 12:17–18;
 13:20–21, 27, 30, 35; 14:14; 15:14, 16, 25–26;
 187B5:21; 191A4:102–104; 192A3:93–94, 103–
 106; 4:65–68, 78; 6:68–71; 7:30, 32, 39;
 195A3:80, 87; 4:105–109; 195B8:12–13;
 197A4:53–56; 5:53; 198A9:63–64; 200A3:88;
 4:106–108; 205A1:58–59; 4:89–90, 99, 106, 109,
 113; 206A3:212, 220; 206B5:17–21; 209A3:64–
 66, 69, 86, 88, 106; 5:58, 64, 66, 75, 91, 112–
 114, 117–118; 6:84; 7:54, 57, 82; 9:44–50, 55,
 70; 10:63–65, 75–77, 91–92; 209B1:27
- pillow basalts, 187A5:3
- “placer sands,” 157B12:149
- plutonic rocks, 118B1:10–11; 153B11:256–260
- porphyroclasts, 118A5:70; 6:104; 179A4:53
- position in basalt, 195B8:19
- pyroclastic sequences, 124B13:187
- quenching, 209A4:3
- rare earths, 125B38:638; 147B6:112; 153B17:344
- recrystallization, 118A4:69; 118B8:174; 153B6:101–
 105; 8:144–145; 206A3:60
- relict crystals, 118A5:85; 163A3:27
- replacement, 118A4:65–66, 69; 5:78; 6:136–137;
 118B8:171; 173A4:200
- sand fraction, 157B17:302
- sandstone, 180B7:9, 16–21
- Sardinian margin, 107B4:53, 61
- scanning electron images, 187B7:20
- secondary minerals, 137/140B14:160; 15:169–171;
 140A2:69; 148B6:77, 80–81; 180B3:8
- sediments, 146A(1)6:253
- segregation, 121B32:624
- Serocki Volcano, 106/109A4:59, 63
- serpentinization, 153B20:382; 173A7:192–193; 9:280–
 282
- sheeted dike complexes, 148B33:410–411
- silicates, 197A4:15–16
- sill zoning, 139B6:86, 94; 169A3:91–93; 210A3:67
- Site 701, 114B40:739
- Site 713, 115A10:754, 756
- Site 747, 120A6:133–136
- Site 748, 120A7:222
- Site 749, 120A8:267–268
- Site 750, 120A9:321
- Site 779, 125B30:526
- Site 786, 125B10:179–180
- size, 106/109A8:209–210; 106/109B3:19; 5:47; 8:86,
 92; 111B5:48
- Snake Pit hydrothermal area, 106/109A5:148
- sodium vs. titanium, 153B12:270
- sodium oxide, 118B3:51; 153B10:231–234
- stratigraphic depth, 147B1:7
- strontium isotopes, 118B6:131–132
- sulfides, 176B7:6
- Sulu Sea, 124A11:253, 255, 259–263
- tectono-magmatic discrimination diagram, 195B8:20
- temperature effects, 103B16:248
- ternary diagrams, 144B29:511
- textures, 106/109A4:56; 106/109B1:4; 118A6:116;
 176A3:63; 176B4:8–9, 12
- titanium oxide, 118B1:6; 4:80; 205B9:25
- titanium, 118B1:12, 17
- trace elements, 125B28:492–498; 144B30:532
- transmission electron microscopy, 147B13:245
- troctolites, 118B26:447; 147B6:123–127; 14:267, 268

- Tyrrhenian Sea, 107B4:56, 61; 5:77, 80–81
ultramafic clasts, 125A6:102
ultramafic rocks, 125B26:436; 147B14:260–261;
149B21:382
veins, 176A3:41–42; 179A4:55
volcanics, 127/128B(2)87:1379; 134B16:339, 342,
344; 19:380–381; 21:405–407; 135A(1)9:450;
141B28:351; 145B23:349, 381; 151B17:315;
163X_A8:7–8
volcaniclastics, 157A10:520–521; 157B13:187;
180B7:6–7
vs. depth, 146B(1)2:39–42; 153A3:76; 6:239; 7:267;
153B11:255; 176B6:32; 10:38, 45–51; 183A4:46;
5:99; 186A5:53
vs. major elements, 176B10:39
vs. stratigraphic depth, 147B1:7
websterite, 153B16:324
xenoliths, 193B6:2–3
X-ray diffraction data, 209A10:80
X-ray fluorescence data, 152B35:428
ytterbium/scandium ratio vs. lanthanum/scandium
ratio, 153B18:359
zirconium in cumulus, 118B4:79–80
zirconium/titanium ratio, 125B38:643
zoning, 176B10:12
See also augite; basalts, olivine-plagioclase-clinopyrox-
ene phyric; diopside; ferro-augite; gabbros;
hedenbergite; jadeite; neodymium isotopes
(clinopyroxene); olivine-clinopyroxene-quartz
diagram; oxygen isotopes (clinopyroxene); pi-
geonite; plagioclase/clinopyroxene ratio; stron-
tium isotopes (clinopyroxene)
- clinopyroxenes, acicular
mesostasis, 135A(1)4:146
photomicrograph, 197A3:82
upper alteration zone, 192A5:16
clinopyroxenes, altered, alteration vs. depth, 176A3:140
clinopyroxenes, anhedral
lithology, 200A3:15–19
petrography, 187A8:3–4
photomicrograph, 187A3:16; 5:13; 200A4:105
clinopyroxenes, augen
photomicrograph, 209A6:86
Southwest Indian Ridge, 118A6:107
clinopyroxenes, coarse-grained, photograph, 153A4:128
clinopyroxenes, degree of recrystallization, 153B8:145
clinopyroxenes, diopsidic, mineral inclusions,
147B7:142
clinopyroxenes, elongate, photomicrograph,
179A4:127–128; 187A8:28
clinopyroxenes, equigranular, photomicrograph,
206A3:189
clinopyroxenes, euhedral, photomicrograph, 187A8:15;
14:15; 200A3:85; 4:104; 209A5:62; 9:50
clinopyroxenes, fresh/original clinopyroxene,
147B29:488
clinopyroxenes, granular
lithology, 187A11:4–5
photomicrograph, 206A3:186
clinopyroxenes, igneous, composition, 153B5:80–86
clinopyroxenes, intergranular, photomicrograph,
180B7:55–56; 209A7:57
clinopyroxenes, interstitial
lithology, 209A9:7
residual peridotites, 209B1:7–8
clinopyroxenes, oikocrystic, photomicrograph,
179A4:109, 129
clinopyroxenes, ophitic
lithology, 209A6:7
photomicrograph, 169A5:215; 209A6:61
clinopyroxenes, pegmatitic, photograph, 153B22:402
clinopyroxenes, plumose, photomicrograph, 206A3:180;
206B5:8
clinopyroxenes, poikilitic
lithology, 179A4:31; 142A4:67; 153A4:127; 153B2:34
photomicrograph, 179A1:23; 4:110; 209A6:59; 9:45
clinopyroxenes, quench
petrology, 209A8:2
photomicrograph, 209A4:11
clinopyroxenes, recrystallized
composition, 153B5:81–82, 85–86
photograph, 209A3:105
clinopyroxenes, secondary
alteration, 147B13:237–238; 176A3:140
amphibole fluid inclusions, 147A3:76–78
clinopyroxenes, skeletal, groundmass, 135A(1)6:276
clinopyroxenes, spherulitic, photomicrograph, 195B8:13
clinopyroxenes, subophitic
lithology, 209A7:4
photomicrograph, 169A3:94; 6:271
clinopyroxenes, variolitic
composition, 129B5:141; 17:316–317
mineral chemistry, 129B17:308, 312–313
petrography, 129B17:306; 18:346; 19:363–364
Pigafetta Basin, 129B5:138, 148; 17:307
Site 802, 129B4:120
tholeiites, 129B19:321, 326–327, 371
titaniferous diopside/augite, 129B17:325
See also hedenbergite; olivine-clinopyroxene-quartz
diagram
clinopyroxenes, zoned, photomicrograph, 180A11:19–
20
clinopyroxenites
abundance and composition, 176A3:258–259
alteration, 153A3:80–81
lithology and bulk chemistry, 153B10:186–198
petrology, 153A3:48–51, 62–63
photograph, 153A3:54
clinozoisite
alteration minerals, 135A(1)11:644
basement/sediment contact, 161A6:215; 161B18:256
calcium metasomatism, 209A3:20
metamorphism, 161B18:258
secondary minerals, 180B3:8
closure, gateways, 167B32:371–372
clots, glomeroporphyritic
basalts, 168A4:65
petrology, 168A5:119
photomicrograph, 168A5:124
phyric and aphyric basalts, 168A5:122–123
pillow basalts, 168A6:172–173

- clots, vesicular
 basement units, 183A6:38–39
 photograph, 183A6:98
- clotted structures, lithology, 166A8:178
- cluster analysis
 Argo Abyssal Plain-Exmouth Plateau, 123B33:603
 benthic foraminifers, 146B(1)5:91, 112; 175B19:18
 biofacies, 150X_B16:214
 Japan Sea, 127/128B(1)29:525–526, 531, 535
 microfacies and geochemistry data, 143B13:222
 original log curves, 159B16:162–164
 paleoclimatology, 157B7:75–82
 principal component scores, 159B16:164–165
 sequences, 150X_B19:272–273
 well-logging, 171A_B2:6
- cluster analysis, hierarchical, geochemical logs,
 159B18:177–178
- cluster analysis, nonhierarchical
 Atlantis Bank, 118B15:273–275
 well-logging, 159B16:161–165
- cluster logs
 comparative overview, 171A_B2:18–19
 statistical methods, 171A_B2:8, 13–18
 vs. depth, 171A_B2:13–17
- CMAS. *See* calcium oxide-magnesium oxide-aluminum
 oxide-silica
- Cnidaria. *See* hydrozoans
- CNT. *See* compensated neutron tool
- CNT-G. *See* compensated neutron tool
- coal
 composition, 180A6:60
 diagenesis, 188B1:19–20
 geology, 188A1:8–9
 hypautochthonous origin, 180B10:10–11
 Kerguelen Plateau, 120B(1)18:273
 lithology, 151A11:359–360; 174AXS_A4:12;
 180A6:26; 9:19
 Owen Ridge, 117A10:288
 paleoenvironment, 151A13:418–419
 Permian Amery group, 119B45:795
 photomicrograph, 180B10:30–32
 Site 741, 119B4:57–60; 46:836–837; 120A5:82
 Site 750, 120A9:293–295
 smear slides, 188A4:15
 See also inertinite; inertite; macerals; vitrinite
- coal, shaly
 hypautochthonous origin, 180B10:10–11
 photomicrograph, 180B10:30–31
- coal chips, vs. depth, 178B28:13
- coal flasers
 lithology, 163X_A6:20
 preglacial sedimentary basin fillings, 163X_A8:4–5
- coal fragments
 photograph, 151B32:573
 vs. depth, 151B31:555
- coal fragments, black, accessory component, 188B4:16,
 19
- coalification, phytoclasts, 180B10:11–12
- coalingite
 Site 778, 125B19:355
 ultramafic rocks, 125B26:438
- See also* alteration; brucite; serpentinite
- coarse fraction
 biogenic component, 151B31:520, 523, 562, 565;
 178B15:10
 carbonate content, 208B1:51
 composite depth, 121B15:306–310, 316–328, 340–
 355
 data, 178B13:17–19
 glacial–interglacial cycles, 121B15:311
 grain size, 188B9:10
 lithology, 202A3:6–9, 43–46
 mass accumulation rates, 151B32:573; 154B18:281;
 19:296
 Paleocene/Eocene Thermal Maximum, 198B8:4–12,
 21–28
 paleoclimatology, 151B31:515–567
 sedimentation rates, 178B15:19
 sediments, 159B43:591–592; 181B3:11–19; 184B16:9;
 188B9:1–16; 198B10:17
 terrigenous component, 151B31:521, 563, 566;
 178B15:11
 terrigenous/volcanic and authigenic component,
 151B31:560–561, 564; 32:579, 581
 vs. age, 178A4:7–8; 178B15:9, 11; 181B3:9; 184B16:7;
 195B3:27; 202B3:14
 vs. carbonate content, 154B18:280; 19:287–289
 vs. depth, 151B31:519, 522; 32:578, 580; 182B9:12;
 184B11:14; 16:5–6; 199B8:9; 202A3:24–25, 30
 vs. distance above base of Paleocene/Eocene Thermal
 Maximum, 198B8:21–23
 vs. distance above lithologic change, 198B8:19
 weight percentage, 188B9:7, 9
 winnowing effect, 121B15:309
 See also fine fraction; grain size; mass accumulation
 rates
- coarse-grained sandstone. *See* sandstone, coarse-grained
- coarsening-upward sequences
 Prydz Bay, 119B3:47, 50
 relation to fining-upward sequences, 119B4:57
 sandstone, 119B3:45
- coastal environment, radiolarians, 178B33:1–14
- coastal plains
 Cenozoic, 150X_B27:361–373
 geology, 174AXS_A(summary):1–38
 New Jersey margin, 150A1:5–9
 stratigraphy, 150X_A1:3–13
- coastal sedimentation. *See* sedimentation, coastal
- cobalt
 alteration, 193B1:49; 197A3:29
 anoxic depositional environment, 119B39:724
 carbonates, 168B11:141
 clay geochemistry, 184B12:10
 Cretaceous/Tertiary boundary, 119B39:724; 207B1:23
 diabases, 137/140B9:108; 180A6:36
 diagenesis, 156B12:168
 element correlations, 158B27:378–381, 384–385
 gabbros, 176B8:4–14
 hydrothermal sequences, 145B27:418, 421–422;
 199B15:3
 igneous rocks, 209A5:36
 Indian Ocean, 115B39:710

- jasperoids, 193B9:6
manganese nodules, 138B40:808
metasedimentary rocks, 152B10:136
mineral separates, 158B2:30, 33, 37, 39; 27:370–376
mobility, 183B15:9–10
Paleocene/Eocene boundary, 199B16:3
pentlandite vs. depth, 176B7:20
percent change from protolith, 137/140B17:203
peridotites, 209A9:18–19
pore water, 116B13:146, 153; 193B4:5
pyrite, 158B1:12
saponite, 168B12:154
scandium-normalized distribution, 119B39:724
sediments, 145B28:428–431; 167B23:265; 205B3:4
submarine ferromanganese hardgrounds, 194B8:5–6, 22
sulfides, 118B5:115; 121B32:629; 158B1:19; 3:44; 28:405; 176B7:6–9; 193B10:4; 209B3:4
turbidites, 135B10:155–158
volcanic rocks, 161B27:364–369
vs. alteration percentage, 137/140B9:109
vs. barium, 205B3:13
vs. copper, 158B28:398
vs. depth, 131B28:350, 356–357; 135B7:116, 127; 139B11:230–250; 15:359–367; 156B12:167, 170; 158B4:54–62; 27:374–376; 160B16:201; 164B19:158; 199B15:5; 16:6; 200B2:14
vs. magnesium oxide, 200B2:11
vs. manganese in bulk sediments, 199B14:16
vs. platinum-palladium series, 147B4:85
vs. selenium, 158B28:398
vs. water content, 158B19:265
vs. zirconium, 197A3:108
X-ray fluorescence data, 152B35:427
See also calcium/cobalt ratio; (copper-cobalt-nickel)-iron-manganese system; zinc-copper-nickel-cobalt-chromium diagram
cobalt, postoxic conditions, 157B32:567–569
cobalt/aluminum oxide ratio, vs. depth, 131B35:444
cobalt/aluminum ratio
vs. age, 184B12:24
vs. depth, 157B32:568
cobalt-copper-zinc diagram, ferromanganese crusts, 144B44:754
cobalt/hafnium ratio, vs. cerium/chromium ratio, 154B31:470
cobalt/iron ratio, Cretaceous/Tertiary boundary, 121B19:420–421
cobalt-nickel-copper diagram, ferromanganese crusts, 144B44:753
cobalt/nickel ratio, vs. iron/manganese ratio, 144B44:754
cobalt/zirconium ratio
alteration, 197A3:29; 4:22–23; 5:19–20; 6:16–17
vs. depth, 197A3:107; 4:77–78; 5:75; 6:78
Cobb Mountain Subchron
Celebes Sea, 124A10:149
comparison with biostratigraphy, 151A10:332
core orientation data, 135A(1)8:363
magnetic excursions, 172A6:266
magnetic polarity, 135A(1)9:423–424; 172B(overview):7; 180A6:51; 6:22; 7:28; 9:17
magnetostratigraphy, 130B32:551–552; 135B46:737–762; 54:860–861; 138B38:785, 788, 791, 794; 149A5:129; 160B5:64, 72; 167A(1)4:71; 6:141; 7:165; 162A3:71; 5:154; 162B8:114; 172A3:46; 7:316–317; 173B11:10; 174A_A4:120; 180A1:4; 9:38; 175A10:292; 178A4:12, 18; 178B36:8, 11; 37:10, 16; 181A8:25–27; 191A1:16–17; 4:25; 208A3:18
Oman margin S, 117A14:454; 117B7:172
Owen Ridge, 117B8:163
sediments, 135A(1)7:311; 149B16:322, 327, 333
Sierra Leone Rise, 108A10:749
stratigraphy, 151A10:331
Site 737, 119B43:754
Site 745, 119B41:753
Site 834, 135A(1)4:119
Site 852, 138A(2)17:992
volcaniclastics, 157A7:349
Cobb propagator, geochemistry, 139A5:136
cobbles
basement units, 183A1:21, 24; 5:7, 16–17, 25; 7:14–35; 9:16, 19
biostratigraphy, 120B(2)53:952–953
chemical composition, 183A1:80
components vs. age, 151B31:564
Formation MicroScanner imagery, 183A5:165
lithology, 134A12:406; 152A10:170–173; 163A5:52; 163B7:68; 163X_A4:7; 170A7:220; 180A10:7–8; 209A7:2–3
petrology, 120A7:220; 152A7:80–81
photograph, 149A4:87; 6:174; 170A7:223; 205A5:54; 6:32, 34
photomicrograph, 185A4:65; 205A5:55
sedimentation, 205A5:15
seismic stratigraphy, 120A7:225
Site 747, 120A6:102
Site 748, 120A7:175, 228; 120B(1)8:100; 9:133
terrigenous/volcanic and authigenic components vs. depth, 151B31:560–561; 32:579, 581
volcaniclastics, 180B8:5–6
vs. depth, 151B31:519, 522; 32:578, 580
cobbles, aphyric flow-banded dacite, basement, 183A6:23, 36, 46–47
cobbles, basaltic
basement, 183A6:27, 37–38
conglomerate, 180A1:6
cobbles, breccia, basement, 183A7:14, 25
cobbles, clinopyroxene, photograph, 141A6:86
cobbles, dacite
alteration, 183A6:50
composition, 183A1:37
lava structures, 183A6:22
photomicrograph, 183A6:125
cobbles, diorite, photograph, 141A6:86
cobbles, hawaiite, photomicrograph, 197A5:59–60
cobbles, pumice, photomicrograph, 185A4:65
cobbles, recrystallized limestone, photograph, 192A3:77
cobblestone topography
geology, 160A10:337

- Pliocene-Quaternary interval, 160A5:88
 coccooid cells, "peachy orange slime," 204A10:19, 64
 coccolithophores
 alkenone stratigraphy, 184B17:1-17
 Mascarene Plateau, 115A16:237
 organic-rich layers, 161B30:395-396
 Site 799, 128A5:310
 coccoliths
 alkenoates, 175B5:6-7
 alkenones, 167B10:153-161
 calcite, 203A3:8
 carbonate content, 162B12:181-183, 185-189
 Cenozoic, 133A(1)4:101
 cyclostratigraphy, 207B2:14
 distribution, 155B5:88
 diversity vs. age, 167B27:308
 eolian sediments, 200A4:24-25
 grain percentage, 151B30:513-514
 lithology, 167A(1)4:55; 194A3:6
 lysocline, 135B11:169-170
 Neogene, 130B11:179-229
 paleoceanography, 180A6:45
 photograph, 167B15:210-211
 photomicrograph, 200A1:47; 4:93
 preservation, 168B4:43-44
 reticulofenestrads, 133B18:255-261
 sediments, 175A6:166-167; 175B10:7-10; 17:2-3
 Site 717, 116A4:56
 Site 799, 128A5:307, 309
 Site 883, 145B41:642
 Sites 811, 815, and 817, 133A(1)4:101; 133B18:255-261
 size and biostratigraphic evolution, 171B_B7:8
 textures, 201B14:7-11
 vs. age, 151B30:499-501
 vs. depth, 151B30:496-497; 162B12:182, 184; 184A5:44; 197A3:52
 See also Biscutaceae; Chiastozygaceae; coccolithophores; holococcolith type A; holococcoliths; nannofossils
 Cochiti Subchron
 biostratigraphy, 181A9:11
 carbonate platforms, 166A3:31
 correlation, 145B34:497
 gamma ray attenuation density, 138A(1)6:88
 magnetostratigraphy, 132B3:43, 53; 135A(1)5:209; 11:615; 135B54:857, 860-861; 138B38:781; 160A7:179; 10:356-357; 167A(1)4:71; 173B11:13; 181A7:28; 194A4:18-19; 201B16:4, 7
 Oman margin S, 117B5:132; 8:175
 sedimentation rates, 162A7:242
 sediments, 202A8:21
 Site 745, 119B43:753; 46:818
 Site 797, 127/128B(2)77:1223
 Site 834, 135A(1)4:118
 Site 846, 138B15:348
 Site 851, 138A(2)16:912-916, 924-927; 138B6:84
 Site 852, 138A(2)17:990-993
 Site 853, 138A(2)18:1038-1041
 Site 881, 145A3:51
 timescales, 138B6:86-87
 Codiaceae
 photograph, 144B16:331
 See also algae
 coefficient of consolidation, vs. vertical consolidation stress, 204B12:31-47
 coefficient of rebound, vs. void ratio, 138B16:364
 coenzymes, microbial activity, 205B8:7-8
 coercivity
 basalts, 136B12:149; 142A4:61-63; 148B38:471; 165B9:159-162; 187B7:6; 197A4:26-27, 88; 5:78; 6:19; 198B20:5, 11; 206A3:84-85
 basement, 197A3:34
 deep-sea sediments, 185B7:6
 demagnetization, 141B5:64; 174A_A3:69; 206A3:291-299; 208A4:17
 dissolution, 167A(1)15:442
 hardground, 194A5:15
 hysteresis, 173B8:8; 183B1:3-4; 12:7-8, 17; 13:4-5; 187B7:19
 igneous rocks, 198B20:4
 iron sulfides, 155B13:249
 isothermal remanent magnetization, 188A3:115
 lava, 144B36:624
 lithology, 197A5:21-22
 magnetic intensity, 160A15:500
 magnetic minerals, 130B31:535; 164A7:191-192; 164B38:403-404; 178B14:3, 8
 magnetostratigraphy, 188A5:21-22
 overprinting, 178A4:16-17
 paleomagnetism, 203B1:5
 ratio vs. depth, 184B1:8
 remanent magnetization, 133B38:557-558; 137/140B23:266; 166B4:37; 175B13:4-5; 196A3:32-33
 rock magnetism, 180B20:1-15; 186A4:32-35
 sediments, 132B3:39; 133B39:569-570; 145B31:473; 150B19:349-358; 151A6:126; 159A5:94-95; 163A3:26; 164A5:85-86; 6:121; 8:261; 164B38:404; 182A1:13; 186A5:22; 208B4:4-6
 spectral analysis, 133B40:573, 575; 50:752
 vs. depth, 148B12:181; 180B20:8-10; 184B1:8; 185B7:13
 See also remanent coercivity
 coercivity/bulk coercivity ratio, vs. depth, 137/140B22:258; 147B21:380
 coercivity remanence, hysteresis, 184B1:3-4, 8
 coercivity remanence/coercivity ratio
 hysteresis, 184B1:3-4
 vs. depth, 184B1:8
 coercivity spectra
 demagnetization, 164A5:85
 sediments, 164A6:121-122; 164B38:405, 407, 408
 cofactors, microbial activity, 205B8:7-8
 coesite, diagenesis, 150X_B3:31
 coherence function, velocity, 183A5:155
 coherency, magnetic susceptibility, 162B20:269
 coiling direction ratio
 foraminifers, 127/128B(1)27:459; 134B11:255-256; 139B2:47-50, 53

- Neogloboquadrina pachyderma*, 167A(1)6:136; 7:187;
 10:249; 11:294; 12:323; 13:361
- North Pacific foraminifers, 127/128B(1)27:459
- oxygen isotopes, 127/128B(1)27:467
- paleoclimatology, 127/128B(1)27:463, 467–468
- planktonic foraminifers, 127/128B(1)12:188, 193,
 208–215, 218–219; 128A4:165; 5:310–311
- Site 798, 127/128B(1)27:460
- surface water temperature, 127/128B(2)77:1220
- warm/cold events, 127/128B(1)27:463–465
- colatitude arcs
- basalts, 191B8:8, 20; 198B20:13
 - vs. depth, 191B7:15; 8:14, 16, 18
- cold water
- fractionation, 175B(synthesis):44–45
 - See warm/cold water ratio
- collapse calderas, transform volcanos, 118B21:366
- collinite, photomicrograph, 180B10:22
- collision zones
- accretionary prisms, 141B25:314–319
 - bathymetric maps, 141A10:346
 - Cagayan Ridge-South China Sea margin, 124B4:54
 - deformation, 134A4:43–53; 134B35:609–621
 - drilling, 134A14:576
 - extensional basins, 161A1:5–11; 161B23:310
 - Izu-Bonin arc, 190A1:37
 - metasedimentary rocks, 190A1:27
 - morphology, 134A2:19–31
 - New Hebrides island arc, 134B1:5–18
 - Philippine Sea plate, 184A1:4
 - physical properties, 134B29:511–530
 - plate boundaries, 135B20:313
 - ridges, 141A2:12–20
 - sediment water content, 134B30:535–536
 - sedimentation, 131B2:29; 141B31:394–396
 - sedimentology, 134B5:73–88; 141B7:100–101
 - shear zones, 134B27:479–490
 - stress, 124A1:5
 - structural interpretation, 134A2:27
 - Sulu Sea, 124A11:199
 - tectonics, 134A10:261–263; 178A2:7–9, 19; 190A2:2
- collisions, ridge crest-trench
- Cenozoic, 178B(synthesis):4–5
 - clay mineralogy, 178B8:16
 - ocean floors, 178A2:35
- colloform banding, photomicrograph, 169A3:72
- colloform texture. See textures, colloform
- collophane, lithology, 207A5:8; 6:9
- collospheerids
- Japan Sea, 127/128B(1)16:296
 - Kerguelen Plateau central, 120B(2)41:805
- color
- age, 175A22:562–563
 - alteration, 148B12:172; 197A4:20
 - basement, 183A6:99–100; 192A3:111
 - bioturbation, 178B3:4–5
 - breccia, 149A6:168–169
 - chert, 198B17:5–6, 9, 14–17
 - color plane, 202A3:29; 4:35; 5:34; 6:37; 7:45; 8:46;
 9:52; 10:50; 11:44; 12:50; 13:42–43
 - correlation, 167B29:329; 172A5:188–189, 194–201;
 6:266–268
 - cycles, 175A17:523, 526; 22:561–567
 - diatoms, 178B3:6–7
 - intensity vs. depth, 166A6:98
 - lithology, 149A4:47–51; 5:120; 6:154–155; 7:216, 218;
 172A3:37–40; 4:84–92; 5:164–165, 168–174;
 6:255–258; 175A3:56; 4:92; 5:119–120; 7:179;
 11:317; 181A1:25; 183A6:5–9; 186A5:16;
 202A3:7–9; 4:7; 5:5–8; 6:6–9; 7:6–10; 8:7–11;
 9:7–11; 10:8–10; 13:7–9
 - magnetic susceptibility, 175A22:563–565
 - nannofossil ooze, 135B52:832
 - obliquity, 175A22:564
 - organic carbon, 178B3:6–7
 - Paleocene/Eocene boundary, 208A3:43
 - palynomorphs, 129B11:223
 - patterns, 175A22:563–565
 - photograph, 175A10:280; 191A4:73; 192A3:50, 72;
 202A4:30; 6:33; 11:41; 12:52; 13:39; 205A6:30
 - reflectance, 155A23:697–700; 175A23:569–577
 - sediments, 138A(1)4:67–77; 149B12:284;
 150B12:229–239; 156A6:105; 167B29:319–329;
 178B3:1–20; 187A6:35; 8:50
 - spectral analysis, 178B25:19–20
 - spectrophotometry, 175A6:154–155; 10:282–283
 - turbidites, 149B12:285
 - vs. age, 167B29:324–328; 175A19:526
 - vs. depth, 163B13:152–153; 167B29:320–321; 12:323;
 32:363; 171B_A4:139; 5:208–210; 6:286–287;
 7:334–337, 355; 182B7:9–12; 183A5:128–129;
 6:140; 8:70; 9:98–99; 186A4:91–92
 - vs. oxygen isotopes, 167B32:363
 - See also chromaticity; color banding; dark–light cy-
 cles; hue; lithofacies/color ratio; red/blue spec-
 tral ratio; red parameter; reflectance; variegated
 color
- color, oxidized calcareous intervals, photograph,
 195A3:71
- color, red-green-blue, composite digital images,
 208A3:40
- color banding
- calcareous vs. noncalcareous sediments, 123B1:27
 - calibration, 188B12:18–19
 - composite section, 188B12:14–15, 21
 - dark–light cycles, 127/128B(1)33:581
 - deformation, 160A9:307, 310
 - diagenesis, 119B3:46; 138A(1)10:199, 204–205;
 192A3:19–20
 - diatom-bearing claystone, 127A6:261
 - fault gouge, 180A11:4
 - ferrous iron correlation, 123B12:234
 - grain size variations, 119B3:49
 - iron, 188A3:53–54
 - Kerguelen sediment ridge, 119A15:539–540;
 119B18:369
 - lithofacies, 127A7:341; 155B40:620, 636–638
 - lithology, 123A4:84–85; 138A(1)9:124–127, 131;
 12:340–344; 144A5:114; 151A6:121–122; 7:166,
 171; 10:322–326; 11:357–359; 154A4:60;
 155A6:92–93; 7:127–130; 10:246, 249; 15:445;

- 16:466–467, 470; 17:508–509; 19:571–572;
 20:595, 599–600; 22:661–663; 159A5:75–77;
 160A12:422; 13:454; 14:471, 474; 160B34:438;
 161A4:59–64; 5:118–121, 125, 128; 6:188–189;
 161B7:85–86; 162A8:263; 164A5:70–73, 77–78;
 8:246; 165A3:53–58; 4:146; 167A(1)4:55; 6:134;
 15:437–438; 168A4:57; 6:167–169; 172A4:87;
 174A_A5:159; 174AXS_A6:45–46; 177A4:6–7;
 178A5:5; 181A3:6–8; 4:4–7; 5:4–6; 7:5–10; 8:6–
 7; 188A4:13–14; 5:8; 189A3:10–15; 192A3:5;
 4:5; 198A4:10–12; 5:10–12; 6:7–10; 7:9–13; 9:10;
 10:6–9; 199A10:7; 202A11:6–10; 207A4:6; 7:7;
 208A3:5–9; 4:6–8; 5:5–6; 6:6–10; 7:5–9; 8:5–9;
 210A3:38
- Miocene–lower Pliocene interval, 198B14:3
- mud, 155B2:11
- mud volcanoes, 195A1:10
- nannofossils vs. radiolarians, 143A9:311
- ooze, 138A(2)14:741, 743
- organic carbon, 127A7:365
- origin, 127A1:19, 24; 7:349
- photograph, 138A(1)12:346; (2)15:849; 16:908–909;
 145A5:132; 8:344; 149A7:237–238; 155A6:97,
 101; 8:181; 9:209; 10:246; 11:279; 12:331;
 13:390; 15:446; 17:510–515; 20:600; 21:639–
 640; 22:664–665; 155B2:12–13; 6:123;
 157A7:337; 10:512; 159A5:77; 160A5:97–100;
 9:308; 10:343; 13:457; 14:476; 161A4:66; 5:122–
 123; 7:308; 171B_A5:186; 181A3:40; 188A3:91–
 92, 138; 4:59; 5:48; 188B12:11–12; 189A7:62;
 192A3:59; 5:38; 6:48; 198A4:42; 6:44;
 202A8:51–54; 9:48; 11:42; 210A3:155, 159, 162,
 166, 185
- photomicrograph, 155A11:280
- sediments, 138A(1)11:280, 285; 165B7:127–128;
 188A3:50–54; 188B7:47; 198A4:79
- sensitivity test vs. depth, 188B12:16–17
- serpentine sediments, 125A11:261
- Site 737, 119A6:170–171; 119B18:357
- Site 765, 123A4:89
- Site 766, 123A5:280–281
- Site 797, 127A7:324, 343
- soft sediments, 133A(1)15:622
- spectral analysis, 188A3:52–53
- tephra, 181A8:52
- turbidites, 135B7:105–106; 10:153–154, 157;
 155B4:74
- vs. color reflectance, 138A(2)14:755
- vs. depth, 138A(1)12:345; 188A3:137; 188B1:38
- See also brightness; compositional banding; lightness;
 redox banding; reflectance; spectral analysis;
 spectrophotometry
- color banding, black
- clay, 103B35:587
- marl, 103B35:587
- color banding, concentric, surrounding a pyritized bur-
 row, 130A7:239
- color banding, fine-scale, nannofossil chalk, 130A10:506
- color banding, green, X-ray diffraction data, 202A8:53
- color banding, Liesegang
- abundance, 130B44:732
- atomic absorption data, 130B27:455–456
- chalk, 130A8:306; 130B27:453–470
- ooze, 130A10:503
- photograph, 130A5:110–111; 6:187; 7:236, 238; 8:307
- sedimentation rates, 130B44:725–726
- sediments, 130A9:386, 388–389
- Site 803, 130A5:118
- Site 804, 130A6:186
- vs. age and depth, 130B27:464
- color bands. See color; color banding
- color change
- core photograph, 199A12:51
- cyclostratigraphy, 207B2:8–12
- lithology, 184A7:5–9; 9:6–11; 185A4:15–16;
 189A6:12–19; 194A3:5–7; 4:7–10; 201A10:9;
 12:7–11; 204A3:4–8; 5:3–4; 207A4:5–8; 5:5–8;
 6:5–8; 7:4–11; 8:4–9
- optical microscope view, 194B8:12
- photograph, 172A6:259; 184A9:56; 185A4:68–70, 88;
 189A4:32; 194A8:35; 204A3:54; 207A4:40; 5:47;
 6:42; 7:44–46
- pore water, 201A11:13
- vs. depth, 194B4:10
- See also lightness; reflectance
- color contacts
- lithology, 162A3:61, 64–65; 4:101, 105–108; 7:227,
 261
- photograph, 162A3:64; 4:107; 5:155; 6:187
- color cycles
- core-core integration, 171B_A5:205
- correlation, 171B_A5:183–187
- deposition, 166A2:14–18
- lithology, 166A8:177–178; 189A3:10–11; 7:15–18
- color density logs
- climate cycles, 146B(2)3:31–44
- Indus Fan, 117B6:155
- mathematical correction, 146B(2)3:34
- Oman margin, 117B6:155
- Owen Ridge, 117B6:155
- power spectra, 146B(2)3:42–43
- sediments, 146B(2)4:45–59
- vs. age, 146B(2)3:40
- vs. carbonate content, 146B(2)3:37–38
- vs. depth, 146B(2)3:36–37, 39
- vs. thickness, 146B(2)3:40
- vs. total organic carbon, 146B(2)3:38
- color imaging
- interhole correlation, 146B(2)12:169–192
- vs. depth, 146B(2)12:172–173, 180–189
- See also digital imaging
- color index
- lithology, 161A4:61; 5:119; 9:393
- vs. depth, 161A8:360; 9:396
- See also Munsell index
- color mottling
- lithology, 162A8:263; 166A9:238–241; 10:295–298,
 303; 11:351–355; 167A(1)6:153; 9:236; 10:268–
 270; 11:308; 13:376; 14:418; 15:458; 16:483
- See also mottling
- color parameters, digital
- location, 116B22:261–263; 23:281

- models, 116B22:261–263, 266, 270, 271
 nature, 116B22:271–273
- color staining
 diagenesis, 192A6:11
 limestone, 192A3:2
- color video, digital
 carbonate content, 167A(1)4:77
 sediments, 167A(1)6:148; 7:171; 8:196; 9:234; 11:298;
 12:334; 13:371; 14:411; 15:451; 16:477
 vs. depth, 167A(1)5:109, 116; 11:308; 12:343; 14:418
- colorimetric coordinate b, vs. depth, 189A4:29–30
- colorimetry, sediments, 170A3:86–87; 4:151; 5:182;
 7:246–247
- columnar jointing, photograph, 142A4:66
- comb texture. *See* textures, comb
- comendite
 volcanic ash, 151B17:317–323
See also ignimbrite, comendite; ignimbrite, comen-
 dite-pantellerite; ignimbrite, subalkalic-comen-
 ditic rhyolitic
- Commission Internationale de l'Éclairage chromaticity
 color space, 146B(2)4:46–47, 53–56, 58
See also chromaticity
- common depth point, vs. depth, 196A1:22, 24; 4:32
- common midpoints, seismic reflection, 190/196B12:6–7;
 15:12
- communality
 modern species and fossil foraminifers, 138B34:707
 radiolarians, 138B20:465, 467–471
- community climate model, lower Paleogene, 199A3:3
- community structure, microbiology, 201A1:16–17
- compaction
 burial, 129B14:272; 155B26:443; 165B10:177–190;
 204B15:10–11
 calcareous sediments, 130B41:676
 carbonate veins, 156B5:88–90
 Celebes Sea, 124A13:358
 clays, 124E_A13:81; 141B8:108–109
 corrections, 165B7:129
 curve plots, 133A(1)14:589; 165B10:181–182, 185
 cyclostratigraphy, 207B2:8–10
 deformation, 141B2:19; 160A7:180, 182; 210A3:71–
 73
 deposition, 173A6:114
 diagenesis, 114B35:661; 143B31:523; 160B33:427
 dolomite, 201B13:10
 effect on nitrogen isotopes, 202B9:8–10
 fabric, 149B19:358; 155B27:447–464
 fluid expulsion, 131B31:387
 fluid venting, 204B3:6
 foraminifers, 165B7:133, 139
 grain size, 141B6:91–92
 hydrology, 205B6:3
 inoceramid sediments, 123B1:11
 intersite comparison, 121B12:258
 lithology, 121B12:253; 151A7:170; 163X_A6:21;
 166A8:178–179; 10:300–303; 171B_A6:257–258;
 174AXS_A7:14; 175A5:117; 190A4:7; 8:5; 190/
 196B12:8; 199A12:12; 210A3:29, 50–52
 magnetization, 133B50:753
 magnetostratigraphy, 173B11:21–23
- microfabrics, 185B9:11–12
- microfacies, 133B21:296–297
- models, 175B9:6–7
- mudstone, 210A1:22
- overpressure, 161B10:118–127
- photograph, 166A8:181–182; 185A4:81
- photomicrograph, 163X_A6:38; 194A3:32
- physical properties, 121A11:343; 121B12:253–258
- profiles, 133A(1)13:535
- rates, 121B12:254, 256
- sedimentary succession, 166A10:304–305
- sediments, 135B45:719; 146B(2)26:334; 154B9:161;
 155B27:457–459; 156B4:67, 69, 71; 174A_B7:4–
 5; 180B(synthesis):14; 192A3:18–21
 shallow inclinations, 121B16:372–374
 Site 700, 114A7:295; 114B34:654; 35:662
 Site 832, 134A12:419–420
 stress path deformation, 131B29:373
 structures, 127/128B(1)2:38, 39, 48; 180A12:29
 Sulu Sea, 124A11:222, 251, 271
 transmission light microscopy, 207B2:31
- underthrust section, 170A4:137; 170B3:8
- velocity, 155B29:491–492
- volcanic ash, 165A5:263–264
 vs. depth, 157B4:44–45; 205A1:52; 210A1:75
 well-logging, 129B29:507–527; 133B45:679–680;
 156A5:75–76; 196A3:35
See also overcompaction; undercompaction
- compaction, burial
 fabric, 155B27:447–464
 physical properties, 201A12:25
- compaction, concretions, lithology, 174AXS_A3:24–25;
 4:12–13, 16–20; 6:32–34, 41–46
- compaction, differential
 clay and limestone, 130A9:395
 carbonate sediments, 130B40:674
 mechanical vs. chemical processes, 130B39:656–657
 photograph, 210A3:153–155, 228
- compaction, vertical, structure, 190A4:10
- compensated neutron tool (CNTG)
 methods, 102A3:109, 112
 Site 795, 127/128B(1)41:710
 Site 798, 127/128B(2)86:1368–1369
 Site 799, 127/128B(1)42:724
 Site 843, 136B13:153–154
 well-logging, 130B48:776–778
See also porosity logs
- composite depth scale
 growth rates vs. depth, 198B15:12
 magnetic susceptibility, 175B20:1–10; 22:9
 magnetostratigraphy, 145B30:466–467
 Site 1005, 166A8:187
 Site 1098, 178B5:5–10
 Site 1099, 178B5:10
 Site 1234, 202A5:47
 Site 1235, 202A6:52
 Site 1236, 202A7:59
 Site 1237, 202A8:75–76
 Site 1238, 202A9:78–79
 Site 1239, 202A10:71–72
 Site 1240, 202A11:60–61

- Site 1241, 202A12:76–77; 202B4:22
Site 1242, 202A13:56–57
Site 1262, 208A3:62
Site 1263, 208A4:71
Site 1264, 208A5:56
Site 1265, 208A6:89
Site 1266, 208A7:64
Site 1267, 208A8:62
stratigraphy, 145B13:205–217
composite depth scale, meters, equivalent logging
depth, 208A6:103
composite depth sections
continuous sedimentary sequences, 160B4:37–59
cores, 138A(1)5:79–85; 138B3:32–37
correlation, 138B3:38–39; 161A6:209; 172A3:47;
4:101–104; 5:188–189, 194–201; 6:266–268;
182A9:38
Cretaceous/Tertiary boundary, 198A6:21; 7:20–21
depth offsets, 160A5:113; 162A3:61; 4:101; 5:149;
8:263; 10:355; 172A3:48; 4:105; 5:190; 6:269;
177A4:8–9; 178A4:96
diatoms, 167B3:93
gamma rays, 181A3:20–21
lithology, 160A5:95
magnetic reversals, 199A10:50; 11:101; 13:75
mass accumulation rates, 202A1:10
Neogene, 138B19:430–431, 440–441
Paleocene/Eocene Thermal Maximum, 198A6:21
revision procedure, 160B4:41, 45, 53, 55, 57
scales, 186B8:1–23
section construction, 160B4:40–41; 189A3:152; 5:148;
6:43–44, 157; 7:132
sediment consolidation, 138B16:357–369
sediment depth, 138B4:47–48
Site 847, 138B19:451; 34:696–697
Site 881, 145A3:44, 48
Site 882, 145A4:89–90, 94–95; 145B19:284–285
Site 907, 162A7:226–231; 162B9:144–147
Site 963, 160A4:64, 66, 76
Site 964, 160A5:106, 108
Site 966, 160A7:182–183, 185–186
Site 967, 160A8:242–244, 246
Site 968, 160A9:310
Site 969, 160A10:362–363
Site 973, 160A14:484
Site 974, 161A4:78–81
Site 975, 161A5:141–142
Site 976, 161A6:209, 217
Site 982, 162A4:94–101
Site 983, 162A5:141–146
Site 984, 162A6:173–178
Site 985, 162A8:256–261
Site 986, 162A9:292–296
Site 987, 162A10:350–353
Site 1010, 167A(1)4:72–73; bp
Site 1011, 167A(1)5:103–105
Site 1012, 167A(1)6:141, 143
Site 1013, 167A(1)7:165–166
Site 1014, 167A(1)8:187, 190–191, 200
Site 1015, 167A(1)9:229–230
Site 1016, 167A(1)10:256–257, 259
Site 1017, 167A(1)11:293–295, 300
Site 1018, 167A(1)12:325, 328, 334
Site 1019, 167A(1)13:366–367
Site 1020, 167A(1)14:400, 405, 409
Site 1021, 167A(1)15:442, 447, 450
Site 1022, 167A(1)16:473, 475
Site 1095, 178A4:31–32; 178B6:1–15
Site 1096, 178A5:29–30; 178B6:1–15
Site 1098, 178A7:20–21
Site 1099, 178A7:20–21
Site 1109, 180A6:79
Site 1119, 181A3:20–21
Site 1120, 181A4:16–17
Site 1122, 181A6:24–25
Site 1123, 181A7:32–34; 181B10:2
Site 1124, 181A8:27–28, 122–128
Site 1125, 181A9:17–18, 84–89
Site 1128, 182A6:25–26, 91–95
Site 1130, 182A8:21–22, 75–81
Site 1131, 182A9:16–17, 60–64
Site 1133, 182A11:12–13, 38
Site 1134, 182A12:18–19, 62–65
Site 1143, 184A4:84
Site 1144, 184A5:77
Site 1145, 184A6:51
Site 1146, 184A7:76–77
Site 1147, 184A8:33
Site 1148, 184A9:91
Site 1168, 189A3:36–37
Site 1170, 189A5:39–40
Site 1171, 189A6:43–44
Site 1172, 189A7:39–40
Site 1209, 198A5:24, 89
Site 1210, 198A6:21, 77
Site 1211, 198A7:20–21, 72
Site 1212, 198A8:18, 71
Site 1215, 199A8:12–13, 47
Site 1216, 199A9:8–9
Site 1217, 199A10:13–14, 52
Site 1218, 199A11:21–23, 103; 199B2:29–31
Site 1219, 199A12:22–24, 108; 199B2:32
Site 1220, 199A13:19–20, 77
Site 1221, 199A14:16, 54
Site 1222, 199A15:10
Site 1232, 202A3:38
Site 1257, 207A4:20–21, 95
Site 1258, 207A5:21–23, 100
Site 1259, 207A6:25–26, 94
Site 1260, 207A7:21–23, 95
Site 1261, 207A8:22, 87
Site 1262, 208A3:4–5
Site 1263, 208A4:4–5
Site 1264, 208A5:3
Site 1265, 208A6:4–5
Site 1266, 208A7:4
Site 1267, 208A8:4
Sites 980–981, 162A3:52–58
Sites 1054–1055, 172A3:47–48
Sites 1054–1064, 172A7:313
Sites 1060–1062, 172A5:188–201
Sites 1063–1064, 172A6:266–268

- Sites 1110–1113, 180A7:26
 splice tie points, 160A4:78; 5:113; 7:189; 8:253;
 10:366; 14:485
 stratigraphy, 177A3:5–6, 44; 60–61; 5:8, 64–65; 6:6–7,
 54–55; 7:5–6, 43; 8:9–10, 69–71; 9:7–8, 53;
 199B2:1–41
 summary, 182A4:26–29, 89–92; 198A1:59–60;
 198B15:1–26
 upper Miocene–Quaternary interval, 182A1:23
 vs. carbonate content, 162B14:199; 208A3:58
 vs. core-top depth, 172A4:113–114; 5:202–203; 6:277
 vs. depth offsets, 162A6:181; 7:234; 208A3:29; 4:33;
 5:27; 6:39; 7:31; 8:32
 vs. gamma ray logs, 208A6:77
 vs. magnetic susceptibility, 198A6:35; 8:42
 vs. nannofossil preservation indexes, 138B24:540
 composite depth sections, core, correction, 199B12:1–21
 composite digital images
 chromaticity, 208A4:43
 Chron C24n, 208A6:55
 Cretaceous/Tertiary boundary, 208A8:45
 cyclic sedimentation, 208A7:42; 8:40
 early Eocene Chron 24n clay layer Y, 208A1:101
 Eocene/Oligocene boundary, 208A8:41
 Eocene–Oligocene interval, 208A1:102–103; 6:50
 lower Eocene Chron C24n red clay layer, 208A7:45
 mid-Paleocene biotic event, 208A1:98
 oscillatory patterns, 208A6:48
 Paleocene/Eocene boundary, 208A6:56; 7:44; 8:42, 44
 Paleocene–Eocene interval, 208A1:99–100
 slump folding, 208A7:43
 composite dissolution index
 foraminifers, 130B29:501, 504, 507
See also dissolution index
 composite fragmentation index
 foraminifers, 130B29:498–501, 504
See also fragmentation index
 composite intervals, olivine gabbros, 176B(synthe-
 sis):12–14
 composite logs, construction, 196A3:16
 composite section
 Ceara Rise, 154A9:427; 154B20:302–303
 color bands, 188B12:21
 core-core integration, 171B_A6:282–283
 correlation, 154A9:427; 154B20:302–303; 22:338–
 339; 181A4:36; 7:32–34; 182A1:29, 38, 40; 4:26–
 29; 6:26, 61–63, 86; 8:21–22; 9:16–17; 11:12–13;
 12:18–19
 cycle wavelengths, 154B5:107–110
 depths, 181A3:97–104; 4:66–69; 6:131–137; 7:160–
 170; 8:27–28; 9:17
 index properties, 154B8:153–154
 lithology, 171B_A3:53; 4:99; 5:205; 6:249; 181A1:25;
 188B12:14–15
 magnetostratigraphy, 162B9:132–135, 148;
 195A4:204
 sediments, 182A1:31
 Site 925, 154A4:79–86
 Site 926, 154A5:168–169, 171–178
 Site 927, 154A6:244–248
 Site 928, 154A7:293–296
 Site 929, 154A8:354, 356–359
 Site 930, 155A6:92
 Site 931, 155A7:128
 Site 932, 155A8:179
 Site 933, 155A9:205
 Site 934, 155A10:244
 Site 935, 155A11:277
 Site 936, 155A12:325
 Site 937, 155A13:388
 Site 938, 155A14:413
 Site 939, 155A15:441
 Site 940, 155A16:467
 Site 941, 155A17:507; 155B28:468
 Site 942, 155A18:542
 Site 943, 155A19:572
 Site 944, 155A20:595
 Site 945, 155A21:638
 Site 946, 155A22:659; 155B26:423–424
 Site 995, 164A7:180
 Site 997, 164A9:282
 Site 998, 165A3:54–55, 97–102
 Site 999, 165A4:196–201
 Site 1000, 165A5:278–281
 Site 1001, 165A6:343–345
 Site 1006, 166A9:248–250
 Site 1010, 167A(1)4:51–52, 74
 Site 1011, 167A(1)5:88–89, 106
 Site 1012, 167A(1)6:131–132
 Site 1013, 167A(1)7:158
 Site 1014, 167A(1)8:177–179
 Site 1016, 167A(1)10:241–242
 Site 1017, 167A(1)11:287
 Site 1018, 167A(1)12:313–315
 Site 1019, 167A(1)13:355–356
 Site 1020, 167A(1)14:391–392
 Site 1021, 167A(1)15:433–434
 Site 1022, 167A(1)16:462–463
 Site 1075, 175A3:64, 70–72
 Site 1076, 175A4:90, 99
 Site 1077, 175A5:118, 128–129
 Site 1078, 175A6:154, 160–161
 Site 1079, 175A7:180, 187–188
 Site 1080, 175A8:211
 Site 1081, 175A9:239–241, 254–255
 Site 1082, 175A10:277–279, 292, 294
 Site 1083, 175A11:316, 323–324
 Site 1084, 175A12:384–350, 364, 366
 Site 1085, 175A13:392–394, 406–408; 175B22:8
 Site 1086, 175A14:438, 442–443
 Site 1087, 175A15:461–463, 471–472
 Site 1143, 184A4:6–7
 Site 1144, 184A5:4–6
 Site 1145, 184A6:3–4
 Site 1146, 184A7:4–5
 Site 1147, 184A8:2–3
 Site 1148, 184A9:5
 Site 1232, 202A3:4–5
 Site 1233, 202A4:4–5
 Site 1234, 202A5:4–5
 Site 1235, 202A6:4–5
 Site 1236, 202A7:4–5

- Site 1238, 202A9:5–6
 Site 1239, 202A10:5–6
 Site 1240, 202A11:4–5
 Site 1241, 202A12:4–5
 Site 1242, 202A13:4–5
 stratigraphy, 169S_B1:27
 tie points, 207B14:27–29
 translation to mbsf and mcd scales, 181A7:172
 vs. depth, 164A5:70; 181A3:50
- compositional banding
 sediments, 138A(1)9:131
See also color banding; redox banding
- compound pahoehoe lava. *See* pahoehoe lava, compound
- compressibility
 clays and oozes, 144B56:985–989
 one-dimensional consolidation, 133B41:619
 permeability, 190/19610:1–16
 sediments, 146B(2)13:194; 161B10:121–127;
 180A6:65–66; 7:24; 207B15:1–35
 shallow sediments, 194B7:1–28
- compression
 backarcs, 186B1:5–6
 basin volcanic ash layers, 124B34:464
 Celebes and Sulu seas, 124B4:61
 Cenozoic, 149B1:13
 composite depths, 154A4:79; 178B6:3–5
 continent/ocean margin, 159B11:102
 curves in sediments, 133B41:618
 décollement structures, 159B3:29
 deformation, 186B1:8
 fracture formation, 127/128B(2)75:1181
 gas hydrates, 167B32:352
 Hokkaido W-Honshu N thrust belt, 128A3:76–77
 Miocene, 149B41:654, 656, 696
 porosity, 146B(1)20:331–334
 rupture, 161B24:325–326
 tectonics, 186A1:15–16
 Tortonian/Messinian boundary, 161B5:75
See also Poisson's ratio; recompression
- compression, in-plane, tectonic models, 210B9:30
- compression, unconfined, pocket penetrometer data,
 154A4:124–125; 5:204–206; 6:268–269; 7:320–
 321; 8:392–393
- compression index
 Broken Ridge, 121B12:260
 calcareous sediments vs. pelagic ooze, 121B12:258
 measured vs. calculated values, 123B25:497
 sediments, 131B21:271; 141B33:407–410; 204B12:7–8
 vs. void ratios, 150B21:382
- compressional faults. *See* faults, compressional
- compressional structures, bedding-parallel. *See* structures, compressional bedding-parallel
- compressional tectonics. *See* tectonics, compressional
- compressional ultrasonic velocity
 vs. hardness, 137/140B31:349
 vs. uniaxial compressive strength, 137/140B31:350
See also compressional wave velocity
- compressional wave logger, velocity, 132A4:92;
 146B(2)13:196; 199B13:17
- compressional wave velocity
 accretionary prisms, 131B17:211–220
 acoustic anisotropy, 131B18:221–233; 29:368–369,
 376
 acoustic basement, 173A7:211
 acoustic properties, 160B42:536–543
 altered volcanic rocks, 193A3:76; 4:54, 255
 alternating-field demagnetization vector, 197A5:81
 anisotropy, 144A10:377–383; 156A7:245; 156B8:119;
 168A5:156; 180A6:172; 190A5:79; 8:51;
 192A3:165–168; 194A5:69; 207A8:64;
 209A3:142; 7:101; 9:90; 10:125–126
 anomalies, 195B2:21
 Atlantic Ocean E tropical, 108A2:34, 48, 55; 3:133;
 4:237, 249; 5:344, 350, 353; 6:424, 429; 7:503,
 505; 8:570–571; 9:640, 642; 16:1015–1031,
 1034–1038; 108B23:402–403; 24:412–413
 attenuation, 164B26:257; 27:265–272
 average values in peridotites and gabbros, 209A3:148
 Baffin Bay, 105A4:126–129
 Barbados Ridge, 110A1:22–23; 6:337–338, 341; 7:423–
 424; 8:498–499; 9:530, 534
 basalts, 129B27:488–489; 136A5:74–75; 139B38:598–
 600; 148B28:367–368; 163A3:29–30; 5:65–68;
 163B3:31–35; 185A3:35–38; 191A4:153;
 206A3:88–89
 basement, 134B31:562; 192B7:22–28
 breccia, 158A7:117, 136; 8:164, 167; 11:221
 Broken Ridge, 121A2:57–58; 6:151; 8:217, 252
 calcareous sediments, 130B40:663–672
 chert, 136B8:100–101
 clasts, 195A3:41
 comparison between continuous and discrete mea-
 surements, 159A6:200
 composite depth, 207A4:20
 compressional wave logger, 139A7:517–518
 core handling, 146B(2)13:193–197
 core-log correlation, 102B11:177
 cores, 137/140B24:276–283; 144A6:237–238;
 161A6:240–241; 170A6:213; 196A3:91
 correction, 190/196B11:4
 correlation, 204B6:4–5; 8:7
 crust, 195B2:6–7
 crystalline rocks, 153A3:112–115; 4:172; 6:255; 7:273
 cyclic processes, 172B5:6–7; 172B(overview):4
 data, 102B4:60–61; 5:63; 8:97–102, 105–106, 109,
 112, 117–121; 11:157–160, 173; 106/
 109B20:244–246, 249; 129B28:504; 176B5:42–
 69
 digital sound velocimeter, 144A4:138
 directional properties, 156B8:115–123
 discrete measurements, 171B_A3:89; 4:154, 162;
 5:212, 215, 227; 6:304–305; 7:344; 172A4:133–
 134; 182A7:83; 8:94; 9:79; 10:78; 11:48; 12:76;
 198A3:138–139; 5:74, 98–100; 6:65–66, 84–85;
 7:27–28, 61, 80–81; 8:79; 9:109; 10:14–15, 25,
 33–34; 207A4:110; 5:117; 6:110; 7:112; 8:102
 downhole measurements, 176B5:9–10
 error analysis, 131B18:223–225
 Exuma Sound, 101A9:353, 357; 10:404, 409–411;
 11:450

- fabric, 131B7:83–84; 147B19:353
 fault zones, 180B(synthesis):17
 faunal units, 162B1:14
 fractures, 205B13:7
 gabbros, 147B25:421–423; 153A4:172
 gas hydrates, 141B18:246; 164B26:254–255, 257
 Hamilton Frame data, 144A3:87; 4:139; 5:195; 6:244
 histogram, 148A3:173
 in situ measurements, 164B27:265–272
 igneous rocks, 147A1:12; 147B25:436–439; 176A1:25;
 3:80–81, 307–312; 176B2:2–4, 7–11, 19;
 209A3:38–41; 210A4:10–11
 Indian Ocean NE, 116B24:296
 interpretation, 183A5:50–51
 ISONIC, 196A3:26; 4:25–26, 62
 Kerguelen-Heard Plateau N, 119A2:37–38; 5:148–149;
 6:197
 laboratory data, 130A9:452; 149B18:346–347
 lava, 152B38:458
 lithology, 183A1:23, 27, 32; 3:16; 4:28, 93; 5:193–198;
 6:58, 197–202; 7:52–53, 206–209; 8:26–27, 115–
 116; 9:40–41, 133–135; 185A4:40; 186A1:14;
 191A1:17; 197A3:39–40, 169; 4:33, 124; 5:27–
 28, 111; 6:23–24, 116; 8:12–13, 19; 9:13, 46;
 10:20, 63; 11:22, 29–30, 121–122; 12:30–31,
 124–125; 13:26–27, 90; 14:22, 64; 15:15, 55;
 200A3:44–45; 4:46–49; 200B1:32; 205A4:39
 Little Bahama Bank, 101A6:137; 7:226–227; 8:282
 massive sulfides, 139B45:722
 millennial-scale variability, 172A4:134
 mineralization, 158B23:319–325
 Mohorovicic discontinuity, 186B1:3
 multisensor track data, 165A3:86–88; 4:186; 5:265–
 267; 6:333; 182A6:104; 8:89; 9:73; 10:86; 11:44;
 12:71
 Ninetyeast Ridge, 121A2:57–58; 10:289; 11:340, 347;
 12:404, 430–431
 Northwest Providence Channel, 101A12:499; 13:535,
 542
 oceanic crust, 144B40:665–671; 176B5:14; 177A3:13–
 14; 4:18–19; 5:23–24; 6:16; 7:17; 8:19; 9:16;
 178A4:25; 5:22; 7:18; 8:17; 9:16
 Paleocene/Eocene boundary, 208A8:43
 pelagic sediments, 143A6:154; 195A4:38–39
 peridotites, 153B25:441–442
 perpendicular to core axis vs. parallel to core axis,
 165A4:189
 physical properties, 182A1:18–19
 power spectra, 154B7:149
 processing, 190/196B16:3
 Prydz Bay, 119A2:37–38
 repressurized sediments, 204B26:6
 rhyodacites, 193A6:10, 41
 rocks, 193A3:296
 saturated sediments, 131B22:276–277
 sea-surface reflections, 156B21:267
 sediment/basalt interface, 192B7:4
 sediments, 133A(1)4:108–109, 120, 126; 5:157, 161–
 164; 6:193–197; 7:220, 224–226; 8:269, 279;
 9:319–320, 329; 10:371–372, 387; 11:436–437,
 440–441; 12:470, 489; 13:527; 14:588; 15:653;
 16:717; 17:791; 135B7:112–113, 128; 48:790–
 791; 138A(1)10:230–231; 11:306; 12:360;
 143B18:290–300; 146A(1)5:198; 150A6:102–
 104; 8:238; 10:336; 151A6:138–139; 7:196–197;
 8:247; 9:293–294; 10:337; 11:372–373;
 154B7:135–149; 155A6:108; 7:145; 8:195; 9:220;
 10:262; 11:300; 12:352; 13:400; 14:427; 15:454,
 459; 16:479, 481, 485; 18:559, 561; 20:612–613;
 21:652; 22:676; 155B29:477–493; 156A6:151,
 155–156; 7:238, 243; 157A5:127; 6:159–160,
 165; 7:359, 362, 374; 9:463–464, 469; 10:527,
 529, 537; 159A6:197, 199; 7:246, 249; 8:287–
 288; 160A4:72, 83; 5:118, 122; 6:138–139;
 7:191, 197; 8:254, 261; 9:314, 319; 10:371–372;
 11:397, 401; 12:442–443; 13:460, 462; 14:488–
 489; 161A4:90; 5:150–151; 7:323; 9:408;
 162A3:81, 83; 4:120; 5:163; 6:197; 7:249; 8:282;
 9:320; 10:374; 165A4:185–186; 166A6:96–97;
 7:164; 8:192–194; 9:255–256; 10:317–319;
 11:365, 367; 167A(1)4:76–77; 5:108; 6:146–147;
 7:168–169; 10:263; 11:298; 12:333; 13:370;
 14:410; 15:451; 16:477; 168A4:87; 5:140–141;
 6:179; 169A3:130; 5:227; 6:289–292; 170A3:80–
 81, 87–88; 4:142–145; 5:181; 6:207; 7:243–244;
 171B_A3:78–80; 4:146–149, 153–154; 6:289,
 292–293; 7:334–336; 172A3:63–68; 4:143–145;
 5:236; 6:295–296; 173A4:94; 6:151, 153; 7:209–
 210; 8:253–256; 9:292–293; 174A_A3:80; 4:130–
 131; 5:177–178; 174A_B7:5, 26; 180A5:37–38;
 6:64; 7:23–24; 8:35; 9:49; 10:19; 12:43–44;
 181A3:26; 4:22; 5:23–24; 6:33; 7:42–43; 8:35;
 182A4:33–35, 101; 5:22–23, 81; 6:30–32, 109;
 7:24–25, 77; 8:26; 9:22; 10:27; 11:15; 12:21–22;
 183A1:16; 184A4:25–26; 5:21; 6:16; 186A1:11;
 4:42–44, 200; 5:29–30, 117; 188A3:59, 184;
 4:34–35; 5:28, 92; 189A3:46, 162–163; 4:23, 61;
 5:50, 159–161; 6:55, 167–169; 7:46–47, 141–
 144; 190/196B7:3–5; 11:3; 191A4:36–37;
 194A3:20; 4:25–26; 5:20–21; 6:18–19; 7:28–31;
 8:20–21; 9:19–20; 195A5:13; 198A3:38–39; 4:30,
 91–92; 5:31–32; 6:28–29; 7:26–28; 8:24–26;
 9:31, 110; 199B13:1–31; 200A3:158; 201A6:28;
 7:30–31; 8:24–25; 9:21; 10:24–25; 11:27–28;
 12:22–23; 204A3:27, 126; 4:21–22, 124; 5:13,
 64; 10:24, 113; 11:16; 206A3:48; 210A3:101–
 104
 sediments and basalt, 192A3:37, 165–168; 4:25, 126–
 130; 5:24, 122–123; 6:25, 114–115; 7:12–13, 64–
 65
 sediments vs. depth, 167A(1)9:235; 10:267–268;
 11:306; 14:417; 15:457–458; 16:482
 seismic sequence correlation, 110A5:252;
 146B(1)21:337–348; 204B1:32
 serpentinite clasts, 195B11:1–12
 spectral analysis, 163A3:44
 Site 504, 140A2:108–109, 134
 Site 672, 110A5:241–242
 Site 698, 114A5:112–113, 116
 Site 699, 114A6:187–188
 Site 700, 114A7:288–289, 291
 Site 701, 114A8:399

- Site 702, 114A9:505
 Site 703, 114A10:576, 579–580
 Site 704, 114A11:667–668, 674–676
 Site 721, 117A9:225, 234
 Site 722, 117A10:275–276
 Site 723, 117A12:339, 343
 Site 724, 117A12:401–402, 408
 Site 725, 117A13:431
 Site 726, 117A14:457–458
 Site 727, 117A15:476, 484
 Site 728, 117A16:511, 519, 530–531
 Site 730, 117A18:571, 574–575
 Site 731, 117A19:614, 617
 Site 738, 119A2:37–38
 Site 744, 119A2:37–38; 13:495
 Site 746, 119A2:37–38
 Site 747, 120A6:123, 128
 Site 748, 120A7:216
 Site 749, 120A8:264–265
 Site 750, 120A9:317
 Site 751, 120A10:360, 365–366
 Site 765, 123A4:169
 Site 779, 125A8:131
 Site 782, 125A12:213, 231
 Site 788, 126A6:126
 Site 792, 126A8:285
 Site 800, 129A2:62–64
 Site 801, 129A3:127–128
 Site 802, 129A4:209–213
 Site 803, 130A5:143–145
 Site 804, 130A6:206–207
 Site 805, 130A7:257–259
 Site 806, 130A8:329
 Site 807, 130A9:428
 Site 809, 132A3:61–62, 69
 Site 810, 132A4:92, 110–111
 Site 833, 134B31:555–557
 Site 834, 135A(1)4:152–153
 Site 835, 135A(1)5:227–228
 Site 836, 135A(1)6:275–276
 Site 837, 135A(1)7:325–326
 Site 838, 135A(1)8:373, 375
 Site 839, 135A(1)9:451, 453
 Site 840, 135A(1)10:543, 546
 Site 841, 135A(1)11:653
 Site 844, 138A(1)9:156
 Site 848, 138A(2)13:704
 Site 849, 138A(2)14:754, 756
 Site 850, 138A(2)15:844
 Site 851, 138A(2)16:924
 Site 852, 138A(2)17:998
 Site 853, 138A(2)18:1044
 Site 856, 139A6:242, 245
 Site 857, 139A7:355–359, 385–391, 394–396
 Site 858, 139A7:521–522
 Site 860, 141A7:223
 Site 864, 142A4:64
 Site 866, 143B31:528
 Site 883, 145A5:155, 164–176
 Site 884, 145A6:245, 247, 250–271
 Site 887, 145A8:359, 378
 Site 894, 147A3:99–100
 Site 895, 147A4:153–154
 Site 908, 151A6:140–141
 Site 909, 151A7:199
 Site 910, 151A8:250
 Site 911, 151A9:297
 Site 912, 151A10:339
 Site 913, 151A11:376–377
 Site 916, 152A8:105
 Sites 885–886, 145A7:316–317, 328
 slope sediments, 133B42:625–632
 slowness log, 188A4:94
 Southern Ocean, 114B35:661
 split-core measurements, 151A5:88–90; 191A4:147–148
 structure, 123B24:487–489; 195B2:23
 summary, 152A7:87
 synthetic seismograms, 130B2:37–40; 143B19:309–311; 176B5:34–35
 three-dimensional measurements, 189A3:102
 traveltime, 129B28:501
 trough-ridge structure, 116B24:296–302; 306–309
 unconformities, 150B16:296–298
 variance density spectra, 154B7:147–148
 velocity, 108B24:410–411; 163B2:24
 vertical seismic profiling, 203B1:6–7
 volcanic rocks, 163A3:43–45
 vs. age, 154A6:263; 172B5:19; 203B1:15
 vs. alteration minerals, 139B38:608
 vs. anhydrite percentage, 158B23:325
 vs. bulk density, 142B7:53; 143B18:296; 148A3:171; 153A5:214; 158B23:322; 160B42:538, 541; 171B_A3:89; 4:156, 163; 7:306, 345; 183A3:37; 5:166; 195A3:122; 197A5:88; 6:92; 200A4:139, 144–145; 208A3:36; 4:39; 5:33; 6:45; 7:37; 8:38; 209A10:133
 vs. carbonate, 114B36:674–675; 129B27:491–498; 154B8:162–166; 199B13:20
 vs. climate cyclicity, 114B6:191
 vs. coarse fraction percentage, 130B38:650
 vs. confining pressure, 136B8:101; 147B25:424; 148B33:412–413; 163B3:33; 195B11:7
 vs. consolidation stress, 204B26:15
 vs. core density, 208A6:83
 vs. density, 129B28:506; 136B8:102; 137/140B24:280–281; 139B38:606–607; 147B25:427–431; 29:478, 488; 152B38:460; 153A4:176; 7:273; 153B25:447, 453; 163A5:66; 176B2:13; 5:29; 192B7:6–7, 17
 vs. density porosity, 155B26:446
 vs. depth, 110A6:340; 7:422; 9:533; 110B20:317; 129A2:63; 3:130; 4:213; 129B28:506; 130A7:261; 8:329–330; 9:443–444; 130B36:612–613; 38:642; 132A3:71; 133A(1)9:327; 10:386; 13:539; 14:596; 15:660; 16:734; 135A(1)4:159–161; 5:236; 6:287; 7:332–333; 8:377–379; 9:459; 11:664–665; 136A5:76; 137/140B24:281; 137A2:32; 138A(1)9:172; (2)13:723; 14:788; 15:868; 16:945; 17:1010; 18:1056; 139A5:149–151, 154–156; 6:265–271; 7:378–381, 398–400; 8:531–541, 545–546; 143A7:237–238; 8:289–

- 290; 144A3:86; 4:143; 5:192–193; 6:245; 7:282; 8:312; 10:386, 396; 11:436; 144B38:646; 39:658; 145A3:75; 5:183; 6:275; 7:332; 8:382; 147B29:479–480, 486, 489–490; 148A1:20; 2:35, 74–76; 3:170–173; 148B33:412, 414; 34:428; 149A6:201–202; 152A6:70; 11:240–241, 245–248; 12:273, 275; 151A6:141; 154A4:121, 123, 133; 5:154, 203, 216; 6:260, 263, 267; 7:313, 7:327; 8:396, 400; 154B7:138–142; 155A22:679; 155B26:446; 29:483–489; 156A6:152; 7:245; 156B8:119; 157A7:367; 158A7:137; 158B23:321; 159A5:119; 159B21:211; 160A4:84; 5:122; 6:140; 7:198; 8:262; 9:319; 10:373; 13:463; 14:490; 161A6:266, 271–272; 163A3:30; 4:43; 5:66; 163B3:30, 43; 164A7:217; 165A3:87, 89; 4:185, 189; 5:266; 6:332, 334; 166A6:96–98; 7:165; 8:180, 193–194, 203; 9:256–257, 266; 10:318–320, 326–327; 11:366–367; 168A4:89, 91–96; 5:149, 151, 155; 6:187, 189–192; 169A3:130, 133; 5:229; 169B7:10–12; 170A3:88; 5:185; 6:211; 171A_A5:56, 58; 171B_A3:85, 89; 4:149, 155, 162; 5:220; 6:298, 306; 7:345; 172A3:64–65; 4:138–140, 153; 5:229–231, 237; 6:289, 291; 172B5:10, 16; 173A4:94; 174A_A4:129; 176A3:231; 176B5:25, 27; 178A4:81, 86, 98; 5:72, 95; 7:54, 59; 8:50–52, 55–56; 9:58, 63; 179A4:154; 179B1:16–17; 180A5:92; 6:171; 9:124; 12:127; 181A4:43; 5:49; 6:79–80; 7:100–101; 8:79; 182A4:70–72, 74; 5:50; 6:72–74; 7:56–57; 8:56–57, 63; 9:47; 10:58; 11:32; 12:47–48; 183A3:36, 40–42; 4:75–79; 5:153–154, 161; 6:159–161; 7:169–171; 8:86–87; 184A4:67; 6:44; 7:60; 8:29; 9:75; 185A4:135, 137, 181–185; 186A4:94, 131, 141–142; 5:79; 188A3:142–143, 151, 165–166, 169; 4:84, 93; 5:68, 75; 189A3:100–101; 4:44; 5:98–99; 6:111–112, 122; 7:89–90; 190A4:76, 83; 6:53; 7:45; 8:51; 9:25; 190/196B7:16–17; 11:18; 15:14; 16:12, 14; 191A4:109; 192A6:88, 90; 193A3:230; 4:202; 194A3:52; 4:84; 5:69, 79; 7:93; 195A3:121; 5:35; 196A1:25; 3:70, 74; 4:33; 5:78; 197A3:130; 4:101; 5:87; 6:91; 198A1:101–102, 106, 110, 116, 120, 125; 3:55, 99, 101; 4:36, 70, 72; 5:38, 70, 72; 6:33–34, 63; 7:33, 59–60; 8:30, 57–58; 9:85; 199A8:31, 33, 40; 9:23, 31; 10:33–35, 44; 11:70; 12:73, 76; 13:61; 14:46; 15:34, 36; 200A1:55; 4:134, 138, 154–155; 200B1:33, 35; 201A6:66; 7:69; 8:50; 9:50; 10:54; 11:71, 85; 12:45; 202A11:37; 204A3:80–81; 5:46; 205A4:134; 205B13:17; 206A1:69; 3:155; 207A4:62; 5:70–71; 7:66–67; 8:64; 208A3:32, 35; 4:35, 38; 5:28–29; 6:44; 7:33, 36, 38; 8:37, 43; 209A3:142; 7:101; 9:90; 10:125–126; 210A3:290–291; 210B14:22
- vs. depth for ooze interval, 130B3:44–45
 vs. depth structure, 195B2:19
 vs. discrete bulk density, 198A3:103; 4:73
 vs. dolomite, 160B42:537–538
 vs. downhole density, 208A6:83
 vs. dry water content, 145A6:276
 vs. effective stress, 133B42:629; 149B20:369
- vs. fresh clinopyroxene/original clinopyroxene ratio, 147B29:488
 vs. grain density, 135A(1)9:459; 163B3:32
 vs. in situ porosity, 131B20:259
 vs. insoluble residues, 160B42:538
 vs. lithology, 129B29:515
 vs. loss on ignition, 163B2:24
 vs. magnetic susceptibility, 114B6:190; 192B7:18
 vs. major elements, 129B27:490–491, 494, 496–497
 vs. microfossil content, 130B38:647
 vs. nannofossils percentage, 130B38:652
 vs. operating principles, 108B24:407–410
 vs. overburden pressure, 133B42:628
 vs. overpressure ratio, 146B(1)22:353, 356; 28:417
 vs. oxides-sulfides, 139B39:608
 vs. planktonic foraminiferal percentage, 130B38:649
 vs. porosity, 110A9:534; 110B20:316; 114B35:667; 129B28:501, 505; 130B3:42; 136B8:101; 137/140B24:278–279; 139B38:605; 143B18:296–297; 148B28:372; 152B38:460; 153A4:176; 5:214; 158A7:137; 160B42:538, 541; 163B3:32; 174A_B7:16; 176B2:12; 5:28; 190A4:84–85; 5:79; 192B7:6–7, 17; 200A4:139, 144–145; 205A4:134; 206A3:157
 vs. potassium oxide, 163B2:24
 vs. pressure, 139B38:605; 147B25:432; 153B25:443
 vs. radiolarian percentage, 130B38:649
 vs. remanent magnetization, 197A6:83
 vs. resistivity, 152B38:460; 154A4:133
 vs. serpentinization, 147B29:488–489
 vs. shallow resistivity logs, 183A8:95
 vs. shear wave velocity, 137/140B24:282; 142B7:53; 147B25:440; 152B38:459; 153B25:454; 158B23:324; 176B2:14; 195B11:10
 vs. sonic velocity, 143B18:296
 vs. sulfides (pyrite + chalcopyrite), 158B23:325
 vs. thermal conductivity, 108A10:757
 vs. thermal data, 201A4:16–17
 vs. total alteration, 147B29:488
 vs. total clay, 163B2:26
 vs. total porosity, 158B23:323
 vs. trace elements, 129B27:491, 499
 vs. two-way traveltime, 194A3:59; 4:91
 vs. unit thickness, 152B38:461
 vs. velocity anisotropy, 129B27:492
 vs. velocity logs, 184A4:76
 vs. void ratio, 139B38:636
 vs. water content, 110A5:242; 6:341
 vs. water depth, 130B3:43
 vs. wet bulk density, 129B27:490; 28:502; 132A4:73; 148B28:371; 198A6:66; 199A11:71; 12:77; 13:62; 199B13:18; 209A3:147; 5:163; 6:112; 7:106; 9:95
 vs. whole-rock alteration, 147B25:430
 vs. yield stress, 131B20:258
 well-logging, 108A7:499; 130A9:454; 176B5:36–37
 whole-core multisensor track logger and split-core transducer comparison, 208A3:37; 4:40; 5:34
 zoning, 163B2:27
 See also acoustic properties; acoustic units; anisotropy; compressional ultrasonic velocity; geotechnical

- properties; resistivity; seismic velocity; shear wave velocity; sonic velocity; ultrasonic data; velocity; velocity logs
- compressional wave velocity, acoustic, wireline sonic logging, 170A4:145
- compressional wave velocity, adjusted, vs. depth, 194A5:69
- compressional wave velocity, atmospheric, vs. in situ, 188B10:18
- compressional wave velocity, average, vs. confining pressure, 195B11:8
- compressional wave velocity, corrected, vs. impedance, 199B13:27
- compressional wave velocity, directional, crystalline rocks, 147A4:156
- compressional wave velocity, discrete
sediments, 178A5:24; 6:17; 7:19; 182A4:106; 5:86; 188A4:106
split cores, 178A4:26–27; 8:18; 9:17–18
vs. depth, 171B_A5:228
vs. discrete bulk density, 198A7:61; 8:60
- compressional wave velocity, dry, vs. wet, 140A2:136
- compressional wave velocity, horizontal
vs. depth, 186A4:134; 5:76; 199B13:16
vs. compressional wave logger at equivalent depth, 199B13:17
- compressional wave velocity, in situ, vs. atmospheric, 188B10:18
- compressional wave velocity, longitudinal, vs. depth, 172A5:237
- compressional wave velocity, measured, vs. calculated, 147B25:424
- compressional wave velocity, rebound-corrected, composite depth, 199B13:25
- compressional wave velocity, sensor, lithology, 200A4:178
- compressional wave velocity, slowness logs
vs. depth, 190/196B16:12, 14; 17:13
vs. shear wave velocity slowness logs, 190/196B16:15
- compressional wave velocity, transverse, vs. depth, 172A4:145; 6:295
- compressional wave velocity, ultrasonic, vs. depth, 158B23:321–322
- compressional wave velocity, uncorrected, vs. bulk density, 171B_A5:228
- compressional wave velocity, vertical
vs. depth, 138A(1)11:313; 138A(1)12:370; 186A4:134
vs. porosity, 190/196B7:18–19
- compressional wave velocity, wet, vs. dry, 140A2:136
- compressional wave velocity anisotropy. *See* anisotropy, compressional wave velocity
- compressional wave velocity from monopole source logs, vs. depth, 200A4:53, 149; 200B1:30
- compressional wave velocity logs
basalts, 144A9:319
measurements, 193A3:94
vs. bulk density logs, 203A3:70
vs. depth, 144B40:666, 669; 183A5:160, 162; 8:92; 189A3:110, 115; 5:106, 111; 7:97, 101; 190A4:81; 193A3:256; 4:217; 197A3:131; 202A9:68; 10:63; 12:67; 204A3:94; 6:65; 9:71; 11:48; 205A4:164; 208A4:64; 6:76, 78; 209A10:148
vs. neutron porosity logs, 203A3:70
vs. resistivity logs, 203A3:70
- compressional wave velocity modulus, vs. porosity, 163A4:46
- compressional wave velocity/shear wave velocity ratio
Site 504, 137/140B24:281–283
vs. depth, 137/140B24:283; 144B40:669
vs. density, 153B25:453
- compressional wave velocity/transverse wave velocity ratio, vs. depth, 183A5:160
- compressive strength, unconfined
fault gouge, 180A11:11
sediments, 180A6:291–294; 7:88; 9:50, 219–223
vs. depth, 180A6:174; 7:61; 9:127
- compressive strength, uniaxial, basalts, 137/140B31:348
- computed tomographic analysis, gas hydrates, 204B21:1–11
- computed tomographic CT-value constant
vs. water content, 155B28:471
vs. wet bulk density, 155B28:471
- computer models, geochemistry, 137/140B5:53–61
- computer programming. *See* Backus-Naur form (BNF)
- concentration-dependent parameters, deep-sea sediments, 185B7:6–7
- concentration gradients, pore water, 150X_B24:339–340
- concretions
alteration, 139A7:496; 169A3:82; 187A8:7
apatite, 145B27:426
authigenic carbonates, 105B10:139–143; 11:170
authigenic siderite, 184B13:1–15
calcite, 165B7:130–131
carbonates, 139A6:204; 139B9:140–142; 12:294–295; 165B7:133
compaction, 165B7:133
dolomite, 165B7:130–131; 175A16:495
geochemistry, 177A9:13
goethite, 180A1:6; 180B6:11
lithology, 157A10:507; 162A8:263; 167A(1)14:395; 15:437; 170A5:159, 161; 7:220; 180A6:28; 184A9:6–7, 10–11; 191A4:11; 194A9:4; 195A3:14; 201A9:11; 210A3:38
oxides, 208A5:5–6
photograph, 151A11:358–359; 141A9:313; 10:354; 149A6:164; 162A8:267; 177A9:28; 180A5:62; 187A12:21
photomicrograph, 187A8:20
porcellanite, 130A8:306
preferred orientation, 141B8:111
pyrite, 151B32:572
sandstone, 146B(1)29:425–426
sediments, 151A9:281–282; 162A8:267; 205A5:18
upwelling, 175A1:16
volcaniclastic sand, 180B7:6
X-ray imaging, 210B6:5
See also clasts; microconcretions; nodules
- concretions, anhydrite
lithology, 169A3:52
photograph, 169A3:57

- concretions, authigenic carbonate
 distribution, 164A8:275
 lithology, 164A8:246–247
concretions, brecciated carbonate, photograph,
 146A(1)7:331–332
concretions, calcareous, photograph, 186A5:63
concretions, calcite, Juan de Fuca Ridge, 139B9:141–142
concretions, carbonate
 composition, 146B(1)6:121–127
 distribution in cores, 146A(1)5:153
 hydrothermal alteration, 169A3:84
 Juan de Fuca Ridge, 139B9:140–142; 12:294–295
 lithology, 164A8:246; 169A3:52; 4:166–167;
 174AXS_A5:32–33; 181A5:5–6; 210A3:22–25
 location, 204A7:64
 photograph, 146A(1)5:146; 7:318; 165B7:137–139;
 205A5:62; 210A3:231
 photomicrograph, 210A3:233
 vs. depth, 146A(1)5:144; 164A8:251
concretions, clay, lithology, 172A3:38–40
concretions, D-phosphate, photograph, 201A9:33
concretions, dolomitized clay, photograph, 172A3:39
concretions, goethite
 lithology, 180A1:6; 6:28; 180B6:11
 photograph, 144B19:397
 photomicrograph, 180B7:51–52
 volcaniclastic sand, 180B7:6
concretions, hematite, lithology, 174AXS_A4:26–28
concretions, manganese, lithology, 151A11:357–359
concretions, manganese/iron, photograph, 197A4:43
concretions, pyrite
 lithology, 170A3:53; 174AX_A1:22
 photograph, 210A3:164, 230
concretions, septarian, photograph, 210A3:236
concretions, siderite
 deposition, 159B8:73
 fluid inclusions, 210B5:13–14
concretions, siliceous, photograph, 165B7:137, 139
condensation, fluid inclusions, 147B11:219, 221
condensed sections
 deposition, 192A6:12
 Oligocene–Miocene upwelling, 150B10:181–182
 Pleistocene, 133B25:353–364
conductance. *See* specific conductance
conduction
 heat flow, 158A3:23–29
 See also thermal conductivity
conductive heat
 sediments, 160A9:317
 reheating in oceanic crust, 123B9:198
conductive minerals
 Formation MicroScanner imagery, 193A4:220
 resistivity-at-the-bit, 193A4:229
conductivity
 headspace gases, 201B21:6–7
 Japan arc, 128A3:85
 sample and fluid conductivities, 169B8:29
 Site 700, 114B34:651, 653
 tests, 201B21:1–21
 vs. formation factor, 169B8:42
 vs. porosity, 114B34:654
 vs. resistivity, 169B8:42
 See also electrical conductivity; resistivity; tempera-
 ture-pressure-conductivity tool; thermal con-
 ductivity
conductivity, hydraulic, diatomaceous sediments,
 112B42:633–637
conductivity, normalized, vs. depth, 201B21:18
conductivity-temperature-depth profile
 Kerguelen-Heard Plateau S, 119A4:109
 recorder profile, 205A4:153
 Prydz Bay, 119A4:109
confining pressure
 attenuation, 176B5:8–9
 evolution, 190/19610:12
 permeability, 190/19610:1–16
 stress, 146B(1)22:356–357
confining units, aquifers, 150X_B24:318–320
conglomerate
 age, 183A8:12
 Albian, 159A5:103; 159B2:14
 alteration, 183A6:50
 Argo Abyssal Plain-Exmouth Plateau, 123A3:38, 41
 Barremian, 143A7:204
 basalts, 197A5:10
 basement, 180B(synthesis):5–7; 183A1:6, 17–19, 32–
 33, 41–44; 7:34; 197A6:7
 cores, 180A1:50
 correlation, 135B22:367–368
 debris flows, 149B47:719
 deposition, 149A6:204
 diabases, 180A1:8
 environment, 204A8:9
 garnets, 183B16:1–8
 geology, 188A1:8–9
 lithofacies, 135B12:175–178; 149B45:691;
 160B43:549–564
 lithologic motifs, 173A7:170, 172
 lithology, 134A7:106–108; 12:406; 138A(1)9:127;
 141A7:165–170; 8:251; 145A6:217; 149A4:60–
 62; 6:158–159; 150A9:265–272; 10:317–318;
 152A7:78; 152B8:102–103; 160A11:381–383;
 163X_A5:4; 173A4:74–77; 8:228–234, 238–241;
 180A5:10–18; 6:29–31, 35–38; 7:8; 9:20–21;
 180B6:7–8, 11, 16; 182A1:22; 6:5–6; 183A5:6–8,
 13–27; 6:8–9; 194A4:9; 196A4:15; 197A4:8–9;
 207A8:4–6; 210B9:7–8, 10–11
 lower Aptian, 192A6:9
 Lower Cretaceous, 149B36:578–580
 Messinian, 161B43:545
 ophitic diabase, 180A1:6
 Paleocene, 173A6:114
 petrology, 180A12:26
 photograph, 138A(1)9:136; 141A8:249; 144B44:763;
 149A6:164; 150A9:268–271; 150B11:210;
 159A5:83; 160A11:387; 173A6:119; 180A12:90;
 182A6:49; 183A1:99; 5:71–72; 197A1:60; 5:43;
 204A4:57; 207A8:44
 photomicrograph, 173A7:174; 183A1:100; 5:109;
 197A5:59–60; 210B9:53
 Pliocene, 160B37:477–478; 180A1:16; 180B(synthe-
 sis):10

- porcellanite pebbles, 127A7:344–345
 remanent magnetization, 197A3:120
 sedimentation, 141B31:395; 180A1:3
 seismic profiles, 135B21:346
 structure, 159B2:14, 16
 Site 748, 120B(1)10:140, 144
 terrigenous sedimentation, 180A1:10
 unconformities, 180B(synthesis):9
 volcanoclastics, 180B3:3–4
 vs. depth, 183A5:138–140
 water content, 134B30:544
See also cobbles; fanglomerate; gravel; lithologic contacts, conglomerate-d diabase; microconglomerate; orthoconglomerate; paraconglomerate; pebbles
- conglomerate, barnacle-oyster, Peru margin, 112A6:96
 conglomerate, basal, guyots, 144B44:749–750
 conglomerate, basaltic, photograph, 135A(1)11:594
 conglomerate, calcareous
 lithology, 197A5:6
 photograph, 197A5:37
 conglomerate, carbonate granule, lithology, 210A3:26–28
 conglomerate, chaotic mud-clast, photograph, 210A1:64; 3:220–221
 conglomerate, clast- and matrix-supported, lithofacies, 150B11:203, 205
 conglomerate, clast-supported
 lithofacies, 150B11:209–210; 160B37:471
 photograph, 150B11:215
 conglomerate, clay
 lithology, 149A4:58–59; 164A5:69–70, 75–80; 6:110
 sediments, 164A8:247–249
 conglomerate, clay-clast
 lithology, 171B_A4:103
 photograph, 171B_A4:110
 conglomerate, fluvial, basement, 183A1:35
 conglomerate, graded, photograph, 180A7:30; 210A3:146
 conglomerate, granule, lithology, 180A8:10; 12:22; 182A1:17
 conglomerate, granule-pebble, photomicrograph, 192A6:60
 conglomerate, intraclastic, lithology, 133B27:385, 391
 conglomerate, intraformational, photograph, 141A7:170
 conglomerate, limestone, photograph, 192A1:67; 6:59
 conglomerate, lithoclastic, photomicrograph, 173A4:79–80
 conglomerate, manganese-coated limestone, photograph, 144A6:219
 conglomerate, manganese-phosphate coated, lithology, 144A6:212–214
 conglomerate, matrix-supported
 Cretaceous/Tertiary boundary, 123A4:107
 lithology, 180A9:23–24
 Miocene, 123B1:19–20; 7:151–152
 photograph, 180A9:83
 physical properties, 123B34:635
 Site 765, 123A4:77–79, 81, 83
 conglomerate, mixed-cobble, lithology, 163A5:52; 163B7:68
 conglomerate, mud-clast, lithology, 135A(1)5:193–196; 135B52:832–833
 conglomerate, mudstone-clast, lithology, 190A8:6
 conglomerate, mudstone-pebble
 grain size, 131A6:84–85
 Neogene, 131A6:90–91
 photograph, 131B26:327
 conglomerate, pebble, photograph, 144A4:117
 conglomerate, pebble and cobble, lithology, 182A6:10–11
 conglomerate, phosphatized, lithology, 144A4:117
 conglomerate, phosphatized limestone
 biostratigraphy, 144A5:168, 172–173
 lithology, 144A5:154–155
 photograph, 144A5:158
 conglomerate, polymictic
 lithology, 183A5:7
 photograph, 149A4:60
 Site 741, 119A10:381
 Site 766, 123A5:280
 conglomerate, pumice, physical properties, 126B36:546
 conglomerate, redeposited, photograph, 205A6:31
 conglomerate, sed-lithic, lithology, 134A10:273
 conglomerate, soft mud-cobble, photograph, 171B_A6:252
 conglomerate, tuff-pebble, photograph, 156A6:101
 conglomerate, tuffaceous, forearc basins, 180B(synthesis); 7
 conglomerate, volcanic
 Formation MicroScanner imagery, 183A5:165
 lithology, 135A(1)8:351–352; 11:590–593; 135B6:87–92; 144A11:421–422; 152A9:115; 10:170–173; 183A1:18; 5:25
 vs. depth, 183A5:86
 conglomerate, volcanic lithic, Site 792, 126B11:172
 conglomerate, volcanoclastic
 lithology, 135A(1)10:508–509
 nannofossils, 192A3:12
 conglomerate, weathered, lithology, 180B6:14
 conglomerate clasts. *See* clasts, conglomerate
 conglomerate tests
 basement, 197A3:35
 thermal demagnetization, 173A7:185; 8:248
- Coniacian
 biomagnetostratigraphy, 171B_A4:134
 biostratigraphy, 129B12:229; 159B25:278–279; 27:335, 338; 30:379; 31:393; 35:489; 174AX_A1:38; 183A3:13; 6:15; 183B3:10–13; 189B5:28; 192A6:13; 198A9:22; 198B6:6; 207A4:12; 5:14; 6:15; 8:14, 18; 210A3:78
 clays, 159B7:63
 limestone, 192A1:11
 lithology, 159A5:80–81; 6:166–170; 171B_A4:103, 105; 174AX_A1:32–33; 174AXS_A1:57; 4:15; 5:37–38
 marginal ridges, 159B8:76–78
 paleoenvironment, 192A3:24–25
 paleomagnetism, 159B20:203–204
 paleotopography, 159B11:106
 periplatform deposits, 159B11:102–103
 photograph, 171B_A4:111–112; 192A6:50

- photomicrograph, 198A3:75
 sedimentation rates, 207A8:23
 sediments, 171B_A4:107
 seismic stratigraphy, 149B39:623
 Sites 1276 and 398 comparison, 210A1:27
 stratigraphy, 160B32:412; 174AXS_A5:62; 198A8:5
 strontium isotopes, 174AXS_A4:29; 5:50
 volcanic ash, 192A1:6
See also Albian/Coniacian boundary; Albian–Coniacian interval; Aptian–Coniacian interval; Cenomanian–Coniacian interval; Turonian/Coniacian boundary; Turonian–Coniacian anoxic event; Turonian–Coniacian interval
- Coniacian, middle, nannofossils, 183A6:15
 Coniacian–Campanian interval
 oxygen isotopes, 174AXS_A(summary):9–10
 Pigafetta Basin, 129A4:183–184
 Coniacian/Santonian boundary
 biostratigraphy, 144B8:166
 transmission light microscopy, 207B2:29
 Coniacian–Santonian interval
 facies, 192A3:61
 foraminifers, 207A4:15
 lithology, 192A3:10–11
 Coniferales. *See* conifers
 conifers
 Japan Sea, 127/128B(1)19:327–328
 Japanese archipelago, 127/128B(1)19:334
 kerogen, 183B3:6
 palynomorphs, 188B2:10–11; 3:11–12
 photomicrograph, 183B3:32
 pollen, 133B9:109
 Raggatt Basin, 120B(1)18:275
 ratio vs. age, 167B17:226
 Site 750, 120B(1)17:258
 Site 798, 127/128B(1)18:318–319
 vs. depth, 151B15:295
 See also Araucariaceae; Chierolepidaceae; Cupressaceae; Taxodiaceae
 conjugate continental margin. *See* continental margins, conjugate passive
 conjugate fractures. *See* fractures, conjugate
 conjugate margins. *See* continental margin, conjugate
 connate brackish water, pore water, 127/128B(1)34:607–608
 connectors
 electron microscopy, 185B9:23
 microfabrics, 185B9:9–12
 consolidation
 analytic methods, 119B9:170–172
 anomalies, 178B17:9
 Argo Abyssal Plain–Exmouth Plateau, 123B25:494–498
 Atterberg limits, 127/128B(2)71:1124
 axial displacement, 205B10:18–24
 calcareous sediments, 130B40:677
 clays, 113B18:230; 190/196B6:13
 clays and oozes, 144B56:985–990
 cores, 149A6:197
 debris flows and slumps, 127/128B(2)71:1125
 décollement zone, 190/196B12:4
 definitions, 127/128B(2)71:1123
 diagenetic effects, 121B12:258
 diamictite, 119B9:174; 48:884
 diamicton, 119B8:152, 154, 174
 excess pore water pressure, 127/128B(2)71:1125–1127, 1129
 expulsion rates, 146B(1)28:417
 fault splays, 146B(1)23:362–366
 fluid pressure, 156B17:236–237
 gassy sediments, 127/128B(2)71:1129
 grain size, 194B7:18
 hydraulic conductivity, 146B(1)17:284–289
 indicators of over- and underconsolidation, 101B22:316
 in situ pore water pressure, 127/128B(2)71:1124
 leakage from artesian water or gas pressure source, 127/128B(2)71:1129–1130
 lithology, 190/196B1:22; 201A11:12
 normally consolidated/underconsolidated sediment boundary, 127/128B(2)71:1124
 oedometer tests, 127/128B(2)71:1125–1127; 144B56:986
 organic-rich sediments, 112B43:640–641, 644, 646–648
 overburden pressure, 127/128B(2)71:1125–1129
 physical properties, 138A(1)12:366–367
 porosity, 130B42:687–694; 165B10:181–183; 178B30:4–7; 190/196B11:6
 porous sediments, 149B20:363–373
 preconsolidation pressure, 127/128B(2)71:1125–1129
 processes, 113B17:211; 127/128B(2)71:1123
 Prydz Bay, 119B9:172, 175
 reconsolidation-consolidation stress paths, 149B20:366
 response at postyield stresses, 149B20:369
 Salaverry Basin, 112B43:640–641, 644, 646–648
 sedimentation 127/128B(2)71:1124–1125, 1129–1130; 80:1277
 sediments, 130B41:673–686; 133B42:625–632; 135B48:794; 138B16:357–369; 139B40:630–634; 145B35:525–548; 146A(1)5:220; 11:421–426; 146B(1)16:275–276; 150B21:379–382; 154B4:152–153; 156B7:109–114; 164B40:422–423, 426; 169B8:10–12; 174A_B7:19; 190/196B7:5–7; 12:9; 204B12:1–148
 shallow sediments, 194B7:1–28
 shear strength, 113B17:211; 186B17:13
 shear strength/overburden pressure ratio, 127/128B(2)71:1125–1126
 Shikoku Basin Facies, 190/196B12:18
 siliciclastics, 119B9:174
 Site 702, 114A9:505
 Site 751, 120B(1)13:182, 184
 Site 798, 127/128B(2)71:1125–1127
 Site 799, 127/128B(2)71:1125, 1127
 stress tests, 113B17:212; 121B12:258; 156B24:304–309
 subducting sediments, 205B10:1–24
 variations, 133B41:617–623
 velocity, 155B29:491–492
 void ratio, 121B12:259; 127/128B(2)71:1126, 1128

- vs. depth, 150B21:383; 154A6:121
- vs. time, 185B11:8
- vs. void ratio, 164B40:427–428
- well-logging, 171A_A4:46–47; 186A4:55
- See also* overconsolidation; overconsolidation ratio (OCR); preconsolidation; pressure; reconsolidation; stress; Terzaghi consolidation theory; underconsolidation
- consolidation, one-dimensional
 - deformation, 131B29:371
 - dewatering, 131B7:84–88
 - effective stress, 156B7:111
 - sediments, 131B19:241; 20:249–252; 21:261–263; 23:285–286
- consolidation, postrift, clay minerals, 149B19:353–361
- consolidation, secondary, sediments, 156B17:230
- consolidation, uniaxial, yield envelope, 149B10:364
- consolidation index, vs. unloading slope, 139B40:635
- consolidation plots, effective stress, 167B31:334–336
- consolidation system, photograph, 205B10:8
- consolidation tests, sediments, 155B6:139; 160B48:630–632, 637–640; 195A6:15
- constructional hypothesis, outer perimeter ridge, 144B15:303–304
- contaminants, core
 - high-probability occurrence, 104B13:298–300
 - low-probability occurrence, 104B13:304–307
 - medium-probability occurrence, 104B13:301–303
- contaminants, magnetic susceptibility, 101A4:39–43
- contamination
 - bacteria, 190A4:23–24, 71–72, 140–141; 5:28–29, 143–144; 6:20, 88–89; 8:20–21; 204A3:23; 4:19
 - crust, 152B27:318–321; 28:343–344; 29:351–357; 40:493–494; 163B7:71, 85, 87; 191B3:3
 - drilling fluid, 190A5:143; 6:88; 8:88; 9:23; 201A2:1–19; 201B1:11–12
 - fluorescent microspheres, 190A5:144; 6:89; 8:89; 9:105; 201A2:7
 - gabbros, 205A4:183
 - ichthyoliths, 145B26:403–404
 - lava flows, 152A9:137–139; 152B32:400
 - lithosphere, 152B41:508–509
 - microbiology, 193A3:74; 201A1:17–18; 7:18–22; 8:19–21, 63–65; 9:15–17, 67–70; 10:18–19; 11:20–22; 12:17–18; 206A3:86
 - middle series magmas, 163B9:105–110
 - palynomorphs, 188B3:9–10
 - peridotites, 209B5:6–10
 - sample grinding, 135B58:927–929; 142B10:77
 - samples, 164A6:132
 - seawater, 201A10:73; 11:100; 12:61; 205A4:181–182
 - sediments, 190A9:22–23; 205A4:50–53
 - slurries, 201A10:74–75; 11:101; 12:62
 - tracers, 205A5:36
 - See also* bead contamination test; fluorescent microspheres; perfluorocarbon tracers
- contamination, metallic, sediments, 102A3:142–143
- contamination tracers, microbial populations, 187B6:8, 27
- continent/ocean boundary (COB)
 - Argo Abyssal Plain, 123B36:660, 662
 - cross section, 163X_A1:15
 - Exmouth Plateau, 123B31:575; 43:801
 - geodynamics, 159B11:101–110
 - Greenland margin SE, 152B39:463–475; 41:528–529
 - magnetic anomalies, 123B36:667
 - seismic reflectors, 152A1:9–12
 - Site 766, 123B42:793
 - transgressions, 152B41:516–517, 522
- continent–ocean transforms
 - Cenomanian–Coniacian interval, 159B12:116–117
 - Stage 2, 159B11:105–106; 25:292
- continental blocks, gateways, 189A1:49–50; 189B1:7
- continental breakup
 - acoustic basement, 149B47:721
 - Aptian, 210A3:53
 - isotopes, 152B29:351–356; 32:398; 41:503–533
 - magnetochrons, 163B6:60–61
 - Mesozoic, 133A(1)1:16
 - ocean–continent transition, 149B47:727
 - rifting, 149B40:636–645
 - seafloor spreading, 210B9:1–69
 - tectonic models, 210B9:31–33, 66–67
 - See also* extrusive breakup complexes
- continental collisions
 - continental margins, 160A1:6–10
 - seamounts, 160A17:513–520; 160B37:465–481; 51:681–699; 53:709–721
 - subsidence, 160B39:509–515
 - tectonics, 160A1:14–16; 160B50:670–672; 54:772
- continental crust. *See* crust, continental
- continental derivation, sediment provenance, 180B6:19
- continental drift
 - Cretaceous, 182A1:3
 - Spitsbergen, 151B15:296
- continental environment
 - Cenozoic, 161B42:539
 - pollen, 161B36:462–464
 - Quaternary, 161B36:457–468
 - See also* paleoenvironment; terrigenous environment
- continental fragments, Kerguelen Plateau, 120B(1)2:33; 3:55
- continental lithosphere. *See* lithosphere, continental
- continental margins
 - accretion, 146A(1)1:5–7; 146B(1)22:350–351
 - anomalies, 173A1:15
 - bathymetry, 133A(1)1:6
 - Brazil, 155A1:5–16
 - breakup, 152A1:5–16
 - Cenozoic, 182A1:3; 182B1:3–4; 189A1:1–4
 - conjugate margins, 149B47:729–731
 - continental collisions, 160A1:6–10
 - divergence, 160B52:706
 - dolomitization, 133B35:513–523
 - evolution, 133B51:755–770; 155A1:5–8
 - geodynamics, 159B5:46–47
 - geologic history, 149B1:9–16; 152A13:288–292; 159A1:5–16; 9:297–313
 - geometry, 155B3:48–49
 - glacial history, 178B(synthesis):1–40
 - hydrocarbon gases, 164B3:29–46
 - Iberia W, 149A1:5–10

- New Jersey, 150A1:5–9
- Norwegian-Greenland Sea, 151A1:9–10
- ocean circulation, 155A2:17–21
- oceanic basalts, 163B7:71–72
- paleoclimatology, 174AXS_A(summary):3–5
- paleoenvironment, 133B12:163–173
- physiography, 149B1:4, 6–7
- plate tectonics, 162A1:6
- progradation, 150B20:371–372
- rifting, 149B43:665–674; 173A1:7
- sand provenance, 149B10:269–280
- seafloor spreading, 189A1:7
- sea level changes, 133B16:203–233; 150A2:11–20
- sediment instability, 164A1:6
- sediment provenance, 180B6:21–24
- sedimentation, 133B22:303–313; 141B31:379–397; 175A19:543–546
- sedimentology, 155A6:117–120
- sediments, 146A(1)4:98–99, 104, 106, 109; 146B(1)15:259–261
- seismic stratigraphy, 141B9:121; 155A1:14; 163A1:5–13; 174A_A1:5–16
- serpentinite breccia, 149B36:577–591
- South America, 155B7:153–154, 156
- subduction zones, 141A1:5–7; 146B(1)6:119
- subsidence, 152A13:282–283; 189B1:4
- tectonics, 141A2:11–21; 159B1:3–11; 178A1:4; 2:7–9, 39; 194A1:4–5
- turbidites, 155B5:85–88
- See also* marginal ridges
- continental margins, active, sediment provenance, 180B6:21–22
- continental margins, conjugate
 - dynamic models, 149B40:635–647
 - extension, 149B40:641–643
 - lithology, 210A1:71; 3:57–63, 241; 210B2:19; 4:11
 - plate tectonics, 203B2:27
 - mid-Cretaceous, 207B2:3–5
 - seismic profiles, 163B1:7, 13–15
 - tectonics, 149B47:729–731
 - transect, 151A11:348–349
 - See also* continental margins
- continental margins, conjugate passive, structure, 180B(synthesis):3–4
- continental margins, conjugate rifted, upper-plate paradox, 180B(synthesis):19
- continental margins, convergent
 - bottom-simulating reflection, 141B19:253–258
 - fault planes, 190/196B15:5–8
 - geochemistry, 112B25:433; 205B2:1–22
 - hydrate stability field, 141B18:251–252
 - hydrology, 205A1:11–13; 205B6:3
 - hydrothermal alteration, 205B3:1–16
 - Lau Basin, 135B55:880
 - metamorphism, 125A4:77
 - microbiology, 205B8:1–26
 - oceanic crust, 205A1:7–8
 - plate motion, 146A(1)1:5–7
 - subduction, 205A1:1–3; 205B1:1–54
 - thermal overprinting, 141B4:59–76
 - transition zone, 112A9:136, 14:364, 397–398; 15:438–439; 17:597–598, 647
 - underthrusting, 186A1:4–5
- continental margins, nonvolcanic, rifting, 173A1:7
- continental margins, passive
 - Albian–Turonian interval, 159B2:20
 - Coniacian–Eocene interval, 159B12:117–119
- continental margins, 160A1:6–10
- deposition, 159B8:73
- eustatic records, 150A2:12
- Galicia margin W, 103A1:3
- geology, 150A1:7
- glacioeustacy, 150B6:111–113
- hiatuses, 159A7:234
- magmatism, 123A1:7
- Norwegian-Greenland Sea, 151A1:11–16
- rock magnetism, 150B19:347–359
- sand provenance, 149B11:269–280
- Sardinian margin, 107A8:410; 10:749
- sediment provenance, 180B6:22
- Stage 3, 159B11:106–107; 25:292
- tectonics, 150X_B1:4; 14:181–183; 181A1:4
- transform faults, 159A1:11–12; 9:297–298, 306–309
- Tyrrhenian Sea, 107B38:62
- continental margins, subsidence, paleoenvironment, 159A6:176
- continental rise
 - authigenic carbonates, 188B15:1–15
 - biostratigraphy, 178B2:1–10; 28:1–22; 29:1–25
 - clay minerals, 178B8:10
 - deposition, 178A1:5–11; 2:20–21; 178B(synthesis):9–14; 189A1:7
 - glacial signal, 178B10:1–22
 - grain size, 178B12:1–34
 - ice sheets, 178B(synthesis):16–17
 - insolation, 178B(synthesis):16–17
 - kaolinite, 188B1:9
 - lithology, 173A8:228–234
 - magnetostratigraphy, 178B37:1–61
 - marine-glacial environment, 178A2:9–13
 - morphology, 152B1:5–6
 - Neogene, 178B25:1–25
 - ocean circulation, 188A1:6
 - opal, 178B23:1–33
 - pebbles, 178B11:1–23
 - principal results, 188A1:19–23
 - salinity and temperature, 178A2:34
 - sediment transport, 150A1:8
 - sedimentation, 150A2:16–19; 152B1:3–18; 178B(synthesis):16–17
 - sediments, 150B11:220–226; 152B2:19–28
 - seismic stratigraphy, 178B17:1–36
 - synthetic seismograms, 188B10:1–28
- continental runoff, Quaternary, 146B(2)11:160–161
- continental sedimentation. *See* sedimentation, continental
- continental shelf
 - authigenic carbonates, 188B15:1–15
 - biostratigraphy, 178B28:1–22
 - Chile margin, 141A2:18–20
 - clay minerals, 178B8:8–9

- core recovery, 178B(synthesis):15–16
- deposition, 178A1:3, 11–15; 2:5; 9:9; 182B1:6; 189A1:7
- Eocene, 150X_B16:214–221
- evolution, 133A(1)1:17
- glaciation, 178A9:9
- Greenland E, 152A5:49–52; 152B3:29–38
- marine-glacial environment, 178A2:9–13, 20–22
- morphology, 188B1:9–11
- New Jersey, 150A1:5–9
- oceanic circulation, 151B17:310–311
- paleoenvironment, 178B(synthesis):5–9
- principal results, 188A1:11–16; 188B1:5
- rejuvenation, 133B27:399
- sedimentation, 155B23:384–388
- sediments, 188A1:2–3
- seismic sequences, 150A2:15–16; 178A9:25
- sequence stratigraphy, 174A_B(synopsis):2–5
- Site 748, 120B(1)23:401; (2)20:316
- Site 750, 120B(1)23:406–407
- stratigraphy, 152A10:159–175
- synthetic seismograms, 188B10:1–28
- velocity, 178B16:1–25
- See also* middle shelf; saline shelf water; shelf topsets; shelf transects; shelf water
- continental shelf, outer
 - diagenetic dolomite, 201B13:6–8
 - Miocene/Pliocene boundary, 174A_A3:86–88; 4:134–135
 - sequence stratigraphy, 174A_A5:182
- continental signal
 - mass accumulation rates vs. age, 175B11:22
 - phytoliths, 175B11:10–11
- continental slope
 - accretionary wedges, 146A(1)8:384–387
 - bathymetry, 188A1:5
 - cyclostratigraphy, 166B7:77–88
 - deposition, 178A4:11; 9:9; 189A1:7
 - diagenesis, 166B3:23–31
 - morphology, 152B1:5–6
 - Neogene, 150B14:280
 - New Jersey, 150A1:5–9
 - paleoenvironment, 178B(synthesis):5–9; 8:3–4; 184A1:29–37
 - principal results, 188A1:16–19
 - sand, 141B10:133
 - sedimentation, 146A(1)5:217–218; 150A2:16–19; 152B1:3–18
 - sediments, 141B6:89–92; 7:96–98; 146B(1)15:261–262; 150B12:229–239; 178A2:12–13; 178B8:3–4
 - sequence stratigraphy, 174A_B(synopsis):2–5
 - tectonic erosion, 186A1:9
 - thermal regime, 202B1:5
 - See also* slope foresets; upper slope
- continental slope, upper
 - diagenetic dolomite, 201B13:5–6
 - sequence stratigraphy, 174A_A5:182
- continentality index
 - Cagayan Ridge, 124A12:310–311
 - Celebes Sea, 124A10:138–139
 - convection, 124A7:104; 11:246
 - cooling units, 124A11:261
 - Sulu Sea, 124A11:217–218
- continents. *See* ocean–continent transition
- contorted bedding. *See* bedding, contorted
- contour currents
 - Baffin Bay, 105B38:767; 51:958, 982
 - carbonates, 173A7:174–175
 - ice-rafted debris, 178B10:6
 - influence on deposition, 112A5:89
 - Labrador Sea, 105B1:5
 - ocean circulation, 188A1:6
 - photograph, 172A4:92
 - sedimentation, 152B1:3–18; 178A1:6
 - seismic facies, 188B14:9
 - seismic stratigraphy, 149B39:623
 - winnowing, 173A7:217
 - Yaquina Basin, 112A7:118
- contour maps
 - top of Cretaceous platforms, 143B29:460, 464–466, 469
 - top of Lower Cretaceous, 143B21:438–439, 450; 31:519
- contour plots
 - fine fraction, 178B24:16, 17
 - hydrosweep data, 190A2:11
- contourites
 - Atlantic Ocean E tropical, 108B18:323
 - Baffin Bay, 105B1:12, 15; 51:978–979
 - biochronology, 133B1:15–16
 - bottom-current influence, 108B18:318–319
 - Cenozoic, 149A5:145
 - characteristics, 108B18:320
 - deformation, 173A6:136–138
 - deposition, 149A4:57–58
 - grain size, 141B6:91–93; 149B40:749; 167B25:291
 - identification, 105B42:797
 - Lima Basin, 112A5:83, 84, 89
 - lithofacies, 149B40:747–748; 45:689–690; 161B2:28
 - lithology, 149A4:58; 6:158; 164A6:111; 9:286; 165A3:59; 172A4:93; 173A8:228–234; 178A5:5–6; 181A1:18–20; 6:7–12; 188A3:16, 19–21; 198A4:15
 - Neogene, 108B18:321
 - Oligocene and Miocene, 149B45:695–696
 - photograph, 149A5:126–127; 6:157; 7:222–224, 237; 159B2:21; 165A3:60; 178A8:32; 181A6:49
 - Pliocene–Pleistocene interval, 161B4:64–65
 - sedimentary structures, 172B7:1–37
 - sedimentation, 141A10:361–363
 - structure, 178A5:51
- contourites, muddy, lithology, 181A3:10
- contractive structures
 - evolution, 161B44:573, 577
 - post-Miocene interval, 161B44:569–570
- control console, instruments, 124E_A2:32
- control points
 - magnetic susceptibility age models, 175B22:17
 - sedimentation rates, 177A3:45
- convection
 - basalts, 152B40:481
 - basement, 168B1:4

- geochemical effects, 121A2:533
 geothermal platform margins, 101B13:198
 Greenland Sea, 162A1:11
 heat flow, 168A2:30–31
 heat transfer, 137/140B28:323
 hydrothermal fields, 158A1:8
 sediments, 135B48:794
 thermal structure, 186B1:7
 volcanic rocks, 148B35:436–437
 convection, supercritical, sediment/basalt interface, 139B42:667–675
 convergence
 Atlantic Ocean SW, 114A5:96
 Caribbean area earthquakes, 101B29:469
 Hokkaido W-Honshu N thrust belt, 128A3:76
 Iberian and European subplates, 103A1:5, 7
 Indo-Atlantic Basin, 114A5:88
 Japan Basin E, 127A6:258
 planktonic foraminifers, 138B25:561
 South American-Malvinas plates, 114A2:23; 114B2:37
 subduction, 190/196B1:3
 volcanism, 193A1:3–5
 convergent plate boundaries
 extensional tectonics, 161B44:574–576
 mud volcanism, 160B50:675–678
 seamounts, 160A1:9–10; 160B51:696–697; 53:716–717
 convolute bedding. *See* bedding, convolute
 convolute laminations. *See* laminations, convolute
 cool environment, planktonic foraminifers, 189B10:3
 cooling
 alkenone stratigraphy, 184B17:1–17
 Cretaceous, 113B46:820–821; 144B45:787
 crust, 176B9:21–22
 curves of mid-ocean-ridge basalt, 187B7:4–9
 Eocene–Oligocene interval, 189A7:24–25; 189B1:12
 explosive volcanism, 165B20:312
 faunal assemblages, 164B34:361–362
 lava, 163B12:135–148
 Maastrichtian, 192B2:1–15
 metamorphic rocks, 161B21:296; 22:303
 petrography, 192A3:26–28
 Pliocene, 145B21:316–317, 325
 Site 703, 114A10:559
 Site 704, 114B25:465, 468; 26:479–480
 stable isotopes, 113B46:819
 summer sea-surface temperature, 177B(synthesis):45
 thermal events, 159B11:105
 See also glacial–interglacial cycles
 cooling joints, lithology, 187A11:4
 cooling units
 alteration, 200A4:173–174
 basalts, 136B3:50
 basement, 185A3:10–12
 chemical correlation, 129B19:364, 366
 dikes, 137/140B2:22–23, 25–27, 29–31
 paleosecular variations, 210B15:10–11
 petrography, 129B17:306–308
 radiometric ages, 129B20:391–392
 size vs. depth, 192A1:71; 7:24
 strain localization, 137/140B19:226, 228
 vs. depth, 135A(1)6:269; 7:321; 185A1:48; 3:69–70
 cooling units, nonvesicular, glassy spherulitic margins, 129B18:346
 cooling units, volcanic
 Cretaceous, 129B18:345–359
 petrography, 129B19:362–363
 copepods, sediments, 175B10:12
 copper
 alteration, 193B1:19, 37, 48–49; 197A3:29
 basalts, 115B7:81; 135B35:599; 169A3:96
 black shale, 210B8:16; 10:5
 Cagayan Ridge, 124B29:389–392, 396
 calcite, 168B10:126
 carbonates, 168B11:139, 141
 Celebes Sea, 124A10:136
 chimneys, 193B1:35
 clay minerals, 169B6:6, 24
 crystals, 145A6:274
 deep copper zone, 169A3:76–78
 depletion, 137/140B17:204; 148B4:51; 34:429; 169A3:99
 detrital component, 167B23:267–270
 diabases, 137/140B17:200
 element correlations, 158B4:65; 27:378–381, 384
 enrichment, 135B37:623; 156B13:173; 158B27:377; 169A3:99
 ferromanganese micronodules, 199B14:4–6
 gabbros, 176A3:49–50; 176B6:19; 8:4–14; 179A4:45–47; 179B(synthesis):17
 harzburgites, 125A11:258
 hydrothermal fields, 158A1:9–10; 158B27:370–380; 28:395, 397
 hydrothermal fluids, 139B20:404–405
 hydrothermal sediments, 199B15:3
 inorganic sediments, 154B36:509–516
 jasperoids, 193B9:6
 leaching, 169A3:102
 limestone, 143B13:210, 214, 220
 lithology, 170A3:57; 207B8:10
 manganese nodules, 138B40:808
 mass accumulation rates, 115B38:707
 mass balance, 169A3:98
 metalliferous sediments, 138B37:771, 774
 metallogenesis, 145B25:392–395
 metasedimentary rocks, 152B10:136
 microbial activity, 168B14:170–171; 205B8:8
 mineral separates, 158B2:30; 7:94
 mobility, 115B8:91; 183B15:9–10
 Norwegian Sea, 104A4:90; 104B21:411–416
 Paleocene/Eocene boundary, 199B16:3
 percent change from protolith, 137/140B17:203
 pore water, 116B9:118–121; 13:146–149; 135B42:680–688
 post-oxic conditions, 157B32:567–569
 pyrite, 158B1:12; 193B3:3
 quartz gabbro, 180A11:6
 recommended values and mean values, 142B8:64
 saponite, 168B12:154
 sediments, 129B2:56; 161B2:28, 32–33; 167B23:265; 170A3:77; 4:137–141; 6:206; 171B_B4:4–5; 180B6:5, 8, 10, 16–24; 7:21; 205B3:4

- serpentinites, 149B30:524
 siliceous deposits, 129B2:42
 sills, 139B6:95
 Site 794, 127/128B(2)85:1362
 Site 795, 127/128B(2)85:1365
 Site 797, 127/128B(2)85:1366
 sphalerite, 158B1:13
 stratigraphic variation, 118A6:147
 submarine ferromanganese hardgrounds, 194B8:5–6,
 22
 sulfides, 128A1:21; 139A6:233; 158A7:93–94, 97–98;
 8:156–160; 9:172; 158B3:44; 28:4051 169A3:88–
 89; 169B5:5–6; 176B7:7–9; 193B1:23; 10:3–7
 turbidites, 135B10:155–158
 Turonian–uppermost Santonian, 210B8:9
 volcanic rocks, 135B30:533–542
 vs. alteration percentage, 137/140B6:71; 148B4:49
 vs. barium, 129B2:64–65; 205B3:12
 vs. calcium carbonate, 123A4:156
 vs. cobalt, 158B28:398
 vs. depth, 131B28:350, 356; 137/140B6:68; 7:92;
 14:164; 139A6:224, 226; 7:360; 139B11:229–
 250; 17:359–367; 148A2:61; 3:158; 148B4:48;
 5:61; 10:137; 34:423; 149B30:525; 156B13:179,
 181; 158A7:129; 8:160; 10:195; 158B4:53, 57,
 59, 61; 27:374–376; 160B16:201; 161B2:32–34;
 164B15:158; 167B23:268; 169A3:89, 97;
 170A3:81–82; 171B_B4:9; 176B(synthesis):64;
 6:53; 7:21; 8:12–13, 27–30; 193A3:224;
 193B1:69; 199B15:5; 16:6; 210B8:57
 vs. gold, 135B35:600
 vs. iron in igneous sulfides, 118B5:119–120, 123
 vs. loss on ignition, 148B10:140
 vs. magnesium, 139B20:405
 vs. magnesium oxide, 180B6:14–16, 37
 vs. nickel, 176B7:22; 180B6:15, 39
 vs. palladium, 135B35:600
 vs. palladium-platinum, 135B35:600; 147B4:85–86
 vs. platinum, 135B35:600
 vs. sulfur, 137/140B14:163; 148B10:140
 vs. titanium oxide, 137/140B7:92
 vs. titanium oxide-iron oxide, 148B10:140
 vs. water, 140A2:89; 158B19:265
 vs. zinc, 139A5:139; 148B4:53; 158B28:398
 vs. zirconium, 137/140B7:92; 157A7:363; 8:418;
 157B13:192; 197A3:108
 vs. zirconium/yttrium ratio, 137/140B7:93
 zoning, 158B28:397
 X-ray fluorescence data, 142B8:65–66
See also calcium/copper ratio; cobalt-copper-zinc dia-
 gram; cobalt-nickel-copper diagram; deep cop-
 per zone; zinc-copper-nickel-cobalt-chromium
 diagram
- copper, native
 lava flows, 163A5:55, 62–63
 veinlets, 173A9:279
 vs. depth, 152A9:134; 183A9:98
- copper, whole-rock, vs. whole-rock magnesium number,
 179B(synthesis):78
- copper/aluminum oxide ratio, vs. depth, 131B35:445
- copper/aluminum ratio
 biological productivity, 117B24:434
 lithology, 207B8:25
 sediments, 171B_B4:4
 vs. age, 181B9:5
 vs. depth, 157B32:568; 171B_B4:12
- copper/barium ratio, sediments, 129B2:56–57
 (copper + cobalt + nickel)-iron-manganese system, ferro-
 manganese crusts, 194B8:17
- copper/iron ratio
 sulfides, 158A7:97–98; 8:158
 vs. depth, 158A7:129
- copper-iron sulfides, hydrothermal fields, 158A1:8
 copper-iron-sulfur system, chalcopyrite, 158B1:13
 copper-lead-zinc plots, sulfides, 169A3:90
 copper/manganese ratio, bulk sediments, 199B14:4, 15
 copper mineralization
 grains and veinlets of native copper, 145B25:389–397
See also native copper
- copper minerals, scanning electron micrographs,
 156B13:182
- copper/nickel ratio, vs. magnesium number, 137/
 140B17:203
- copper oxide
 vs. aluminum oxide, 168B14:171
 vs. chlorine, 168B14:171
 vs. magnesium oxide, 168B14:171
 vs. silica, 168B14:171
- copper sulfides, semimassive sulfides, 193A4:39
- copper/zirconium ratio
 alteration, 197A3:29; 4:22–23; 5:19–20; 6:16–17
 vs. depth, 197A3:107; 4:77–78; 5:75; 6:78
- coproliths, photograph, 207A5:51
- coral fragments
 bioherms, 161B43:544–546
 carbonates, 144B6:130; 9:178, 180, 182, 184, 186;
 16:322, 329
 Cretaceous–Paleogene interval, 144B49:873–885
 depositional sequences, 144B47:826–828, 836–840
 distribution, 103B7:94–95
 dolomite, 103B11:181
 floatstone, 103B6:64–65, 69–71, 78; 8:107
 glaciomarine sediments, 163X_A8:3
 guyots, 144B53:945
 lithofacies, 143B30:488–489; 144B14:277–278, 281–
 282
 lithology, 160A8:223; 166A8:177; 9:239–241; 10:295–
 297; 174AX_A1:22; 180A12:17–20; 194A7:6,
 13–15
 macroturbidite, 103B31:517–518
 microsolenid taxa, 103B7:93–94
 Miocene, 160B33:420–422
 Oman margin S, 117A18:560
 paleobiogeography, 144B50:887–893
 paleoecology, 194B5:36
 pennular taxa, 103B7:93
 periplatform environment, 194A4:16–17
 photograph, 144A10:352; 160B33:422; 166A7:158;
 180A12:82; 194A7:55–56
 photomicrograph, 180A9:89
 Site 639, 103B6:60, 66, 81; 11:191–192

- stylinid taxa, 103B7:94
- volcaniclastics, 180B8:5
- vs. depth, 144B14:280–281
- See also Acropora*; hydrozoans; larger foraminifer-coral facies; microfacies; *Porites*
- coral molds, photograph, 194A7:73
- coral patch reefs, environment, 194B5:16
- coral reefs
 - Quaternary, 134A3:35–37
 - tectonics, 184A1:4
 - transgression, 134A3:37–41
- corallinaceans
 - abundance in carbonates, 144B6:130; 9:178, 180, 182, 184, 186
 - Cretaceous–Paleogene interval, 144B50:887–893
 - lithology, 194A7:6–15; 8:5
 - paleoenvironment, 194B2:9–10
 - photograph, 144B9:172; 194A7:74
 - photomicrograph, 194A7:31–32, 38
 - See also algae*; Rhodophyta
- coralline algae. *See corallinaceans*; Rhodophyta
- coralline algal facies, Tertiary, 133B5:67–71
- corals, azooxanthellate
 - lithology, 182A4:6; 8:6
 - photograph, 182A4:50
- corals, cold-water, photograph, 163X_A6:33
- corals, colonial, Barremian, 143A7:203
- corals, live, glaciomarine sediments, 163X_A8:3
- corals, poritid, photomicrograph, 160B33:424–425
- corals, rugose, photograph, 180A6:109
- corals, scleractinian
 - Eocene–Miocene interval, 133B21:293–294, 297–298
 - limestone, 133A(1)5:148; 9:309
- cordierite
 - gneisses, 161B19:264–265, 267; 20:283–284
 - leucosomes, 161B20:288
 - lithology, 182A4:10
 - mineral chemistry, 161B19:271
 - photomicrograph, 161A6:247; 161B19:278–279
 - porphyroblasts, 161A6:215
 - pressure-temperature conditions, 161B44:566–567
 - schists, 161B23:313–314
 - textures, 161A6:224
- core (Earth core)
 - complex structure, 153B4:72–74; 176B(narrative):10–12
 - homogeneity, 136A1:5
 - paleomagnetism, 179A4:9
 - magnetic field, 179A4:56
- core barrels
 - design, 142A8:249–264
 - magnetic vs. nonmagnetic comparison, 210A3:94–95
 - motor-driven techniques, 158A4:31–35
- core barrels, nonmagnetic
 - effect on paleomagnetism, 189A(appendix):1–10
 - magnetic inclination, 189A(appendix):8
 - magnetic intensity, 189A(appendix):9
 - tools, 202A1:13
- core-core integration
 - color density, 146B(2)3:42, 52–53
 - magnetic susceptibility, 171B_A3:71–73; 4:134, 136–137, 139; 174AXS_A(summary):9
 - Site 1049, 171B_A3:71–73
 - Site 1050, 171B_A4:134–139
 - Site 1051, 171B_A5:203, 205
 - Site 1052, 171B_A6:282–283
 - Site 1053, 171B_A7:330
- core disturbance
 - gas hydrates, 201A11:36–37
 - Site 1215, 199A8:48
 - Site 1216, 199A9:37
 - Site 1217, 199A10:51
 - Site 1218, 199A11:102
 - Site 1219, 199A12:23, 107
 - Site 1220, 199A13:76
 - Site 1221, 199A14:53
 - Site 1222, 199A15:45
 - vs. depth, 201A11:85
- core imaging
 - composite offset, 199A8:32
 - dip, 173A4:86–87
 - interpretation, 206A3:92–93
 - processing, 206A3:91–92
 - techniques, 197A4:32; 5:26; 6:23
- core-in situ correlation, physical properties, 186A4:46–49
- core-log comparison
 - cyclic processes, 174A_A5:183–184
 - physical properties, 174A_A4:144–146
 - stratigraphy, 174A_A3:88–89; 4:141–143
 - surface patterns, 174A_A4:143–144
 - water depth, 174A_A5:184
 - Site 904, 150A8:240
 - Site 905, 150A9:294
 - Site 906, 150A10:339–344
 - Site 1081, 175A9:265–266
 - Site 1082, 175A10:306
 - Site 1084, 175A12:380
 - Site 1085, 175A13:416
 - well-logging, 178A4:29
 - See also coring*; well-logging
- core-log integration
 - average data, 176B5:71
 - bedding, 166A6:100, 104
 - breccia, 149A6:200
 - correlation, 129B6:159; 147B18:337, 339
 - depth errors, 129B29:510
 - downhole measurements, 176B5:12–13
 - fault zones, 209A7:18–19
 - gamma ray logs, 151B20:369–376; 154B6:119; 186B15:1–42; 188A3:64–65
 - hemipelagic marine sediments, 168B3:21–35
 - Hess Deep, 147B28:467–469
 - lithology, 181A7:45–46; 189A3:50–51; 7:49–50
 - logging-while-drilling, 156B26:328–330
 - magnetic polarity, 178B31:6–8
 - magnetostratigraphy, 145B30:466–467
 - oceanic basement, 179B3:1–29
 - Ontong Java Plateau, 130A7:264
 - Pacific Ocean, 138B44:872; 145B46:677–679

- physical properties, 154A4:119, 121; 5:206–207;
 6:266–267; 7:325–326; 8:380–381; 159B23:241–
 249; 167A(1)5:110; 8:197–198; 10:265–266;
 13:372; 14:413–414; 171B_A5:225–226; 6:301–
 302
- resistivity logs, 127/128B(1)23:398–400, 402
- sediment depth, 138B4:48–51
- sediments, 155A9:227–228; 10:264; 11:302, 304;
 194A5:23–24; 202A9:23; 10:21–22; 12:18
- seismic data, 185B8:1–14; 186A4:153–154
- Site 798, 127/128B(2)65:1024–1025
- Site 801, 144A9:318–322
- Site 865, 143B21:337, 348
- Site 866, 143B21:348–349
- Site 934, 155A10:269
- Site 982, 162A4:122–124
- Site 984, 162A6:202–204
- tie points, 207B14:24–25
- volcanic ash layers, 127/128B(1)23:398, 401
- vs. depth, 202A1:81; 207A4:68; 207B14:13, 15, 20, 23;
 208A4:64; 6:78
- well-logging, 181A8:36–37; 185A3:39–41
- core loggers
 - Mid-Atlantic Ridge, 209B1:26
 - natural gamma ray activity profiles, 151B20:369–376
 - tools, 204A8:26–28
- core observations, 183B17:1
- core orientation
 - magnetism, 159A5:94
 - sediments, 159A8:275–276
 - Site 851, 138A(2)16:922
 - Site 852, 138A(2)17:987
 - Site 853, 138A(2)18:1042
 - Tensor orientation, 141A7:184
 - See also* core reorientation
- core photos, correlation with diffuse spectral reflectance,
 188B12:1–27
- core quality, microbiology, 204A3:122
- core recovery
 - continental shelf, 178B(synthesis):15–16
 - percentage, 135B11:164
 - Site 840, 135A(1)10:503
 - vs. depth, 143A7:189; 164A6:150; 7:223; 9:314;
 205A4:71–73, 105; 205B1:47; 9:22
 - vs. percentage of sand and silt, 149A5:124
 - well-logging, 129B29:507–527
- core reorientation
 - fault orientation, 135B20:318–329
 - tectonic studies, 135B19:301–311
 - See also* core orientation
- core-seismic integration
 - Site 930, 155A6:110–115
 - Site 931, 155A7:160–163
 - Site 932, 155A8:195–196
 - Site 933, 155A9:228–230
 - Site 935, 155A11:305–307
 - Site 936, 155A12:360, 362
 - Site 938, 155A14:429–431
 - Site 940, 155A16:486–487
 - Site 941, 155A17:524–525
 - Site 942, 155A18:561–563
- Site 943, 155A19:586–587
- Site 944, 155A20:620–621
- Site 946, 155A22:682
- See* compressional core logger
- cores
 - azimuthal orientation, 174A_A5:169
 - analysis, 136A1:7
 - bit design, 142A7:205–247
 - comparison with downhole properties, 144B55:979–
 984
 - composite depth sections, 138A(1)5:79–85
 - coring, 138B1:11; 143B21:333, 337
 - correlation, 177A6:25–29; 8:30–36; 9:23–26;
 200A4:10
 - cutting rate vs. depth, 143A7:190
 - depth correction, 157B37:615
 - depths in composite section, 138A(2)13:712; 14:772;
 15:838; 16:930; 17:989; 18:1044; 19:1081
 - description, 163X_A4:14; 5:6; 6:24; 7:5
 - digital imaging, 202A1:12–13
 - disturbance, 177A4:58
 - drilling data, 204B23:33–41
 - errors, 135A(1)8:358–359
 - expansion, 141A7:203, 205; 8:269; 10:390; 154B8:153
 - gas hydrates, 164B25:247–249; 201A11:35–36
 - hemipelagic marine sediments, 168B3:21–35
 - high-quality methods, 154B6:117–134
 - length, 209A1:128
 - lithology, 167B25:278–280
 - locations with respect to fault scarps, 139A5:140
 - natural gamma ray measurements, 150A5:51–59
 - Ontong Java Plateau, 130A11:216–218
 - paleomagnetism, 135A(1)5:212–213, 218; 8:363;
 10:533, 535; 135B47:765; 143A6:135–136;
 176B5:39; 186A4:28–30
 - photograph, 129B6:153; 146B(1)11:193–196;
 163X_A1:19
 - physical properties, 177A1:24–25; 194A3:18–22; 4:24–
 27; 5:19–22; 6:16–21; 7:27–31; 8:19–22; 9:19–
 21; 196A3:29–30
 - porosity, 164B19:185
 - recovery, 204A9:98; 208A1:66, 70, 73, 76, 79, 83
 - redox, 172B2:1–11
 - reflection data correlation, 138B24:540–543
 - sediments, 154B8:152
 - shipboard vs. shore-based spectral data, 155B10:193–
 215
 - shortening and lengthening, 138B13:296
 - Site 834, 135A(1)4:126–127
 - Site 836, 135A(1)6:265–266
 - Site 837, 135A(1)7:313, 318
 - Site 839, 135A(1)9:428–429
 - Site 841, 135A(1)11:621, 623
 - Site 870, 143A10:377
 - splitting, 161B11:135
 - suck-in photograph, 160A15:501
 - system development, 142A1:8–9
 - techniques relation to lithologies recovered,
 134A12:407–408
 - Tensor tool orientation, 159A5:94; 180A9:1
 - undisturbed recovery, 177A4:59

- visual descriptions, 129B6:153
- X-ray computed tomography (CT) images, 131B10:135–140; 155B28:465–475; 210B6:19–20
- X-ray images, 151B21:377–388
- See also advanced piston corer; diamond coring system; seismic-core correlation
- Corethron criophilum
 - backscattered electron image, 178B18:15–16
 - photograph, 178A7:36
- coring
 - disturbance of physical properties, 161A5:152–153
 - drill sites, 180A1:75
 - gaps, 160B4:52, 54, 56, 58
 - magnetic overprints, 160A14:497–505
 - magnetic properties, 157B5:47–56; 6:57–69; 189A(appendix):3–7
 - methods, 201A1:48–50
 - microbiology sampling, 180B19:1–12
 - minicore directions, 207A4:92–94; 5:99; 6:91–93; 7:92–94; 8:85–86
 - oceanography, 154A1:8
 - orientation, 206A3:354
 - penetration vs. age, 184A1:66
 - piggyback operations, 124E_A5:41–42
 - Site 902, 150A6:68
 - Site 903, 150A7:132
 - Site 904, 150A8:209
 - Site 905, 150A9:259
 - Site 906, 150A10:313
 - Site 907, 151A5:60
 - Site 908, 151A6:116
 - Site 909, 151A7:163
 - Site 910, 151A8:226
 - Site 911, 151A9:273
 - Site 912, 151A10:321
 - Site 913, 151A11:352
 - summary, 174AXS_A1:59–63; 2:59–65; 3:68–72; 178A1:54–58; 184A1:76–77; 187A1:47; 189A3:119–121; 198A1:101–102, 106, 110, 120, 125; 4:36; 202A1:142–143
 - systems, 158A4:31–35
 - video sequence, 194A4:34; 7:46
 - See also extended core barrel; log-core correlation; pressure core samplers; rotary core barrel
- coring biscuits, photograph, 186A4:79
- coring gaps
 - method improvements, 132A1:11; 5:133–134
 - Pacific Ocean E equatorial, 138A(2)15:848
 - Site 881, 145A3:47
 - Site 882, 145A4:90
 - Site 883, 145A5:130
 - Site 884, 145A6:218–219
- coring offsets
 - composite section, 154A3:79; 5:169–171; 6:244–245; 7:296–297; 8:354
 - tidal effects, 202A1:11
 - vs. depth, 154A4:93; 6:123; 10:171; 16:252; 20:302; 23:363; 27:397; 178B6:4–5, 10, 12–13; 198B15:11, 16, 20, 24
 - vs. time, 202A1:84
- Coriolis effect
 - carbonate crash, 206B4:3
 - Pacific Ocean E equatorial, 138B1:6
 - paleoproductivity, 199B1:10
 - Peru Current, 112A10:139
- CORK. See circulation obviation retrofit kit
- CORK-II. See circulation obviation retrofit kit II
- cork cell structures, photomicrograph, 180B10:31
- coronas
 - alteration, 147B15:296–298, 305
 - Atlantis Bank, 118A6:136; 118B5:114
 - gabbronorites, 118B3:44, 47
 - igneous phase replacement, 118B8:179
 - interstitial olivine-bearing titanium oxide gabbro, 118B3:47
 - iron-magnesium amphiboles, 118B9:198
 - metagabbro clasts, 173A7:191
 - mineralogy, 118B8:177
 - olivines, 118B5:118; 27:546; 147A3:68–70
 - phlogopite, 118B8:168
 - photograph, 153A5:183, 189, 196–197, 201
 - photomicrograph, 197A4:58, 63
 - secondary sulfides, 118B5:115
 - textures, 179B(synthesis):41
 - undeformed gabbros, 118A6:138
- coronene, sediments, 139B15:331–336
- corpocollinite, photomicrograph, 180B10:25
- correlation
 - absolute age, 177A5:44–45
 - Albian–Turonian sedimentology, 210B8:8
 - ash fall layers, 157B14:203–204; 15:262; 27:452
 - biochronology, 185B6:15
 - bioevents, 162B8:129–130
 - biohorizons, 186B6:5–6
 - biostratigraphy, 134A9:198; 135B14:217–218; 146B(1)24:373; 154B2:34–42; 155B38:583–587, 589; 159A5:87–88; 6:181; 167B32:366; 172A5:176; 177A3:30; 4:43; 9:37; 178A1:41; 178B(synthesis):35, 37; 182A4:93; 6:96; 8:82; 182B3:17; 190A1:77; 190/196B4:19
 - biozones, 161A5:135; 6:204; 7:312–313; 8:365–366; 9:398
 - biserial planktonic foraminifers, 130B12:241–242
 - calcareous nannofossils, 198B6:7, 28
 - color cycles, 171B_A5:183–187
 - composite depths, 160B4:42–44; 161A4:79–80; 5:140; 6:209; 172A3:47; 4:101–104; 5:188–189, 194–201; 6:266–268; 178A4:31–32; 178B5:1–35; 6:3–5; 181A6:24–25; 186B8:4–7; 189A5:39–40; 6:157
 - composite sections, 154A9:427; 154B6:120–134; 22:338; 160A5:91; 10:342–344; 166A8:187; 9:248–250; 175A3:70–72; 4:99; 5:128–129; 6:160–161; 7:187–188; 8:211; 9:254–255; 10:292, 294; 11:323–324; 12:364, 366; 13:406–408; 14:442–443; 15:471–472; 181A8:27–28; 182A4:26–29; 184A4:6–7
 - composite summary, 169S_A2:29–30
 - core-log correlation, 175A5:139; 180A8:37–38; 180B5:1–25; 24:11; 194A7:41; 8:24; 9:23–26; 199B2:8
 - core-core correlation, 161A4:84

- cores, 177A6:25–29; 8:30–36; 9:23–26; 182A1:18;
200A4:10
- corrected water-depth stratigraphy, 192A1:73
- Cretaceous, 130B5:68–70; 150A1:7
- Cretaceous/Tertiary boundary, 173B5:20; 181A8:39
- cross-hole geochemistry, 153A4:149
- data sets, 160B4:40
- décollement/protodécollement zone, 171A_B3:24
- deposition, 134B7:100
- depth, 172A7:311–314; 174A_A3:93; 180B25:24
- depth-depth correlation, 172A3:54; 4:118, 120, 125;
5:204, 212
- development, 155B3:37–38; 41:665
- diatoms, 167A(1)4:65; 5:100
- different Mediterranean sequences, 160B12:163
- dinocysts, 189B4:11–12; 5:5–6
- environment, 194B5:19–20
- Eocene, 171B_B8:1–10; 173B4:18
- Eocene–Oligocene interval, 182B4:8–11, 23; 189B4:26
- evolution, 155A16:471–472
- fans, 155A2:19
- foraminifers, 150A6:95; 155A17:522; 184B9:6–7
- Formation MicroScanner imagery, 127/
128B(2)66:1046; 180B9:15–16; 24:11
- gabbros, 176B(synthesis):43–45
- gamma ray attenuation bulk density, 184A4:38–40;
5:33–35; 7:35–38; 8:13; 9:41–45
- gamma rays, 184A5:30–32; 7:31–34; 8:12; 9:36–40
- geochemistry and petrology, 153A4:150
- geologic age, 167B3:99
- grain size, 155B3:41, 47–48
- Hauterivian–Albian interval, 198B1:38
- hole-to-hole correlation, 129B19:362–363;
146B(2)12:169–192; 155B15:271–278; 180A9:52
- interglacial carbonate units, 155B20:357
- intersite correlation, 151A13:409; 154A9:427, 431–
436; 161B7:90–94; 180A6:68; 194A3:22;
196A3:15–16; 199B2:6
- lithofacies, 155B2:7–33; 190A1:49
- lithology, 129A4:189; 135B21:331–365; 139A6:176;
149B45:689; 160A5:94–95; 14:474, 476;
160B2:25; 166B4:356; 171B_A3:53; 4:102;
5:178; 174A_A3:87; 174AXS_A5:63; 180A3:18;
6:86; 7:28; 180B(synthesis):32; 189A3:50–51;
190/196B4:19; 191A4:39–40; 195B3:5–6, 29;
210A3:111–112
- logging-while-drilling, 204A1:61
- lower Campanian–upper Paleocene, 210B8:10
- lower crust structure, 127/128B(2)83:1342–1343
- magnetic polarity, 181A5:44; 202B3:4–5
- magnetic susceptibility, 180A6:225; 7:65; 184A4:32–
34; 5:5, 27–29; 6:3–4; 7:4, 27–30; 8:3, 11; 9:5,
31–35; 189B4:27; 191A4:84; 195B3:21;
206A3:31–32
- magnetostratigraphy, 133B40:585; 171B_B9:28;
172A7:313; 177A6:38; 7:30; 8:45; 9:37;
182A6:97; 190A1:77
- massive intervals, 169S_A2:31–32
- matching function of correlative features, 151A9:295
- Mazama ash, 169S_A2:25
- metamorphic rocks, 161B23:307–317
- middle–late Miocene interval, 167B1:27
- Miocene, 150X_B11:133
- nannofossils, 185B5:14–15; 189A6:91
- Neogene, 138B29:628; 35:587–606; 44:719–723;
182B3:39
- Oligocene, 130B15:277–278; 162B11:173–175;
182B2:16
- Oligocene–Miocene interval, 149B4:107–115, 121–
122
- organic matter, 161B31:410
- organic-rich layers, 161A4:65
- Paleogene, 130B25:423–444; 152B20:253–257
- palynomorphs, 155B24:409
- physical properties, 178B6:3–5; 204A4:78; 204B8:7
- planktonic foraminifers, 167B2:59
- plateau flank and top holes, 130B35:591–593
- postglacial sediments, 178B18:17
- properties, 200A4:57–59
- reflectance, 155A23:699–700; 172A3:47; 184A4:41–
43; 5:36–38; 7:39–42; 8:14; 9:46–50
- resistivity logs, 196A3:45
- sapropels, 160B3:31–33; 161B13:161–170; 39:491–
492; 41:524–526
- sediment color, 150B12:231–233
- sedimentary sequences, 161B5:69–76; 44:560
- sedimentation, 155A10:265–266
- sediments, 155A7:163, 165; 9:228–230, 232–234;
11:308, 310–314; 160B18:220; 166A6:113;
8:204; 9:265; 169A6:264
- seismic models, 178A7:22–23
- seismic sequences, 135B22:368; 155B6:113–117;
157B28:480–482; 161B44:560; 172A3:72;
180A1:28–29; 182A5:66–68; 8:70; 10:69; 12:58
- seismic stratigraphy, 130B3:46–49; 165B12:206–217;
178A4:36–38; 188B8:1–21; 14:3–5; 194A1:75–
76; 4:28–30; 6:25–27; 194B2:14–15, 30–31
- sequence stratigraphy, 166A3:37; 174AXS_A(summary):6–7; 7:55
- sills, 210A3:112–113
- Singa section, 160B12:164
- Site 1146, 184B9:19
- Site 1148, 184B9:19
- Sites 147 and 1002, 165B4:89
- Sites 735 and 1105, 179B(synthesis):64
- Sites 950 and 952, 157A6:162
- Sites 1196 and 1199, 194A7:38–40, 114–115
- stratigraphy, 129A3:139; 130B39:659–660; 149A4:50;
155B6:129–130; 39:595–609; 163X_A8:12–13;
172A3:47–48; 5:188–201; 6:266–268; 189A1:82;
192A1:72; 194A1:69–71; 199B2:1–41;
201B16:1–19; 202A1:9–11, 115
- synthetic seismograms, 178A5:32; 208B6:18
- tephra, 186B9:8–9
- tie points, 162B9:139; 179B3:24
- time-depth correlation, 178B16:24
- timing, 155B41:656–659
- Turonian–uppermost Santonian interval, 210B8:9
- unconformities, 135B6:98–99
- upper Paleocene–middle Eocene interval, 210B8:12
- upper Pliocene, 162B1:15
- upper Quaternary, 186B10:3–4

- uranium logs, 172A5:240
- volcanic ash, 171B_A5:175–176; 186B8:12, 22;
198B18:1–26; 201B19:12–13, 31
- volcanism, 163B6:59–60
- well-logging, 161A5:166; 175A10:304, 306; 12:380;
15:476–477; 196A3:19–20; 4:16–17
- wells, 180B(synthesis):30
- zonation, 141B14:193–211; 170A4:118; 6:202; 7:232;
170B5:27–29; 198B6:7
- See also* linear correlation; Spearman rank-order correlation
- correlation, interbasinal, foraminifers, 129B13:247
- correlation analysis logs, vs. depth, 178B31:18–19
- correlation coefficients
 - alteration, 187B5:27–29
 - basalts, 137/140B5:57–59
 - carbonates, 172B6:8–12
 - clay minerals, 152B4:43, 46
 - color, 167B29:329
 - Formation MicroScanner imagery, 127/
128B(2)66:1040–1041, 1046
 - hydrothermal mounds, 158B4:52, 63–65
 - magnetic susceptibility, 162B20:268
 - major elements, 167B25:287, 290
 - multisensor track data, 162B18:252–255
 - sediments, 188B9:15
 - vs. depth, 146B(2)3:36
 - X-ray diffraction data, 127/128B(2)65:1029
 - X-ray fluorescence data, 152B35:428
 - See also* partition coefficients; principal component analysis; statistical analysis
- correlation diagrams
 - lead-lead diagrams, 129B21:408
 - strontium/strontium vs. initial neodymium/neodymium, 129B21:408
- correlation index, carbon isotopes vs. oxygen isotopes, 175B21:20
- corrensite
 - cataclastic deformation, 147A3:77
 - evaporitic conditions, 107B11:161
 - gabbro sills, 205A4:28
 - high-resolution image, 147B13:246
 - hydrogen isotopes, 147B13:249
 - hydrothermal alteration, 139B12:298–302
 - iowaite, 125B17:315
 - origin, 160B45:587
 - oxygen isotopes and hydrogen isotopes, 147B14:280
 - Sardinian margin, 107B11:155
 - sediments, 139B8:115–116
 - stable isotopes, 147B13:246
 - veins, 148B18:269–270
- corrosion, limestone, 143B14:239
- corrugated surfaces, lithology, 194A7:6–7, 10–11
- corundum
 - gneisses, 161B20:284; 183A5:37
 - major elements, 164B14:148
 - photomicrograph, 161A6:245
 - pressure-temperature conditions, 161B44:566–567
 - schists, 161B19:266; 20:283
 - textures, 161A6:223
 - vs. depth, 113B3:30
- X-ray diffraction data, 113B3:31
- cosmopolitan flora, Quaternary, 189B3:7
- cosmopolitan species, foraminifers, 129B13:254
- coulometry
 - calibration, 194B9:5
 - sediments, 172A3:58–59; 4:130–131; 5:219–221;
6:282–283
- Coulter counter, grain size, 155B11:218–219
- couplets, deglaciation, 178B34:4
- coupling, geometry and length, 186B1:8–9
- covariance analysis, water content, 134B30:541
- covellite
 - oxide-rich ferrogabbros, 118A6:125
 - petrology, 158B1:9–11, 14
 - semimassive sulfides, 193A4:39
- Covulvulaceae, palynomorphs, 188B3:15
- “cow model,” sediments, 185A1:7, 38
- crabs, biogenic components, 161B6:78–80
- crack-seal mechanism
 - fibrous veins, 148A3:158
 - veins, 148B18:272; 19:281–288
- cracking front
 - elastic strain, 118B26:506
 - magmatic fluids, 176B4:15
 - seawater penetration, 118B26:505
- cracks
 - alteration, 137A2:28–29
 - augite, 137/140B19:221
 - color, 167B29:321–322
 - dilation, 170B4:6
 - flood basalts, 163B2:25–26
 - fluid circulation, 137/140B20:240
 - gas expansion, 146B(2)13:194
 - hydrothermal veins, 153B9:174
 - limestone, 143A7:206
 - lithology, 174AXS_A5:38; 194A5:6, 8; 204A3:4–8; 4:6
 - modal composition, 139B39:603
 - petrography, 168B10:120–121
 - photograph, 145A8:343; 187A12:39; 13:36; 193A1:46;
204B8:15; 206A3:173; 210A4:26
 - photomicrograph, 187A9:19; 12:19; 209A10:82
 - porosity, 137/140B24:278
 - seismic velocity, 163B3:29–35
 - sulfide deposition, 169B9:6–9
 - velocity anisotropy, 130B40:669
 - weathering stains, 209A7:12
 - X-ray line scanner images, 204A10:72
 - See also* deformation; faults; foliation; fractures; microcracks; microfissures; structures; tension gashes
- cracks, en echelon, veins, 137/140B20:233–234
- cracks, extensional, hydrothermal veins, 153B9:162
- cracks, perlitic, photomicrograph, 193A3:117–119, 142;
4:102
- cracks, shrinkage
 - alteration, 168B10:129, 134
 - veins, 137/140B18:213
- cracks, tension, serpentinization, 153B20:386–387
- cracks, thermal, backscattered electron image, 137/
140B19:222–228
- CRE. *See* carbonate reduction event

- creep, diffusion, recrystallization, 153B8:150
 creep, dislocation, magnetite and ilmenite, 153B7:132–133
 creep, sediments, 149B20:372
 creep lobes
 Little Bahama Bank, 101B19:274
 propagation, 101B19:276
 creep rates, Prydz Bay, 119B9:176, 179
 Crenarchaea
 methanogenesis, 201B1:15
 See also Miscellaneous Crenarchaeotal group
 crenulate contacts, lithology, 209A10:4–10
 crenulated structures. *See* structures, crenulated
 crenulation
 lithology, 210A3:21–25
 photograph, 155A17:510–511; 159A7:240;
 210A3:136–137
 structure, 159A7:239–240
 See also cleavage; folds; structures
 crenulation cleavage. *See* cleavage, crenulation
 crenulation folds. *See* folds, crenulation
 Cretaceous
 age, 174AXS_A5:66–67; 6:81; 198A3:86; 4:59
 aquifers, 174AXS_A(summary):14–5
 atolls, 144A1:3
 basalts, 129B21:405–413; 136B9:116–117;
 143B23:381–388; 165A6:327; 180A6:37–38
 basins, 152B41:520
 benthic foraminifers, 149B8:203–216; 174AXS_A5:45;
 198A3:24–25, 125; 4:82–83; 5:22; 6:19; 7:19;
 8:16–17; 9:22–23; 10:11–12
 biologic evolution, 171B_A1:9
 biostratigraphy, 129B8:179–187; 12:229–248;
 132A4:83–89; 132B2:15–36; 136A1:7; 4:41–42;
 144A4:119–125; 5:164–177; 145A5:141;
 149A6:178–179; 149B2:29–34; 35:579–580;
 159B35:481–490; 160B30:377–394;
 171B_A4:118–32; 173A7:177–182; 8:241–244;
 174AXS_A4:28–29; 192A3:23; 6:13–14;
 207A1:69; 210A1:16
 black shale, 149B13:295–300; 207A10:1–22;
 207B14:1–29
 calcareous nannofossils, 130A9:401–402; 144B8:157–
 169; 159B26:319–329; 165A4:154; 6:311;
 174AX_A1:39; 174AXS_A1:40–4, 65; 198A3:19–
 20; 4:18; 5:17; 6:15; 7:14–15; 8:14; 9:19–20;
 10:10
 calcite veins, 149B34:567
 carbonates, 136B10:126; 143B30:471–493;
 144B52:929–932
 chalk, 160A6:127
 chert, 198A1:22
 clay mineralogy, 144B26:466
 continent/ocean margin, 159B11:101–110
 debrites, 182A6:38
 deposition, 144B17:337–359; 189A1:6–10
 dolomite, 143B11:161–169
 drillhole data, 143A2:13–29
 East Mariana Basin, 129B31:551–569
 foraminifers, 149B6:165–192; 183B1:21–22
 gateway history, 189B1:8–11
 geochemistry, 129B16:295–302
 geochronology, 144B32:547–557
 geology, 129B32:573; 160A9:291; 171B_A1:5–0
 greenhouse sequences, 174AXS_A(summary):9–0
 guyots, 143A1:7–8; 144B53:937–938
 hardgrounds, 144B5:97–126
 hiatuses, 130B25:429; 149B6:189
 history, 198A1:45–46; 8:5
 hotspot tracks, 144B35:605–613
 ichthyoliths, 145B26:401
 igneous basement, 192A1:6–7
 intact membrane lipids, 207B12:1–11
 integrated stratigraphy, 129B37:693
 isotope stratigraphy, 160B30:384
 limestone, 144B59:1001–1003
 limestone–basalt transition, 143B19:305–315
 lithofacies, 144B16:311–335; 150X_B1:5–7
 lithology, 129B6:154; 130A9:387–390; 132A4:81–82;
 136A4:40; 144A4:117–118; 149A4:59–62;
 6:158–175; 7:264; 149B45:688; 150X_B2:16;
 160A8:222–223; 165A4:150–152; 173A7:165–
 175; 182A4:10; 183A1:27; 192A5:6; 207A1:70
 location of ODP and DSDP drilling in Cretaceous
 rocks, 129B32:572
 magmatism, 149B1:15–16
 magnetostratigraphy, 149B42:661–662; 171B_A3:71
 metamorphism, 152B10:139
 microfabrics, 185B9:7
 nannofossils, 136A5:68; 173B5:34, 39–42;
 174AX_A1:29; 174AXS_A5:47–48; 6:55–56;
 181A8:14–15; 183A3:9–10; 185B5:1–21;
 197A3:11
 normal polarity, 129B23:434
 ocean circulation, 198B1:6–8
 oceanic anoxic events, 198B1:1–47
 ophiolites, 170A1:7
 ostracodes, 143B35:575–580; 150X_B21:287–292
 outer perimeter ridge, 144B15:295–310
 Pacific Ocean, 129B31:551–569; 145A1:5–7
 paleobiogeography, 144B50:887–893
 paleoceanography, 132B1:3–13; 144B44:745–769;
 171B_B10:1–2; 181A6:26–27; 183B1:21–22;
 210A1:28–29
 paleoclimatology, 144B19:392–393; 171B_B(introduc-
 tion):1–1; 207A1:8–11
 paleoenvironment, 144B14:271–294; 174AXS_A4:10–
 12; 183B1:21–22
 paleogeography, 129B9:189–190; 33:621; 210B3:18
 paleolatitude, 129B33:615–631; 143B26:399–403;
 183A6:56; 185A1:12; 210B15:1–37
 paleomagnetism, 129B23:431–436, 440; 24:447–454;
 130A9:412; 136B3:45–63; 143B27:405–418;
 198B20:13
 palynomorphs, 174AX_A1:41; 174AXS_A5:48;
 210A3:86–87
 passive margins, 159B2:20
 photograph, 192A5:40–42
 photomicrograph, 192A5:42
 Pigafetta Basin, 129B2:39; 3:84, 88; 5:141; 31:551–569
 planktonic foraminifers, 130A9:404–405; 143B2:15–
 30; 159B27:335–345; 160B30:378–383, 386;

198A3:21–23, 123; 4:19–20; 5:20; 6:17–18; 7:17–18; 8:15; 9:21
plate tectonics, 149B1:3–4; 183B2:9–10
pollen, 174AXS_A6:56–57
provenance of gravity flow deposits, 210B2:5–8
radiolarians, 130A9:408; 130B7:93–102; 136B1:3–25; 185B6:1–17; 210A3:87–88
reversed polarity, 129B23:444
rifting, 149B1:9–11
sea level changes, 174AXS_A(summary):9–10
sedimentation, 144A7:285; 145B14:228–229; 160B30:384, 386; 192A6:9–10
sediments, 130A10:520–524; 143B20:317–326; 37:587–588; 149A4:110; 157A2:13
seismic stratigraphy, 182A4:42; 185A4:4–6
Shimanto Belt, 190A1:2
siliceous rocks, 198B17:1–45
sills and lava flows, 129B18:345–359
Site 800, 129A2:33–89
Site 801, 129A3:91–170
stable isotopes, 198B1:39; 207B6:3–4
stratigraphic depth correlation, 129B5:139
stratigraphy, 129A4:171–242; 144B49:873–885; 145A5:177–178; 185A1:9–10; 198A1:144; 207A1:1–89
strontium isotopes, 144B25:451–453; 174AXS_A1:45–46; 4:29–30; 6:57–58; 192B3:1–19
structure, 159B10:93–99
summary, 198A1:1–148
tectonics, 160A1:14–16
thermal diagenesis, 159B7:53–70
transform faults, 159A1:10–11; 9:298
turbidites, 129B29:512
unconformities, 186A1:4; 186B1:3
volcanism, 143B17:278, 282; 144B29:495–512; 31:535–545; 183A1:1–3; 183B1:1–48
See also Albian; Albian/Cenomanian boundary; Albian/Coniacian boundary; Albian–Eocene interval; Albian–Santonian interval; Aptian; Aptian/Albian boundary; Aptian–Albian interval; Aptian event; Aptian–Maastrichtian interval; Aptian–Santonian interval; Barremian; Berriasian; Campanian; Campanian/Maastrichtian boundary; Campanian–Maastrichtian interval; Cenomanian; Cenomanian/Maastrichtian unconformity; Cenomanian–Turonian anoxic boundary event; Cenomanian/Turonian boundary; Cenomanian–Turonian interval; Coniacian; Coniacian–Campanian interval; Coniacian/Santonian boundary; Cretaceous normal polarity superchron; Cretaceous–Oligocene interval; Cretaceous/Paleogene boundary; Cretaceous/Tertiary boundary; Early Cretaceous–Cenomanian trisaccates province; hiatuses; Early Cretaceous *Cerebropollenites* province; Jurassic/Cretaceous boundary; Jurassic–Eocene interval; lower Campanian event (LCE); Maastrichtian; Maastrichtian/Eocene unconformity; Maastrichtian/Paleocene boundary; mid-Cretaceous superplume; mid-Cretaceous unconformity (MCU); Neocomian; Santonian; Santonian–

Maastrichtian interval; Senonian; Senonian pal-mae province; stable Cretaceous pole; Turonian; Turonian–Campanian interval; Turonian/Coniacian boundary; Turonian–Santonian interval; Valanginian; Valanginian–Albian interval; Valanginian/Hauterivian boundary
Cretaceous, Lower
age, 198A10:23
apparent polar wander paths, 129B26:481; 192B5:8
authigenic carbonates, 188B15:7
basement, 149B43:672; 160B54:734–736
biostratigraphy, 129B8:183; 10:203–228; 13:247–264; 130B6:88; 143B32:537–564; 144B11:221–230; 159B28:347–359; 171B_B3:6–11; 173A7:175–177; 9:273–275; 185B5:4–5; 198A9:23; 10:10–11; 198B6:1–60; 210A3:79–80, 82–83
carbonate compensation depth, 198A1:15
clay mineralogy, 143B12:173–196
convergent margins, 186A1:4–5
deformation, 159B2:17
diabase sills, 129B27:485
fission-track data, 159B4:39–41; 5:43–48
geochemistry, 129B32:573
geology, 210A1:12–13
igneous plateaus, 192B1:7
isotopes, 191B3:4
limestone, 143B13:197–229; 31:509–523
lithology, 129B23:433; 130A9:390–391; 191A4:15
magnetostratigraphy, 143B25:395–398
Milankovitch cycles, 129B30:529–547
neritic carbonates, 160B32:404, 406, 408; 38:491; 51:683–684
oolites, 143B8:111–118
Pacific Ocean sites, 129B32:573
paleoceanography, 143B6:99–104; 198A1:14–15
paleoenvironment, 160B38:500; 51:683–684
paleolatitude, 129B32:576; 130B4:56–58; 185A4:37
paleomagnetism, 192B1:3–4; 198B21:1–14
palynology, 163X_A6:20; 173A4:103–104; 188B2:4–6
petrology, 129B32:573
Pigafetta Basin, 129B32:573, 604
preglacial sedimentary basin fillings, 163X_A8:4–5
quartz-feldspar-lithic fragments, 210B2:30
rifting phases, 210B1:6–7
rudists, 143B1:3–14
seafloor, 185A1:20–28; 210B9:1–69
sedimentary rocks, 185B10:1–11
sedimentation, 149B36:578–580; 185B10:1–11
sediments, 129B36:673; 188B1:4
Site 800, 129B32:571
Site 801, 129B2:40; 32:571, 594
stratigraphy, 129B32:573; 143B5:89–97; 31:511
structure contour maps, 188A1:36
tectonics, 160B54:766, 769; 194A1:4–5
See also Barremian; Berriasian; Clansayesian; Early Cretaceous *Cerebropollenites* province; Early Cretaceous–Cenomanian trisaccates province; Hauterivian; Neocomian; pre-Albian west Early Cretaceous *Dicheiropollis etruscus*/*Afropollis* province; Valanginian

- Cretaceous, Lower–mid-, biostratigraphy, 160B54:726; 198B7:1–82
- Cretaceous, mid-
 biostratigraphy, 129B9:189–201; 144B10:199–219; 159B29:363–373; 171B_B3:1–2; 183A6:19–20; 183B3:1–39
 correlation, 171B_B9:13
 deposition, 166A1:6
 emergence, 143B31:523, 525
 events, 129B1:21
 magnetic inclination, 191B8:5–9
 oceanic anoxic events, 198A1:13–14, 98; 207A1:62
 organic-rich interval iron isotopes, 207B10:1–14
 paleolatitude, 143B26:399–403; 191B7:1–20
 Pigafetta Basin, 129B5:137–152
 sediments, 207B2:1–31
 stratigraphy, 185A1:11–12; 198A1:52–53; 10:2–3
 transform faults, 159A1:14
See also mid-Cretaceous superplume; mid-Cretaceous unconformity (MCU)
- Cretaceous, mid–Upper, paleoclimatology, 198A1:12–13
- Cretaceous, Upper
 age vs. depth, 174AXS_A(summary):29; 198A9:75
 anoxic deposits, 165B7:125–140
 bathyal deposition, 160B32:408
 biomagnetostratigraphy, 189B10:1–57
 biostratigraphy, 130B5:70–72; 6:88; 144B9:171–196; 145B44:633–638; 150X_B10:111–127; 159B33:434–411; 160B31:395–401; 173B5:1–50; 174AXS_A(summary):30; 181A8:19, 59, 111; 183A4:9–10; 5:10–13; 6:11; 189B1:4; 3:1–48; 5:1–98; 10:5; 198B6:1–60; 208A1:30; 210A3:31–32, 81–82
 claystone, 183A1:34
 collisions, 160A17:513, 515
 deposition, 189A1:6–10
 drilling, 182A1:16
 gateway history, 189B1:1–37
 geomagnetism, 197B1:9–11
 lithology, 181A8:8–9; 183A1:20; 6:8–10; 185A4:17–19; 188A4:13–14; 189A1:32–33; 7:16–18; 197A4:7–9
 magmatism and extension, 151A11:348–349
 magnetostratigraphy, 171B_B8:8; 208B1:36; 4:12
 multicolored mudstone, 210A1:31–32
 ophiolites, 160B54:761, 764
 oxygen isotopes, 174AXS_A(summary):30
 paleoclimatology, 165A1:8–10; 207B1:7–8
 paleoenvironment, 130B5:74–75; 181A8:23; 183B2:1–28
 paleogeography, 160B50:672; 165B9:173; 207A1:60
 paleolatitude, 165B9:149–173
 paleomagnetism, 129B26:475; 171B_B9:20–21; 183A6:54; 197A4:25
 palynomorphs, 188B1:6; 3:7, 10–11, 15–17, 32–33
 pelagic sedimentation, 165A8:377
 phytoliths, 188B5:1–12
 Pigafetta Basin, 129B1:22; 3:89, 97
 planktonic foraminifers, 165A6:313; 173B9:1–13; 174AXS_A1:32–36; 183A6:19–20; 183B2:1–28; 189A7:28
 plate motion, 197A1:5–7
 rift-drift system, 181B1:38–40
 rifting, 145B27:413–434; 181A1:3–4; 181B1:1–111
 rudist reefs, 144B24:439–446
 sedimentation rates, 189B10:17–18
 sediments, 183A1:13
 seismic units, 188B8:9–10
 sequence stratigraphy, 143B10:133–159
 stratigraphy, 143B7:105–108; 174AX_A1:6; 174AXS_A(summary):1–38; 4:39; 6:58–59
 submergence, 143B31:526
 tectonics, 160B54:759, 769
 turbidites, 173B6:1–11
 unconformities, 210A3:74
See also Campanian; Cenomanian; Coniacian; Hauterivian; Late Cretaceous–Cenozoic mixed polarity interval; Maastrichtian; Santonian; Senonian; Turonian
- Cretaceous–Eocene interval
 magnetostratigraphy, 207A5:58–59; 6:54–55
 paleoclimatology, 174AX_A1:42
 paleoenvironment, 160B38:499
- Cretaceous–Holocene interval, 160B40:517–526
- Cretaceous magnetic quiet period
 basement, 198A1:51; 9:6, 25
 magnetic polarity, 143B27:413
 plate tectonics, 149B1:3–4; 25:438
 Site 765, 123A4:136; 123B28:534; 38:730
- Cretaceous–Miocene interval, 207A6:27–28
- Cretaceous–Neogene interval, 207A1:50–51
- Cretaceous normal polarity superchron
 basalts, 130B4:51–59; 143B23:386–387
 basement, 198A1:51
 biostratigraphy, 144B8:165–166
 characteristic remanent magnetization, 183B12:6, 12
 colatitude, 191B8:9
 magnetostratigraphy, 171B_A3:71; 171B_B8:8; 173B11:16; 182A4:26; 192A6:22; 207A4:19; 210A3:94
 paleolatitude, 129B23:436, 444; 33:618
 Pigafetta Basin, 129B33:617
 plate tectonics, 149B25:439, 441
 remanent magnetization, 192A7:10; 198A9:25; 210A1:19; 3:92
 sediments, 183A1:16
 tectonics, 207A1:9–10
 virtual axial dipole moment, 197A1:30
 volcanoclastic turbidite, 129B23:437
- Cretaceous–Oligocene interval
 magnetostratigraphy, 173A9:277
 Pigafetta Basin, 129B2:36
- Cretaceous/Paleogene boundary
 biostratigraphy, 192A3:22–23; 6:13; 198B5:1–15
 gamma ray attenuation density, 198A6:27
 hiatuses, 192A3:16–17
 lithology, 174AXS_A5:31; 192A1:13
 magnetostratigraphy, 192A3:34
 paleobathymetry, 171B_A1:6
 paleoceanography, 171B_B(introduction):4–5
 photograph, 171B_A4:106; 192A3:57
 sedimentation, 192A3:16–17

- Site 750, 120B(2)25:451–456; 54:961–965
See also Cretaceous/Tertiary boundary
- Cretaceous–Paleogene interval
 movements, 189A1:75
 paleoenvironment, 192A6:14–15
 paleoceanography, 207B1:1–26
 palynology, 159B24:253–318
 sedimentology, 160B32:403–417; 181B1:55
 stratigraphy, 130A1:9; 10:499, 504–508
 subsidence, 160B39:512
- Cretaceous–Paleocene interval, strontium isotopes, 192B3:7
- Cretaceous–Pliocene interval, 192B1:4
- Cretaceous/Tertiary boundary
 age models, 113B47:833; 189B3:6
 agglutinated foraminifers, 159B31:389–411
 Australian NW margin, 123B37:684
 benthic foraminifers, 113B35:575, 585; 159B31:403; 174AXS_A5:85–88; 183B2:6
 biostratigraphy, 121A14:507–512; 121B12:366; 130A9:400–401; 130B5:74–77; 150X_B10:124; 173B5:6–7, 10; 9:4–5; 174AXS_A1:32; 183A6:11; 183B3:3–4; 4:1–59; 198A1:56–57, 113; 6:15–19; 198B1:27; 207A1:41–42; 207B1:9–10; 208A1:30; 210B13:12–13
 bolide impact hypothesis, 165A8:393–394
 brown mudstone, 181A8:39
 calcareous nannofossils, 123B18:398; 130A5:122; 130B6:85, 88; 159B26:320; 174AXS_A1:41; 198A5:17; 7:14; 8:13
 carbon isotopes, 113B47:839–841; 119B47:859; 183B4:10–14, 33; 192B2:6; 208A1:62
 carbonate mass accumulation rates, 113B47:844
 Caribbean Sea, 165A1:7; 8:379
 cerium/lanthanum ratio, 119B39:726
 Chron 29r, 183A1:13
 clay mineralogy, 119B47:854
 clay origin, 121B19:419–420
 clay-rich laminations, 119B39:727–728
 claystone, 119A7:279
 climate changes, 113B47:829, 844–845
 complete section, 130A10:532
 composite depth, 198A5:24; 6:21; 7:20–21; 208A3:5
 composite digital images, 208A8:45
 compressional wave velocity, 198A5:32
 correlation, 171B_B9:14; 181A8:39
 critical events, 207A1:12–13, 30–31; 208A1:33–35; 208B1:8–10; 210A1:18, 32
 dinocysts, 113B33:533–548; 189A7:35
 depositional environment, 121A14:507
 element stratigraphy, 119B39:719–726
 extinction events, 113B47:842, 844–845; 171B_A1:9; 183B4:12–13; 198B1:8–9; 207A1:7–8; 208A1:9
 foraminifers, 181A8:18–20; 207A5:16–17; 7:16–17; 8:17; 207B1:9–10; 208A3:15
 fossil transition, 121B44:939
 gamma rays, 165A4:186; 6:336; 207A5:32
 geochemistry, 121B19:417–418; 20:424–429
 glauconite, 173B6:3
 gray clay layer, 119B47:850, 862, 864
 hiatuses, 114B34:653; 143A2:24; 160B30:384; 189B3:8; 207A4:28–29
 identification and characterization, 145B31:427–434
 impacts, 171B_B10:9–10; 174AXS_A(summary):12–13; 192B2:6
 inorganic geochemistry, 171B_B4:1–26
 iridium, 119B39:720, 722–723; 47:851, 854–856; 207B1:23
 iron, 119B39:723–724
 Kerguelen–Heard Plateau S, 119B39:724–725
 lithology, 120A9:290; 121A6:112, 120–123; 12:372; 14:507; 121B16:366; 19:415–416; 20:423–424; 130A10:522; 165A4:150, 204–206; 6:304–306, 342, 346; 8:395; 171B_A3:53–54, 59; 4:116–118; 6:251, 253; 174AXS_A(summary):33; 1:21–22; 5:31; 181A1:29–30; 8:8; 183A6:6; 197A4:8–9; 198A8:8–9, 11–12; 207A1:37–38; 5:6–7; 6:7–8; 7:7–11; 8:7–9; 208A8:8–9; 210A3:34–35
 location, 145B27:423
 magnetic properties, 119A7:253; 119B43:757–758, 760, 764, 765; 120A9:306; 121A26:510, 512–513; 121B39:795; 44:931; 198A7:25–26; 208B1:39
 magnetobiochronology, 119B46:825
 magnetostratigraphy, 113B20:255, 258–259; 119B43:757–759; 47:851–853; 121A6:133; 121B12:363, 366; 36:730–731, 735; 165A4:160; 165B8:143–147; 171B_A3:71; 171B_B9:7, 11; 173A7:183; 181A8:27, 29; 207A6:25; 208A1:85; 208B4:12–13
 marine isotope stages, 181B1:30
 matrix-supported conglomerate, 123A4:107
 melting, 192B1:9
 nannofossils, 113B32:515–526; 53:944; 183A3:8–9; 6:13–14; 183B1:28; 4:7, 47–48; 207A6:14; 8:13; 208A3:12; 8:12–13; 210A3:77–78
 oxygen isotopes, 113B47:836–839; 119B47:859
 paleoceanography, 159B31:395–396
 paleoclimatology, 113B53:941; 165A1:8–10; 192B2:3–6
 paleoenvironment, 159B35:488
 paleogeography, 189A1:66
 photograph, 130A9:396; 130B45:746; 165A4:150; 6:307, 346; 171B_A3:56; 183B4:32; 189A7:67; 198B1:42; 207A4:44; 5:46; 6:43–44; 7:45; 208A3:45; 210A3:177
 physical properties, 121A6:148; 207A6:74–75
 planktonic foraminifers, 119B25:455–460; 120B(1)22:384; 165A4:158; 6:313; 174AXS_A1:32; 5:83–84; 6:49; 183A6:19; 198A5:20; 8:15; 198B5:1–15
 productivity, 121B19:420–421
 reflectance, 198A5:50
 Rekohu Drift, 181A8:1–137
 remanent magnetization, 165A6:314; 183A3:14
 section compilation, 171B_A7:359
 sedimentation, 119B47:852–853; 121A14:507; 121B36:739–740; 165B8:145; 173A8:258; 181B1:39; 189B10:17–18; 192A3:16–17; 207A1:44; 8:23
 sediments, 130A10:521–523, 534–535

- seismic data, 171B_A6:294; 208B6:10–11
sequences, 165A4:151–152
Site 216, 120B(2)62:1081
Site 698, 114A5:117
Site 700, 114A7:296, 306, 352
Site 747, 120A6:139; 120B(2)22:386–387
Site 748, 120A7:230
Site 750, 120A5:80–81; 9:290, 306, 329
Site 752, 121A6:122–123; 13:463, 500; 14:507–516;
121B25:492; 36:730, 740; 44:937, 941
Site 765, 123B38:727
Site 766, 123A5:280, 341
Site 803, 130A5:133, 166; 10:504
Site 807, 130A9:390–391
Sites 524, 577, 690, and 807, 130B45:749, 751
stable isotopes, 130B14:259–268; 208B1:41
stratigraphy, 174AX_A1:6, 26–29, 41–42;
174AXS_A1:3; 198A1:32–33, 36–37, 41, 45, 68–
70, 142; 5:5–6, 40; 6:3–4; 8:2–5; 207A1:20–21;
208A1:1–112
summary, 165A4:205
surface-to-deep water gradients, 113B53:944
survivor microfossils, 113B32:519; 198B1:43
synthesis, 130B45:745–751; 171B_A7:357
tectonic events, 120B(1)23:424
unconformities, 113B51:903; 183B4:11–14
well-logging, 120A6:139; 9:329; 120B(2)58:1058–
1059; 121A26:513–516; 207A5:77–78
See also Cretaceous/Paleogene boundary
crevasse splay environment, lithology, 174AXS_A4:17,
24
crevasses, orientation, 119B5:71
crinoid ossicles
lithology, 160A8:223; 160B32:408; 183A6:7–8; 8:5–6
photomicrograph, 160B32:409
crisis zones, guyots, 144B52:927, 929–932
cristobalite
alteration, 193A3:38, 40–47; 193B11:1–19
domain significance, 193B1:25–26
fault planes, 180A6:41
hydrothermal event frequency, 193B1:25
lithology, 190A4:9; 191A4:14; 193A4:24–41;
201A6:11–12
photomicrograph, 193A3:131–132, 205–206;
193B1:56
Site 699, 114B37:690, 698
veins, 180A6:143; 193A3:59–65
volcanics, 129B3:89; 131A6:173–184
vs. depth, 190A4:47; 193A4:117
X-ray diffraction data, 190A5:9; 6:8
See also opal-CT
cristobalite/clay alteration
lithology, 193A6:5–6
photomicrograph, 193A1:81; 3:164; 6:19
cristobalite/quartz ratio, X-ray diffraction, 205A5:18–19
cristobalite–quartz interval
décollement zone, 196A1:13
lithology, 193A4:33–34
critical events, stratigraphy, 210A1:17–19
cross bedding
claystone, 159A6:188
deposition, 144A5:163
lithology, 171B_A6:259; 174AXS_A2:17–18, 24; 3:18–
19; 4:12; 5:18; 6:31–34, 39–42; 7:17; 182A4:10;
189A3:13; 200A3:11; 201A10:10
photograph, 144A10:352; 157B12:177; 159A8:269;
171B_A5:184; 6:260–261; 180A9:74; 188A3:98;
5:50; 200A3:63; 201A10:35; 204A4:57
sandstone, 159A5:101
sediments, 159B2:16
structure, 159A8:281
volcaniclastics, 135B52:833–834
cross bedding, planar, Site 740, 119B3:49
cross bedding, trough, sandstones, 119B3:46
cross coherency, magnetic susceptibility, 145B19:292
cross-equatorial transport, upper-layer water,
154B18:278
cross laminations
clasts, 160B45:583
diagenesis, 198A9:15
lithofacies, 135B6:88; 144B14:277; 155B2:11; 40:625;
169A3:56
lithology, 133A(1)16:697–700; 135A(1)6:257;
149A6:156; 150A8:218; 152A11:202;
155A10:248; 13:387–388, 391; 16:466–467, 470;
19:573; 161A4:59–64; 8:360; 164A9:284;
165A3:59; 166A6:78; 168A4:57; 6:168–169;
169A4:166–167; 171B_A4:116; 173A7:168–170;
174A_A5:160; 174AXS_A4:16–20; 5:41; 6:42;
7:16; 177A6:5; 178A4:5–8, 11–13; 178B25:5–6;
180A5:11; 9:15; 10:9; 12:11; 181A6:7–9;
182A4:10; 6:8; 188A3:15–16, 19–21; 190A6:7;
191A4:11; 201A9:9; 10:9–11; 210A3:27–28, 33–
34
mud breccia, 160B46:601
paleoenvironment, 174AX_A1:26
petrography, 180B8:4
photograph, 139A6:180; 141A9:309; 10:357, 359;
144A3:56; 149A4:54–55; 5:127; 6:157; 7:222–
225; 152A11:203; 155A7:134; 8:183; 9:209;
12:334; 13:391; 14:416; 16:470; 17:519; 18:544–
547; 19:573; 20:601; 21:665–666; 157A4:69–70;
7:334; 160A11:390; 161A8:372–373; 165A3:60;
169A3:60–61, 80; 169B9:6, 21; 10:11, 38;
170A7:225; 171B_A4:111, 117; 5:186;
173A7:172; 8:231–232; 174A_A5:162; 178A8:36;
180A5:60; 10:39; 181A6:49–51; 182A6:52;
190A7:28; 9:34; 195A4:81; 201A9:33–35;
210A3:143, 165–166, 188, 197–198
photomicrograph, 160B45:595; 210A3:226
sediment dispersal, 131B2:19
sills, 169A3:90–93
siltstone, 135A(1)11:590
See also laminations; ripple cross laminations
cross laminations, current-ripple
lithology, 210A3:27
paleocurrents, 131B3:40
photograph, 194A4:56; 210A3:184, 188
turbidites, 131B3:37
cross laminations, ripple
photograph, 161A4:70
sedimentary structures, 172B7:4–12

- cross plots, logs, 131A6:192
- cross sections
- coastal plains, 150A1:6
 - geology, 196A1:18
 - reconstruction, 204B2:28
 - scarps, 134A2:28
 - seismic profiles, 189A3:59
 - slopes, 134A2:29
 - surficial geology and bathymetry, 147A1:9
 - tectonics, 159B2:19; 176A1:49–50
- cross-spectral analysis
- carbonates, 154B19:289; 20:312; 24:372–373
 - dissolution index, 154B22:344
 - Pleistocene, 150B7:122
 - terrigenous component, 167B18:231
 - vs. eccentricity, 154B3:76, 78–79
 - See also* power spectra; spectral analysis
- cross stratification
- lithofacies, 155B40:613–615
 - lithology, 135A(1)10:509–512; 135B6:88
 - photograph, 149A4:57; 5:124; 159A5:79, 85–86; 177A6:32; 183A5:70; 7:71–74; 194A7:54
- cross stratification, hummocky, 112A11:169–170
- crosscutting relations
- photograph, 148A2:69
 - structure and deformation, 148A3:156
 - thin sections, 148A2:66
 - See also* textures
- crossite, lithology, 195A3:13
- crossover errors, magnetic anomalies, 149B42:660
- crust
- accretion, 152A13:291; 152B41:510, 515–516; 209A1:6–12
 - acoustic basement, 165A4:133
 - anisotropy, 102B11:155; 127/128B(2)70:1114–1115
 - Baffin Bay, 105A4:148–150
 - basalts, 165A6:330
 - basement tectonics, 149B38:612–614
 - bathymetry domains, 135B51:825
 - burial faults, 139B1:25–26
 - comparisons, 102B11:159
 - composition, 102B11:166
 - compressional wave velocity, 176B5:7
 - contamination, 152B27:318–321; 28:343–344; 29:351–357; 40:493–494; 163B7:71; 8:85–87
 - continent–ocean transition, 152B39:463–475; 159B1:10
 - cooling, 176B9:21–22
 - Davis Strait, 105B52:990, 1006
 - differences between young and old crust, 102B11:155–156
 - evolution, 157B27:447; 160B51:696–697; 161B44:570–577; 180A3:3–6
 - extension, 127/128B(2)83:1345–1346; 161A1:9–10
 - focused accretion, 209A1:8
 - forearc basins, 186B1:3
 - formation, 105A6:677–678
 - fractional crystallization, 152B29:355
 - friction, 161B24:325
 - geochemistry, 195B2:8–9
 - geology, 200A1:3–4
 - geophysical surveys, 210A1:6–7
 - Greenland margin SW, 105A5:487
 - heat flow, 102A3:131–137
 - in situ velocity, 102A3:97
 - Jurassic, 129B1:8; 14:272; 19:376–383; 185A1:28–29, 60; 185B1:1–35
 - kinematics, 152A1:6–9
 - Labrador Sea, 105A5:420
 - lava flows, 152B40:488–489
 - Leif Fracture Zone, 105A5:487
 - magnetic properties, 153B24:429–436; 185B1:6–8
 - Mesozoic, 185A1:30
 - models, 102B11:156; 135B25:429; 152B39:472–473
 - ocean–continent transition, 149B48:737–739
 - oceanic structure, 203A1:4–5
 - old crust cracking, 102B11:159, 165
 - physical properties, 102B5:66–67
 - plate tectonics, 151A1:15–16
 - porosity, 102B11:158
 - recycling, 123A1:8; 123B8:184–185; 185A1:28–29
 - research objectives, 102A3:97
 - SCREECH transect 2, 210A5:6
 - seafloor spreading, 179A4:6–8
 - seismic reflectors, 173A1:11
 - shortening, 131A7:284; 141A3:30
 - spreading centers, 135B51:819–820
 - strength, 149B40:639–640
 - structure, 149B1:9, 16–17; 152B41:518–522; 161B44:572; 163B7:72; 176B(narrative):9–11; 183A1:5; 185B1:5–6; 195B2:6–7, 24
 - subduction zones, 160B51:694; 185A1:1–63
 - subsidence, 181A5:37; 6:72
 - thermal events, 159B5:47
 - thickening, 134B31:562
 - thickness, 159B21:220–221; 163B7:73; 11:131; 195A1:17–18
 - thinning, 161A1:10–11; 210A1:11
 - transform faults, 159A3:52
 - upper alteration stages, 102B11:165
 - velocity, 102A3:97; 102B5:63
 - volcanism, 163B6:59–61; 185B1:25
 - weld formation, 118B21:392, 394; 26:441
 - young crust physical properties, 102A3:96
 - zoning structure, 163B2:25
 - See also* lithosphere; mantle; Mohorovicic discontinuity; ocean–continent transition; top of oceanic crust
- crust, altered oceanic
- age, 117A5:51, 54
 - alteration, 111B4:43–45; 9:97–98; 11:130; 12:140–141; 14:164–165
 - assimilation, 137/140B4:43–51
 - Galicia margin W, 103A1:3; 103B4:47; 17:268
 - Gortani Ridge, 107B4:54
 - morphology, 107A2:10, 14, 15; 6:131
 - Northeast Georgia Rise, 114B2:23, 32, 36
 - Sulu Sea, 124A5:88, 92; 124B4:56–57; 5:70–71; 19:252
 - velocity, 102A3:123; 102B4:58–59; 11:157, 166–167
 - Vøring Plateau, 104A1:9, 11, 14
- crust, basaltic
- age, 129B31:553

- alteration, 129B16:298
- Gortani Ridge, 107B38:652
- Jurassic, 129A3:157–158
- lithology, 191A4:15
- Marsili Basin, 107B38:652
- rifted margins, 163X_A1:1–19
- simple model, 129B21:412
- thickening, 129B18:349
- crust, continental
 - basement, 183A1:35
 - Bay of Biscay, 103A7:109
 - extensional tectonics, 123B43:801
 - geologic history, 207A1:3–4
 - Grand Banks, 103B44:798
 - igneous provinces, 183A1:2
 - Newfoundland-Flemish Basin, 103B43:781
 - ocean-continent transition, 149B47:725–729
 - offshore, 189A1:7
 - Ortegal Spur, 103A7:111
 - pressure-temperature conditions, 180B3:1–28
 - rifting, 149B40:636–645; 210A1:5–6
 - Sardinian margin, 107A8:408; 10:757
 - SCREECH transect 2, 210A5:6
 - seismic studies, 112A7:111, 116; 141A8:274
 - stress, 123B26:503
 - structure, 102B5:67
 - subsidence, 103B39:711–712; 40:733–736, 739; 41:741–746, 750–756; 107A10:785
 - thickness variation, 107A10:748–749
 - thinning, 103B45:821–822, 104B51:1049, 1051; 107B38:621
 - tilting, 103B41:745
 - Vavilov Basin, 107A8:408
 - See also* lithosphere
- crust, igneous, circulation, 168A4:50–52; 168B1:3–5
- crust, lower
 - age, 105B52:1000; 110B4:32; 131A6:210–211; 135B1:3; 143A2:26
 - Albian, 103A5:84; 103B2:20
 - alteration, 102B3:35, 38, 41, 44; 106/109B14:181–182, 192; 111A3:59, 68, 70, 118–119, 125; 111B12:140
 - attenuation, 135B2:17, 20
 - Cornaglia Basin, 107B1:22
 - Costa Rica Rift, 111A2:23; 111B6:61
 - drilling, 137A2:51–54
 - formation, 106/109B3:27; 107B1:21; 38:653–654; 111B14:165
 - Galicia Bank N, 103B4:42–43
 - hydrothermal circulation, 111A2:28, 30; 4:254–255
 - Kerguelen Plateau, 120B(1)2:33–35; 3:55
 - Lesser Antilles arc structure, 110B4:34
 - magnetic properties, 139B1:19–27; 147B23:393–403
 - Mesozoic, 103B4:41–42
 - morphology, 107A2:15
 - ocean basins, 134A2:22
 - Pacific Ocean W, 124A3:41
 - Peru margin, 112A1:20, 11:118
 - seismic reflectors, 152B39:471–472
 - seismic velocity, 147B25:417–440; 153B25:437–454
 - structure, 102B5:65; 8:97–124; 111B11:120–121; 120B(1)1:7; 2:34–35; 124B5:65
 - subduction, 107B38:660; 110B4:34; 134A2:19
 - thickness, 106/109A2:18, 20; 110A1:5; 110B3:26; 4:32, 40; 111B16:177, 189
 - velocity, 106/109A2:18; 147B29:477–490
- crust, lower oceanic
 - composition, 176B3:1–13; 6:1–82
 - construction, 176B(synthesis):18–23
 - hydrothermal alteration, 176B1:1–24
 - magma chambers, 176B(synthesis):4–6
 - silicates, 176B10:1–60
 - structure, 176A1:2–5
 - sulfur, 147B5:99
 - velocity structure, 176B5:1–71
- crust, mafic, structure, 183B1:25
- crust, oceanic
 - accretionary complexes, 111B12:144–145; 112A1:9; 4:73; 7:109, 9:134–135, 14:364; 15:438–439; 17:597–598; 135A(1)1:11
 - age, 106/109A7:176; 106/109B10:117; 118B24:415–416; 120B(1)1:7; 5:76; 123B9:198; 31:575, 577–578; 124B7:91; 24:339–340; 137/140B15:182; 141B35:426
 - alteration, 129B15:283–294; 148B13:199–200; 34:423
 - anomalies, 130A10:497
 - Aptian, 103A5:84
 - Barbados Ridge, 110A4:70; 7:430; 9:514; 10:580, 586
 - basalts, 191B3:3–4
 - Bay of Biscay, 103A7:109
 - blocks, 135A(1)4:91–92
 - boundaries, 104A1:5; 193A1:4–5
 - buried seamounts, 102B8:110–111
 - cation exchange capacity, 111B9:100
 - Celebes Sea, 124B5:65
 - chemical fluxes, 111B11:119–120, 124–131
 - Chile Rise, 141A1:5–7
 - composition, 147B2:46–50; 179A4:47–48
 - conductive reheating, 123B9:191, 198
 - cooling, 104B24:437
 - crystallization, 153A3:114–115; 153B17:333–350
 - dating, 180B2:11–13
 - density, 102B5:63–67; 153A4:175–176
 - depth anomaly, 124B33:449
 - drilling history, 111A3:126
 - earthquakes, 111B10:115–116
 - elastic-wave velocities, 144B40:665–671
 - electrical resistivity, 111B12:133–145; 127/128B(2)84:1351
 - emplacement, 107B38:720–721, 723
 - Eocene northward drift, 121B8:220
 - Eolian arc, 107B38:640
 - evolution, 135A(1)11:579, 581–582
 - excluded element concentration, 118B4:86
 - extension, 107B38:721; 135A(1)1:5–47
 - fast-spreading ridges, 147B12:233
 - flexure, 124B8:115, 117
 - formation, 102B1:12; 118B26:513; 163B7:72–73; 206A1:26–36, 44; 3:3–5; 206B1:1–15
 - formation waters, 102A3:138
 - fractional crystallization, 120B(1)10:146–147

- fractures, 111B9:104–106; 118A6:90; 118B21:392
 gabbros, 153B4:71–74
 gabbro-troctolite-peridotite complex, 147B7:135–155
 Galicia margin, 103A1:3; 5:92; 8:160; 10:462;
 103B17:268; 41:747; 45:826
 geochemistry, 111A3:108–112; 123B42:797;
 136B9:116
 geologic implications, 102B5:63
 geophysical aging, 144B39:649–663
 geothermal state, 110A5:252; 137/140B28:323
 Grand Banks, 103B44:796
 gravity anomalies and thickness, 121A4:86
 Hawaiian margin magnetic lineations, 103B37:659
 heat transport, 111A3:68, 70
 high vs. low offsets, 118B10:225
 hydrologic evolution, 144B39:649–663
 hydrothermal circulation, 118B6:136–137; 168A1:7–
 21
 hydrothermal exchange, 137/140B8:103–104
 hydrothermal veins, 153B9:155–178
 Iberian Massif, 103B1:4
 igneous rocks, 191B1:5–7; 203B1:3–5
 in situ, 148B16:229–243; 206A1:3–6; 206B1:1–15
 Indian Ocean, 120B(2)50:918
 Japan Basin, 127A4:73
 Jurassic, 129B7:172; 19:361–388; 22:415–427;
 144B38:641–647; 60:1007–1019
 Kerguelen-Heard Plateau, 119A1:7
 Kerguelen Plateau, 119A1:7
 lithology, 111A3:126; 111B9:100; 10:116–117; 12:135
 location, 110B1:4
 Lofoten-Vesterålen shelf, 104A1:13
 low-pressure structure, 120A6:134
 low-temperature alteration, 192B6:1–8
 magma supply and thickness, 118B21:361
 magnetic anomalies, 148B24:331–338; 149B43:667–
 674
 magnetic properties, 106/109A7:189; 106/
 109B18:223–229; 21:258–262; 118B17:318;
 139B30:528–529
 Mariana forearc vs. Pacific forearc, 125A6:98
 Marsili Basin, 107B38:634
 mass transport, 124B17:233
 melting, 125B12:231; 147A1:5; 153B10:236
 Mesozoic, 157A2:13
 mid-crust region anisotropy, 102B8:112
 mid-ocean-ridge basalts, 170A1:7
 Middle Jurassic, 129B3:82
 mineralogy, 111A3:115
 Mohs Ridge, 104A1:8
 Ninetyeast Ridge age, 121B38:774
 Norway-Greenland region, 104A1:6, 9
 obduction, 141B4:56
 ocean-continent transition, 149B47:722–725
 ophiolites, 179A4:12
 oxygen isotopes, 121B22:452
 paleomagnetism, 129B32:578
 permeability, 106/109B16:205; 17:213–222;
 111A3:153–156; 111B9:97–98; 123B27:521
 petrology, 106/109B28:303–305; 185B1:8
 physical properties, 124B6:89–90; 136B14:161–164
 plate tectonics, 118B23:392; 184A1:4
 porosity, 106/109B16:205, 208–210; 111A3:153–156;
 111B9:97–98, 100
 prerift, vs. postrift Southeast Indian Ridge,
 121B34:690
 properties, 144A9:313–314
 resistivity, 106/109B16:206–210; 111B9:100
 Sardinian margin, 107B8:408
 seafloor spreading, 189A1:7
 sealing, 111B9:97–98
 seaward extension, 112A1:5; 15:470–471; 17:645
 seismic impedance, 111B16:181–183
 seismic reflection, 110A1:10; 4:118–119; 110B14:223;
 111B16:177–190; 131A2:15–16; 156A2:16
 seismic stratigraphy, 118B10:219, 225; 141A2:15–17,
 19; 146A(1)11:423; 185B8:6–8
 seismic velocity, 102B11:157; 129B27:493
 serpentinites, 153B1:17–18
 shallow anisotropy, 102B8:111–112
 shallow seismic structure, 200B7:1–21
 sheeted dike complexes, 137/140B17:199–205
 Site 701, 114A8:411
 Site 703, 114A10:550
 Site 747, 120A6:135, 150
 Site 748, 120B(1)9:118
 Site 749, 120A8:268
 Site 750, 120A9:322–323
 Site 802, 129B4:119
 site description, 129A3:91–170
 slug testing, 111B10:113–114
 Southeast Indian Ridge, 120B(2)51:935–936
 strain localization, 137/140B19:219–229
 stress, 111B10:109–115
 stress-induced vertical motion, 123B37:673–676
 strontium isotopes, 138B41:813–819
 structure, 131A6:120; 148B18:267–268
 subsidence, 104B51:1057–1058
 tectonics, 119A1:5–6; 153B4:61–76; 160A1:14–16
 temperature gradient, 111A3:175; 111B12:140–142
 thickness, 118B21:363
 thinning, 103B45:827; 106/109B8:85; 107B38:633
 Tiburon Rise N, 110A10:580
 transition to continental crust, 107A11:878
 ultra-depletion of melts, 147B6:131
 Vavilov Basin, 107A8:408
 velocity variations and cracks, 102B8:97
 volcanism, 152B39:468–469
 Vøring Plateau Escarpment, 104A1:9, 12–14
 vs. porosity, 102B5:67
 water/rock ratios, 111B11:130–131
 well-logging, 102B6:69; 11:155–180; 124B6:75–76,
 79, 80; 148B33:409–414
 Yamato Basin, 127A4:73; 127/128B(2)58:928
 young borehole waters, 102B9:127
See also lithosphere, oceanic
 crust, oldest
 ocean basins, 185B1:35
 structure, 129B1:3–30; 31:551
 crust, plutonic, magnetic anomaly source, 118B21:360
 crust, prerift, continental crust, 210B1:5

- crust, transitional
 - origin, 210A1:11–12
 - Site 766, 123B31:577
- crust, upper
 - five-layer structure, 200B7:1–21
 - hydrocarbons, 180B(synthesis):3
 - low-temperature alteration, 192B6:1–8
 - reflectors, 152B39:469–471
- crust, upper oceanic
 - alteration, 147B13:235–254; 148B5:57–69; 10:119–150; 11:151–170; 12:171–189; 34:417–434; 35:435–450
 - electrical conductivity, 148B21:299–300
 - fluid flow, 137/140B27:313–319
 - gold, 148B36:453–454
 - heat flow, 137/140B28:321–324
 - hydration, 206B12:1–13
 - magnetic oxide mineralogy, 148B38:467–482
 - magnetic properties, 137/140B29:327–337
 - permeability, 148B27:353–363
 - physical properties, 137/140B24:273–291; 206B13:1–11
 - seafloor spreading, 206A1:9–10
 - seismic profiles, 148B25:339–347
 - structure, 102B8:97; 148B17:245–259
 - velocity, 102B8:106
- crust, uppermost, structure, 183A1:19–22
- crust, volcanic, tectonics, 202A1:6–7
- crust/mantle boundary, H Reflector, 173A7:217
- crust–mantle transition zone
 - fabrics, 147B19:353–354
 - lower oceanic crust, 176B(synthesis):22–23
 - See also* Mohorovicic discontinuity
- Crustaceans. *See* cirripeds; copepods; crabs
- crustal extension
 - landslide deposits, 149B35:571–575
 - subsidence, 149B39:628–629
 - See also* extensional tectonics
- crustal layers
 - fluid evolution, 137/140B16:191–198
 - fluid flow, 137/140B27:313–319
 - partial melts, 137/140B4:47–50
 - penetration, 140A2:127
 - serpentinization, 153B22:412–413
- crustal stretching
 - basins, 161B44:576
 - rifting, 161B44:573
 - See also* lithospheric stretching
- crustal structure
 - 3.5 km/s layer, 127/128B(2)83:1342
 - 4.5 km/s layer, 127/128B(2)70:1120
 - anisotropy, 127/128B(2)70:1110–1115; 83:1343
 - Bermuda Rise, 102A3:112, 122–123
 - elastic-wave velocity, 144B40:667–670
 - electrical resistivity, 127/128B(2)83:1343
 - heat flow, 127/128B(2)81:1302–1303
 - Honshu N shelf, 128A3:73
 - Japan arc, 128A3:74
 - Japan Basin, 127A1:9; 4:79; 5:176; 6:251–252; 127/128B(2)58:924; 69:1075, 1083, 1086, 1104; 70:1107; 81:1304–1305; 82:1311–1314; 83:1341–1346; 128A1:9–11; 3:70–72, 74
 - Japan Sea, 127/128B(2)69:1075, 1083, 1104; 70:1107; 82:1311–1314; 83:1333, 1341–1346; 128A1:6–7, 9–11
 - Japan Trench, 128A3:74
 - Kita-Yamato Bank, 128A5:248
 - Kita-Yamato Trough, 128A5:245–249
 - lateral heterogeneity, 127/128B(2)70:1110–1112
 - lower crust, 127/128B(2)83:1342–1343
 - ocean bottom seismometer data, 127/128B(2)69:1075
 - Oki Ridge, 128A4:127–128
 - Oki Trough, 128A4:130
 - Okushiri Ridge, 127A6:251–252
 - paleobathymetry, 127/128B(2)76:1201
 - plate reconstruction, 127/128B(2)82:1311–1314
 - Site 801, 144B39:659–660
 - Takuyo Bank, 128A5:249
 - tectonic history, 127/128B(2)82:1318–1319
 - temperature, 127/128B(2)83:1343
 - Tsushima Basin, 127/128B(2)82:1311–1314
 - Vanuatu, 134B31:549–563
 - velocity structure, 127/128B(2)69:1078–1083
 - Yamato Bank, 127A7:330; 128A5:248
 - Yamato Basin, 127A1:9; 4:79; 5:176; 7:329–330, 333; 127/128B(2)51:837; 57:899; 69:1075–1106; 70:1107; 81:1304–1305; 82:1311–1314; 83:1341–1346; 128A1:9–11, 24; 3:70–73; 4:127–128, 130; 5:248
 - Yamato Rise, 127A1:9; 7:329–330, 333; 127/128B(2)69:1075; 128A1:9–11; 5:245–249
 - Yamato seamount chain, 128A4:128
- crustal thickening, collisional tectonics, 161B23:310
- crustal thickness, volcanic oceanic plateaus, 192A1:4
- crustal thinning
 - gateway history, 189B1:8–11
 - ductile deformation, 180B(synthesis):18–19
- crustal wedges, models, 152B39:474
- crusts
 - hydrothermal fields, 158A1:7, 10
 - sulfides, 158A7:101–103
- crusts, ferromanganese
 - composition, 144B44:745–769
 - deposition, 143B31:527
 - hardgrounds, 144B22:419–428
 - hydrogenetic origin, 144B44:755, 757–759
 - photograph, 144B44:764
 - radiolarian claystone, 123B2:13–15; 3:55
 - Site 1121, 181A5:33
 - See also* hardgrounds; nodules
- crusts, igneous
 - drilling, 139A3:44
 - structure, 134B31:560–562
- crusts, manganese
 - atolls, 144B14:285
 - biostratigraphy, 144A8:298; 144B6:127–139; 9:171–196
 - Cretaceous, 143B29:441–442
 - diagenesis, 144B16:327
 - genesis, 144B22:419–428

- lithology, 144A5:154–155; 6:212–214; 7:288–289;
 10:339
- outer perimeter ridge, 144B15:300
- photograph, 144A5:158; 6:219; 7:262, 266;
 144B15:309; 22:428
- sediments, 135B52:841; 143B13:200–201, 208
See also micronodules; nodules
- crusts, manganese oxide, 123A4:93–94
- crusts, phosphatic manganese, 144A6:226–227
- crusts, stromatolitic manganese, 144B46:805
- Cruziana* ichnofacies
 - biostratigraphy, 174A_B(synopsis):7
 - lithology, 181A6:12; 7:10–11; 8:5–6, 9; 9:5–8
 - vs. depth, 181A8:51
- cryosphere
 - Antarctica, 177A1:7–8
 - ice sheets, 189B1:2, 19
 - lithology, 189A7:19
 - lower Cenozoic, 189B3:13
- cryosphere, global, elements, 113B53:952
- cryophilic taxa, ostracodes, 151B11:197–201
- cryptic variations
 - gabbros, 179B2:12–14, 19–20, 47–48
 - magnetic susceptibility, 176B11:10, 24–25
- cryptochrons
 - estimated ages, 138B5:68
 - Miocene, 138B5:66–69, 71
 - stratigraphy, 177B(synthesis):4
 - volcanic history, 163B6:57–58
- cryptochronozones. *See* cryptochrons
- cryptocrystalline texture. *See* textures, cryptocrystalline
- cryptogams, palynomorphs, 188B3:7, 10–11
- cryptophytes, sediments, 175B5:8–9
- cryptoturbidites, Ninetyeast Ridge, 121B11:242
- crystal accumulation
 - igneous rocks, 205B9:7, 11–12
 - rare earths, 205B9:32
- crystal age, apatite, 161B21:298
- crystal aggregates
 - lava ponds, 206B5:3
 - photomicrograph, 193A3:131–132
- crystal chemistry
 - anhydrite, 158B10:122–124
 - blue tuff, 127/128B(1)8:126
 - dolomite, 175B15:6–7
 - ferromanganese crusts, 144B44:751
 - gabbros, 147B11:215–216; 179B(synthesis):28–30
 - phyllosilicates, 158B18:241
 - ultramafic and gabbroic rocks, 147B14:257–263
 - See also* mineral chemistry
- crystal clots
 - clinopyroxenes, 137/140B11:122
 - petrology, 140A2:55–58
- crystal fabrics, plagioclase, 147B17:322
- crystal fractionation
 - basalts, 142B1:7; 2:17–19
 - Celebes and Sulu seas, 124B36:486
 - lava, 163X_A8:31
 - mafic rocks, 209A7:25
 - olivines, 187B1:14
 - potassium enrichment of glass, 124B35:475–476
 - vesicles, 135B37:619–623
- crystal fracturing, igneous rocks, 140A2:84
- crystal fragments, 129B5:140
- crystal growth
 - backscattered electron images, 161B8:109
 - clinopyroxenes, 137/140B11:127–129
 - crack-seal veins, 148B19:284–285
 - gabbros, 147B2:28, 33
 - photograph, 158A7:99–101
- crystal habit, photomicrograph, 164A8:257; 209A7:48
- crystal inclusions, phenocrysts, 157B22:379–381
- crystal layering, Atlantis Bank, 118A6:106
- crystal/lithic layers, lithology, 134B5:79
- crystal molds, photograph, 139A6:178
- crystal mush
 - formation, 118B26:442, 509
 - intrusions, 118B26:458; 176B10:23–25
 - lineation, 147B17:324
 - magmatic foliation, 118B24:427
 - morphology, 147B17:328
 - syntectonic differentiation, 118B26:488
- crystal packets, high-resolution image, 147B13:246
- crystal-plastic. *See* deformation, crystal-plastic; fabric, crystal-plastic; fabric, plastic; foliation, crystal-plastic; shear zones, crystal-plastic; structures, crystal-plastic
- crystal-plastic foliation. *See* foliation, crystal-plastic
- crystal-plastic microstructures. *See* microstructures, crystal-plastic
- crystal settling, geochemical indicators, 142B2:20–21
- crystal size
 - alternating-field demagnetization, 142A4:72
 - basalts, 148A3:139
 - microcracks, 142B7:57
 - Miocene volcanic ash layers, 165B5:102–103
 - thin sections, 148A3:187
 - vs. natural remanent magnetization, 142A4:72
 - See also* grain size
- crystal structure, gas hydrates, 164A1:8; 164B1:9, 4:39,
 41–42
- crystal zoning, plagioclase, 135A(1)4:145
- crystalline rocks, Galicia margin W, 103A9:223
- crystallinity
 - alteration, 148B12:180; 168B10:134
 - lava flows, 183B14:3–8
- crystallinity index
 - silica, 185B10:2
 - vs. porosity, 185B10:10
- crystallites
 - chloritized metabasite clasts, 173A7:191–192
 - groundmass, 206A3:58–59
 - plagioclase, 135A(1)6:271
 - Sulu Sea, 124A11:259–260, 262
- crystallites, plumose, photomicrograph, 191A4:103
- crystallization
 - age, 127/128B(2)50:821; 129B21:407–409, 411–412
 - amphiboles, 147B3:67
 - basalts, 136B9:111–113; 163X_A8:11; 200B2:14
 - calc-alkaline and boninite series, 125B10:183, 198
 - Celebes Sea, 124A10:142
 - controls, 163B12:141–144

- diabases, 137/140B19:220, 223; 140A2:62–63;
 148B4:44–45; 180B2:13; 3:10–11
 fluid inclusions, 159B6:50–51
 gabbroics, 147B2:26–28, 33; 6:127–128; 153B5:98;
 209B1:15
 gneisses, 161B19:272; 20:284
 kinetic controls, 163B12:135–148
 lava, 163B12:138
 lower oceanic crust, 176B(synthesis):18–22, 25–26
 low-pressure vs. high-pressure processes, 124B35:474
 lunar approximation model, 118B4:101–102
 magmas, 118B26:486; 157B22:388–389; 23:407–408;
 24:416–417; 176B10:24–25
 melts, 153B10:208–213
 metamorphic styles, 118B8:160, 171
 migration of interstitial melts, 147B1:15–16
 multiple dikes, 137/140B2:22–31
 oceanic crust, 153B17:333–350
 ooze, 138A(2)13:699
 ophiolites, 179A4:12, 48
 petrography, 150X_B3:27
 photograph, 149A6:188–189
 pressure-temperature conditions, 176B8:5–14
 primary melts, 148B3:21–35
 quantitative models, 179B2:14–16
 roof vs. bottom in gabbros, 147B1:14
 schists, 161B20:283–284, 287–288
 sequence definition, 125B10:182
 silica, 185B10:1–11
 silicates, 137/140B1:9–12
 subsolidus reequilibrium and alteration, 147B2:27
 Sulu Sea, 124A11:255, 265; 124B35:469
 temperature, 176B4:11–12
 tephrochronology, 183B9:8–9
 time vs. grain size, 137/140B2:29–31
 troctolites, 209A10:9–10
 vs. time, 137/140B2:28–31
See also crystal fractionation; dendrites; fractional
 crystallization; fractionation; fractionation in-
 dex; nucleation; recrystallization
 crystallization, dendritic, backscattered electron image,
 163B12:139
 crystallization, dynamic, dissolution, 147B2:48
 crystallization, fractional, magmas, 163B9:105
 crystallization, hydrous, amphiboles, 129B17:314
 crystallization, hydrous magmatic, 118B9:208
 crystallization, in situ, gabbros, 179B(synthesis):30–34
 crystallization, postentrapment
 glass inclusions, 157B22:382–384
 plagioclase, 137/140B12:134–135
 crystallization domains
 image-analysis micrograph, 147B2:35
 photograph, 147B2:38
 crystallization walls, nickel, 176B12:5
 crystalloclasts, mud breccia, 160B46:598, 601–602
 crystals, acicular, lava ponds, 206B5:3
 crystals, authigenic, lithology, 169A3:52
 crystals, clasts, 157B16:271–272
 crystals, euhedral
 lithology, 176A3:19–20
 photograph, 169A5:218
 photomicrograph, 169A3:79
 crystals, quench, alkali feldspar, 129B17:308
 crystals, scalenohedral
 cements, 143B13:199
 photograph, 143B13:227
 CT scan. *See* X-ray computed tomography
 cubanite. *See* isocubanite
 Cuisian, biostratigraphy, 144B6:127–139
 cultivation
 bacteria, 201A6:21–22; 7:23; 9:17; 10:19–20; 11:22;
 12:18; 205A4:52
 enrichment, 193A3:295; 4:51–52, 252–254
 microorganisms, 201B1:13–16; 2:1–19; 3:1–19
 observations, 193A4:195
 seafloor samples, 201B3:5–6
 subseafloor samples, 201B3:6–7
 culture experiments
 electron donors, 209B5:25
 See also microbial enrichment cultures
 cultured isolates
 phenotypic diversity, 201B2:8–9
 phylogeny, 201B2:8–9
 cummingtonite
 alteration, 147A3:68–69; 147B10:201–202
 Atlantis Bank, 118B8:163
 high-temperature minerals, 176A3:35
 photograph, 153A3:63
 porphyroclast cores, 118A6:137
 Site 733, 118A4:67, 69, 71
 cumulates
 Atlantis Bank, 118B1:4
 composition, 147B2:46–50
 crystallization, 153B17:333–350; 176B8:5–14
 gabbros, 147A1:9; 147B1:13–14; 153B5:93–94;
 18:361; 179A4:41–42, 47–48; 179B(synthe-
 sis):19–21; 2:52
 geochemistry, 149B27:476, 479, 481; 176B3:3–5; 6:23
 lithology, 170A3:60; 4:108
 lower oceanic crust, 176B(synthesis):18–22; 10:27
 melt migration, 147B2:21–58
 mineral composition, 144B30:513–533
 photomicrograph, 187A13:20, 30
 platinum-group elements, 147B4:90
 Site 786, 125B10:181–182
 temperature of formation, 118B1:13
 See also adcumulates; heteradcumulate; mesocumu-
 late; orthocumulate
 cumulates, ultramafic, ophiolites, 179A4:12
 cuneolinids, Aptian–Albian interval, 144B50:887–893
 Cunoniaceae, Site 820, 133B9:109
 cupolas, lower oceanic crust, 176B(synthesis):20–22
 Cupressaceae
 palynomorphs, 188B3:9, 11
 Site 797, 127/128B(1)28:490
 cuprite, halos, 145B25:392–395
 Curie temperature
 alteration, 148B12:178–183
 Cretaceous, 210B15:9
 deep-sea sediments, 185B7:6
 demagnetization, 141B5:65, 67; 183A5:148
 flood basalts, 163B2:26

- heating runs, 141B5:73
Kerguelen Plateau central, 120B(1)6:81
lava, 144B36:624–625
magnetic anisotropy, 156B6:99
magnetic mineralogy, 137/140B22:257–259;
147B21:379; 154B10:173; 188A3:41
magnetic properties, 139B30:529; 158B25:345
mid-ocean-ridge basalt, 187B7:4–9
peridotites, 147B24:406; 173B8:9; 210B1:17
remanent magnetization, 147B24:406; 188A4:27–28
sediments, 131B24:296–297; 135B45:717–719;
139B46:728; 194A4:19; 195B13:5
serpentine mud, 195A3:27
thermomagnetic curves, 183B12:6–7, 10–11, 25–26;
13:5
volcanic rocks, 141B4:56
volcaniclastics, 134B28:492
vs. depth, 137/140B22:259; 148B12:179
vs. magnetic susceptibility/saturation remanent mag-
netization ratio, 141B4:53
vs. natural remanent magnetization, 187B7:15
vs. oxidation ratio, 148B12:182
See also magnetic properties
- current erosion. *See* erosion, current
current flows, Eocene–Oligocene interval, 189B1:14
current-ripple cross laminations. *See* cross laminations,
current-ripple
current sorting. *See* sorting, current
currents
Baffin Bay, 105B1:12
California Current, 167A(1)1:5–13
deep water, 181A1:4–5
diatoms, 186B3:1–21
evolution, 151B3:54–55
glacials, 175A3:51
Labrador Sea, 105B1:15–16
Neogene, 151B16:299–305
Norwegian–Greenland Sea, 151B1:15, 17
ocean circulation, 138B22:503–504; 154B18:269–284;
159B40:549–551; 165A4:154–155
oceanography, 178A2:6–7
Pacific Ocean N, 167B32:343
paleoceanography, 181A1:3; 6:11–13; 186B4:7–9, 15
paleoclimatology, 175A17:518
patterns, 175A19:540
productivity, 175A1:19
Quaternary, 151B26:449, 451–452
sea ice, 151B2:25–36
seismic reflectors, 157B2:26–27
transport, 167B32:345; 175A17:508
See also bottom traction currents; boundary currents;
contour currents; ocean circulation
- currents, cyclonic, sedimentation, 146B(2)8:121
currents, deep-sea, Atlantic Ocean, 152B1:6–7
currents, geostrophic, circulation, 175A16:488
currents, surface
circulation, 175A17:507
iceberg drift, 105B4:55
map, 202B12:34
Norwegian–Greenland Sea, 151A1:17–18
Cushmanideidae, Bahamas, 101B8:142
- cut fluorescence. *See* fluorescence
cuticles, kerogen, 183B3:5–6
cutinite
coal, 180B10:10–11
dispersed organic matter, 180B10:10
macerals, 180B10:9
photomicrograph, 180B10:26–27, 33
cutoff channels, lithology, 174AXS_A4:25
cyanobacteria
biomarkers, 198A3:32; 207A10:5–6
chromatograms, 208A5:16
lithofacies, 144B17:340
organic matter, 198A9:28–29
sapropels, 160B21:265
sediments, 157B21:367; 175B18:5–10
See also bacteria
- Cyatheaceae
palynomorphs, 188B3:11
sporomorphs, 183B3:7
cycadophytes, pollen, 183B3:8
cycladophorids
Paleocene biostratigraphy, 181B1:15–16
Site 794, 127/128B(1)16:307
- Cyclamminidae
biostratigraphy, 210A1:23
lithology, 210A4:8
- cycle stratigraphy. *See* cyclostratigraphy
cyclic bedding. *See* bedding, cyclic
cyclic processes
bioclastics deposition, 144B47:826–828, 836–840
biostratigraphy, 154A9:438; 154B12:190–192; 15:236;
161B15:202; 166B15:155–166
carbon, 154B22:341–345; 204A7:10–11; 8:13; 9:11
Cenozoic, 154A4:129; 5:212; 9:422, 424; 154B15:236
clay/silt ratio, 178B24:4–8
composite sections, 166A9:248–250
Cretaceous, 143B31:520–522
deposition, 144B18:371; 166A2:14–18; 3:36;
166B16:170–174; 171B_A6:262; 178A4:11–13;
5:8–12; 178B25:10–12
diagenesis, 144B16:322–329
gamma ray logs, 174A_A5:183–184
ice rafting, 145B11:179–194
Jurassic–Cretaceous interval, 129B32:601
lithofacies, 144B12:236–241
lithology, 146A(2)2:31–32; 154A5:157; 9:421–422;
162A3:65; 4:101, 105–108; 5:146, 149, 152;
162B14:206–207; 166A6:83–84, 114–115;
7:154–156; 8:179–180; 9:239–241; 10:295–296;
11:350–352, 355–356; 167A(1)6:134–135;
168A4:57; 5:110; 178A1:6–7; 178B32:1–43;
181A1:13, 24, 29, 32; 7:9–10; 8:10; 9:7–8;
182A10:12
magnetic properties, 130A11:543; 159A5:93;
181A3:19–20
magnetic susceptibility, 130A11:543; 159A5:93
mass accumulation rates, 182B1:7–9
millennial cycles, 167B32:354–355
mudstone-wackestone series, 166A8:205–207
oceanography, 169S_A2:15–16
orbital forcing, 145B21:325

pelagic processes, 166A9:242–243
 physical properties, 182A1:30
 Quaternary, 182A1:16
 sea level changes, 143B20:322–326
 sedimentary succession, 166A10:304–305
 sedimentation, 133A(1)12:483, 485; 154B3:75–76;
 20:312; 166B7:82–85; 172A4:118–125;
 174AXS_A4:31; 178B(synthesis):16–17;
 181A9:18–19
 sediments, 135B8:140–141; 182A1:17, 21
 spectral analysis, 154B7:140–142
 stratigraphy, 145B19:283–292; 29:437–452
 upper Neogene, 181B1:51–54
 well-logging, 143A6:151–152; 7:241; 151A9:302–304
See also decameter-scale cycles; glacial half-cycles; gla-
 cial–interglacial cycles; Milankovitch cycles; or-
 bital cycles
 cyclic processes, first-order, vs. depth, 178A4:49;
 178B25:16
 cyclic processes, meter-scale, deposition, 143B31:520–
 521
 cyclic processes, millennial-scale, sedimentation,
 167B11:163–182
 cyclic processes, short-term, sediments, 178B25:7–8
 cyclic processes logs, vs. depth, 166A6:105–108
 cyclic sedimentation. *See* sedimentation, cyclic
 cycloalkanes, sediments, 157B21:367
Cycloclypeus facies, assemblages, 133B4:58, 60
Cycloclypeus spp., photomicrograph, 194A4:63
 cyclohexane
 Tyrenhenian Sea, 107B34:560
See also methylcyclohexane
 cyclopentane
 gas hydrates, 164B3:30–35
 Site 799, 128A5:321–322
See also methylcyclopentane
 cyclopentenone, alkylated, sapropels, 160B23:288
 cyclopentone, biomarkers, 159B43:599
 cyclopropyls, community composition, 169B3:9
 cyclostomes, reef mounds, 182A2:4; 182B1:9–10
 cyclostratigraphy
 calcareous plankton, 160B12:155–165
 Cenozoic, 208A1:11; 208B1:6–7
 Demerara Rise, 207A1:44–45
 Eocene, 207B1:10
 geochemistry, 160B17:208–211
 lithology, 166B7:77–88
 lower Cenozoic, 208A1:31–32
 mid-Cretaceous, 207B2:1–31
 middle Pliocene, 160B18:219–226
 nannofossil events, 154B4:83–99
 Neogene, 208A1:10–11
 oceanic anoxic events, 207A1:5–6
 Oligocene, 154B5:101–114
 Paleogene, 199B1:8
 Pliocene, 154B20:302–304
 sapropels, 160B15:193–195
 sediments, 208A8:20–21
 synthesis, 198A1:59–60
 vs. depth, 208A4:66
See also Milankovitch cycles

Cyclotella litoralis, mass accumulation rate, 175B11:23
 Cylindrichnus
 lithology, 181A7:8, 11; 8:5–6
 Site 698, 114A5:97, 101–104, 118
 Cymbaloporidae, Site 821, 133B26:367
 cynnamyls/vanillyls ratio, biomarkers, 159B43:597
 Cyperaceae
 pollen, 133B9:111
 seasonal variations, 117B15:278
 Site 717, 116B21:249
 Site 721, 117B15:279
 Site 723, 117B15:280
 Site 820, 133B9:111
 cypress. *See* juniper/cypress ratio
 crystals
 Cagayan Ridge, 124A12:304–307, 313; 14:402–403
 Celebes Sea, 124A10:141–142
 Kerguelen Plateau, 120B(1)10:138
 Sulu Sea, 124A13:201, 210–211; 19:257
 Cytophaga-Flavobacterium-Bacteroides group
 cultured isolates, 201B2:9
 microbial populations, 187B1:6; 6:7, 14–15, 17

D

D-allisoleucine/L-isoleucene ratio
 enantiomeric ratio, 155B22:376–378
 pore water, 201B12:1–7
 racemization, 155B22:376–378
 vs. age, 155B22:377
See also amino acids
 D-phosphate, Site 799, 127/128B(1)2:38–39
 D/H. *See* deuterium/hydrogen ratio; hydrogen isotopes
 D/L ratio. *See* D-allisoleucine/L-isoleucene ratio
 dacite/rhyolite boundary, geochemistry, 193B2:8
 dacites
 age, 161B27:362–364
 alteration, 135B40:653–663; 183A6:50; 183B1:10;
 193A3:36–51
 amphiboles, 125B10:187
 bacteria, 193A3:225; 6:26
 Cagayan Ridge, 124A6:93
 composition, 141A3:24; 183A1:80
 cross section, 163X_A1:15
 eruptions, 183A1:37
 flows, 125A14:325; 141A9:313
 fractionation, 124B35:476
 geochemistry, 135B24:385–425; 38:640–642;
 145B44:664–665; 193A4:47; 193B6:19; 8:1–18
 groundmass, 125A10:205
 hydrothermal fields, 193A1:7
 intrusions, 180B(synthesis):6
 lava flows, 152A9:133–134
 lithology, 125B9:166; 163A4:35; 5:52; 183A1:21;
 193A1:4
 mafic phenocrysts, 125B10:182
 magnesium number, 125B10:196
 mineralogy, 125B10:195
 origin, 163B9:95–112
 parental magma, 125B10:188

- petrography, 125B10:180; 13:239; 134B16:338, 342;
152B33:405; 161B27:357–359
- petrology, 141B28:349–360; 193B2:4–8
- photograph, 152A9:130, 134; 193A1:77; 5:7
- photomicrograph, 183A6:125
- rare earths, 147B3:73
- rifted margins, 163X_A1:3–4
- shallow-level processes, 125B12:227
- Site 782, 125B13:258
- Site 786, 125A14:324
- stable isotopes, 125B13:259
- Sulu Sea, 124A6:93
- tephra, 151B18:341–343
- trace elements, 125B13:222
- turbidites, 135B3:44
- volcanics, 127/128B(2)48:793; 134B21:409–412;
161B44:568; 201B19:10
- volcanism, 193B1:10–12
- zirconium/strontium ratio, 125B13:223
- See also* andesitic-dacitic composition
- dacites, altered**
- geochemistry, 193B8:1–18
- hydrothermal minerals, 193B8:16
- photograph, 193A3:172
- photomicrograph, 193A1:45; 3:175–176; 193B8:7
- dacites, amygdaloidal, photomicrograph, 193B8:8–9**
- dacites, aphyric**
- alteration, 193A4:26–41
- lithology, 193A4:9–23
- photograph, 193A3:104
- photomicrograph, 193B8:9
- dacites, bleached, photomicrograph, 193B8:7**
- dacites, brecciated, photomicrograph, 193B8:10**
- dacites, coherent**
- photomicrograph, 193B8:9
- unaltered feldspar-phyric, 193B8:13
- veined, 193B8:11
- dacites, flow-banded, photomicrograph, 193B8:8, 12**
- dacites, fresh and altered, analyses, 193B12:1–9**
- dacites, phyric, stratigraphy, 141B27:333–334**
- dacites, porphyritic, alteration films, 193A3:37**
- dacites, pseudoclastic veined, 193B8:8**
- dacites, spherulitic, photomicrograph, 193B8:8**
- dacites, unaltered, volcanism, 193B1:11–12**
- dacites, vesicular**
- petrology, 193A5:4–5
- photomicrograph, 193B8:7
- dacites, vesicular aphyric, 193B8:13**
- dacitic composition, volcanic ash, 198B18:6**
- Daijima-type flora, 127/128B(1)15:249; 28:486**
- Danian**
- biostratigraphy, 159B25:282–285; 174AXS_A5:43–44;
6:49, 93; 181A8:18; 183A3:8–9; 188B2:5;
189A7:35; 189B3:8; 5:32; 192A3:22–23;
207A6:14, 19; 208A8:16–17; 210A3:77, 86
- burrows, 192A3:16–17
- correlation, 171B_B9:14
- critical events, 210A1:18
- hiatuses, 189B1:3; 3:8
- lithology, 174AXS_A5:31; 189A7:16–18
- magnetostratigraphy, 171B_A5:203; 171B_B9:10
- mass accumulation rates, 171B_A6:273–274
- paleoclimatology, 171B_B10:16–17
- stratigraphy, 174AXS_A6:58–59
- unconformities, 189B1:9
- See also* Cretaceous/Tertiary boundary; Maastrichtian–Danian interval
- Danian, lower**
- biostratigraphy, 207A5:16
- lithology, 192A3:9–11
- photomicrograph, 192A3:54
- Danian, middle, lithology, 192A1:22–24**
- Danian/Selandian boundary, biostratigraphy, 207A8:17**
- Dansgaard-Oeschger events**
- carbonate mass accumulation rates, 167B32:356–357
- comparison in GISP-2, 167B32:356–357
- compressional wave velocity, 172B(overview):4
- correlation, 167B11:175–176, 181–182; 21:252–254;
25:294; 32:372–373
- interstadials, 184B2:6–10
- millennial cycles, 167B32:354–355; 202A1:33–37
- paleoceanography, 184A1:9
- paleoclimatology, 167B21:251–254
- sediments, 172B5:1–24
- turbidites, 184A4:11
- dark layers**
- photograph, 159B43:589
- vs. depth, 161A8:366–367
- dark–light cycles**
- biogenic component, 127/128B(1)25:432; 33:584,
588
- burrows, 127/128B(1)32:564–565, 569
- carbon and sulfur data, 127/128B(1)33:579
- carbon/nitrogen ratio, 127/128B(1)25:431
- carbonate, 127/128B(1)25:431–432; 33:586–588
- characterization, 127/128B(1)32:563
- clay minerals, 127/128B(1)32:569
- color, 127/128B(1)33:581
- consolidation, 127/128B(2)71:1125
- core continuity and corrections, 127/128B(1)33:578
- dark layers, 127/128B(1)33:580, 584, 591–601
- density, 127/128B(1)32:568
- deposition, 127/128B(1)33:590–594
- dropstones, 127/128B(1)33:581
- excess silica content, 127/128B(2)78:1241, 1253
- first-order rhythms, 127/128B(1)26:446–447; 32:559,
563
- gray value, 127/128B(1)32:570–571; 33:579–587
- hydrogen index, 127/128B(1)25:431–432
- interbedded volcanic ash layers, 127/128B(1)33:581
- isotopes, 127/128B(1)32:569–571
- Japan Sea circulation, 127/128B(1)32:574–575
- layer thickness, 127/128B(1)33:594
- lithofacies and bacteria, 127/128B(1)46:772
- major and minor elements, 127/128B(1)32:568–571
- microfossils, 127/128B(1)32:568
- Milankovitch cycles, 127/128B(1)26:446–447;
32:571–575
- molecular organic fossils, 127/128B(1)38:670, 675
- monsoons, 127/128B(1)32:574–575
- nature of basal boundaries, 127/128B(1)32:569
- nitrogen, 127/128B(1)25:431

- occurrence, 127/128B(1)32:562–563; (2)77:1221
 opal, 127/128B(1)26:446, 569
 organic carbon, 127/128B(1)25:430–432; 32:568;
 33:586–588; 38:671
 organic matter, 127/128B(1)26:446; 32:564; 38:668–
 669
 origin of cyclicity, 127/128B(1)33:577–601
 origin of detrital component, 127/128B(1)33:594–595
 oxygen index, 127/128B(1)25:431–432
 oxygen isotopes, 127/128B(1)25:431; 33:588
 oxygenation conditions, 127/128B(1)25:432; 33:590–
 591
 paleoceanography, 127/128B(1)32:574–575
 paleoenvironment, 127/128B(1)24:419–421
 productivity, 127/128B(1)25:431–432; 33:591–594
 revised lithostratigraphy, 127/128B(2)78:1229–1232
 second-order rhythms, 127/128B(1)26:446; 32:559,
 563–569
 sedimentology, 127/128B(1)32:569; 33:579, 582–584
 seismic expression, 127/128B(2)72:1140–1141, 1143
 Site 795, 127/128B(2)78:1257
 Site 797, 127/128B(1)32:574
 Site 798, 127/128B(1)23:393; 24:421; 26:446; 27:458;
 32:559–576
 Site 799, 127/128B(1)32:571–574; 128A5:267
 Sites 794, 795, and 797 correlated, 127/
 128B(1)33:577–601
 Sites 797–799 correlation, 127/128B(1)32:574
 structure/composition comparison, 127/
 128B(1)32:564–565
 sulfur, 127/128B(1)33:586–588
 synthetic sequence, 127/128B(1)32:566–567
 thickness, 127/128B(1)33:581
 third-order rhythms, 127/128B(1)32:559, 563
 trace metals, 127/128B(2)85:1361
 X-ray diffraction data, 127/128B(1)33:579, 584–588
 dark spots, diagenesis, 192A3:19–20
 DARWIN, computer models, 137/140B5:58
 dasycladaceans
 abundance, 144B6:130; 9:178–186
 Cretaceous–Paleogene interval, 144B50:887–893
 Site 873, 144A5:173
 See also algae, calcareous
 data processing, on-board, well-logging, 136A5:85
 databases, geology and geophysics, 190A1:4
 dating
 igneous activity, 165A3:85
 tephra, 152B5:54–55; 8:105, 107
 volcaniclastics, 152B6:71
 See also age; chronostratigraphy; geochronology; ra-
 diometric ages; stratigraphy
 datum levels. *See* biostratigraphic datums
 Davis-Villinger temperature-pressure probe
 measurements, 205A4:55–57; 5:37–39; 205B1:25
 sediments, 164A9:311; 201A7:34; 8:27; 9:25; 10:28;
 11:32; 12:26
 Day plot, basalts, 187B7:6–7
 DCS. *See* diamond coring system
 deamination
 organic acids, 144B27:473–474
 oxidation, 135B44:712–713
 See also amino acids
 debris
 biosiliceous, 129B32:592
 dredged, 144B49:884–885
 shallow-water, 129B6:164
 volcaniclastic, 157B13:193
 debris, ice-rafted
 limits, 167B10:160
 mass accumulation rates, 163B14:157–166
 organic matter, 167B10:158–160
 debris avalanches
 sediments, 129B5:146
 volcaniclastics, 157B16:278
 debris flow channels
 Lima Basin, 112A8:128
 Yaquina Basin, 112A8:128–129
 See also gravity flow deposits
 debris flow units
 age, 155B6:136–137
 lithology, 155A12:363–364; 40:623
 trace elements, 155A12:350
 debris flows
 accretionary complexes, 204A11:7–9
 biostratigraphy, 155A17:522; 204B6:2–3
 carbonates, 160B36:458; 51:687
 chronostratigraphy, 188B14:10–11
 clasts, 157B12:145, 148; 181A7:26; 181B3:2
 clay mineralogy, 155B9:187, 189, 191; 204B11:8
 cobblestone topography, 160A5:88
 comparisons, 101A7:221
 composition, 143A2:29
 Conical Seamount, 125B19:343
 core-seismic integration, 155A6:117
 Cornaglia Terrace, 107B18:295–297
 Cretaceous, 149B39:627
 cyclic processes, 188B1:16
 De Marchi Seamount, 107B18:295–297
 definition, 107B18:294
 deformation, 160A7:180, 182; 8:242
 deposition, 119A5:156; 134A7:107–108; 149A4:58–
 59; 150A10:344; 155A17:528–529; 157A10:514–
 515; 173A7:177; 178A9:8–9; 188A5:13;
 192A4:9–10; 204A6:7
 diagenesis, 139B7:109–110
 environment, 204A10:10–11
 Exuma Sound, 101A1:7–8; 10:391
 fan deposits, 155A13:394
 felsic sediments, 157B3:30–31
 Formation MicroScanner imagery, 160B47:619
 Gortani Ridge, 107B18:295–297; 38:659
 history, 149B45:694–695
 impacts, 178A2:18
 landslides, 157B12:174; 27:449
 lithofacies, 133A(1)4:86, 89–90; 150B11:203, 205,
 209–210; 161B2:28
 lithology, 107B18:303; 133A(1)16:686, 692, 697–700;
 17:789; 135A(1)8:348–349; 150A7:135–140;
 9:260–265; 10:312–316; 155A6:117; 12:364–
 366; 157B12:173; 27:459–460; 160A11:381–383,
 400; 12:423–424, 427–428; 164A8:246–249;
 166A11:350–352, 355–356; 168A5:109–111;

- 170A3:60–61; 171B_A4:103; 173A9:273;
180A5:8–9; 10:7–8; 181A6:8–13; 7:8–9; 190A6:7;
8:6; 194A8:7; 204A7:5–7; 8:7–8; 9:5–7; 10:4–9;
11:2–7; 207A8:10; 210A1:14; 3:25, 58–59, 62
Little Bahama Bank, 101A1:7–8; 6:117, 120;
101B11:175
Marsili Basin, 107B18:297–298; 38:656
Miocene, 101A5:76; 101B12:188; 150B11:221;
181A7:11–12
Miocene–Pleistocene interval, 133B27:379–445
mollusks, 150X_B26:356–357
mud breccia, 160A5:121–124; 160B46:600; 50:677
mud domes, 160A18:524
mud-supported sediments, 101B14:211
mud volcanoes, 195A3:15
New Jersey continental slope, 150B11:207–209
normally graded sand lithofacies, 150B11:203
Northeast Providence Channel, 101A13:528–529
occurrence, 160A12:445
ocean–continent transition, 149B47:719–722
origin, 107A9:609
paleoenvironment, 160A7:162–164; 192A6:14–15
petrology, 144B29:500
photograph, 146A(1)6:250; 150A9:266–267;
150B11:225; 152B9:127; 155A8:182; 20:602–
603; 160A7:183; 8:245; 11:390; 12:428;
164A6:110; 171B_A4:110; 181A6:52; 194A8:41;
204A1:59; 6:36; 7:32; 9:40; 10:46; 11:28;
207A8:43–44; 210A3:215, 222
photomicrograph, 157B12:148, 181; 160B37:472–473
Pleistocene, 135B52:841; 188A1:2–3
redeposition, 205A6:9
sands, 150B11:201, 203
Sardinian margin, 107A10:764; 107B18:295–297;
38:665
seamounts, 129B5:138
sedimentary succession, 107A9:610; 166A10:304–305
sedimentation, 135B7:116; 8:144–145; 141B31:395;
173A9:293; 183A5:7–8; 205A5:15
sediments, 107B18:300, 302; 141B6:89–92;
146A(1)6:258; 152A8:97; 157A2:13, 22–23;
173A1:14; 174A_B(synopsis):8
seismic data, 157B2:23–26; 188B14:8–10; 204A3:58
serpentinites, 125A11:264
serpentinite breccia, 149B36:584–585
silty turbidites, 134B7:103
Site 747, 120A6:151; 120B(1)1:20–21
Site 765, 123A4:125, 129, 165, 169
Site 778, 125B19:340
Straits of Florida, 101A1:8; 5:50, 57–60, 70–71, 78–79;
101B11:174
stratigraphic break, 101A6:130
structural data, 149A4:87–88; 160A6:136; 176A1:6–8
submarine canyons, 150B15:291–292
tectonics, 173A7:216–217
transport, 157B12:165–166
turbidites, 157A1:7; 157B30:529–531
Tyrrhenian Sea, 107B18:295–298
uppermost Pliocene, 161B6:77–81
volcanics, 130B9:429; 136B4:61
volcaniclastics, 157A9:448–449; 157B12:163–165
vs. depth, 157A6:147; 168A5:110
well-logging, 207A8:72; 207B14:6
See also gravity flow deposits; gravity flow facies;
landslide deposits; mass flow deposits; mass
transport deposits; mass wasting; mud flow de-
posits; pyroclastic flows; slump deposits; slump-
ing; talus; turbidity currents
debris flows, clast-supported, Pigafetta Basin, 129B6:155
debris flows, graded, Pigafetta Basin, 129B6:155
debris flows, ice-rafted
deposition, 152A13:283, 286–287
geochemistry, 152B2:26–28
paleoceanography, 181B1:36–37
photograph, sediments, 152A11:199
debris flows, matrix-supported
biostratigraphy, 129B12:229
lithology, 129B14:269
photograph, 129B6:155
Pigafetta Basin, 129B6:155, 161
debris flows, polymict
deposition, 152A10:171
intervals, 152A10:172
debris flows, rudist caprinid, lithology, 143A7:199
debris flows, sandy, photograph, 210A3:134
debris flows, silty, photograph, 210A2:203, 205
debrites
biostratigraphy, 182A1:22–23
Cretaceous, 182A6:38
debrite lens, 105B3:31
deposition, 178A9:8–9
Formation MicroScanner imagery, 157B3:35
geochronology, 157B11:133–134
lithofacies, 178A6:6–7
lithology, 135B7:121; 152A10:170–173
seismic sequences, 182A6:38
source areas, 157B12:166–168
decimeter-scale cycles, deposition, 143B31:521
decay constants, surface porosity, 204B8:29
décollement-protodécollement zone
correlation, 171A_B3:24
density maps, 171A_B3:25
décollement zone
accretionary systems, 131B6:73–82; 134B1:13–18
anisotropy, 131B18:223–225; 29:365–378
barium, 205B2:7
biostratigraphy, 156B2:33–48
carbon–nitrogen cycles, 205B7:12–14
carbonate veins, 156B5:79–96
clay mineralogy, 156B1:3–30
comparison, 190A1:79
computed tomography, 131B10:136, 138
consolidation, 131B23:288; 170A4:141
core-scale structures, 131B29:370–371
cores, 156A6:108, 111, 114
CORK-II, 205A2:11–12
correlation, 190A1:30, 80
deformation, 159B3:25–33; 205A5:20–22
densification, 171A_B3:10
density, 171A_A6:90; 171A_B3:22
development, 190A1:28–30
diagenesis, 156B1:25–27; 196A1:13

- effect on organic matter, 131B5:63
 evolution, 156B22:287–288
 fault zones, 196A1:12–13
 fluid flow, 156B25:311–319; 171A_A4:50–52; 5:67;
 6:89
 fractures, 190A5:59
 frontal thrust, 131B25:303–305; 34:423–425
 geochemistry, 131B35:427–428; 156B13:171–182;
 25:317; 205A6:17
 geology, 160A10:337; 13:451; 160B50:677
 geometry, 131B9:127–128
 initiation, 171A_B3:6–7; 190/196B1:5–7
 interpretation, 159B3:27
 kinematic evolution, 170B3:11
 lithology, 171A_A3:27; 4:45; 7:100; 205A6:35
 localization, 171A_B3:10–11
 location and arrangement, 156B22:285–286
 magnetic susceptibility, 131B29:367–368; 156B6:103–
 104
 mud matrix, 160B45:587–588
 offscraping, 131B9:124
 packer experiments, 156B15:199–218
 peak seismic amplitude, 171A_B3:18
 peridotites, 195A1:3–4, 11–15; 195B1:4–5
 permeability, 131B19:239; 171A_B3:11; 190/196B10:6
 photograph, 131A6:146; 156A6:128; 7:226;
 170A4:112–113; 7:224; 170B3:22; 190A1:62–63;
 5:57; 205A5:47; 6:36
 physical properties, 190/196B12:1–18
 plate tectonics, 205A1:8–10; 205B1:29
 pore pressure, 156B9:125–135; 24:309
 pore water, 131B28:353–357
 porosity, 131B32:399; 17:215–216; 171A_B1:1–19
 prisms, 131A6:119
 processes, 171A_B3:7–11
 quinones, 205B8:20
 reaction fronts, 205B6:8–9, 13–14
 resistivity, 171A_A5:73
 resistivity-at-the-bit images, 196A4:21–22, 50–51
 sandy underthrust sequence, 171A_B3:19
 scaly fabric, 156B4:59–77; 205A6:11
 scanning electron microscopy, 190/196B7:23, 27
 seamounts, 160B51:693
 sedimentary wedges, 170A4:112–113
 sediments, 131A7:277–278; 131B20:255–256; 190/
 196B7:8–9; 196A1:10
 seismic data, 131A2:18; 156B20:255–262;
 171A_B2:12; 190A1:4–5; 190/196B12:1–18
 seismic reflection, 131A2:17; 141A2:15–19; 156A1:4,
 10, 19–21; 5:76; 156B9:128; 23:293–302;
 171A_B3:3–4
 site comparisons, 171A_A4:48, 50, 66, 87–88
 sketch, 156A6:127
 stereographic projections, 190A5:58
 stratigraphic equivalent, 196A3:35–36
 stress-strain variations, 131B22:278–279
 structural and hydrologic evolution, 190A1:8
 structural geology, 131B7:83–101; 156A6:116–117,
 126; 7:213–215, 256; 156B22:279–292;
 170A4:113–116; 7:226; 170B3:6–7, 12, 23; 4:3;
 190A5:13, 57–59; 196A1:6–7; 205A5:64
 tectonics, 171A_A1:5–6
 temperature, 205B12:19
 transects, 190A1:36–37
 underthrust section, 196A4:30
 velocity, 131B7:86; 190/196B11:7–9
 vs. void ratio, 146B(1)16:279
 water content, 134B30:544–545
 well-logging, 171A_A3:29–31; 4:45–46; 5:63
See also protodécollement horizon
 decompaction
 Celebes Sea, 124B30:405
 sediments, 181A6:26
 Sulu Sea, 124B30:405
 decomposition
 gas hydrates, 164B29:285–300
 organic matter, 202A6:14; 204A10:14–15
 decomposition, thermal
 geochemistry, 131B13:172
 organic materials, 131B12:161
 decompression
 mantle, 192B1:5–7
 mineral assemblages, 161B23:314
 pressure-temperature conditions, 161B19:273–274
 deconvolution, U-channel studies, 202B14:9, 28–30
 decoupling
 décollement zones, 156B22:288–289
 stress, 134B32:574
 deep chlorophyll maximum
 circulation, 161A1:12
 Zanclean, 160B9:119–120
 deep copper zone, sulfides, 169A3:76–78; 169B5:5–6
 deep induction logs, 180A6:182–185; 8:99–100; 9:131–
 134; 12:132–136; 181A3:65, 69; 7:105, 111; 8:82;
 9:53; 200A1:56; 4:147
 deep resistivity logs
 images, 193A3:253–254
 vs. depth, 146A(1)6:280; 171A_A3:36; 6:79;
 182A4:75–76; 5:55; 6:79; 7:61; 8:62; 9:53; 10:63;
 12:51; 183A7:175–178; 184A5:68–69; 7:67; 9:80;
 189A5:105; 7:96; 192A6:88, 90; 193A3:256;
 4:217, 226; 194A6:64; 7:105–107, 111–112;
 9:53; 195A4:153; 197A3:131; 199A11:81–83;
 12:86; 201A6:71; 7:76; 9:57; 10:61; 11:77;
 204A4:89–90; 5:51, 53; 6:61–62, 68; 7:58, 60;
 8:72, 74; 9:72, 75; 10:82–83, 89; 11:48, 51;
 205A4:163; 209A10:147
 Deep Sea Archaeal Group
 16S rRNA genes, 201B2:4–6
 sediments, 201B1:18
 deep-sea environment
 lithology, 178B25:4–6
 Paleocene–Eocene interval, 150X_B23:305–315
 sediments, 182A1:22–25
 deep-sea gateways
 Islas Orcadas Rise, 114A9:484; 114B20:359
 Meteor Rise, 114A10:550; 11:622
 Mid-Atlantic Ridge SW, 114A8:364–365, 411;
 114B20:359
 Northeast Georgia Rise, 114A6:152, 199; 7:307;
 114B19:337
See also gateways

- deep source experiment. *See* seafloor reflections, 3.5-kHz
- deep-tow photographs
 geomorphology, 153B1:7–13
 intersection massif, 153B4:64–69
- deep water
 bacteria, 185B3:1–11
 carbonate crash, 138B42:835–836; 206B4:8–10
 Ceara Rise, 154A1:6–8; 154B19:285–297; 20:299–345; 30:451–461
 climate optimum, 178B34:5–6
 Cretaceous–Paleogene interval, 171B_A1:7
 currents, 167A(1):1:7; 181A1:4–5; 189A1:5
 history, 181A1:4–5; 181B1:38–55
 lithology, 189A7:18–19
 mid-Maastrichtian reversal, 171B_A7:355–357
 millennial-scale climate change, 202A1:34
 ocean circulation, 161A1:13; 172A:7; 175A1:14; 175B(synthesis):16–17, 61; 12:6–8; 177B(synthesis):14–16; 188A1:5–6
 oceanography, 169S_A2:15–16
 Pacific Ocean, 138B17:379–381
 Paleocene/Eocene boundary, 198A1:27–28; 198A4:6–7
 paraconformities, 181B1:41–42
 production and mixing, 177A1:9
 salt, 181B1:38
 temperature, 151B27:466, 478; 207A1:10
 transform faults, 159A1:14
 upper Oligocene, 202B3:5–6
 warming, 198B3:11–12
See also ocean circulation; Warm Saline Deep Water hypothesis
- deep water, warm
 cooling, 130B24:415; 44:715
 indicators, 130B17:307
 Oligocene, 130B15:275–276
- deepwater channels
 density, 101B28:448–450
 lithology, 101B28:447–449
 log-derived subsidence, 101B28:440–447
 structure and evolution, 101B28:439–451
 velocity, 101B28:448–450
- deepwater circulation
 Africa NW, 108A(1):2:34
 anoxic conditions, 107A10:786
 Antarctic Bottom Water, 105B51:980
 Atlantic Ocean E tropical, 108B1:3; 11:158, 164–165; 14:223; 17:281
 Baffin Bay, 105B4:59; 7:88–90
 Bengal Fan, 116B16:189–190
 boundary, 105B51:980
 brine mixture, 107B37:610
 carbon isotopes, 107B1:24
 carbonates, 117A1:6; 145B20:297–300
 circumpolar water mass displacement, 107B31:505
 Eirik Ridge, 105B37:744–746
 episodicity, 105B51:957
 glacial–interglacial cycles, 119B13:246
 glacial maxima, 105B34:657–658
 Gloria Drift, 105B51:987
- grain shape, 105B2:23
 hydrotepid water, 107B9:137
 Indian Ocean, 115A1:14
 intermediate waters, 117A1:6
 Islas Orcadas Rise, 114B27:482
 isotopic correlation, 119B38:712–714
 Labrador Sea, 105B4:59; 6:75, 80
 Mascarene Plateau, 115A5:237
 Meteor Rise, 114A11:687; 114B23:418, 420; 26:479–480; 28:527
 Mid-Atlantic Ridge SW, 114A8:365
 Miocene, 105B51:982–983, 987
 modern pattern, 105B51:983–984
 Neogene, 105B51:980, 982–983, 985–987
 noncorrosive circulation, 105B30:568
 north-south source mixing, 108B11:157
 Northeast Georgia Rise, 114A6:152, 154, 164, 191; 114B27:482
 ocean circulation, 198B1:6–8
 Oligocene, 108B16:290–291
 Owen Ridge, 117B31:523
 Paleogene, 105B51:979–980; 145B18:265–281; 198A1:10–11; 208A1:9–10
 Pleistocene, 108B14:223
 Pliocene, 105B51:966; 108B11:164–165; 16:281
 porosity, 105B38:768–770
 Sardinian margin, 107A10:761
 sedimentary cycles, 119B12:232
 Site 723, 117B31:523
 Southern Ocean, 114B27:493
 stagnation, 107B38:643
 transport, 190/196B4:7
- deformation
 accretionary complexes, 112B2:21–22; 131B9:123–133; 37:487–512; 190A1:27
 alteration, 137/140B20:232; 147B13:237–243; 176A3:38; 176B6:4–7; 205A1:11–13
 applications, 116B23:285–289
 arc-ridge collisions, 134B24:439–442; 35:609–621
 asthenospheric conditions, 125B30:531
 basalts, 163B4:37–38; 187A6:7–8
 basement, 149A4:88–93; 7:237–241; 173A6:138–144
 basins, 161B44:561
 bedding, 112B2:24–25; 135A(1):11:593
 Bengal Fan infilling, 116B23:284
 boreholes, 134A9:242
 breccia, 149B36:582; 173A7:193
 brown amphibole veins, 209A5:19–20
 Cagayan Ridge, 124A12:304
 calcite veins, 149B34:565–567
 carbon-nitrogen evidence, 205B7:8–11
 carbonate veins, 156B5:80–84, 88–90
 clay minerals, 149B19:353–361
 cleavage, 134A7:115
 columns, 159A9:302
 compression, 149B41:654, 656
 computed X-ray tomography, 131B10:135–140
 Conical Seamount, 125B19:349
 core-scale structures, 131B29:369–370
 data summary, 176B5:42–69; 190A4:9–11

- décollement, 156B22:281, 284, 288–289; 159B3:25–33
deposition, 159B8:73
dewatering, 170B4:4–5
diabases, 180A8:25–26
distribution, 159B2:18
dolomite, 201B13:8–9
drilling, 161B11:134–135; 24:326–327
driving force, 116B22:267, 269; 141A9:325
effective axial stress, 174A_B7:13
elastic plate model, 116B23:283–285; 24:292
environment and nature, 141A6:108–109
evaporites, 160A1:14–16; 17:517
evolution, 209A7:19–20
extension, 180A1:7
extent, 179B(synthesis):103
fabric, 141B3:29–49; 149B17:339; 36:582; 180B(synthesis):16
faults, 160A5:104–106; 180A1:23–24
features, 116B24:291
fluids, 176B4:13–14; 190/196B1:1–25; 11:2–3; 204B3:6
foliation, 118A6:105–107; 173A6:148
forearc sediments, 112B2:17–25
Formation MicroScanner imagery, 180B25:20–21
framework along strike, 190A1:9
free-air gravity anomalies, 116B23:285–286
functions, 172A4:103
gabbros, 147B20:359–367; 153A4:158–167; 5:204–209; 6:244–251; 7:267–271; 153B4:70–71; 6:106–108; 180A1:14; 209A5:123
gas hydrate stability zone, 204B2:12–13
geology, 190A1:5; 204B1:4–5
geometry and orientation, 131B4:45–46
grade vs. magnetic susceptibility, 176B11:63
granulite facies diffusion, 118B22:407, 421
hard rocks, 125A7:128
harzburgites, 209A7:13
heat flow, 171A_B3:7
hydration and degree, 118B9:186b
hysteresis parameters, 164B38:407
Iberia-Galicia margin, 210B9:20–21
igneous rocks, 163A4:36
in situ stress estimation, 121B35:699–701, 706
intensity, 176A3:126; 176B11:60; 209A7:14–15
intergrowths, 176B4:13–14
interpretation, 112B2:22–24
intraplate heat and fluid flow, 116B28:350–358
intrusive contacts, 118A6:106
iron-titanium oxides, 153B7:123–141
Islas Orcadas Rise, 114B1:17–19, 22
Izu-Bonin forearc, 125B1:3
Kaiser effect, 121B35:698
kinematic models, 116A22:261–263, 266
lava flows, 163A3:26–27; 5:54–55
Lima Basin, 112A11:171–172; 19:812–813
line drawing, 155A9:211
lithified sediments, 125A15:285–289
lithofacies, 155B40:613
lithology, 139A7:300; 155A12:331–332; 19:508–509; 159A6:188; 7:231; 160A7:179–182; 8:234–242; 164A5:69–73, 94–96; 172A4:88; 173A6:130; 179B(synthesis):45–46; 180A6:10; 183A5:4, 13; 6:4; 209A5:5–9; 9:3–7
lithosphere temperatures, 116B22:266–269
location, 116B23:288
mafic rocks, 153A3:98–100
magnetic anisotropy, 146A(1)6:262–263; 153B23:419–427
magnetic properties, 156B6:103–104; 176B11:12, 29; 186B16:5–6; 190/196B9:1–15
magnetite and ilmenite, 153B7:132
mass transport deposits, 155B6:120, 122, 125
massifs, 179A4:56–57; 179B(synthesis):34–36, 44–47
mechanical models, 116B22:266–269
mechanisms, 125A6:107–108; 125B36:605; 159B3:28–29
melts, 118B4:80; 26:461
metamorphism, 133B37:538; 147B10:202; 173A6:136; 195A3:53–54
Meteor Rise, 114B2:32–34
mica schists, 180A7:12–13
microstructures, 146B(1)13:217–232
mineral chemistry, 118B4:88
mineralized white clay, 135A(1)11:605
Miocene, 116A1:4; 116B23:279; 32:405–407
Miocene–Pliocene slope sequence, 112B2:30
mud breccia, 160B46:600
mud volcanoes, 195A3:15
Nankai accretionary prism, 131A7:273–285
nonlinear progression, 118B26:495
north-south variability, 204B3:1–15
Northeast Georgia Rise, 114B2:29, 32–34
ocean–continent transition, 149B47:718, 728–729
olivine gabbros, 118A6:108
olivine- vs. titanium-oxide gabbro, 118B3:56
orientation, 131B8:104
oxide gabbros, 176B11:18–20
oxide olivine gabbros, 118B2:26–27
oxides, 118B4:90; 176A3:22–23, 124, 124
Palawan-NW Sulu basin, 124B4:54
paleomagnetism, 131B25:301–310; 209B1:13
pelagic volcanoclastic mud, 125A11:260–261
peridotites, 149A4:79–80
petrography, 179A4:38–41; 179B2:18
photograph, 147B20:365; 149A6:160–161, 176, 187; 7:237; 153A4:159; 6:243; 153B6:117; 155A8:182; 11:285; 17:510–511; 19:575–576; 156A7:226; 156B4:62–73; 160A8:229, 247–249; 164A5:71–77; 165B7:136; 166A8:181–182; 167A(1)14:395; 174A_A4:112; 179B3:19; 180A6:100; 8:58; 12:58; 185A4:72–73; 188A3:99; 4:59; 205A1:68; 5:47–48; 207A4:41; 209A3:107, 130; 5:85; 210A4:21
photomicrograph, 147B17:321; 160B45:594; 161A6:246; 179A4:132; 179B2:27, 29; 206A3:193; 209A1:99–100; 3:60, 64; 5:62–66, 85, 130–131, 139; 6:72–76
Pigafetta Basin, 129A3:108–112
Pisco Basin W, 112A18:716–718
Pliocene, 192A1:6
porosity, 194B7:9–15

prerift vs. postrift, 121B27:522
 predate sedimentation, 116B24:294, 295
 pressure-temperature conditions, 161A6:250;
 161B20:282–293; 23:315
 proto-arc formation, 125B30:531
 protodécollement zone, 171A_B3:6–7
 rates, 135B20:326–327
 reefs, 159B8:77
 reorientation of structures, 118B23:409–414
 rifting, 149B1:11–13
 rock magnetics, 186B16:1–21
 Salaverry Basin, 112A12:257–258, 13:314
 scaly fabric, 156B4:63–66
 scan, 176A3:123–125
 seamounts, 160B51:688–690
 sedimentation, 180A1:15
 sediments, 131B21:263; 146A(1)11:421–426;
 146B(1)15:264–265; 149A4:83–88; 7:236–237;
 149B20:370–372; 159B1:4–5; 180A1:11;
 190A1:26
 seismic data, 156A2:18–21; 148A2:60–68; 188B8:7
 seismicity, 116B22:270–271
 serpentinization, 125A6:107; 7:127–128; 8:166;
 11:260–261; 12:289–291; 125B1:8; 153B1:14–
 18; 209A5:18–19
 shear zones, 147A1:11; 176A1:8–10, 18–22;
 176B10:22
 siltstone, 134B1:8–11
 silty turbidites, 134B7:103
 Site 682, 112A14:371
 Site 685, 112A17:618–619, 621; 112B2:22, 26
 Site 688, 112A20:929
 Site 698, 114A5:117
 Site 699, 114A6:152–153, 199
 Site 742, 119A11:413
 Site 830, 134A10:281
 Site 832, 134A12:419–420
 Site 863, 141A10:377, 387
 slope aprons, 112B2:21, 29
 slowness analysis, 190/196B17:5–6
 slumping, 141B3:46
 spatial distribution and temporal progression,
 190A1:7–8
 stages, 159B11:104–105
 stereographic projection, 153B32:557
 strain difference, 121B35:698–701, 706–707, 714–715
 stratigraphy, 186B1:5
 stress, 116B22:266–267, 270–272, 277; 127/
 128B(2)67:1048–1049; 131B18:225–226
 structural data, 118B8:159; 186A4:207; 5:122
 structures, 131B7:83–101; 147B32:516–529;
 156A7:208–211; 159B1:5–7; 180A6:38–42; 8:20–
 26; 9:29–31; 196A1:7
 style, 134A9:211; 14:562, 564; 178A7:37
 subduction, 186A1:15–16
 Sulu Sea, 124B4:52–57
 summary, 196A1:1–29
 tectonics, 134A9:208–211; 160A4:56–58; 160B52:704
 tektites, 150B13:251
 temperature, 118B17:319
 textures, 118A6:107; 118B11:231

time constraints, 159B4:35–41
 timing, 141B1:6; 190/196B9:6–7; 209A5:20
 topography, 116A7:203
 transform faults, 159A1:13; 9:298–309; 159B2:13–23
 triaxial tests, 131B22:275–281
 troctolites and gabbros, 147B14:267–271
 ultramafic rocks, 147B14:263–264
 unlithified sediments, 125A12:285
 Variscan basement, 149B1:8
 vesicles, 157B14:212–213
 viscous hydrodynamic flow model, 116B24:292–303
 volcanic history, 151A1:11–16
 vs. alteration timing, 209A5:103
 vs. depth, 153A3:101; 4:163–167; 6:247–251
 vs. rheology, 116B22:266–267, 277
 well-logging, 148A2:121; 3:191; 171A_A3:29–31; 6:85;
 171A_B2:1–29; 190/196B1:4–5; 196A3:22–23
 within clasts and blocks, 149A6:186
 X-ray pole figure goniometry, 131B11:141–155
See also cracks; crenulation; en echelon folds; fabric;
 faults; fissility; fissures; folds; foliation; frac-
 tures; friction; joints; lineation; liquid limit; mi-
 crostructures; mineral lineation; microfissures;
 microstructures; overconsolidation; plasticity
 index; pop-up structures; rheology; sand pipes;
 scoured contacts; sediment loading; sediment-
 ary structures; soft sediment deformation;
 structural domains; structures; tension gashes;
 water-escape structures
 deformation, asperity, 146B(1)17:289
 deformation, backarc, 141A3:29–30
 deformation, braided, 118B26:457
 deformation, brittle
 alteration, 147B13:239–243; 187A13:9
 Atlantis Bank, 118A6:105–106, 209
 Atlantis II Fracture Zone, 118B26:499
 basement/sediment contact, 161B25:331–344
 Bonin-Mariana region, 125B30:528, 531; 36:609, 611
 breccia, 209A5:22–23, 30–31
 conglomerate, 134A7:117
 décollement zone, 170B3:6–7; 190A1:29
 diabases, 140A2:123–124; 180B3:4–7
 dip vs. expanded depth, 209A5:141
 distribution and orientation, 209A10:20
 faulting, 161B44:568
 fluid-rock interaction, 173A6:144–145
 gabbros, 118B24:426–427; 147B12:228; 153A4:160–
 163; 5:206–208; 7:269–271; 153B9:159–161;
 176A1:15, 18–22; 176B9:19; 180A11:8;
 209A10:18
 granite porphyry, 180A7:13
 hydrothermal roots, 147B10:207
 igneous rocks, 205A4:36; 209A3:24–27
 intensity, 209A6:25, 98–99; 9:16–17, 72; 10:106, 108
 intrusion of oxide gabbros, 118B2:27
 Lima Basin, 112B41:631
 lithology, 186A1:13
 macroscopic evidence, 118B26:491
 magmatic structures, 176A3:59–63
 magnetic susceptibility, 176B11:16
 metadiabase, 180A7:15

- metamorphic minerals, 153B31:534
 mica schist, 180A7:12
 microstructures, 176A3:64
 mineralogical changes, 118B5:114
 paleomagnetic reorientation, 147A3:88; 4:139–140
 peridotites, 153A3:95–98
 petrography, 179A4:40
 photograph, 183A8:72; 9:68
 photomicrograph, 209A5:121
 postkinematic structures, 118B8:159
 quartz veins, 161A6:221–223
 sediments, 205A5:18
 serpentinization, 153B3:49–52; 209A7:15–20
 shear zones, 147A3:80–83
 Site 681, 112B41:631
 Site 685, 112A17:611
 structures, 180A5:20–23; 6:39–43; 12:29–30
 sulfur depletion, 118B5:121
 synkinematic structures, 118B8:159
 tectonics, 134A9:206–211; 180A6:146
 underthrust section, 170B3:7–8
 veins, 137/140B20:239; 140A2:95
 vs. depth, 153A4:163, 166; 6:251
- deformation, brittle-ductile
 amphibolite facies, 118B26:497
 braiding, 118B26:501
 initiation, 118B26:511
 late-magmatic structures, 118B26:496–497, 501–502
 photomicrograph, 209A6:87
 serpentinized harzburgites, 209A7:15–20
 Southwest Indian Ridge, 118B26:488
 subsolidus, 118B26:488, 501, 511
 transition in slow-spreading vs. fast-spreading ridges, 118B26:513
- deformation, cataclastic
 alteration, 118A6:136–138; 147B13:242–243
 gabbros, 147B28:463, 466
 magmatic structures, 176A3:59–63
 medium-temperature metamorphism, 118A3:51–52
 metagabbro breccia, 118A6:106
 photograph, 209A3:120
 shear zones, 147A:81
 troctolites and gabbros, 147B14:268
- deformation, compressional
 Bengal Fan, 116A4:73–74, 81, 86; 5:117, 129; 116B23:283–289; 29:363–368
 calculations, 116B29:365–366
 characteristics, 116B29:366
 deposition, 116B30:367
 overcompression, 116B29:366–367
 undercompression, 116B29:366–367
 vs. depth, 116A6:176–177
See also consolidation
- deformation, coring-induced
 artifacts, 156B4:69, 71
 directional variation, 172A4:100–101
- deformation, crystal-plastic
 distribution and total intensity, 209A6:21, 80
 gabbroonorites, 209A1:102
 gabbros, 209A10:18
 hydrothermal veins, 153B9:170–175
- intensity, 176A3:185–186; 209A3:20–24, 98, 112, 158; 5:21–28, 106, 111, 119, 124, 128–129, 140; 6:79; 7:79, 81; 9:72–73, 105; 10:99–100
 lithology, 179A2:5; 179B(synthesis):47–49
 magma chambers, 176B(synthesis):4–6
 mylonites, 209A3:12
 photograph, 153A6:244; 179A4:134–136, 146; 209A3:129; 6:82
 proportion in cores, 209A3:103
 serpentines, 209A5:21–22
 shear zones, 176A1:5, 15, 18–22; 3:55–58; 176B(synthesis):10
 structures, 209B1:11–15
 textures, 209A6:18–19
 timing, 209A3:30
 vs. magnetic susceptibility, 176B11:60, 63
- deformation, ductile
 Atlantis Bank, 118B8:159
 basement, 149A7:237–241; 161A6:217
 classification, 118B26:492–493
 crustal thinning, 180B(synthesis):18–19
 décollement zone, 170B3:6–7
 extent and location, 118B26:492–496
 gabbros, 153B5:77–98; 180A11:8
 geology, 190A1:4
 hydrothermal alteration, 209A6:16
 internal structures, 173A4:199–201
 lithology, 179A2:5; 4:47–48
 low-temperature structures, 118B24:428
 lower structural domain, 118B24:426
 magmatic differentiation, 118B4:103–104; 24:418
 metadiabase, 180A7:15
 metamorphic minerals, 153B31:533–534
 middle structural domain, 118B23:413, 425–426
 migration of intercumulus melt, 118B26:488, 491
 mineral assemblages, 118B8:160
 peridotites, 125B36:611; 149B22:405–406; 153B2:23–34
 photograph, 210A3:219
 photomicrograph, 173A9:283; 209A1:114–115; 5:122; 6:72
 porphyroclastic textures, 179A4:53
 residual melt expulsion, 118B4:82
 seawater availability, 118B8:174–175
 serpentinized peridotites, 149A4:91
 structures, 210A3:71–73
 tectonic models, 210B9:26–28
 textures, 180B3:4–6
 two phases, 118B26:456
 upper structural domain, 118B23:411, 413, 422–425
 veins, 140A2:92, 94; 180A7:13
- deformation, ductile solid-state
 Atlantis Bank, 118B24:418–422, 428
 synkinematic metamorphism, 118B24:420–421
- deformation, ductile subsolidus
 gabbroonorite, 118B27:536
 olivine gabbros, 118B26:536
- deformation, elastic, triaxial shear strength, 186B17:6
- deformation, extensional
 Bonin-Mariana region, 125A11:262; 125B19:352
 greenschist facies, 173A6:155–156

- deformation, forearc
 - accretionary complexes, 134B29:529
 - New Hebrides island arc, 134B35:618–619
- deformation, glaciotectonic, lithofacies, 119B6:112
- deformation, gravitational, photograph, 180A10:45
- deformation, heterogeneous
 - Bonin-Mariana region, 125B30:523, 527–528
 - sediments, 146B(1)12:206
- deformation, high-strain crystal-plastic
 - strain localization, 179A4:53–54
 - structure, 209A9:12
- deformation, high-temperature
 - brittle, 209A5:26
 - ductile, 209A6:74
 - peridotites, 125A11:262; 125B30:529; 149A4:88
 - photomicrograph, 209A3:100; 9:70
 - ultramafic rock, 125A8:164; 147A4:138–140
- deformation, high-temperature low-strain
 - igneous rocks, 209A3:21
 - structures, 209A9:12
- deformation, high-temperature plastic
 - peridotites, 149B22:399–402
 - ultramafic rocks, 149B21:386
- deformation, hypersolidus, vein and breccia formation, 118B26:488
- deformation, intracrystalline, basalts, 206A3:73–74
- deformation, intraplate, seismic profiling, 123B37:680
- deformation, kink band
 - photomicrograph, 179B2:27
 - textures, 179B(synthesis):42
- deformation, late-stage brittle, tectonics, 210B9:29–30
- deformation, late-stage high-temperature mylonitic, 209A3:29
- deformation, lateral tectonic, 125B36:612
- deformation, low-temperature
 - basement, 149A7:238–240
 - brittle shear, 209A5:27
 - magmatic structures, 176A3:59–61
 - peridotites, 149A4:88
- deformation, magmatic
 - disseminated oxide olivine gabbros, 118B26:461
 - textural characteristics, 118B26:537
- deformation, melt-induced, 179B(synthesis):46–47
- deformation, mylonitic late-stage subsolidus, 118B26:458
- deformation, penetrative
 - burial, 190/196B9:7
 - harzburgites, 125A8:153; 195A3:16–17
 - magnetic inclination, 151A6:127
 - Site 779, 125A6:121
 - Southwest Indian Ridge, 118B26:502
 - troctolites and gabbros, 147B14:268
 - ultramafic rocks, 125B26:433
- deformation, pinch-and-swell, structures, 180A6:39
- deformation, plastic
 - Atlantis Bank, 118A6:103–105
 - foliated vs. unfoliated, 118A6:103
 - geometry, 147A4:139–140
 - high-temperature structures, 118A3:51; 118B26:469
 - hydrothermal alteration, 118A6:106
 - ilmenite-magnetite enrichment, 118A6:105
 - magnetic susceptibility, 176B11:16
 - petrofabric studies, 118B8:159
 - photograph, 181A7:66; 210A3:157, 221
 - photomicrograph, 195A3:86
 - serpentinite muds, 125B20:369
 - serpentinized peridotites, 118A5:85
 - Site 786, 125B14:268
 - stratigraphy, 118B8:156–157
 - synkinematic veins, 118B8:172
 - textures, 118B8:155, 171
- deformation, plastic solid-state
 - recrystallization, 118B22:403–407
 - strain localization, 118B22:406–407
 - strain-softening effects, 118B22:405–408
 - temperature, 118A6:139; 118B22:399, 407
- deformation, poroelastic, sediments, 180B(synthesis):14
- deformation, porphyroclastic/gneissic, 118B4:78
- deformation, postemplacement, breccia, 149A6:186–188
- deformation, postintrusion crystal-plastic, 209A9:14
- deformation, secondary, peridotites, 149B22:402–404
- deformation, semibrittle
 - intensity and orientation, 209A5:31
 - magmatic structures, 176A3:61
 - vs. depth, 209A6:25
- deformation, shear
 - ductile, 125A14:331
 - mylonitic, 118B24:421
 - peridotites, 149B22:404–405
 - photomicrograph, 180A8:78; 206A3:280
 - polyhedra oxide-free, 118B26:488, 501
 - schistose mineralized white-clay, 135A(1)11:604
 - sediments, 131B21:263
 - shear planes, 125B18:328; 126B13:205
 - veins, 137/140B20:238
- deformation, shock, tektites, 150B13:246–247
- deformation, slump, origin, 129B32:585
- deformation, stress-induced, 123B37:680–682
- deformation, subsolidus
 - amphibolite-facies, 118B26:503
 - iron-titanium oxide gabbro, 118B3:44
 - metamorphism, 209A6:20
 - water/rock ratio, 118B26:497–498
- deformation, surface, acoustic images, 139A2:21
- deformation, syn- and post-tectonic, 204B2:8
- deformation, syndepositional
 - lithology, 210A3:27
 - photograph, 210A3:147
- deformation, synlithification
 - sediments, 159A7:241
 - thermal history, 159B4:41
- deformation, symsedimentary
 - lithology, 133A(1)16:703
 - Salaverry Basin, 112A12:257–258
 - Site 700, 114A7:262, 264, 267–268
 - Site 701, 114A8:371
- deformation bands
 - cores, 141A6:99, 105–106; 7:193–201
 - distribution, 131B9:125–128
 - domains, 141A10:374, 377
 - electron micrograph, 170B3:20
 - environment and nature, 141A6:108–109

- Flinn-type diagrams, 146A(1)6:262
fluid flow, 141B29:365, 367
lithology, 146A(1)5:175–176
magnetic anisotropy, 146A(1)6:262; 146B(1)14:237, 240, 243, 247, 252, 254
microstructures, 141B2:13–26
orientation, 141A7:196–200
photograph, 141A6:108–110; 7:193–201, 204, 206; 8:271–274; 10:395–396; 141B2:22–26; 170A4:111; 190A1:60; 5:50
photomicrograph, 179A4:111; 179B2:27, 29
preferred orientation, 141B8:111–114
projections, 141A7:195, 200–208; 7:272; 190A1:61; 5:51
scaly fabric, 156B4:66–67, 73
scanning electron microscopy, 190/196B7:24
sediments, 146A(1)6:258–259; 170A4:109–113; 170B3:4–6, 10; 205A5:20
sequential development, 170B3:30
shear zone, 141B2:19; 146A(1)5:176
siltstone, 141A6:110
Site 861, 141A8:262–268
sketch, 141A6:111
structures, 131B7:86; 146B(1)13:218; 170A7:225–226; 190A5:10–11
underthrust section, 170B3:11–12
vs. depth, 131B8:111; 205A5:64
See also soft-sediment deformation; tubular-cylindrical structures
- deformation fabrics. *See* fabric, deformation
- deformation fronts
accretionary prisms, 204B14:5
cross section, 171A_B3:20
plate tectonics, 205A1:8–10
porosity vs. depth, 131B17:215–216
sediment water content, 134B30:537–538
vs. heat flow, 204B9:24
- deformation microfibrils. *See* microfabric, deformation
- deformation structures. *See* structures, deformation
- deformation texture. *See* textures, deformation
- deformation twins. *See* twinning, deformation
- deformation zones
sediments, 196A1:9–10
thrust zones, 190A1:6
- deformed bedding. *See* bedding, deformed
- deformed strata. *See* bedding, deformed
- degassing
argon isotopes, 149B28:493
core pullout, 204B23:9–10
geology, 160A11:378–379
hydrogen and methane, 129B16:295
lithification, 180B16:5
lithology, 164A6:109; 9:284; 172A4:84–92; 202A4:6–8
magmas, 157B23:407; 24:419–420
methane, 164B10:101–112
methanogenesis, 201B13:8–9
nitrogen, 148B1:6
photograph, 164A6:108
pressure core sampler, 164B11:113–126
sediments, 182A1:21; 204A3:130; 4:129; 6:83; 8:96; 9:97; 10:117
Site 786, 125B8:137–138
volcanic ash, 151B18:343–347
volume-time plots, 204A3:85–86
water-sampling probe, 164A7:196
See also gas release
- deglacial negative carbon isotopic event
foraminifers, 155B17:312, 316
See also carbon isotopes
- deglaciation
chronology, 167B10:155–156
diamicton, 178B34:4
lithology, 169A4:163–165
marine isotope stages, 167B11:163–182
mass accumulation rates, 201B15:6
millennial cycles, 167B32:356–358
paleoclimatology, 177B(synthesis):22
Pleistocene, 177B(synthesis):11
Quaternary, 161B36:464–466
sediments, 169S_A2:16–17
Site 704, 114B25:467–468
stable isotopes, 141B17:239–240
upper Pleistocene, 201B15:5
upper Quaternary, 195A1:26–27
See also deglacial negative carbon isotopic event; glaciation
- degradation
organic matter, 149B14:304, 308; 161A4:83, 85, 89; 5:145–146; 6:236; 7:320–321; 9:404–405; 159A5:109; 6:193–194; 8:284; 9:311; 160A4:67; 5:108, 110; 8:247; 9:310–311; 10:363; 161B32:420; 174A_B(synopsis):9; 175A4:103; 7:188–189; 8:212; 12:367; 20:548–550; 177A6:14–15; 8:17; 178A4:21; 5:18–19; 7:15–16; 8:13; 9:15; 181A3:23–24; 5:20; 7:41; 182A1:32; 186B11:4–6; 189A5:47; 201B1:4–6
sapropels, 160B22:274
“127 degrees” E Fracture Zone (Indian Ocean SE), mantle domains, 187B1:12, 18–21; 3:5–10
degree of pyritization. *See* pyritization, degree of
Dehalococcoides, microbial divergence indexes, 205B8:9
Dehalococcoides ethenogenes, bacteria, 201B2:6
- dehydration
clay minerals, 134B8:128–129; 162A10:362; 186B14:9; 204B13:8
hydrous minerals, 125B21:384
metamorphic rocks, 161B20:290
minerals, 189A6:51
pore water, 195B5:5
sediments, 129B14:271–272; 131B28:353, 355; 31:391–392; 175B10:10; 186A1:15; 189A5:46
smectite, 156B25:317; 190A1:8; 190/196B5:6–7
- dehydration, in situ, clay, 190A1:30
- dehydroxylation, sediments, 143B12:177
- Deinococcus* sp., biomineralization, 193B1:36
- delamination
extensional tectonics, 161A1:6; 161B44:574–576
See also mantle
- delta density logs, 171A_A3:24; 4:43; 5:64; 6:82; 7:98
- delta excursion
sediments, 190A7:11
See also Paleocene/Eocene Thermal Maximum

- delta front environment
 lithofacies, 174AXS_A7:17, 48, 51
 lithology, 174AX_A1:18; 174AXS_A6:21–22, 31–34, 39–46
 paleoenvironment, 174AXS_A4:10–12
 photograph, 174AXS_A6:74, 77–78
delta plain environment, lithology, 174AXS_A4:10–12; 5:19–20; 6:38–48
deltaic environment
 braided, 188A4:17
 clay mineralogy, 189A3:16–21
 cyclic processes, 159B12:120–122
 deposition, 171B_A6:260; 188A4:17
 Eocene, 188B1:6–7
 lithofacies, 174AXS_A(summary):24; 2:24
 lithology, 174AXS_A1:28–29
 paleoenvironment, 174AX_A1:32
 rifting, 159B12:115–116
 sedimentation, 152A13:281–282
 undercompacted sequences, 117A11:360
 volcaniclastics, 152B9:123–125
 See also braided deltaic environment; fluvio-deltaic environment
deltaic lithofacies. *See* lithofacies, deltaic
deltaic sediments. *See* sediments, deltaic
demagnetization
 basalts, 144A3:69–70; 4:127–128; 5:179, 183; 7:275–277; 8:301; 163B4:37–38; 183A4:24–26; 197A4:27–28; 5:23–24; 198B20:5, 9; 200A4:42
 basement, 197A3:34; 4:28–30
 behavior, 114A7:284; 8:393, 395; 11:652, 656; 114B19:343–346; 20:360; 21:373; 22:390–391, 395, 398; 116A6:168, 170; 116B3:29–30
 coercivity, 174A_A3:69; 208A4:17
 cores, 138A(2)16:926; 141A8:260; 157B5:49–52; 173B11:6–8
 Cretaceous, 210B15:27–32
 crystalline rocks, 153A4:172–173; 7:272
 decay curves, 129B24:450; 209A6:115
 diabases, 180A6:52–53
 diagrams, 134A8:159, 164
 discrete samples, 141A6:93; 7:182; 9:320–324; 149A4:70–71; 154A5:168; 158B25:340–344; 173B8:6–7, 19; 178A4:17–18, 146–150; 5:119–122; 7:103; 180A5:79; 7:80; 8:88; 9:108–109; 10:55; 11:31; 12:114–115; 182A4:24–26; 183B13:3–4; 186A5:23; 205A4:44; 5:27
 effects, 115A4:137; 5:253, 255; 10:746; 115B40:722, 724, 729–731
 equal-area plots, 127A4:104–105; 5:206–207; 6:278–279; 7:360–361; 127/128B(2)62:976; 128A3:104–105; 4:173; 5:316–323; 134A9:226
 gabbros, 153A5:211–212; 6:253–254; 153B24:431–433; 170A3:70; 176A3:71–77
 glauconite sand, 150X_B22:296–304
 igneous rocks, 147A1:12; 4:146, 149
 isothermal remanent magnetization, 188A3:114–115
 lava flows, 163A5:54; 197A6:20
 lithology, 113A7:312; 8:375; 121B17:379, 381, 385; 123B28:528–529; 29:550–551; 125B32:549; 33:566; 127/128B(2)60:949, 951; 128A4:169; 5:315; 163A4:35; 199A14:15
 magnetic domains, 205A4:140–141
 magnetic polarity, 138A(1)9:146; 172B11:2–6
 magnetic properties, 157A4:76; 157B5:51; 160A15:500–501; 160B4:60; 165A4:159–160; 172A3:46–47; 180A7:20, 56; 181A5:15–17; 182A7:43; 9:35; 186A4:27–35; 192A4:21–23; 195A3:28–29; 197B1:5–7
 magnetite, 204B18:5–6
 magnetostratigraphy, 130B32:550–552
 metamorphic rocks, 173A4:81
 ooze, 138A(2)13:695
 overprints, 171B_B9:3–4; 184A4:15–17; 6:35; 203A3:63
 peridotites, 149B25:434
 plots, 134A7:122; 11:349; 12:435, 437; 13:517, 519; 164A5:84
 projections, 152A7:82; 201A6:59–62
 response, 129B23:433, 438–439, 442
 sand, 150B8:134, 141
 sedimentary rocks, 129B23:441; 130B31:531–533, 536–539, 542–544
 sediments, 135A(1)6:263; 138A(1)10:220; 138B5:65; 139A6:191–192; 150A6:86–89; 150B8:132–133, 139–140; 152A8:96–97; 152B22:266; 154A4:78–79; 5:167–168; 6:244; 8:353; 154B10:175–176; 155A7:138; 16:474; 18:550, 552–553; 157A6:153–154; 157B5:48–49; 159B20:201; 161A4:73–77; 6:206; 8:367, 369, 372; 9:399; 163A3:26; 164A7:190–191; 165A7:368–369; 166A9:246–247; 11:358; 170A3:70; 180A6:50, 159–160; 181A4:15–16; 182A8:44; 183A7:47–48; 184A5:12–13; 186A5:22–23; 201A7:62–65; 202A7:15–16; 8:20–22; 9:17; 10:15–16; 11:13–14; 12:13–14; 13:12–13; 202B2:3–4; 205A5:25–26; 6:13; 210A3:90–93
 shear zones, 134B27:480–481
 Site 805, 130A7:246–247
 Site 858, 139A7:468–469
 Site 894, 147A3:91–93
 split cores, 178A4:16–17, 125–145; 5:106–118; 7:11–12, 83–102; 8:67–71; 206A3:32–33
 structural domains, 141A8:261
 type I and II behaviors, 121B16:361–362, 367
 vector end-point diagrams, 127/128B(2)59:935, 940, 950–953; 134A10:292, 294; 12:439; 144B36:627; 145B34:497, 501, 507, 510, 517; 149B16:319, 326, 330; 25:438–441, 445; 156A6:136; 7:234; 160A4:72; 5:105; 7:178; 8:243; 10:358; 160B5:63–69; 165A3:68; 4:159–160; 168A4:79–80; 174A_A3:67, 71; 4:121; 5:169; 176A3:220–221; 178A5:60–61; 186A4:108–114; 194A7:85; 200A3:115; 208A4:51; 209A5:164–167; 6:113–114; 7:108–109; 9:97; 10:137–139; 190A4:59
 volcaniclastics, 144A10:364–367
 volcanics, 144A11:429
 vs. alternating-field value, 134A13:520
 vs. B-field, 182A8:45
 vs. depth, 139A7:327–331; 182A11:25
 vs. intensity, 141A6:96–97; 7:183–184; 182A5:38

- vs. natural remanent magnetization, 134A9:226
 whole-core pass-through measurements, 149A4:70
 Zijderfeld plots, 145A3:60; 4:100; 5:146; 7:314; 8:353–354; 145B31:471, 477–478; 152B20:254; 21:262–263; 157B6:60–67; 163A5:55; 164A6:119; 8:262; 9:293; 164B39:412; 193A4:212; 210A3:270, 274; 4:9, 30; 210B15:19–21
See also Koenigsberger ratio
 demagnetization, alternating-field
 basalts, 129B24:448; 25:458; 130B4:52; 132A3:67–68; 134B28:500–501; 135B45:726–731; 46:751, 756; 136A5:69; 142A4:72; 143A7:214; 148A3:160, 148B38:474; 163X_A4:21; 5:11; 6:44; 7:13; 165B9:159–162; 187B7:6, 17; 197A5:80; 200A4:125–126
 Brunhes/Matuyama boundary, 168A4:80
 comparison of Queensland Plateau, 133B50:752
 cores, 136A4:49–54; 139A7:305–307; 151A5:75, 126
 curves, 147A3:95
 dendritic growth, 148A3:134
 density vs. depth, 148B28:370
 diabases, 148A2:70
 discrete samples, 134B26:459–461; 173B8:17; 178A5:15–16; 8:72; 9:13–14; 182A6:56; 199A8:11, 29; 10:13; 11:20–21; 12:21–22; 208A3:56; 209A3:44–45; 210B15:7–8
 dolomitized limestone, 143A7:213
 dunites and harzburgites, 147A4:149
 equal-area projection, 158A11:223
 gabbros, 147B21:377; 205A4:42
 grainstone, 143A7:214
 igneous rocks, 147B22:384–387
 lava, 152A9:121; 152B21:261–262
 limestone, 143A8:287
 lithology, 117A8:168–169; 9:217; 11:332, 334; 12:395–398; 14:453, 454; 15:476; 16:507; 18:568; 19:603–606; 117B7:162–176; 118A6:153–156; 118B16:291–294, 302; 119A5:135, 138; 6:181–188; 8:305, 310; 9:357–358; 11:415; 119B43:753–760, 763, 769; 44:772–777; 45:798; 121A2:51, 55; 121B39:780–784, 793–803, 806–809, 812–817, 820–821, 824–829, 840–854; 129B23:432; 185A4:127–128
 magnetic properties, 130A9:409; 144B34:586–600; 181A6:65; 7:80; 190A6:14–15; 196A3:32–33; 197A5:22–23
 magnetometers, 189A(appendix):13
 magnetostratigraphy, 162B8:113, 130; 9:133; 10:143, 152, 154, 157, 160–161
 ooze, 132B3:40
 overprinting, 178A4:65–66; 191B7:5; 192A6:84
 pelagic sediments, 143A6:135
 principal component analysis, 206A3:134, 137–140
 records, 130A8:316–318
 remanence vectors, 178A4:71–74
 rocks, 192A7:10
 sediments, 132B4:48–49; 133B38:546; 39:565–566; 40:574; 134B26:462–474; 135A(1)5:208; 7:310–313; 8:364; 9:424; 136A5:68–69; 139A6:185–197; 139B46:726; 146A(1)6:256–258; 151A5:75–76; 6:126; 7:177–178; 9:282, 329–330; 161A4:79–80; 5:140; 6:210–211; 9:405; 162A3:71; 5:157; 167A(1)4:63–64; 6:141; 8:187; 10:256; 11:293; 12:325, 333; 13:364–365; 14:400; 16:473; 168A4:78; 6:175; 172A3:44–47; 4:102; 5:186; 6:266; 175B8:3–4; 177A4:14; 8:14; 183B13:9, 13; 184A4:52; 5:49; 190A4:15; 8:13; 9:14; 191A4:24; 192A5:18–22; 6:20–23; 198A4:21–22; 198B21:10; 199A10:31; 201A7:29; 9:20; 11:25–26; 12:21; 202A3:11; 4:11–12; 205A4:41–42; 207A7:18; 8:19–20; 207B3:21–22
 serpentinized peridotites, 195A3:110–111
 shipboard data, 141B4:60–61
 Site 698, 114B22:389–390, 395–396
 Site 703, 114A10:570; 114B21:370, 372; 22:400
 Site 800, 129A2:56
 Site 909, 151A7:178
 Site 910, 151A8:238
 Site 911, 151A9:283
 split cores, 178A5:15; 200A3:35–37, 110–114
 stability, 197A6:18–19
 stacked curves, 150B19:350
 stereograms, 135A(1)10:531; 11:616
 stratigraphic plots, 136B3:47, 50
 sulfides, 158A7:121–122, 139–140; 8:166–167
 U-channel studies, 178B37:21–25; 202B14:9, 28–30
 ultramafics, 209A3:150
 vector diagrams, 134B25:453; 27:482; 135A(1)4:118–119; 5:209; 135B47:768, 771; 136B3:46, 49; 139A5:122–123; 143A6:136; 9:328–329; 143B26:401, 410–411; 148A3:166; 149A4:71; 6:181; 7:233; 153A3:110; 4:171; 153B24:433–435; 158A8:168; 10:207; 11:222; 167A(1)5:105; 173B11:30–34, 37–38, 41–42; 175A11:325; 178A6:45–47; 7:47; 9:52–55; 181A3:48; 5:41, 43; 6:63; 182A12:38; 183A3:34; 4:69, 72; 5:141, 147; 6:143, 153; 7:154, 163; 8:75, 80; 9:106, 110; 9:112; 188A3:117; 4:71–72; 5:62–63; 191B7:13; 195A4:124, 129; 5:28; 195B13:9; 197A5:81; 198B22:11–12; 203A3:61; 206A1:100; 3:133, 291–299, 304–305; 208B4:10
 vs. B-field, 182A7:44; 9:37
 vs. depth, 192A4:100–101; 197A6:79; 201B16:12
 vs. intensity, 135A(1)4:118–119; 182A4:56; 195A4:1
 vs. natural remanent magnetization, 142A4:72
 vs. normalized remanence, 139B30:528
 vs. subbottom depth, 130A9:410
 Zijderfeld plots, 112A20:915–921; 115A4:139–140; 5:254; 10:747–748; 12:926; 127A4:104–105; 5:203, 206–207; 6:277–279; 7:360–361; 127/128B(2)62:971; 128A3:104–105; 4:173; 5:316, 318–323; 146A(1)4:76–77; 5:165, 167; 7:328; 147B22:385, 389; 157A7:354; 167A(1)13:366; 167B28:312–314; 193A3:240–241
 demagnetization, low-temperature
 discrete samples, 178A9:13–14
 isothermal remanent magnetization, 175B13:11
 demagnetization, median demagnetizing field
 basalts, 140A2:102–103
 vs. depth, 137/140B22:254–256; 140A2:123
 demagnetization, single-step, split cores, 178B37:26

- demagnetization, stepwise, vectors, 129B25:461, 463
demagnetization, thermal
analytical data, 141B4:61–63
basalts, 135B45:720–725; 142A4:63; 191A4:25;
195A4:122
Bathonian–Campanian interval, 129B33:617
behavior, 123A4:200; 123B28:529
carbonates, 143B25:395–398
claystone, 156A6:136–137
components, 188A4:70
curves, 193A3:83–84, 246; 4:58–59, 215; 6:33, 46
dikes, 137/140B23:264–266
discrete samples, 154A4:80; 203A3:62; 210B15:7–8
dunites and harzburgites, 147A4:149
gabbros, 147A3:95; 147B21:380
igneous sequences, 130B4:51–55
intensity-decay curves, 160B5:66, 68
iron sulfides, 204B18:5–7
lava, 152B21:262–263
lithology, 107B7:100–103; 8:116; 12:170, 174–175;
22:348, 350–353; 118A8:154, 156; 118B16:291–
292, 296; 119A9:357–358; 119B45:798–804;
121B17:379; 39:784, 792, 804; 129B23:432
magnetic properties, 144B34:586–600;
146B(1)14:235, 238, 244, 248; 181A6:65;
190A5:66; 197B1:26
magnetite, 195A3:107
mid-ocean-ridge basalt, 187B7:4–9, 17
mineralogy, 207B3:5, 19, 23
ooze, 130B31:538, 542–544
pillow basalt, 195A4:30
pre-Pliocene sediment, 107B8:120
rhyodacites, 193A6:12
rock magnetism, 127/128B(2)59:938–939, 949, 951,
954
sandstone, 134B26:470–473
saturation isothermal remanence, 178B14:6;
181A7:80
sediments, 151A8:239; 161A6:215; 164B38:404;
171B_A6:274–275; 7:329; 171B_B9:19;
173A9:276; 181A3:19–20; 188A3:114
serpentine mud, 195A3:27
Site 698, 114B22:392–393
Site 703, 114B22:390, 392, 401
Site 912, 151A10:331
sulfides, 158A7:121–122, 139
ultramafics, 209A3:150
vector diagrams, 134A9:227; 139B30:529–530;
149A4:72; 6:182; 173A4:85; 6:125–126; 7:184–
185; 8:247; 9:278; 173B8:19–21; 11:45, 48, 52–
53; 183A4:73; 5:148; 6:154; 7:164; 8:81;
186A4:115; 191B7:14; 203A3:61; 206A1:99;
3:300–301; 208B4:11
volcanic siltstone, 134B27:483
vs. depth, 138A(2)19:1078; 141A7:181; 8:260;
10:370–372
vs. temperature, 147B24:409; 164A7:193
Zijderveld plots, 146A(2)2:39
demodulation, complex, oxygen isotopes, 154B3:73–74
dendrites
alteration, 187A15:7–8
lithology, 173A4:74; 187A13:6
photograph, 157A4:67
photomicrograph, 187A6:29–30
plagioclase, 163B12:140–141
dendrites, manganese
lithofacies, 144B44:749
limestone, 134A9:191
photograph, 144A5:159; 7:262; 144B5:105–107;
15:310; 44:764
dendrites, manganese oxide, 138A(2)14:757; 15:849;
18:1032; 19:1071
dendrites, plagioclase, 200A4:105
dendrites, stromatolitic, 144B15:300
dendritic texture. *See* textures, dendritic
dendrograms, foraminifers, 139B2:57–58
denitrification
décollement zone, 171A_B3:10
nitrogen isotopes, 202B1:10
sediments, 175B18:5–6, 8–10
densification
porosity collapse, 131B7:93
sediments, 131B10:137
density
accretionary wedges, 134B1:13–18
acoustic impedance, 127/128B(2)72:1137–1138
alteration effects, 118B11:233
Atlantis Bank, 118B11:230–231; 18:324–326
Barbados Ridge, 110A4:105–109; 6:339; 7:420–423;
8:498; 9:528, 532; 110B18:283, 286; 19:292,
298, 302, 305; 20:311
basalts, 102B3:31; 121A10:297, 344; 124B6:87–88;
142B7:53–56; 163B2:24; 185A3:35–36;
191A4:153; 192B7:4–5; 197A1:11; 203A3:21;
206A3:87–88
basement rocks, 115A5:271; 10:766; 123A4:204;
127A5:227
Bengal Fan, 116A4:70, 75–80; 5:116–123; 6:172–176;
116B3:28, 31; 28:349; 30:371–374
boreholes, 159B23:241–242; 199B13:6–7
Broken Ridge, 121A6:140, 144, 163; 7:182–183; 8:217;
9:250–251; 13:500, 505; 121B24:472
burial transformation, 117B12:240
Cagayan Ridge, 124A12:334–335; 14:409–410
calcareous chalks, 121B12:256
carbonate content, 115A6:417; 121B13:269;
133B43:633–647; 166A3:35; 177B6:3
cation exchange capacity, 156B10:139
Celebes Sea, 124A10:161–164; 13:357–361, 374–375;
124B33:456
clasts, 195A3:41, 43
clay content, 127/128B(2)80:1278–1279
color changes, 117B12:241–243, 249–250
composite depth, 207A4:20; 5:21–22; 6:25–26; 8:22
core-core integration, 171B_A6:282–283; 7:330
core-log comparison, 156B26:328; 162A4:124; 6:203–
204; 10:367; 171A_A5:66; 178B17:29–35;
184A5:72; 185B8:3–8; 190A4:29; 204A4:89, 92;
5:51, 53; 6:61–64, 68; 7:58, 60; 8:72, 74; 9:70,
72, 75; 10:82, 85, 89; 11:48, 51; 208A4:67; 6:83
core-seismic comparison, 204A4:78; 5:42; 208A4:67;
210A3:107–108; 210B14:6–9

- core vs. compressional wave velocity, 208A6:83
Cornaglia Terrace, 107A9:603, 617, 620
corrected analyses, 127/128B(2)63:990–1015
correlation, 204B8:7
Costa Rica Rift, 111A3:92–93, 98–99; 4:277–280, 283–286; 111B15:175; 20:235–236
cross section, 171A_B3:20
crust, 124B6:75–76, 79–80, 89–90; 152B39:471; 159B21:220–221
crystalline rocks, 118A6:157
cyclicality, 112A18:729; 117A10:292, 302; 117B12:250–253; 127/128B(1)32:568; 130A13:553–556; 172B5:5–6
data correction methods, 127/128B(2)63:987
data quality, 127A4:127; 5:228–229
De Marchi Seamount, 107A12:963–965
debris flows, 207B14:6
décollement zone, 156B23:300–301; 171A_B3:8
diatom content, 127/128B(2)80:1278–1279
different measurement methods, 207A6:109; 8:101
dikes, 137/140B24:275, 278–280
dipping and truncated sequences, 121A13:497
discontinuities, 119A6:202–203
discrete samples, 152A11:240–241; 12:273; 183A5:56–58; 188A3:149; 207A6:105–108; 7:108–111; 209A6:125
errors in wet volume measurement, 127/128B(2)63:985–986
estimate from resistivity, 151A7:205
fault planes, 190/196B15:4–6
fluctuations, 108A(1)6:423; 114B25:464; 115A7:482–483
gabbros, 153A4:171–172; 153B25:442–444
Galicia margin W, 103A8:152–154, 157–160; 9:223, 259–267, 271, 274, 278, 284, 290–294; 10:435–448, 452–461; 11:543–544, 548–549; 12:591–597, 603–605
gamma-gamma logs, 102B4:50
gamma ray logs, 102B5:65–67
geochemical logs, 130B48:778–779
glacial-interglacial cycles, 117B12:243–245
glauconite, 121A9:252
Gortani Ridge, 107A10:881, 892–895
grain-bulk correlation, 119A5:144–145
grain size, 117A12:400–401; 117B12:242; 190/196B8:7–10
gamma ray attenuation vs. discrete, 114B35:661; 121B15:299; 199B13:14
ice-rafted debris, 188B9:3–4
igneous rocks, 123A5:326, 329–330; 129B27:486–488; 176A1:24; 3:79–80; 176B2:2–3, 7–11; 209A3:38–41, 162; 5:41, 181; 6:33; 7:27–28, 126; 9:22, 108; 10:29–30, 161; 210A1:24; 4:10
impedance, 115A7:484
in situ properties, 199B13:7–9
Indus Fan, 117A8:169–170, 176
intersite correlations, 114B29:559
Japan Sea, 127/128B(2)80:1278–1281
Kane Fracture Zone, 106/109A6:171
Kolmogorov-Smirnov test, 114B29:569–572, 575
Lima Basin, 112A11:187, 198; 19:832
Lingayen Gulf, 124E_A13:78–80, 84, 86
lithofacies, 112B41:628
lithology, 102A3:95–97, 146; 108A(2)12:847; 110A7:438; 118B26:507; 121A11:343; 186A1:14; 191A1:17; 199A8:12–13, 18, 56; 10:14, 19; 11:27–29, 116–117; 12:22–23, 28–29, 119–120; 13:24–25, 87; 14:16, 20–21, 62; 15:10, 13–14, 53; 200A3:44; 4:46–48, 176; 205A4:37–38; 210B7:1–21
logging-while-drilling, 204A3:61; 4:41, 77, 92
loss on ignition, 127/128B(2)80:1283
mafic rocks, 139B38:603–606
Mariana Basin E, 124E_A18:130–131
Marsili Basin, 107A6:133, 153
Mascarene Plateau, 115A5:268–270, 275, 281, 283
massive sulfides, 139B45:722
metagabbro, 118A4:60, 76; 6:157
Mid-Atlantic Ridge, 106/109A7:187–190; 221–222; 106/109B8:93
minerals, 150B20:362
multisensor track, 159A5:112–113; 6:196; 7:245–246; 8:286; 173A4:93–94
Nazareth Bank, 115A4:157–158
Ninetyeast Ridge, 121A10:287–288, 292; 11:337; 12:402–404; 121B15:316–328; 24:472
North Indian Intermediate Water, 117A1:6
Norwegian Sea, 104A4:177, 180–182, 185–191
nuclear magnetic resonance logs, 204B27:8–9
oceanic crust, 144B39:650
opal-A/opal-CT transition, 121B12:256–257; 127/128B(1)1:18–21; (2)73:1146–1147; 80:1278–1279, 1288
organic matter, 117A12:401
origin, 117B12:247–250
oxygen isotope stages, 117B12:244
pelagics, 121A13:495, 497; 121B12:254, 264; 195A4:37–38
peridotites, 153B25:442–444
periodicities, 117B12:245–247
periodograms, 114B29:567–570, 574
Pisco Basin W, 112A18:725
pore pressure, 156B9:125–135
porosity logs, 172A6:299, 302
profiles, 171A_A4:50; 180B5:2–3
protodécollement zone, 171A_B3:8
range, 113A11:624, 626
repressurized sediments, 204B26:5–6, 18
rocks, 192A3:162–164; 4:122–125; 5:121; 6:113; 7:63
Salaverry Basin, 112A12:273
Sardinian margin, 107A8:405, 429–432; 10:751, 770, 772
scatter plots, 119A7:267–268; 138B14:325
sediment color, 114B29:558
sedimentary rocks, 149B18:349–350
sedimentation rates, 115B26:511–512; 199A11:24
sediments, 134B32:571; 150A7:173–178; 8:235–239; 9:291–293; 10:334–336; 150B21:378, 380; 156A6:150–155; 7:237–238; 156B26:330; 159B22:232–233; 162A3:81; 9:319; 168A4:86–87; 169A4:186–188; 5:225–227; 6:289–292; 169B7:4–6; 170A3:79–80, 84; 4:141–142; 5:178,

- 180, 183; 6:206–207, 210; 7:238–240;
174A_A3:77; 4:128, 130; 5:175–176; 177A3:14;
4:18; 5:23; 6:16; 7:16–17; 8:18–19; 9:15–16;
180A7:23; 8:33–34; 9:47–49; 12:41–42;
188A3:56–58; 4:32–34; 5:26–28; 189A3:47; 4:64;
5:164–167; 6:56, 172–176; 7:48, 147–149;
190A4:25–26, 73; 5:30–34, 75; 6:21–22, 50;
7:18, 20, 42; 8:21–22; 9:24–25; 194A3:18–20;
5:19–20; 6:16–18; 7:27–30; 8:19–20; 9:19–20;
196A1:7, 10; 199A9:12, 44; 10:61; 199B13:1–31;
200A3:157; 201A6:27; 7:29–30; 8:23–24; 9:20–
21; 10:23–24; 11:26–27; 12:21–22; 204A3:26–
27, 123–125; 4:20–21, 122–123; 5:63; 6:80; 7:73;
8:18, 93; 9:17–18, 94; 10:22, 111–112; 11:15, 59;
205A5:23–24; 6:12; 206A3:47; 207A4:27–28;
5:31; 6:33–35; 7:30–31; 8:29–30; 210A3:99–101
seismic properties, 110A5:252; 147B25:420–426;
153B25:440–444; 195B11:5, 12
Serocki Volcano, 106/109A4:78–82
serpentinized peridotites, 125B34:582
Sierra Leone Rise, 108A(2)10:758; 11:805; 12:854–
855; 13:938; 16:1016, 1039–1043, 1046
silica diagenesis, 121A13:498
siliceous microfossils, 117A11:338, 361; 175B11:26–
28
Site 657, 108A2:48, 53; 3:132; 4:236, 248; 5:344, 351;
6:428; 7:503; 8:569; 9:640–641; 16:1016, 1024,
1030, 1033, 1036–1037; 108B14:226–240;
23:400, 403
Site 682, 112A14:391–392
Site 685, 112A17:635–636, 643
Site 688, 112A20:922
Site 698, 114A5:112
Site 699, 114A6:182
Site 701, 114A8:406
Site 702, 114A9:504
Site 703, 114A10:578
Site 704, 114A11:672–675; 114B29:552–553
Site 708, 115A6:424–425
Site 709, 115A7:489, 493–494, 497
Site 710, 115A8:589, 610, 618, 621
Site 711, 115A9:676, 678, 686–690
Site 712, 115A10:756, 761
Site 713, 115A10:757, 764–765
Site 714, 115A11:859, 867–871
Site 715, 115A12:936–939
Site 716, 115A13:1015–1016
Site 721, 117A9:222–232
Site 722, 117A10:274–275, 286, 293
Site 723, 117A11:337–340
Site 724, 117A12:407
Site 725, 117A13:430–431, 435
Site 726, 117A14:456–459
Site 727, 117A15:476, 483
Site 728, 117A16:509–510, 517
Site 731, 117A19:606–609, 614
Site 733, 118A4:73–74
Site 736, 119A5:148, 153
Site 738, 119A7:262, 264, 266
Site 739, 119A8:319, 325; 119B5:145, 148
Site 740, 119A9:365, 369
Site 742, 119A3:46; 11:428, 434
Site 743, 119A12:469–470; 119B8:146, 148
Site 744, 119A13:495
Site 745, 119A14:520–524
Site 746, 119A15:546–547
Site 747, 120A6:122–123
Site 748, 120A7:213
Site 749, 120A8:263
Site 750, 120A9:317
Site 751, 120A10:360; 120B(1)14:210
Site 765, 123A7:164–165; 11:218, 222; 123B23:456–
459, 33:603–604
Site 766, 123A5:307–309, 315, 334, 336; 123B1:460–
462
Site 778, 125A6:109
Site 779, 125A7:131
Site 780, 125A9:169–172
Site 781, 125A8:194
Site 782, 125A10:213, 230
Site 784, 125A12:293
Site 785, 125A13:311–312
Site 786, 125A14:333–334, 348
Site 794, 127A4:127–134; 127/128B(2)67:1050;
80:1280–1281; 128A3:102–105
Site 795, 127A5:222–230, 233; 127/128B(2)80:1280–
1281
Site 796, 127A6:290–295; 127/128B(2)80:1280–1281
Site 797, 127A7:383–390; 127/128B(2)80:1280–1281
Site 798, 127/128B(2)80:1280–1281; 128A4:180–181,
197–198, 202–205, 208–210
Site 799, 127/128B(2)72:1137–1140; 80:1280–1281;
128A5:325–326, 345–349, 354–356
Site 807, 130A9:458, 473–477, 486–493
Site 865, 143A6:148, 150, 154
Sites 672 and 1048 comparison, 171A_A7:103
Sites 1044 and 1048 comparison, 171A_A7:105
spectra, 117B12:245–247, 250–251
Sulu Sea, 124A8:110; 11:248, 250–252, 257, 268–273
summary, 178B17:5–7; 189A1:38–40
synthetic seismograms, 119A6:212; 130B3:37;
138A(1)9:181
Tiburon Rise N, 110A5:238–239; 110B18:285–286;
19:292, 294
time series, 117B12:243–245, 248
tomography, 158B16:203–204
Trujillo Basin, 112A16:555–556
unconformities, 150B16:296–298
variations, 113A5:101; 118B26:507
vertical seismic profiling, 203B1:6–7
vs. age, 108B23:405; 114B35:663; 36:682
vs. alteration, 139B38:608; 147B25:430; 209A1:126
vs. carbonates, 114A11:664; 114B36:674–675;
154A5:189
vs. compressional wave velocity, 136B8:102; 137/
140B24:280–281; 139B38:606–607; 147B25:427,
429, 431; 29:478, 488; 152B38:460; 153A4:176;
7:273; 153B25:447, 453; 163A5:66; 176B2:13;
5:29; 192B7:6–7, 17; 208A6:83
vs. core density, 150B22:406; 208A4:67; 6:83
vs. density logs, 202A9:73; 12:68

- vs. depth, 108B23:404; 110A6:340; 7:422; 8:499; 9:533; 113A5:102-105; 6:205-206; 7:304; 8:351-352; 9:466-467; 10:541-543; 11:625; 12:716; 113B3:30; 14:180; 114B37:687; 129B29:513-514; 136A5:78; 137/140B24:289; 138A(1)11:276-278, 315; (2)16:947; 141B18:248; 143A7:243; 144B39:651; 146A(1)4:108; 149B18:351; 152A6:69; 7:85; 8:104; 9:127, 143; 153A3:118; 6:257; 156B20:259; 23:299-301; 157A4:80-86; 5:128; 6:160; 7:367-373; 8:421-425; 9:463-467; 10:528-533; 157B28:486; 159A5:118; 163A5:66-67; 163B2:23; 5:43, 45, 48; 160A4:84; 9:319; 10:372; 11:401, 403; 12:441; 13:462; 14:489; 160B42:539-540; 161A4:94-103; 5:154-163; 6:262-268; 7:333; 8:388; 9:413; 165B10:183; 12:207-212; 167A(1)4:81; 5:113; 168B3:26-30; 169A3:125; 4:187, 190; 5:229; 6:291-294; 172A4:153; 174A_A3:78-79; 4:129; 5:179; 175A6:174; 176B5:9-10; 178A4:103; 5:94, 97; 9:72; 178B17:15, 17, 20; 180A9:160-161; 182A5:50; 10:58; 183A4:79; 5:98, 151, 153, 156-157, 161-162; 6:162-163; 7:162-173; 8:89-90; 185B8:11-12; 11:14; 186A4:153-154; 191A1:46-47; 4:109; 195A1:53; 4:136-143; 199A10:37; 199B12:11-12; 200A4:134, 137, 142-143; 200B1:33; 201A6:64-65; 204A3:68; 4:51; 7:27; 9:34; 204B8:17-21; 206A1:69; 3:155, 310-311, 392-394; 206B13:8-10; 207A4:63-65, 76; 5:72-74, 84; 6:74-76; 7:64, 79; 8:75; 207B2:28; 14:6-8, 11
- vs. diatom abundance, 172B(overview):4
- vs. foraminiferal assemblages, 150A6:95
- vs. gamma rays, 157A8:425; 9:466; 10:533
- vs. loss on ignition, 127/128B(2)80:1291
- vs. magnetic susceptibility, 117A8:166-169; 125A9:191; 125B33:567, 572; 147B24:411; 157A8:422-425; 9:466; 10:533
- vs. mass accumulation rates, 114B28:520-521
- vs. opal abundance, 127/128B(1)23:402
- vs. organic carbon 117B2:46; 12:241, 246-248
- vs. oxides + sulfides, 139B23:608
- vs. porosity, 101B28:449; 102B3:35; 114B35:660; 119B14:272, 275, 277, 280-281, 285; 124B7:93; 125B34:583-584; 36:606; 127/128B(1)1:25, 27; (2)63:986, 989; 80:1281, 1290; 130B36:610-611; 133A(1)14:598; 133B44:654; 137/140B24:281; 142B7:54; 147B25:425; 153A6:257; 7:273; 153B25:446
- vs. resistivity, 118B18:326-327
- vs. seismic profiles, 146A(1)4:109
- vs. serpentinized fraction, 153B25:447
- vs. shear strength, 112A18:729-730; 204B8:22
- vs. silica, 119A13:499
- vs. sonic velocity, 141B18:247; 208A4:67
- vs. temperature, 139B41:664
- vs. thermal conductivity, 117A15:485; 16:520; 19:614, 616
- vs. thermal data, 201A4:17
- vs. two-way traveltime, 178A7:70-71
- vs. velocity, 112A11:196; 115A32:612; 117A10:275, 287; 18:575; 19:609, 612, 615; 118B11:231-232, 238-239; 121B27:521; 34:684; 124B37:508-510; 140A2:136; 147A4:154; 195B1:4-5; 11:9; 204B8:22
- vs. water content, 110A5:240; 112A12:271; 127A5:233; 7:395; 192B7:29
- vs. water depth, 130B3:42
- well-logging, 117A11:360-361, 367-368; 125A14:335; 138A(2)14:798; 156A5:75-76; 171A_A3:31-32; 4:46-47; 5:63, 66; 6:86; 7:100
- well-logging vs. gamma ray attenuation data, 133B43:641-642; 138A(1)12:382; (2)14:798; 16:956
- well-logging vs. laboratory data, 114B38:713-715; 119A24:435; 121A6:149-150, 160; 138A(1)9:161; (2)16:956; 146A(1)4:96-98
- Yaquina Basin, 112A15:465, 469
- See also* bulk density logs; bulk density units; mass/volume moisture and density; porosity-density relationship; variable-density stack sections; variance density spectra
- density, bulk
- acoustic basement, 173A7:210-211
- altered volcanic rocks, 193A3:76-77
- anomalies, 143B28:419-429
- basalts, 137/140B31:348; 163A3:30; 5:65-68; 163B3:31-35
- breccia, 158B16:208
- caliper logs, 209A7:128
- carbonate content, 167B32:368; 177B6:3
- composite depths, 177A4:8-9; 178B5:7-8, 33
- computed tomography, 131B10:136-138
- Cretaceous/Tertiary boundary, 198A5:50
- cyclic processes, 172B(overview):4; 5:6-7
- depth intervals, 150A6:102
- discrete measurements vs. logs, 159A6:199-200; 171B_A5:239; 177A3:37; 4:51; 5:57; 6:48; 7:37; 8:54; 9:44; 209A3:163
- fault gouge, 180A11:11
- fluidized sediments, 155B28:467-469
- gabbros, 179A4:63-64
- gamma ray attenuation data, 170A3:84; 5:182; 6:210; 7:240
- gamma rays, 172B8:3
- grain size, 130B37:629-630
- green clay, 184B15:20-21
- igneous rocks, 147A1:12; 209A5:182
- in situ corrections, 130B36:607-622
- lithodensity logging tool, 135A(1)10:542-543; 138A(1)9:177
- lithology, 168A4:88-92; 5:148, 150; 6:186, 188; 183A1:31; 6:57; 7:50-51; 8:25; 9:38-39
- metamorphic rocks, 173A6:153
- millennial-scale variability, 172A4:134
- Neogene, 130B44:732
- paleoceanographic proxies, 184A1:13
- Pliocene-Quaternary interval, 160B19:228
- porosity, 178B30:4-7
- productivity, 130B44:726, 729
- profiles, 130A10:531; 171A_A3:32; 5:71

- protodécollement zone comparison, 171A_A4:51
sedimentation rates, 175B9:1-23
sediments, 105B43:820; 44:842; 130B35:590;
133A(1)4:108; 5:157, 160-164; 6:193-196;
7:219, 223-225; 8:269, 276-278; 9:318-319;
10:371; 11:433, 436; 12:469-470; 13:527;
14:587-588; 135B48:789; 136A5:71, 74;
150A6:101-102; 154A4:98-104; 157A5:126-
127; 7:359; 10:527; 159B41:561-562; 168B6:69-
71; 172A3:65-67; 4:129, 132; 5:231-232; 6:290-
291; 173A4:90-93; 6:153; 8:253; 9:292;
177A1:14; 177B6:19; 178A4:24-25; 5:22; 6:16;
7:18; 8:16; 9:16; 180A5:35-37; 6:62-63; 8:33;
9:47-48; 10:17-18; 12:41-42; 181A7:42; 8:35;
9:22; 184A4:23-24; 5:20-21; 6:15-16; 186A1,
14:11; 4:45-46, 50-51; 188A3:56-58; 4:34; 5:27;
188B9:13; 191A4:24-25, 37-38; 198A3:38-39;
210A1:21
seismic Horizon B, 204B25:17
Site 809, 132A3:70
Site 859, 141A6:122
Site 861, 141A8:276
Site 866, 143B31:528
Site 869, 143A9:344-346
Sites 676 and 1046 comparison, 171A_A6:89
Sites 867-868, 143A8:292
split cores, 178A9:17
stresses, 131B23:288-289
sulfide structure, 204A6:54-55
time-depth conversion, 210A3:108-110
vs. acoustic velocity, 131A6:212; 143A6:163
vs. age, 172B5:19
vs. alteration percentage, 137/140B8:102
vs. attenuation, 131B7:88
vs. bulk density logs, 184A4:76
vs. carbonate content, 154A4:120; 154B9:159, 162-
164; 167A(1)6:152; 177B6:11
vs. clay content, 168B6:70, 74-84; 190/196B8:19
vs. compressional wave velocity, 143B18:296;
148A3:171; 153A5:214; 158B23:322;
160B42:538, 541; 171B_A3:89; 4:156, 161, 163;
6:306; 7:345; 183A3:37; 5:166; 195A3:122;
197A5:88; 6:92; 200A4:139, 144-145; 208A3:36;
4:39; 5:33; 6:45; 7:37; 8:38; 9:95; 10:133
vs. computed tomography data, 146B(1)11:197-198
vs. depth, 130A7:258; 130B38:650; 131A6:200;
131B32:401, 410-411; 133A(1)9:327; 10:386;
11:439; 12:486-489; 13:538-539; 14:592-595;
15:660; 16:691; 133B42:625-628; 43:635, 640;
44:652-653; 134A7:126-127; 8:170, 172; 9:231-
234; 10:298-299; 11:355; 12:444-445; 13:521,
526; 134B29:514, 516, 520-526; 135A(1)5:235-
236; 6:285-286; 7:327, 330; 8:373; 9:451;
10:543-546, 552-553; 11:660, 664; 136A4:59;
5:76; 137A2:31; 137/140B24:279; 141A6:124;
7:221-222; 8:283; 9:337; 10:409, 413;
143A6:155-162; 7:237-238; 8:280-290; 9:349-
352; 143B18:290-291; 144A3:81, 83, 90; 4:140-
142; 5:189-190; 6:243; 7:281; 8:311; 10:376;
11:434; 12:448; 144B38:646; 146A(1)4:87, 90;
5:191; 6:274; 7:347, 350; 146B(1)7:139-140;
11:192-196; (2)11:148; 147A3:98; 4:153;
148A2:35, 74; 3:170, 172; 149A6:201;
151A5:101, 105; 6:138, 147; 7:200, 206; 8:257,
259; 9:299-303; 10:343; 13:409; 151B34:599,
603-604, 613; 152A9:128; 154A4:62-66, 118,
120, 123, 133; 5:158-160, 188, 195, 203, 216;
6:236-237, 259, 261, 267; 7:309, 327; 8:342-
345, 391, 396, 400; 154B8:155, 158; 155A6:115;
157A4:85-86, 89; 5:133; 6:164, 168-169; 7:373;
8:427; 9:467, 475; 10:536; 158A7:135, 138;
8:166; 10:206; 11:220; 159A5:112, 114, 117,
119; 6:198, 200; 7:248; 8:286, 288; 156A7:244;
156B11:154-158; 15:205; 17:231; 22:286;
159B21:211; 22:234-235, 239; 41:563;
160A5:122; 6:140, 144-145; 7:197-202; 8:261-
266; 9:319, 325-326; 10:373; 12:443; 13:463;
14:490; 161A4:100; 5:161; 6:265; 7:334; 9:388,
414; 162A4:124-125; 6:199, 203; 8:282;
166A6:96-97; 7:165; 8:193; 9:256; 10:318-319;
11:366-367; 167A(1)4:82; 5:114; 6:152, 154;
7:173; 8:207; 10:268; 11:307; 12:341; 13:375;
14:417; 15:457; 16:482; 168A6:190-194;
170A3:48; 4:98; 5:154; 6:190; 7:217;
171A_A6:78-79; 171A_B3:21-22; 171B_A3:88-
89; 4:152; 5:225; 6:301; 7:343; 172A3:66-67;
5:229-231; 6:289-291; 172B5:10, 16; 8:18, 20;
173A4:93; 6:152; 7:207, 210; 8:254; 9:291;
175A3:84; 176A1:69; 3:228, 301; 177A1:51;
3:26, 36; 4:40-41, 50; 5:40, 43, 55-56; 6:36-37,
46-47; 7:26, 29, 36-39; 8:44, 53, 56; 9:35-36,
43; 177B6:11; 178A4:84; 5:72-74; 6:52, 54;
7:54-57; 7:55, 58; 8:50-53; 9:58-62; 178B3:12;
5:20-23; 180A5:89; 6:169, 222; 7:59-60; 8:91-
92; 9:121; 10:58; 12:125; 180B5:14-15, 18-19;
22:9; 181A3:61; 5:50; 6:81; 7:102; 182A4:69-72;
5:51; 6:72-76; 7:56-57; 8:56-57; 9:47, 49; 10:60;
11:32, 34; 12:47-50; 183A3:36, 40-41; 4:75-78;
5:149-150, 153-154, 159, 161; 6:155-161;
7:165-171; 8:82-87, 93; 9:113-117; 184A1:55-
65; 5:58; 6:39; 7:59; 9:72; 186A4:92, 130, 138-
142; 5:75, 81-82; 188A3:139-142, 145-149,
164; 188A4:82; 5:68, 72, 74; 188B9:8; 190A4:73;
5:75, 78; 6:50; 7:42; 8:49; 9:55; 190/196B15:14;
191A4:111; 192A3:137; 4:104; 5:22-23, 101-
102; 6:23-24, 85; 7:49, 51; 192B7:13-16;
194A3:50-51; 4:83; 5:68; 6:52-53; 7:91, 99;
8:56; 9:47; 195A3:120, 124-126; 4:145; 5:31-32;
196A3:74; 197A1:33-34; 3:126-127; 4:99-100;
5:85; 6:89; 198A3:62-63, 67, 69, 80, 106; 4:43;
5:47, 79; 6:42-43; 7:63; 8:62; 9:42; 199B24:15;
200A3:131; 4:133; 201A7:68; 8:47-49; 11:69-70,
73; 202A3:27; 4:37; 5:32-33; 6:35; 7:40;
205A4:130-131; 5:70-73; 6:37; 205B9:22;
207A4:60-61; 5:69-70; 6:72; 7:65-68; 8:63;
208A3:35; 4:38, 44-47; 5:32; 6:44-45; 7:36-37;
8:37-38; 209A10:125-126; 210A1:74; 3:283-
286; 4:31; 210B7:14; 14:22
vs. dry density, 202A3:28
vs. dry water content, 133A(1)15:661

- vs. gamma ray attenuation density, 151A5:101; 151B34:603–605; 176A3:223; 178B30:14; 200A3:132; 202A10:44
- vs. grain density, 208A3:36; 4:39; 5:33; 6:45; 7:37; 8:38
- vs. lithology, 129B29:515
- vs. mean grain size, 168B6:70–71, 74–84
- vs. mean magnetic susceptibility, 209A10:30–31, 134
- vs. mean thermal conductivity, 209A10:132
- vs. porosity, 133A(1)10:388; 137/140B8:102; 140A2:126, 128; 147A3:98; 4:153; 148A3:171; 154B9:160–162; 158A7:135; 8:166; 10:206; 11:221; 160B42:541; 178B30:14; 183A5:166; 206A3:315; 206B13:7; 208A3:36; 4:39; 5:33; 6:45; 7:37; 8:38
- vs. seismic data, 204A4:78
- vs. shear wave velocity, 137A2:33; 176B5:29; 183A5:166
- vs. sonic velocity, 143A7:239–240
- vs. thermal conductivity, 147A3:101; 4:157; 177A3:41; 4:55; 5:61; 6:51; 7:41; 8:58; 9:45; 209A7:105; 9:94
- vs. traveltime, 159B22:229, 236, 240; 194A3:59, 89; 4:91
- vs. unconfined compressive strength, 148B32:404
- vs. uncorrected compressional wave velocity, 171B_A5:228
- vs. velocity, 144B39:651, 654; 147A3:100; 4:156; 153A3:118; 173A6:154–155; 7:209, 211; 8:257; 200A3:134; 206A3:314
- vs. water content, 202A3:28
- well-logging, 130A9:452–455
- See also* bulk density logs; density, dry bulk; density, in situ bulk; density, index bulk; density, wet bulk
- density, bulk Boyce-corrected, 159A6:196; 8:286
- density, discrete bulk
 - vs. discrete compressional wave velocity, 198A4:73; 5:74; 7:61; 8:60
 - vs. gamma ray attenuation bulk density, 171B_A5:226
- density, discrete core, vs. depth, 167A(1)10:273
- density, dry bulk
 - depth to datums, 131A6:252
 - calcium carbonate percentage, 138B35:723
 - lithology, 199A8:52; 9:40; 10:56
 - piston cores, 138B45:885
 - sediments, 138B19:440–450; 27:607–609; 177B6:20–22; 188A4:34; 5:27; 189A4:64
 - vs. age, 138B28:618; 144B42:702–704, 708–711, 714–222; 146B(2)8:111; 11:164, 166; 167B18:230
 - vs. bulk density, 202A3:28
 - vs. carbonate, 138A(1)9:165; 138B45:886; 154B25:380; 177B6:12–13
 - vs. depth, 138B27:610; 145A3:74; 4:117; 5:177–179; 6:251, 265; 7:311; 8:365, 370, 375; 145B35:528–534; 146A(1)4:89; 5:191; 7:349; (2)2:45; 146B(2)11:148; 151A5:96; 6:143; 8:256; 10:339; 154B8:155; 12:197; 23:354; 25:380; 157A4:85–86; 159A5:114; 6:198; 7:248; 8:288; 167A(1)4:82; 5:114; 6:152; 7:173; 8:207; 10:268; 11:307; 12:341; 13:375; 14:417; 15:457; 16:482; 171B_A3:88; 4:152, 161; 5:225; 6:301; 7:343; 177B6:12; 181A3:59; 4:42; 5:48; 6:77–78; 7:99; 8:78; 184A5:62; 6:42; 7:61; 8:27; 9:73; 186A4:138–139; 5:81–82; 188A3:147; 4:82, 87; 5:72; 198A3:106; 4:76; 5:79; 6:67; 7:63; 8:62; 200A3:131; 4:133; 198B19:5; 199A8:38
- vs. grain density, 137A2:30
- vs. gamma ray attenuation density, 138B19:441; 27:606
- vs. hardness, 137/140B31:349
- vs. interpolated gamma ray attenuation density, 199A9:29; 10:42; 11:68; 12:74; 13:59; 14:44; 15:33
- vs. uniaxial compressive strength, 137/140B31:350
- vs. water content, 177B6:12
- vs. wet bulk density, 137A2:30; 188B9:6
- density, fracture
 - scanning electron microscopy, 137/140B19:223–226
 - vs. depth, 140A2:118
- density, gamma ray attenuation
 - across seismic Horizon A, 204A4:79; 7:51
 - age models, 138B13:294
 - Atlantic Ocean E tropical, 108A(1)2:55; 16:1015–1016
 - Baffin Bay, 105B39:775–779
 - basalts, 185A3:36
 - Broken Ridge, 121A2:57
 - Cagayan Ridge, 124A12:331; 124B24:334–335
 - carbonate proxy, 138B14:323–324
 - Celebes Sea, 124A10:161
 - composite section, 138B3:43–44; 181A4:17; 175A6:160–161; 7:187–188; 8:211; 9:254–255; 10:292, 294; 11:323–324; 12:364, 366; 15:471–472; 202A3:4–5
 - conversion to carbonate, 138B42:822–823
 - core-core integration, 171B_A3:71–73; 4:134, 136–139
 - core-log comparison, 202A1:83
 - cores, 149A5:137; 6:193; 7:251
 - corrected values, 147A4:154; 150B29:464
 - correlation, 172A3:47–48; 4:102–104; 5:188–189, 194–201; 6:266–268; 184A4:38–40; 5:33–35; 6:23–24; 7:35–38; 8:13; 9:41–45
 - Cretaceous, 207A1:76
 - cross-spectra and log variance, 138B4:52
 - crystalline rocks, 153A3:114–115
 - cyclic variations, 202A1:94; 202B4:23
 - degassing, 204A8:68
 - Eocene–Oligocene interval, 208A1:102–103
 - errors in inverse correlation, 138B3:39–42
 - evaluation diagram, 147A3:98; 4:154
 - evolutionary spectra, 138A(1)12:387
 - frequency distribution, 151B34:600, 606–607
 - Fugro pressure corer, 204A8:70
 - gabbros, 153A6:256
 - gamma ray logs, 150B29:461–468
 - glacial–interglacial fluctuations, 117A8:170–171
 - HYACE rotary corer, 204A8:69
 - HYACINTH pressure corer, 204B1:35–36
 - igneous rocks, 176A3:77
 - Indus Fan, 117A8:177
 - insolation, 202B4:26

- Juan de Fuca Ridge, 139A7:353
 Kerguelen-Heard Plateau N, 119A2:37; 4:202; 5:145
 Kerguelen sediment ridge, 119A2:37; 28:520, 522–524
 laminated diatom ooze, 138B30:644
 lithology, 183A3:16; 4:27; 6:57; 7:51; 8:26; 9:39;
 185A4:39; 197A3:37–38; 4:31, 120; 5:26, 107;
 6:22, 112; 200A3:43
 Little Bahama Bank, 101A7:236
 logging-while-drilling, 204A1:61
 magnetic susceptibility, 117A8:172
 middle/upper Eocene boundary, 199A1:61
 multisensor track, 151A5:86–88; 182A6:30–32, 105;
 7:24–25, 78; 8:26, 90; 9:22, 74; 10:27, 79; 11:15,
 45; 12:72; 183A5:34
 Ninetyeast Ridge, 121A2:57; 11:347; 12:402, 430–431
 Northeast Providence Channel, 101A13:535–536
 Oman margin, 117A2:25–26
 Owen Ridge, 117A2:25–26
 pelagic caps, 121A13:495, 499
 porosity, 178B30:4–7
 Prydz Bay, 119A2:37; 16:319; 18:365, 369
 sedimentation rates, 138A(1)6:87–91; 167A(1)8:187,
 190–191
 sediments, 138B4:47–57; 6:79–82; 15:344–345;
 19:442–450; 139B37:586; 145B21:319, 321;
 150A6:101–102; 8:236–239; 10:334–336;
 154A5:193; 160A4:71–72; 6:118, 138; 7:191;
 8:254; 9:314; 10:371; 11:397; 12:442, 444;
 13:460; 14:487; 161A6:220, 223; 165A3:87;
 4:185, 167A(1)4:72; 7:165; 9:229–230; 10:256–
 259; 11:293–294; 12:325, 328; 13:366–367;
 14:400, 405; 15:442, 447; 16:473; 171B_A3:78–
 79; 4:145–146, 152; 5:187, 210; 6:266, 287;
 7:332–335; 8:372, 381; 166A6:96–97; 7:164;
 8:192, 194; 9:255–256; 10:317–319; 11:365,
 367; 172A3:63–65; 178A4:24–25; 5:22; 6:16;
 7:18; 8:16; 178A9:16; 180A6:62; 7:23; 9:47–48;
 181A3:25–26; 9:22; 182A4:33–35, 102; 5:22–23,
 82; 12:21–22; 198A4:29–30; 5:30–31; 6:27; 7:25–
 26, 44, 58; 8:24, 41, 56; 9:31, 83; 10:14
 Site 721, 117A9:224–225, 233–234
 Site 722, 117A10:275–276, 288
 Site 723, 117A11:339, 343
 Site 724, 117A12:401, 408; 117B17:295–297
 Site 725, 117A13:431, 436
 Site 726, 117A14:457–460
 Site 727, 117A15:476, 484
 Site 728, 117A16:511, 519
 Site 730, 117A18:571, 576
 Site 731, 117A19:614, 616
 Site 738, 119A2:37; 7:262–267
 Site 744, 119A2:37; 13:495
 Site 747, 120A6:128
 Site 749, 120A8:265
 Site 751, 120A10:365–366
 Site 765, 123A4:169
 Site 766, 123A5:311, 313
 Site 779, 125A7:143
 Site 781, 125A9:191, 194
 Site 782, 125A10:213, 229–230
 Site 783, 125A11:266, 269
 Site 784, 125A12:293
 Site 786, 125A14:333–334, 346
 Site 883, 145A5:155
 Site 884, 145A6:244–245
 Site 887, 145A8:359
 Sites 885–886, 145A7:316
 Sites 1218–1219 correlation, 199B2:26, 28
 spliced records, 162B18:251, 254; 202A3:21; 4:5, 27;
 5:26; 6:27; 7:4, 37; 9:41; 10:41; 11:34; 12:37–44,
 47; 13:33
 stacked records, 138B3:40–41
 Straits of Florida, 101A5:72
 Sulu Sea, 124A10:252
 tie points, 138B3:36
 time-depth conversion, 210A3:108
 time series, 138A(1)4:76; 12:386
 time slice studies, 138B20:464, 466, 470–473
 vs. age, 138A(1)11:324; (2)13:731; 14:801; 138B1:17–
 18; 6:82–94; 144B42:718; 145B19:288–291;
 154B7:145–146; 167A(1)4:78; 5:109; 6:147;
 7:169; 10:263; 12:338; 13:369; 14:413; 15:455;
 167B32:370; 202B4:24
 vs. bulk density, 151B34:603–605; 176A3:223;
 178B30:14; 202A9:44; 10:44, 64
 vs. calcite, 138B19:451
 vs. color reflectance, 138B18:421, 424, 427
 vs. composite depth, 138B3:32–39; 6:80–81;
 151B34:612–613; 178A7:62–65, 68
 vs. density logs, 138A(1)6:91
 vs. depth, 112A11:192; 12:270, 274; 13:325; 14:393;
 15:470; 16:567–568; 17:634, 638; 19:831–832;
 20:924; 112B41:625; 132A4:92, 107–109; 132B6:69–79;
 130B37:625; 132A4:92, 107–109; 132B6:69–79;
 133A(1)4:118; 8:275; 10:383; 15:650; 17:793;
 133B43:634–638; 134A13:526; 135A(1)8:376,
 379; 9:454–455; 11:663; 138A(1)10:253;
 138A(1)12:342–343; (2)13:686, 688, 725, 732;
 14:750–752, 756; 15:818–820; 16:904–906;
 17:976; 18:1031; 19:1070; 138B2:26; 38:789;
 139A7:403; 8:552; 143A9:349; 144A4:142;
 5:192; 144B54:956, 958, 962; 145A3:74; 4:117;
 5:182; 6:274; 8:370–371, 375; 145B35:537;
 146A(2)2:38; 146B(2)11:154–158; 147A4:154;
 149A4:106; 5:137; 6:193; 7:250; 150B7:115–120;
 151A5:88–90; 6:101, 136; 7:195–196; 8:247–
 248, 257; 9:293–294; 10:330, 337; 11:372, 379–
 381, 384; 151B28:477, 481–482; 34:617, 620,
 624; 152A11:240–241; 12:273; 154B7:141–142;
 162A3:60, 63, 82–83; 4:100–104, 120–121;
 5:147–151, 164; 6:179–183, 198–199; 7:232–
 237; 8:262, 264; 9:297, 299, 322; 10:354, 356;
 162B9:136–138, 142; 166A6:98; 9:257;
 167A(1)4:74, 81, 83; 5:107, 113; 6:145, 151;
 7:167, 172; 8:206; 9:231, 235; 10:260, 267–268,
 273; 11:301, 306–307; 12:336, 341; 13:367, 374–
 375; 14:411, 417; 15:452, 457; 16:477, 482;
 168A5:154; 171B_A3:84, 89; 4:148, 153, 158,
 162; 5:218, 226; 6:282, 297, 303; 7:342, 344;
 172A3:50–51, 64–65; 4:107–111, 138–140;
 5:193, 195–199; 6:271, 274–275; 175A3:76, 83–
 84; 4:104, 111; 5:136–137; 6:166–169; 7:188–

- 189,0 193–194; 8:213–216; 9:244, 256–257, 261; 11:326, 328; 12:378; 13:422; 14:453; 15:473–474; 176A3:227, 301; 177A3:39; 178A4:81–84, 97–98; 5:72–74, 88, 91; 6:51; 7:54–56; 8:50–53; 9:58–59; 178B30:11–12; 182A4:58–59; 6:61–63; 7:59; 8:63; 11:27–28; 12:40–42; 180A5:90; 6:177; 8:91; 181A3:60; 4:36–39, 43–44; 5:49; 6:68–71, 79–80; 7:100–101; 8:68–73; 9:50; 183A3:39–41; 4:76, 78; 5:153–154, 161; 6:159–161; 7:169–171; 8:86–87; 188A3:149; 5:74; 202A1:118, 121, 124–134, 137–141; 4:29; 5:28, 32; 6:29, 36; 7:39, 44; 8:44; 9:45, 49, 51; 10:45; 11:37, 39; 13:36; 189A1:85; 3:45, 60–65, 86, 98; 4:22–23, 43; 5:51, 63–67, 86, 96; 6:54, 68–74, 99, 110; 7:56–59, 68, 79, 88; 192A3:36–37, 138; 4:25, 106; 5:23, 103–104; 6:24–25, 86; 7:12, 50; 194A3:50, 57; 4:83; 197A3:125–126; 4:95–96, 99; 198A3:98; 4:69; 5:55, 69; 6:48, 62; 199A1:76; 8:31, 33; 9:23–24; 10:33–35; 11:56, 59, 62; 12:61, 64–66, 73; 13:45–50, 57; 14:34, 36, 43; 15:25–28, 34; 199B2:5, 13–25, 33–34; 13:21; 200A1:57; 3:129; 4:132, 136, 140–141; 200B1:41; 7:11; 201A6:63; 7:66–67; 8:47–48; 9:47–48; 10:51, 53; 12:44; 202A3:30; 9:56; 204A3:77–81, 88; 4:77; 5:41–44; 6:52–53; 7:51–52; 8:59, 68–70; 9:56–57; 10:44, 70; 11:44–45; 206A3:121–122, 155; 207A5:69; 6:58, 73; 7:56, 67; 8:54, 65; 208A3:32; 4:35; 5:29; 6:41; 7:33; 8:34; 11:39
- vs. lithology, 138A(2)15:813–814
- vs. log density, 138A(1)5:84; 199B12:13; 13:22
- vs. magnetic susceptibility, 138A(1)4:75; 151B34:608, 614; 168A4:95; 178B30:15
- vs. measured carbonate percent, 138B14:324
- vs. moisture and density bulk density, 138B19:441; 27:606; 149A4:101; 150B29:465; 151A5:101; 168A4:95; 181B_A5:226; 184A4:62; 5:61; 199A9:29; 10:42; 11:68; 12:74; 13:59; 14:44; 15:33; 202A10:49; 12:49; 13:44; 208A3:36; 4:39; 5:33; 6:45; 7:37; 8:38
- vs. opal, 138B19:451
- vs. oxygen isotopes, 138B15:351–352
- vs. sediment age, 138A(1)10:256
- vs. seismic data, 208B6:4
- vs. summer insolation, 138B6:95
- vs. textures, 151B34:618
- vs. undrained shear strength, 189A3:107; 5:49–50, 103
- vs. velocity, 200A4:135
- density, gamma ray attenuation/moisture and density bulk ratio, 202A9:51; 10:49; 11:39; 12:49; 13:44
- density, grain
- accretionary prisms, 131A1:13
- across seismic Horizon A, 204A4:79; 7:51
- alkali basalts, 129B27:488
- altered volcanic rocks, 193A3:76–77; 4:257
- Atlantic Ocean E tropical, 108A(1)2:47–48, 54; 3:127, 133; 4:249; 5:344, 353; 6:429; 7:505; 8:570; 9:641–642; 17:1051–1052; 108B23:400–402
- Barbados Ridge, 110A4:105–109; 6:339; 7:420–423; 8:498; 9:528, 532
- basalts, 148B28:367–368; 163A4:44; 163B3:31–35
- Bengal Fan, 116A4:71, 75–80; 5:116, 124; 6:172–176; 116B26:334–335
- biogenic opal, 108A(1)17:1047–1050, 1053
- breccia, 158B16:208
- Cagayan Ridge, 124A12:332–335; 14:409–410
- cation exchange capacity, 156B10:139
- Celebes Sea, 124A13:358–359, 361
- computed tomography data, 131B7:89
- distribution, 195A3:128
- estimation from smear slides, 139B33:556
- fault gouge, 180A11:11
- gravimetric determination, 132A4:96–99
- Labrador Sea, 105B43:820, 823
- Lingayen Gulf, 124E_A13:79–80, 86
- lithology, 168A4:88–92; 5:148, 150; 6:186, 188; 183A1:20; 2:26; 3:25; 4:38–39; 6:57; 7:50
- low density, 171A_B3:6
- Mariana Basin E, 124E_A18:130
- metamorphic rocks, 173A6:153
- rhyodacites, 193A6:43
- rocks, 193A3:299
- sediments, 133A(1)5:160; 135B48:789; 154B9:161; 169A3:127; 172A3:65–67; 5:231–232; 6:290–291; 173A4:90–93; 180A5:35–37; 6:63; 7:23; 8:33–34; 9:48; 10:18; 12:42; 184A4:23–24; 5:20–21; 6:15–16; 186A1:14; 188A3:56–58; 4:33; 5:26–27
- serpentinized peridotites, 149A4:83
- Sierra Leone Rise, 108A(2)10:758; 11:805; 12:847, 854–855; 13:938
- Site 672, 110A5:238–239
- Site 698, 114A5:112
- Site 702, 114A9:504
- Site 704, 114A11:672
- Site 747, 120A6:122–123
- Site 749, 120A8:263
- Site 750, 120A9:317
- Site 751, 120A10:360
- Site 809, 132A3:70
- Site 859, 141A6:121
- Site 861, 141A8:276
- Sites 846–853, 138B14:325
- split cores, 178A8:17–18
- Sulu Sea, 124A11:248–251, 257
- synthetic porosity profile, 171A_A3:34
- vs. age, 114B35:663; 36:682
- vs. bulk density, 208A3:36; 4:39, 41; 5:33, 35; 6:45, 53; 7:37; 8:38
- vs. carbonate, 114B35:662, 665, 672–673; 120B(1)13:184; 202A9:51; 10:49; 11:39; 12:49; 13:44
- vs. compressional wave velocity, 135A(1)9:459; 163B3:32
- vs. depth, 110A6:340; 7:422; 8:499; 9:533; 114B36:675; 37:687; 129A2:62; 130A8:328, 440; 131A6:200; 132A3:72; 4:100; 133A(1)13:538; 135A(1)4:158–160; 5:235; 6:285; 7:327; 8:373; 9:451; 10:546; 11:660, 664; 137A2:31; 138A(1)9:170; 10:241; 11:311; 12:370; 138A(2)13:722; 14:787; 15:868; 16:945;

- 17:1009; 18:1055; 19:1091; 139A5:149–151,
154–156; 6:268–271; 8:536–540, 545;
141A6:124; 7:221–222; 8:283; 9:337; 10:409;
143A6:155–160; 7:230, 237; 8:289–290; 9:349;
144A3:81, 83; 4:141–142; 5:189–190; 6:243;
7:281; 8:311; 10:376; 11:434; 12:448; 145A3:74;
4:117; 5:182; 6:273; 7:311; 8:365, 370, 375;
145B35:528–534; 146A(1)4:89; 5:191; 6:274;
7:349; 146A(2)2:45; 148A2:35; 149A4:106;
5:137; 6:193; 7:250; 149B19:360; 150A6:104–
106; 7:174–177; 8:237; 9:292; 10:335;
151A6:138, 147; 7:200; 8:255; 10:343; 11:382;
155A6:115; 7:153; 14:430; 16:485; 19:586;
20:618; 21:653; 22:679; 155B26:439;
156A6:151; 7:244; 156B10:142; 157A4:84–86;
5:133; 6:164; 7:373; 8:428; 9:467; 10:536;
158A7:135, 138; 8:166; 10:206; 11:220;
164A5:94–95; 6:134; 7:205; 8:274; 9:304;
159A5:114; 161A4:100; 5:161; 6:265; 7:334;
8:388; 9:414; 162A8:282; 9:322; 10:376;
167A(1)4:82; 5:114; 6:152; 7:173; 8:207; 10:268;
11:307; 12:341–342; 13:375; 14:417; 15:457;
16:482; 169A3:128; 4:188; 5:228; 6:29–294;
168A6:190–194; 169B7:10–13; 170A3:47; 4:97;
5:154; 6:190; 7:216; 171B_A3:88; 4:152, 161;
5:225; 6:301; 7:343; 172A3:66–67; 4:141–143;
5:233–235; 6:293–294; 177A3:38; 4:85; 5:75;
6:52; 7:57–58; 8:53; 9:61–62; 180A5:89; 6:169,
181; 7:59–60; 8:92, 98; 9:122; 12:126;
180B5:16–17; 181A3:59; 4:42; 5:48; 6:77–78;
7:99; 183A3:36; 4:75, 77; 5:149–150; 6:155–156;
7:165–166; 8:82–83; 9:113–115; 184A4:60; 5:62;
6:42; 7:61; 8:27; 9:73; 186A4:138, 140; 5:81–82;
188A3:146; 4:81; 5:71; 190A4:73; 5:75; 6:50;
7:42; 8:49; 9:55; 192A3:137; 4:104; 5:22–23,
101–102; 6:23–24, 85; 7:11–12, 49; 192B7:13–
16; 193A3:232; 4:204; 194A3:51; 4:83; 5:68;
6:53–54; 7:91–92, 99; 8:56; 9:47; 195A4:145;
196A4:55; 197A3:126–127; 4:99–100; 5:85; 6:89;
198A3:106; 4:76; 5:79; 6:67; 7:63; 8:62;
199A8:37; 9:28; 10:41; 11:67; 12:72; 13:57;
14:42; 15:32; 200A3:131; 4:133, 142–143;
201A1:75; 6:65; 7:68; 8:49; 9:49; 10:51, 53;
11:70; 12:44; 202A3:27; 4:37; 5:33; 6:35; 7:40;
9:51; 10:49; 11:39; 12:49; 13:44; 204A3:77; 4:77;
5:41; 6:52; 7:51–52; 8:59; 9:56; 10:70; 11:44;
205A4:132; 5:72; 6:38; 207A4:60; 5:70; 6:72;
7:22, 65; 8:63; 208A3:35; 4:38; 5:32; 6:44; 7:36,
39; 8:37, 39; 210A3:285–286; 4:31; 210B7:14
- vs. dry bulk density, 137A2:30
vs. formation factor, 169B8:6–7, 28
vs. gamma rays, 186B15:22
vs. grain moduli, 163B3:34
vs. lithology, 129B29:515
vs. magnetic susceptibility, 137A2:34; 192B7:19;
209A10:134
vs. permeability, 169B8:3–4, 23
vs. porosity, 114B35:664–665; 163B3:34; 203A1:26;
3:65
vs. sonic velocity, 203A1:26; 3:65
- vs. thermal conductivity, 114B35:664, 666; 169B8:8–
9, 31; 192B7:20
vs. unconfined compressive strength, 148B32:404
vs. velocity, 124B37:508
vs. water content, 110A5:240
vs. wet bulk density, 203A1:26; 3:65
density, gravimetric, 149A4:106; 5:137; 6:193; 7:250
density, Hostile Environment Litho-Density (HLDT)
vs. depth, 151A5:90
vs. gamma ray attenuation bulk density, 199B13:22
density, in situ bulk
seismic Horizon A, 204B1:31
vs. in situ velocity, 188B10:18
density, instantaneous potential (IP), vs. depth,
165A3:87; 4:185; 5:266; 6:332
density, low, protodécollement zone, 171A_B3:5–6
density, logging-while-drilling
across seismic Horizon A, 204A4:79; 7:51
vs. depth, 204A3:77–78; 5:23, 41–44; 6:31, 52, 64;
7:51–52; 8:59–60; 9:56–58; 10:70–71
density, matrix
sediments, 157A7:371
vs. depth, 157A7:380
vs. porosity, 206B13:7
density, mean-detrended bulk, 201A10:56; 12:48
density, merged, vs. depth, 138A(1)10:255; 11:323;
12:384; (2)14:800; 15:879; 16:958; 17:1018;
18:1060; 138B24:545–549
density, moisture and density bulk
across seismic Horizon A, 204A4:79; 7:51
chloride, 204A8:84
method C, 160A4:84
upper oceanic crust, 206B13:1–11
vs. depth, 160A6:140; 7:198; 8:262; 188A5:74;
201A12:44; 204A3:77–79; 4:77; 6:52; 7:51–52;
8:59–60; 9:56, 58; 10:70; 11:44–45
vs. logging density, 188B10:18
vs. gamma ray attenuation bulk density, 168A4:95;
184A4:62; 5:61; 8:26; 202A10:49; 11:39; 12:49;
202A13:44; 208A3:36; 4:39; 5:33; 6:45; 7:37;
8:38
vs. porosity, 202A9:51; 10:49; 11:39; 12:49; 13:44
vs. thermal conductivity, 184A4:69
density, normalized bulk, vs. depth, 204A10:74
density, pore water, vs. depth, 186A4:138
density, power spectral, logging velocity, 130B3:45
density, rebound, 199B13:23–24
density, sediment, 204A4:81; 5:12, 46; 6:15–16; 7:16–17
density, smoothed, vs. depth, 138A(2)15:828, 830–831
density, solids-grain, vs. depth, 159A6:198; 7:248; 8:288
density, spliced bulk, vs. depth, 169S_A2:38, 45
density, subgrain boundary, vs. finite strain, 153B2:25
density, synthetic, composite records, 175B9:20
density, time-after-bit, 204A4:88; 5:50; 6:60; 7:57; 8:71;
9:67; 10:81
density, wet bulk
basalts, 148B28:367–368
cores, 150B22:388
cycles, 150B20:366–367
Exuma Sound, 101A9:353, 358–360; 10:405, 409–411;
11:450–451, 458–461

- lithology, 155A15:457
 Little Bahama Bank, 101A6:137–139, 146–150; 7:227, 232–235; 8:282
 Northeast Providence Channel, 101A13:535–536, 541–542
 paleobathymetry, 138B42:827–830
 sediments, 133A(1)5:162; 189A4:64
 Site 806, 130A8:339
 Sites 949 and 1046 comparison, 171A_A5:72
 Sites 1044 and 1046 comparison, 171A_A5:73
 vs. average velocity, 185A4:134
 vs. carbonate content, 199B13:19
 vs. composite depth, 145B36:549
 vs. compressional wave velocity, 129A2:64; 3:131; 4:213; 148B28:371; 199A11:71; 12:77; 13:62; 199B13:18; 209A3:147; 5:163; 6:112; 7:106
 vs. computed tomograph value, 155B28:471
 vs. corrected gamma ray attenuation density, 199B13:14
 vs. depth, 129A2:62; 130A8:327; 9:441–442, 459; 130B39:655–656; 133A(1)8:276; 9:325; 15:661; 16:725, 730; 135A(1)4:158; 138A(1)9:168; 10:240; 11:309, 316; 12:367; (2)13:722; 14:787; 15:867, 870–871; 16:944, 948; 17:1006; 18:1055, 1058; 19:1089; 138B42:823; 145A3:73; 4:117; 5:177–179; 6:251, 265; 7:329–330; 8:370–371; 145B35:528–534; 150A6:104–106; 7:174–177; 8:237; 9:292; 10:335; 150B29:466–468; 151A5:92, 94; 7:207; 8:249–250, 255; 11:375–377; 11:382; 155A6:115, 153; 8:195; 9:222; 10:264; 11:300; 12:358; 13:405; 14:430; 15:459; 16:485; 17:532; 18:561; 19:586; 20:618; 21:653; 22:679; 158A7:136, 138, 165; 8:172; 9:222; 160A4:83; 162A7:250–251; 9:322; 10:376; 164A5:94–95; 6:134; 7:205; 8:274; 9:304; 165A3:90; 4:142–143, 149, 189; 5:269; 6:335; 169A5:228; 6:291–294; 169B7:10–13; 171A_A4:50; 5:72; 172A4:141–143; 5:233–234; 6:293–294; 175A3:86; 4:113; 5:140; 6:176; 7:195, 199; 8:218, 221; 9:266, 270; 10:308, 310; 11:335, 337; 12:378, 383; 13:422, 426; 14:453, 455; 15:481, 483; 181A3:59; 4:42; 5:48, 52; 6:77–78; 7:99; 8:78; 185A4:132–136, 181; 189A3:47, 98, 104; 4:22–23, 43, 48; 5:96, 101; 6:116; 7:88, 92; 198A1:101–102, 106, 110, 116, 120, 125; 3:55; 4:36, 76; 5:38; 6:33–34, 67; 7:33; 199A8:37–38; 9:28; 10:41; 11:67; 12:72; 13:57; 14:42; 15:32; 199B13:13; 209A3:142; 7:101; 9:90
 vs. discrete compressional wave velocity, 198A6:66
 vs. dry bulk density, 137A2:30; 188B9:6
 vs. grain density, 203A1:26; 3:65
 vs. impedance, 199B13:26
 vs. interpolated gamma ray attenuation density, 199A9:29; 10:42; 11:68; 12:74; 13:59; 14:44; 15:33
 vs. optical measurements, 117B12:241–242
 vs. porosity, 138B28:617; 185A4:134; 199B13:15; 203A1:26; 3:65
 vs. sonic velocity, 138A(1)9:176; 203A1:26; 3:65
 vs. X-ray computed tomography, 185B12:14
 well-logging vs. shipboard data, 138A(1)9:178
 density-caliper-gamma ray logs
 Site 800, 129A2:86–87
 Site 801, 129A3:162–164
 Site 802, 129A4:240–241
 density correction logs, 156A5:86; 157A6:177–178; 160A6:144–145; 7:200, 208–210; 8:264–266; 9:325–326; 14:446; 161A4:101–102; 5:162–163; 6:267–268, 273, 275; 7:335–337, 340; 9:415–416; 204A4:88; 6:60; 7:57; 8:71; 9:67; 10:81; 205A4:162
 density flows
 blue tuff, 119A5:131; 127/128B(1)8:123–126
 photograph, 159A5:79
 density logs
 basalts, 185A3:43; 185B1:24
 basement rocks, 127/128B(2)49:807
 carbonates, 133B43:634; 167A(1)8:196–198
 chert, 129B29:516
 correlation, 133A(1)5:160–164; 7:222–227, 232–233; 9:321–322; 10:373; 12:474–476; 13:533–536, 551; 14:589, 603–604; 16:723–724; 135B21:331–365
 debrite, 157B3:36
 editing, 171A_A3:26
 electrofacies, 176A3:247–251
 igneous rocks, 209A10:40
 lithology, 185A4:45; 205A4:61
 logging-while-drilling, 156B26:326–327; 204A3:90–93, 100; 10:85
 measurements, 193A3:93–94; 4:61, 64
 oceanic anoxic events, 198A3:110
 porosity, 146B(1)20:315; 164B19:185; 196A3:23–24, 62–64; 4:23–26
 power spectra, 175B9:14–15
 protodécollement and décollement, 171A_A6:90
 sediments, 190A4:31–32, 81; 196A3:23, 60–61, 89; 4:23
 Site 794, 127A4:139–146; 127/128B(2)85:1362
 Site 795, 127A5:232, 237; 127/128B(2)85:1365
 Site 796, 127A6:302–305, 319–320
 Site 797, 127/128B(2)85:1366
 Site 798, 127/128B(1)23:399, 401; 128A4:185–187, 212, 229–232
 Site 799, 128A5:332–338, 362–364, 383–385, 389–392
 Site 838, 135A(1)8:384
 Site 839, 135A(1)9:464
 Site 841, 135A(1)11:657–658
 Site 845, 138A(1)10:234–236
 Site 871, 144A3:78–79, 81
 Site 873, 144A5:189
 Site 874, 144A6:238–239
 Site 950, 157A4:54, 99–100
 Sites 676 and 1047 comparison, 171A_A6:87
 Sites 808 and 1173 comparison, 196A4:24–25, 57
 Sites 867–868, 143A8:286–288
 sulfides, 128A1:21
 synthetic seismograms, 143B19:308–309
 vs. density, 202A9:73; 12:68
 vs. depth, 136A5:88–91; 138A(1)10:253; 144A3:91–92; 5:196; 6:246; 144B40:666; 146A(1)6:280–

- 281; 146B(1)20:316–317; 23:362; 149A6:199;
150A6:111; 7:183–184; 8:240; 9:295; 10:337;
152B37:442; 38:457; 154A4:129, 132–133;
5:211; 6:266; 7:325; 8:398; 155A7:159; 9:226;
11:305; 12:363; 16:490; 20:622; 22:683;
155B26:423–424; 156A5:74, 86; 6:151, 162, 165;
156B20:259; 157A7:378; 9:473; 10:540;
159A6:202; 159B22:231, 235, 239, 244;
160A8:270; 9:327; 11:408; 12:446; 161A4:101–
102; 5:162–163; 6:267–268, 273, 275; 7:335–
337, 340–344; 9:415–416; 162A4:124–125;
6:203–204; 9:326; 10:377; 164A6:139, 142–143;
7:210–214; 9:3; 165A3:92; 4:192; 5:72; 6:338;
165B11:195–197; 13:223; 166A8:197–200;
10:322; 167A(1)10:272–273; 167A(1)5:117–119;
8:209, 211; 10:271–272, 12:343–344; 13:377–
378; 14:419, 421; 16:484; 168A6:198, 201;
169A3:132–133; 5:231; 171A_A3:24; 4:43, 46,
49; 5:56, 59, 64, 67, 70, 74; 6:82, 85, 88–89;
7:94, 98, 101, 104; 171A_B2:12; 174A_A3:89;
4:137–140; 5:186; 175A9:271; 10:311; 12:383;
16:494; 175B9:13; 176A3:233–234; 5:26;
177A8:63; 181A3:65, 67; 7:105, 108, 111; 9:53;
182A4:75–76; 6:79; 7:61; 182A8:62–63; 9:53;
10:63; 12:51; 183A8:93–94; 188A3:160, 190;
4:89; 5:82; 189A3:110–114; 5:106; 6:118, 124;
7:97; 190A4:81; 192A6:88, 90; 193A3:256;
194A5:76, 79–80; 6:64; 7:105, 111–112; 9:53–
54; 195A1:54; 4:153; 196A1:23–24; 3:47, 50–54,
60–64, 83, 89; 4:32, 38–42, 50, 54; 198A3:108;
9:86, 89; 199A11:81–83, 86; 12:86, 89, 92;
199B12:16–17; 201A6:71–72; 7:76–77; 9:57–58;
10:61–62; 11:77, 84; 202A9:68; 10:63; 12:67;
204A4:89; 6:61–62, 68; 7:58, 60; 8:72, 74; 9:72,
75; 10:82–83, 89; 11:48, 51; 205A1:55–56; 4:71–
73, 162–167; 205B13:13; 206A3:322; 207A4:68–
72, 76; 207A5:79–81; 7:71–72, 75–77; 8:68–69,
72–73; 207B14:16–19, 21–22; 208A4:63; 6:78
- vs. depth offset, 199B12:16–17
- vs. gamma ray attenuation density, 199B12:13;
202A10:64
- vs. gamma ray logs, 128A4:215; 189A6:123; 194A6:65
- vs. index bulk density, 188B10:18
- vs. porosity, 183A8:96
- vs. resistivity logs, 196A4:18, 43; 202A12:70
- vs. spectral gamma ray, 174A_A4:149
- vs. traveltime, 174A_A4:143
- vs. velocity logs, 159B23:246, 248; 174A_A4:149
- well-logging vs. laboratory data, 138A(2)14:762
- See also bulk density correction logs; bulk density
logs; composite density logs; delta density logs;
density-caliper-gamma ray logs; density-natural
gamma ray-aluminum logs; density-natural
gamma ray logs; density-porosity-natural
gamma ray logs; formation density logs; gamma
ray-density logs; gamma ray-density-porosity
logs; lithodensity logs; neutron lithodensity po-
rosity difference; variable-density stack sections
- density logs, edited, vs. depth, 146A(1)4:105; 6:279
- density logs, raw, vs. depth, 146A(1)4:105; 6:279
- density logs, wireline, vs. depth, 133A(1)13:539
- density maps, décollement/protodécollement,
171A_B3:25
- density-natural gamma ray logs
- North Pacific transect, 145A8:390–391
- Site 812, 133A(1)5:175–176
- Site 814, 133A(1)7:241–242
- Site 815, 133A(1)8:296–297
- Site 816, 133A(1)9:342–343
- Site 817, 133A(1)10:407–411
- Site 819, 133A(1)12:506–508
- Site 820, 133A(1)13:562–564
- Site 821, 133A(1)14:612–614
- Site 822, 133A(1)15:674–675
- Site 823, 133A(1)16:757–762
- Site 829, 134A9:255–257
- Site 830, 134A10:312–313
- Site 831, 134A11:378–382
- Site 832, 134A12:477
- Site 833, 134A13:552–555
- Site 834, 135A(1)4:175–177
- Site 835, 135A(1)5:245
- Site 838, 135A(1)8:390–391
- Site 839, 135A(1)9:482–484
- Site 840, 135A(1)10:563–566
- Site 841, 135A(1)11:675–677
- Site 843, 136A5:93–94, 97
- Site 844, 138A(1)9:185–186
- Site 845, 138A(1)10:260–261
- Site 846, 138A(1)11:328–330
- Site 847, 138A(1)12:390–391
- Site 849, 138A(2)14:804–805
- Site 850, 138A(2)15:884–886
- Site 851, 138A(2)16:962–963
- Site 857, 139A7:418–420
- Site 858, 139A7:568
- Site 859, 141A2:152–154
- Site 863, 141A10:438–441
- Site 871, 144A3:98–99
- Site 909, 151A7:218–220
- Site 910, 151A8:269–270
- Site 911, 151A9:312–314
- Site 925, 154A4:150–152
- summary, 130A7:283–286; 8:360–363
- vs. depth, 152A9:156–158
- density porosity logs
- gas hydrate saturation, 204B27:17–22
- logging-while-drilling, 204A3:99
- vs. depth, 180A8:101–102, 105; 9:135–138, 141;
189A3:114; 5:109; 6:121; 204A4:90; 5:52; 6:62,
67; 8:73; 9:74; 10:83; 11:48, 51
- vs. neutron porosity logs, 181A9:57
- vs. resistivity, 204B22:20
- vs. velocity, 204B22:18–19
- Woodlark Basin, 180A1:70
- density-porosity-natural gamma ray logs
- Cascadia margin, 146A(1)4:123–125; 6:298–300;
7:378
- Ontong Java Plateau, 130A6:173–176
- Site 801, 144A9:327
- Site 865, 143A6:176–180
- Site 866, 143A7:252–261

- Site 869, 143A9:366–370
 Site 873, 144A5:204–205
 Site 874, 144A6:251
 Site 878, 144A10:404–408
 Site 879, 144A11:439–440
 Site 881, 145A3:80–81
 Site 884, 145A6:298–302
 Site 902, 150A6:123–127
 Site 903, 150A7:195–197, 203–205
 Site 904, 150A8:250–253
 Site 905, 150A9:306–308
 Site 906, 150A10:350–353
 Site 907, 151A5:108
 Site 908, 151A6:157–158
 Sites 867–868, 143A8:296
 summary, 130A9:473–477; 10:486–493
 density underflows, Cenozoic, 194A3:7
 density/velocity models, 178A4:33–34; 7:22; 9:22–23
 density wire logs, 204A3:93; 4:92; 6:64; 9:70; 10:85
 denudation
 Kerguelen Plateau, 120B(2):52:949
 sedimentation, 155B41:653–675
 See also weathering
 deoxyribonucleic acid (DNA)
 enrichment, 204A3:23
 extraction, 205A4:52–53; 205B1:24; 8:6–11
 microbial activity, 148B14:207–212
 microbially processed glass, 148B13:200
 polymerase chain reaction, 201B1:16–20; 2:3; 3:6–9,
 14
 subsurface biosphere, 158B26:356
 thermal waters, 168B14:167–174
 See also Archaea; microorganisms; nucleic acids; RNA
 deoxyribonucleic acid bands, microbes, 187B6:6–8, 13
 depleted end-member mantle (DMM), 120B(1):3:59–61
 depletion
 calcium, 188A3:129
 melting of harzburgites, 147B6:120–121
 depletion, geochemistry, 168B11:138–142
 depocenters
 carbonates, 182B4:11
 Cenozoic, 150X_B27:364–368
 Cretaceous, 189A1:7
 deposition, 161B7:95; 26:352–354
 physiography, 180B(synthesis):29
 post-Miocene interval, 161B44:569–570
 sedimentary cover, 161B44:562–565
 turbidites, 166B5:53
 deposition
 architecture, 194B5:13–14
 Barremian–Aptian, 149A6:203
 basins, 160B36:456–457
 Berriasian–Valanginian interval, 173A8:237
 biogenic silica, 198A9:15
 bioturbation, 171B_A7:324–325
 bottom currents, 178B25:9
 breccia, 149A6:203; 173A7:179
 Cagayan Ridge, 124A12:311–313; 14:403–405;
 124B4:61
 carbonates, 160B33:428–429
 Celebes Sea, 124A10:143, 181–183; 13:347–349
 channel-levee systems, 155B41:659–660
 channels, 155A3:44
 clasts, 160B45:584–586
 controls, 160B33:433–434
 cool-water carbonates, 182B1:1–30
 Cretaceous–Cenozoic interval, 189A1:6–10
 Cretaceous–Neogene interval, 207A1:50–51
 currents, 181A5:6–8
 cycles, 155A16:484–485; 157B14:213; 178A4:11–13;
 5:11–12
 debris flows, 155A17:528–529
 depth, 133B21:298–299
 environment, 133A(1):4:115; 5:149–151; 8:260–261;
 135B53:846–847; 143B32:546–547; 144A8:306–
 308; 11:429; 159B8:72–73; 161B1:14–16;
 162B17:233–246; 166A6:114; 170A4:104;
 178A6:7–8; 7:9–10; 178B24:6–8; 25:11;
 182B4:9–11; 188A4:16–17; 5:13; 188B3:11;
 194B5:15–17, 35; 195A4:95; 195B2:27;
 204A3:9–10; 4:10–11; 5:5; 6:7–8; 7:7; 8:9; 9:8;
 10:9–11; 11:7–9
 Eocene, 159B32:421
 evolution, 189A5:75
 fabric, 155B27:447–464
 geometry, 150B23:412–415
 glacial cycles, 178A1:32; 2:4–5
 guyots, 144B47:819–840
 hemipelagic environment, 134A7:126–127;
 167A(1):8:181, 183; 9:227; 11:289–291;
 168B5:52
 highstand shedding, 166A3:35
 history, 135B7:109–112; 144A4:118–119; 5:159, 163–
 164; 6:220–221, 225; 7:267–269; 10:353–356;
 11:423–427; 149B45:685–704; 157A5:113–114;
 7:339–341; 8:407; 9:448–449; 10:514–515;
 157B20:349–354; 38:624–628; 160A6:130–132;
 8:223–224; 10:344; 14:476–477; 180A1:16–21;
 6:31–35; 9:27–28; 202A8:56; 10:8–10; 11:9–10;
 12:9–10; 13:8–9; 202A7:50; 208A1:32–33
 Iberia Abyssal Plain, 149B16:323, 329, 333
 Kerguelen Plateau, 120B(1):8:105–107; 48:903
 levees, 155A16:489–490
 lithofacies, 155B40:611–651
 lithology, 149A4:50–51, 56, 59–62; 5:122, 125–127;
 6:155, 158–159; 7:220, 222; 157A6:147;
 167A(1):6:134–135; 9:227; 10:247; 11:289–291;
 12:320; 13:359; 14:395; 15:438; 173A4:73–77;
 7:174–177; 180A10:11–12; 185A3:9; 4:17–19;
 202A3:8–9; 4:8; 5:6–8; 6:8–9; 7:9–10; 8:11–14;
 9:9–11; 210A3:25, 29–30, 35–39, 43–44, 46, 49–
 50
 Magdalena Fan, 165A4:207
 mass flow deposits, 160B37:478–480
 models, 160A6:134
 Neogene, 149B12:287–289
 Neogene–Quaternary interval, 152B3:29–38
 ocean currents, 195B3:3–5
 oceanic anoxic events, 198A3:32; 198B16:5–8
 opal, 178B23:1–33
 open ocean, 121A11:350
 oxic–anoxic transition, 165A7:361

- oxygenation, 192A3:12–13
paleobathymetry, 192A4:9–10
Paleocene, 121A12:401
paleoenvironment, 144A6:234–236; 160A5:96–97,
100–103; 7:162–164; 9:296–297, 303; 13:454;
173A9:270–273; 178A4:10–13; 178B(synthe-
sis):5–9; 188B8:1–21; 189A1:26–27
pelagic carbonates, 146B(1)15:265
periplatform environment, 133A(1)10:357, 359
Pigafetta Basin, 129B6:155
plateaus, 194A1:79
Pliocene–Pleistocene, 159B41:557–574; 161B4:57–68
postbasement flooding, 194B2:4
preservation, 162B1:13–14
spropels, 160A2:24
sea level changes, 194B2:4–5
sedimentation rates, 180A5:18–19
sediments, 157A8:407; 168A5:103; 177A1:43;
178A7:8–10
sequences, 157B17:297
shallow hydrates, 164B23:233–234
shelf environment, 188B2:11–12
siliciclastics, 167A(1)7:161
Site 701, 114A8:377, 406, 412
Site 704, 114A11:626
Site 747, 120A6:150–151
Site 748, 120A7:229–231
Site 753, 121A7:171
Site 756, 121A10:260
Site 757, 121A11:311
Site 897, 149A4:53
Site 898, 149A5:123
Site 900, 149A7:219
submarine plateaus, 207A9:2
Sulu Sea, 124A11:201, 220–222; 124B4:60–61
tektites, 150B13:255–259
tephra, 186B9:4–5
terrigenous component, 167B18:227–234
transform faults, 159A9:299–309
trough mouth fan, 188A1:30
turbidites, 124B32:443–444; 149A4:50, 52, 56–62;
157A4:68–70; 173A6:114; 8:234; 178A4:61; 190/
196B3:9–12
turbidity currents, 178A9:8–9
upper Miocene, 194B2:7–8
ventilation, 189A6:19–21
volcaniclastics, 135B6:94–98; 144A3:53; 157B15:260–
263
Wilkes-Pensacola basins, 120B(2)56:1010
See also depth vs. age; hemipelagic environment; ma-
rine environment; mass accumulation rates; pa-
leoenvironment; precipitation; sedimentation;
synrift environment
deposition, biosiliceous, lithology, 159A7:233–234;
8:267–270
deposition, eolian, Cenozoic, 130B28:471–490;
138B28:615–625
deposition, episodic
dust, 145B14:219–230
Islas Orcadas Rise, 114B1:17–19
mass accumulation rates, 138B28:619–623
Meteor Rise, 114B1:17; 2:36–37
mineralogy, 145B15:244
sediments, 138B25:575–578
Straits of Florida, 101A5:75
deposition, glaciogenic
carbonates, 175A17:512–513
front geometry, 119B1:19
orbital controls, 175B22:3–5
sediments, 172A1:8; 175A21:555–556
seismic profiles, 175B(synthesis):57–58
silica, 175B(synthesis):44–45
See also precipitation
deposition, glaciomarine, 119B6:80
deposition, hemipelagic
lithology, 210A3:58–59, 64
sedimentation, 165B4:98
deposition, nonmarine, Messinian, 160B34:437–445
deposition, pelagic
carbonates, 165A4:152; 5:245–248
lithology, 159A8:267–270
lower Miocene, 192A4:10–11
Paleocene, 159B12:118–119
paleoenvironment, 159A6:176
passive margins, 159A7:234
deposition, synrift, sedimentary sequence, 107B12:184
deposition energy, reflectance, 178B21:1–22
deposition rates. *See* opal flux; mass accumulation rates;
sedimentation rates; terrigenous flux
depositional cycles
biogenous sediments, 175A1:12
See cyclic processes; lithofacies
depressions
post-Miocene interval, 161B44:569–570
See also basins
depth
core-log comparison, 162A4:122
correlation, 180B24:11; 25:24
gamma ray logs, 150B29:461–468
See traveltime/depth function
depth, curated, to top of cored interval, 179B3:29
depth, stratigraphically equivalent, 155A15:440–441
depth, subbottom
calculation, 155B:1–2
expansion-corrected, 155B:1–2
depth/age interval rate, vs. depth, 170A3:47; 4:97; 7:216
depth anomalies
bathymetry, 187A1:46; 187B3:15
depth contours, 161B25:339
isotopes, 187B3:5–6
depth conversion
seismic profiling, 180A1:28–29; 180B5:14–22
Site 1109, 180A6:76–79
Site 1115, 180A9:59–61
Site 1118, 180A12:52–53
depth habitats, foraminifers, 138B25:576; 144B20:402
depth intervals, well-logging, 160A6:142; 7:199; 8:263;
9:322; 11:404; 12:445; 14:491
depth maps, seismic facies, 157B28:478–479, 484, 487–
490
depth models
sediments, 195B13:14

- stratigraphy, 138B43:840
- depth offsets
 - composite depths, 162A3:61; 4:101; 5:149; 6:181; 7:234; 8:263; 10:355; 178A4:96, 166–167; 5:90, 138–139; 7:66–67, 109; 172A3:48; 4:105; 5:190; 6:269
 - consolidation, 138B16:364–367
 - sediments, 186B15:39
 - spliced records, 202A8:43
 - vs. core-top depth, 172A3:53
 - vs. depth, 138A(1)5:82–83; 138B16:366, 368; 194A3:57; 199A11:60
 - vs. logging density, 199B12:16–17
- depth scales, magnetobiochronology, 178B36:5
- depth sections
 - vs. time sections, 178B19:30
 - See composite depth sections
- depth-shifted resistivity logs, vs. depth, 178B19:27
- depth shifts, absolute, velocity logs, 178B19:33
- depth stratification, foraminifers, 130B18:323–332; 138B25:559, 565, 573
- depth transects, paleoceanography, 172A1:8–9
- depth vs. age. See age vs. depth
- des-A-triterpinoids, sapropels, 160B23:287, 289
- desautelsite, Site 778, 125B19:355
- deserts. See semidesert environment
- desiccation
 - Messinian, 161A1:14
 - photomicrograph, 129B3:108–110
 - salt, 161B43:547
 - visual microanalysis, 127/128B(1)3:57
- desiccation, exfoliative
 - basalts, 169A5:213
 - photograph, 169A5:214
- desiccation cracks, Cretaceous, 143B10:140
- 4-desmethyl sterols, sediments, 175B5:8–9
- Desulfotomaculum*, cultured isolates, 201B2:9
- Desulfotomaculum geothermicum*, methanogen enrichment, 201B3:5
- Desulfovibrio desulfuricans*, iron sulfides, 141B5:74
- Desulfovibrio profundus*, marine sediments, 201A1:5
- destratification, clay units, 144B17:348; 19:391–392
- detachment faults. See faults, detachment
- detachment horizons, Miocene, 133B27:393–394
- detachment tectonics. See tectonics, detachment
- detectors, reflectance spectroscopy, 138A(1)4:69
- detrinite, vs. age, 159B41:568
- detrital accumulation rate. See terrigenous flux
- detrital components
 - deposition, 161B7:95–96
 - geochemistry, 167B23:266–270; 200A3:30–34
 - lithology, 161A7:308–309
 - sand, 146B(2)5:63–66
 - sedimentation, 161B2:31–34; 3:46; 4:59–67
 - Site 748, 120B(1)9:118
 - Site 786, 125A14:318; 125B14:267
 - textures, 174A_B3:4, 9
 - vs. benthic foraminifer elements, 184B12:22
 - vs. depth, 161A6:200; 7:306; 8:360; 9:399
 - See also biogenic component; epiclastics
- detrital grains, photomicrograph, 180A9:70
- detrital magnetic signal, ferrimagnetic minerals, 150B19:356
- detrital minerals
 - surface sediments, 147B27:451–457
 - vs. titanium oxide and aluminum oxide, 150B20:367
 - X-ray diffraction data, 156A3:29–37
- detrital modes, comparison, 168B5:62
- detritus
 - photograph, 162A7:239
 - provenance, 190/196B6:10–11
- detritus, ice-rafted
 - correlation coefficients, 162B13:193
 - sediments, 162B12:181–189
 - vs. age, 162B12:186, 188
 - vs. depth, 162B12:182, 184, 192
- detritus, volcanic
 - deposition, 119A5:130–131
 - geochemistry, 119A6:187–188
 - inoceramids, 123B1:11
 - Kerguelen-Heard Plateau N, 119A6:172–173; 119B18:353
- detrovitrite
 - deuteric enrichment, 147B1:12–13
 - dispersed organic matter, 180B10:10
 - photomicrograph, 180B10:30–31
- deuterium
 - depletion, 147B14:277
 - fluid provenance, 204B13:5–6
 - gas hydrates, 164A1:8; 164B4:40–45; 22:220–221
 - methane, 164B2:21–23; 7:67–77; 204B15:46
 - pore water, 127/128B(1)34:607; 134B8:116; 164B12:129–137; 166B8:94
 - sediments, 105B9:130; 12:181
 - Site 799, 127/128B(1)34:614
 - vs. carbon isotopes, 164B2:23; 7:75
 - vs. chloride, 164B22:223
 - vs. depth, 148B34:423; 164B12:132; 22:222; 166B8:97; 168B9:107–115; 174A_B2:7, 8; 204B13:14, 17
 - vs. oxygen isotopes, 127/128B(1)34:615; 134B8:122
 - See also hydrogen isotopes
- deuterium/hydrogen ratio
- décollement zone, 131B32:404–405
- diabases, 137/140B8:101
- Japan Sea, 127/128B(1)36:642
- pore fluid, 131B34:425
- reaction zones, 137/140B13:147–150
- sediments, 131B15:186–195
- vs. water content, 137/140B8:102
- deviation logs, vs. depth, 202A9:67; 10:62; 12:66
- devitrification
 - basement rocks, 183A9:20
 - Celebes Sea, 124A13:362–369
 - glass shards, 180B17:6; 183A4:12–13
 - hyaloclastite, 143B16:265–266
 - lava ponds, 206B5:2–3
 - lithology, 193A3:24
 - photograph, 135A(1)11:640; 193A3:123
 - photomicrograph, 193A3:113, 115; 4:107; 198A9:62
 - silicification, 193A3:44–47
 - Sulu Sea, 124A11:260, 262

- devitrified patches, 192A1:49; 3:101–102, 105
Devonian
 basement, 173A1:10
 palynomorphs, 188B2:6
dewatering
 deformation, 170B4:4–5
 fault splays, 146B(1)23:366
 fluid pressure, 146B(1)28:420
 forearcs, 134A14:564
 interlayer water, 129B14:281
 lithology, 173A4:74
 magnetostratigraphy, 173B11:21–23
 New Hebrides island arc, 134B35:613
 porosity, 146B(1)20:331–334
 sediments, 134A9:206; 146B(1)15:257–274; (2)26:334
 serpentine debris flows, 125A11:264
 Site 798, 127/128B(2)75:1176–1178
 Site 799, 127/128B(2)75:1178
 Site 800, 129B14:272
 See also expulsion rates
dewatering, channelized, evidence, 131B7:88–90
dewatering, diffusive
 fabric, 131B7:83–84
 sediments, 146A(1)11:421–423
dewatering, localized
 consolidation, 131B7:84–88
 deformation, 131B29:371
 fluid expulsion, 131B29:365
 pore fluid, 131B4:46
 sediments, 131B19:241–242
dewatering structures
 accretionary wedges, 204B3:7
 décollement zone, 205A1:13
 fabric, 149B19:358
 fluid venting, 204B3:6
 gas hydrates, 204A1:45–46
 graded bedding, 131A6:98
 lithology, 180A9:26; 10:11–12; 12:6, 9, 15; 210A3:36–37
 photograph, 134A8:150; 180A9:87; 190A5:60
 porosity, 204B8:9–10
 Site 722, 117A10:258, 266
 Site 731, 117B10:215
 structural domains, 149A4:83–84
 Yaquina Basin, 112A15:450–451
 well-logging, 186A4:55
 See also veins; water-escape structures
deweylite, electron microprobe data, 137/140B18:208–209
diunsaturated isorenieratene derivative, 160B23:291
diabantite, composition, 137/140B13:149; 15:176
diabase/basalt, massive, photograph, 180A12:84
diabase clasts. *See* clasts, diabase
diabase contacts, stereo plots, 209A10:112
diabase grains, lithology, 180A10:11–12
diabases
 affinity, 180B1:1–18
 alteration, 118A3:50; 127/128B(2)55:883–889; 137/140B17:199–205; 18:207–216; 147B15:298; 153A3:85–86; 180B1:4–5; 187A1:11; 9:6–7; 209A10:12–17
 aluminum oxide vs. magnesium oxide, 153B19:366
 anelastic strain recovery, 123A5:328–330
 basement, 180B(synthesis):5–7; 198A9:5–6
 breccia, 180A8:82
 cathodoluminescence, 148B6:84
 Celebes Sea, 124A13:368–369; 124B20:275
 chilled dike margins, 137/140B3:35–42
 clasts, 149B29:497–515; 180A6:122–123
 clinopyroxenes, 137/140B11:121–130
 composition, 139A6:232–238, 332; 176B(synthesis):46
 conglomerate, 180A1:8; 6:35–38
 crosscutting relationships, 118B26:441
 crystallization, 180B2:13
 deformation, 209A10:18–19
 dikes, 137/140B4:48; 12:131–139; 14:155–166; 153B19:363–377
 electrical conductivity, 148B21:304
 europium/samarium ratio vs. samarium, 153B18:359
 fluid inclusions, 137/140B16:191–194
 Formation MicroScanner imagery, 180B25:21
 fractures, 148B22:307–315; 23:317–329
 geochemistry, 134A9:200–201; 137/140B5:53–61; 6:65–97; 9:107–110; 10:117–120; 139A7:478; 139B6:88–89; 140A2:86–87; 148A2:57–60; 148B4:39–55; 153A4:148–149; 153B28:491–495; 180A1:64–66; 6:36–38; 180B1:1–18; 209A1:118; 10:24–25
 geochronology, 180B2:1–35
 geothermometry, 137/140B15:167–189
 gold, 148B36:453–454
 hydrothermal circulation, 169A1:10
 hydrothermal metamorphism, 107B4:63
 intrusions, 123A5:331; 125B24:407; 153B4:72, 74; 180B3:8–11
 isotopes, 127/128B(2)55:884–888; 148B5:57–69; 153B15:310–311
 lanthanum/scandium vs. ytterbium/scandium, 153B18:359
 lanthanum/ytterbium vs. ytterbium, 153B18:359
 lithology, 148A2:37–38; 153B10:186–198; 177A8:7–8; 180A7:9–10; 187A9:5; 197A4:13; 198A1:47; 9:11–13, 17–18; 209A7:2–7; 10:3–10; 210A1:15
 magmatism, 149B1:15
 magnesium oxide, 153B19:366, 371
 magnetic properties, 118B16:302; 124A11:230; 137/140B21:245–252; 139B30:519–534; 180A6:52–53; 197A4:93; 210B15:9–10
 major elements, 149A6:172; 153A4:148; 180A6:248; 8:126
 melting spider diagrams, 153B10:214
 metamorphism, 148B8:97–109
 mid-ocean-ridge basalt normalized, 180B1:11
 mineralogy and texture, 118A4:66; 124B20:282; 148A2:42; 148B6:86; 198A9:92–93
 nitrogen, 148B1:3–7
 ophiolite comparison, 140A2:127
 Paleocene cooling, 180B(synthesis):5
 petrogenesis, 209A1:59–61
 petrography, 118A3:49–50; 127/128B(2)56:892; 134B16:338–342; 153B19:363–364

- petrology, 134A9:199; 134B17:355; 137/140B1:3–17;
 2:19–33; 140A2:52–64, 119–121; 149A6:169,
 172; 153A4:134–135, 152; 180A1:22–23; 7:14
- phase diagrams, 180A6:133–134
- photograph, 147B15:298; 148A2:51; 149A6:189;
 153A3:52, 56, 72, 90; 4:126, 161; 180A6:114,
 122; 10:62; 12:102–105; 185A3:115; 192A1:56;
 198A9:50–61, 67
- photomicrograph, 180B3:26–27; 8:43; 187A9:17, 19;
 198A9:63–66
- physical properties, 107A7:325; 123A5:326;
 139B38:597–612; 209A7:103; 10:125
- Pleistocene, 180A1:13
- radiometric age dating, 123B30:558
- rare earths, 153B10:227
- recovery logs, 180A7:34; 12:101
- recrystallized foliated rocks, 118B26:449
- sills, 124B19:255; 128A3:86; 135B38:630; 198B1:36
- Site 732, 118A3:54
- Site 765, 123A4:174–175, 190
- Site 766, 123A5:270, 318–319
- Site 794, 127/128B(2)52:849, 869
- strain localization, 137/140B19:219–229
- strengths, 148B32:401–407
- structures, 148B16:229–243; 180A12:30
- sulfur isotopes, 139B48:739–748
- Sulu Sea, 124A11:255, 259–260, 263, 265
- tectonics, 176A1:6–8; 180A8:17
- textures, 180B3:4–7
- trace elements, 148B37:455–466; 153B10:221–227;
 180A6:249; 8:127
- transition facies, 180A1:50
- Tyrrhenian Sea, 107A7:305
- veins, 137/140B20:231–234
- vesicles, 127/128B(2)55:887–888
- X-ray fluorescence data, 180A12:180–181
- zirconium, 153B19:373, 375; 180A6:135
- zirconium/yttrium ratio, 153B19:374
- See also* gneisses; metadiabase; microdiabase
- diabases, alkalic
- major oxides and trace elements, 129B18:350–351
- mineral chemistry, 129B17:308–343
- petrography, 129B17:306–307; 18:347
- radiometric ages, 129B20:392–393
- diabases, altered, photograph, 180A5:114
- diabases, aphyric
- composition, 128A3:75
- petrography, 135A(1)4:135–138
- petrology, 210A3:65–70
- radiometric age, 127/128B(2)50:822–826
- Site 794, 127A4:122–125; 127/128B(2)58:908;
 83:1339; 128A3:68, 88–90
- Site 797, 127A7:371–375, 380–381
- zoned vein alteration, 127/128B(2)55:886
- diabases, aphyric alkalic
- core ages, 129B2:33
- Cretaceous, 129B18:345–359
- Jurassic, 129B19:362–363
- lead isotope ratios, 129B21:409
- lithology, 129B2:33
- magnetization, 129A2:56–57
- mineralogy, 129B17:305–343; 20:394
- petrography, 129B19:363
- radiometric age, 129B20:390
- sills, 129B27:485
- Site 800, 129A2:33, 66
- diabases, aphyric brecciated, lithology, 134A8:147, 149
- diabases, brecciated
- photograph, 180A8:80–81; 12:105
- photomicrograph, 180A8:79; 180B3:27
- structures, 180A12:30
- diabases, brecciated and altered
- accretionary wedges, 204B3:7
- décollement zone, 205A1:13
- fluid venting, 204B3:6
- gas hydrates, 204A1:45–46
- lithology, 210A3:36–37
- photograph, 180A12:90; 190A5:60
- porosity, 204B8:9–10
- well-logging, 186A4:55
- See also* water-escape structures
- diabases, fresh, vs. altered, 137/140B7:93
- diabases, glassy, photomicrograph, 180A6:128
- diabases, gneiss, lithology, 180A5:8–9
- diabases, granular
- photograph, 180A12:89
- photomicrograph, 180A6:125; 12:91–92
- diabases, holocrystalline phaneritic, 107B4:63
- diabases, massive
- petrology, 180A8:17–18
- sill zoning, 210A3:67
- diabases, medium-grained, 163X_A7:11
- diabases, olivine, 128A3:69, 91
- diabases, olivine microphyric, 128A3:68, 89
- diabases, olivine-plagioclase phyric, 209A10:7
- diabases, ophitic
- conglomerate, 180A1:6
- mass balance, 169A3:96–99
- photomicrograph, 180A6:126–127
- diabases, pegmatitic, photomicrograph, 180A12:93
- diabases, phyric
- alteration, 153A4:157–158
- petrology, 153A3:48–50, 64
- photograph, 209A10:61
- photomicrograph, 209A10:78
- diabases, plagioclase phyric
- Japan Sea, 128A3:75
- Site 794, 127A4:122–125; 128A3:75
- Site 797, 127A7:371
- diabases, plagioclase-pyroxene phyric leucocratic,
 128A3:68, 88
- diabases, porphyritic
- petrology, 153A3:64
- photomicrograph, 209A10:64
- diabases, spherulitic
- lithology, 139A7:511
- photomicrograph, 209A7:48
- diabases, subrounded to angular, 180A12:106
- diabases, unbrecciated, petrology, 180A12:26
- diabases, undeformed, photograph, 209A10:104
- diabases, variolitic, lithology, 180B3:27; 6:11
- diabasic rocks, fluid inclusions, 153A3:86–88

- diachroneity
 biostratigraphy, 127/128B(1)10:164; 138B11:230;
 47:911–930; 145B4:67, 72–77; 7:134–135;
 162B2:27, 29; 11:174; 181B1:16; 189B6:12;
 200B4:5–6
 Cenozoic, 145B37:570, 573
 cyclostratigraphy, 160B15:195
 Neogene, 138B23:528–529
- diachronism
 age vs. depth, 157B10:121–122
 biostratigraphy, 150B3:49; 161B13:178; 177A5:10
 geochronology, 154B4:93
 See also synchrony
- diachronous deposits, mid-Cretaceous, 207B2:4
- diactinal monaxons
 Kerguelen Plateau central, 120B(2)43:833–834
 Site 795, 127/128B(1)30:542
- diagenesis
 alteration, 157B12:150; 38:619–634
 amino acids, 116B11:141–144; 201B12:3
 amorphous silica, 139B16:341–349
 anoxic deposits, 165B7:125–140
 Aoba Basin, 134B8:109–130
 apatite, 175A8:214; 9:256
 atomic absorption data, 130B27:457
 authigenic carbonates, 164B30:301–312
 basalt clasts, 143A9:312
 Bengal Fan, 116A1:10; 6:168; 116B1:9; 14:157–158
 biochemical analysis, 112B9:136–137
 biogenic sediments, 130A12:549; 178B23:9; 180A1:9;
 9:40; 180B(synthesis):15; 185A4:27–28;
 198A9:15
 biogeochemistry, 169S_A2:17
 biomarkers, 149B13:298–299; 175B5:9
 bioreactors, 207A7:27–29
 biostratigraphy, 129B3:91; 9:190; 133B2:29, 32;
 26:366; 144B3:76; 168B4:39–49; 182B13:7–8;
 199A12:19; 207A8:12–13
 black shale, 207A5:27–29; 6:30–32
 boundaries, 114A7:288, 291
 breccia clasts and matrix, 173A7:194–195
 burial rates, 101B20:300
 calcite, 149B33:555–557; 159B8:73–76
 carbohydrates, 155B33:536–537
 carbon, 167A(1)4:74–75
 carbon-nitrogen evidence, 205B7:7–8
 carbonates, 101B18:255–260; 24:363; 112B7:100–101;
 130B15:275–276; 133B31:479; 32:482–487;
 33:491; 40:583; 48:714–715; 134B3:50–54; 6:94;
 143B18:299–300; 144A3:54–55; 144B16:322–
 327; 23:433–436; 46:789–817; 48:846–869;
 146B(1)6:117–136, 146; 150A7:148; 150B1:14;
 17:311–328; 151B24:423–429; 159A5:110–111;
 6:194–195; 7:243; 160A4:67, 69; 5:110; 7:188;
 9:311; 10:363, 366; 160B33:423–427; 161A4:89;
 5:146; 6:236; 7:319; 8:380–381; 9:403–404;
 161B1:13–14; 166B6:73–74; 8:95–97;
 167A(1)13:359; 167B7:137; 178A7:16;
 181A1:31; 182A1:15, 38; 6:29; 7:22–23; 9:20;
 182B1:10–12; 185A4:27–28; 189A4:21;
 198A9:14–15; 206B4:6–7; 207A1:22
- carotenoids, 112B37:567–570
Celebes Sea, 124A10:155
celestite, 154B34:495–498
cements, 164A8:271–272
chalk, 130A9:392–393; 160B32:406, 408
chemical indicators, 138A(2)13:698–699;
139B13:307–312
chert, 138A(1)12:367–369; 177A1:10
chronostratigraphy, 166A3:28
clasts, 112A12:255–257; 160B45:581, 583
clay, 116A5:109, 112; 120B(1)8:105; 123B41:784–786;
124B31:423–427; 129B16:295; 141A6:85;
144B17:348; 159A9:303, 305; 175A9:255;
10:294; 181A8:31; 182A6:29; 189A3:44; 190/
196B6:11–14
climate optimum, 178B34:5–6
composite section, 154A7:296–297; 154B30:460
data, 210B7:21
décollement zone, 131B32:403
deep-sea sediments, 149B46:710–711; 185B7:5
deformation bands, 141B2:19
deposition, 166A3:34–35, 38–40
dissolution, 181A8:31–32
dissolved chloride, 175A17:552–553
dissolved organic carbon, 113B13:169
dolomite, 133B45:679–680; 143B11:163–164;
161B33:425; 166A7:168; 9:255; 182B12:4–5;
201B13:1–34
dolostone, 167A(1)11:290
enrichment, 135B10:159–161
environment, 133A(1)5:149–151; 143A8:278–280
evaporites, 161B33:430–431
event stratigraphic distribution, 143B13:200–203
evidence, 143A9:347
fibrous cement, 133B21:299
fish apatite, 151B33:587
fluid flow, 141B29:365, 367–368; 205A1:11–13
forearc basins, 112A1:5
forearc wedges, 205A6:10
gases, 146A(1)6:266
geochemistry, 112B9:137; 135B42:685–688;
138B36:760; 141A6:116–118; 146B(1)25:375–
384; 154B:476–481; 157A2:24; 166B17:185,
188–194; 167B23:265–266; 168B8:99–105;
178A8:14; 180A12:39; 184B12:24; 200A3:30–34;
210B8:1–63
glauconite, 112A14:371; 150B10:178
Gortani Ridge, 107A10:881, 892–895
heavy metals, 116B13:145–147
highstands, 166B3:23–31
hydrocarbons, 151A13:412–414
hydrology, 205B6:6–7
hydrothermal alteration, 139B14:313–328
hypersaline fluids, 135A(1)11:597
ichthyoliths, 145B26:403–404
illite-smectite reaction, 190/196B6:10–12
in altered serpentinite, 149B31:540
inorganic sediments, 154B36:515–516; 168A4:80, 83;
5:135–137
iron minerals, 155B13:245–247; 14:252; 207B3:4–5
isotope stratigraphy, 120B(2)44:846, 856

- Jurassic–Lower Cretaceous interval, 129B32:608
kaolinite, 166A8:191
karst, 143B29:433–470
kerogen, 157B35:591–607
Labrador Sea, 105B9:124; 10:138–148; 11:155–156
laminations, 117A4:48; 138A(1)10:204
Lima Basin, 112A10:168; 11:168, 198–199, 202;
19:804, 808–810, 834; 112B25:432; 31:506
limestone, 143A7:207–209; 143B13:197–229, 239;
31:523–524; 144A6:225; 180B12:3
lithium, 166B9:106
lithofacies, 143B30:483–493; 144B14:283–285;
45:780–781
lithologic motifs, 173A7:168–170
lithology, 117A14:447–448; 138A(1)12:340–344;
146A(2)2:31; 150A8:219–220; 9:272;
155A8:178–180; 14:412; 15:442; 17:507; 18:541;
21:637; 161A5:131; 164A9:285, 313–314;
167A(1)4:56; 6:133–134; 10:247; 15:436–438;
16:468; 172A4:87; 5:172; 6:255–259;
175A6:150; 177A5:7; 9:6–7; 180A9:20;
183A7:211; 184A5:7–9; 186A4:20–21; 190A4:7;
8:5; 192A3:5; 196A3:18; 198A3:17–18; 4:10–15;
201A7:12; 8:12–13; 10:11–12; 202A6:7–9;
205A4:21; 207A4:6; 8:5; 208A7:6; 210A1:14;
3:24, 29, 35, 38, 50–52
Maastrichtian, 192B2:1–15
magnetic properties, 112A20:915; 117B22:390–392;
130A9:409; 130B31:527–546; 133B38:560–561;
50:753; 161A5:140; 182A1:35; 208A5:13
magnetic sulfides, 141B4:59–76
magnetite, 145B33:489; 167A(1)5:103
manganese nodules, 138B40:808–809
markers, 129B1:16
Marsili Basin, 107A6:133, 153
mass flow units, 160B37:474
matrix, 160B45:587
maturation, 139B24:447–465
mechanism, 131B4:52
metallogenesis, 145B25:392–395
methane, 146A(1)4:80–83; 151A12:389–391
methanogenesis, 164B8:82–84; 9:88–92; 22:227–228
microbially mediated reactions, 146A(1)5:188
micronodules, 199B22:8
microstylolites, 165B10:177–190
mineralogy, 145B15:244; 146B(1)15:262–263;
157B34:587
Miocene events, 133B34:508, 510–511
Miocene–Oligocene interval, 150B20:361–376
Mississippi Fan, 116A1:10
nannoconids, 171B_A3:70
natural gamma ray spectra, 195B12:6–9
New Hebrides forearc, 134B8:109–130
nitrogen isotopes, 202B1:9–10; 9:1–22
nodular structure, 133B56:793
Ontong Java Plateau, 130A10:528, 530–531
ooze, 138A(2)14:741, 743
ooze–chalk transition, 192A3:19
opal, 113B3:32; 167B32:350; 189A3:45; 6:53; 7:45;
190/196B12:4
organic carbon, 112B9:137–140; 166B17:181, 184;
199A1:14–15
organic matter, 112B9:140–145; 131B12:159–163;
15:188–189; 156B12:168; 157B34:581–589;
161B31:410; 40:513; 162A3:75; 166B17:191–
194; 167B32:344–349; 168A4:80; 6:176;
169S_B1:32, 36; 175A4:102–103; 12:370;
17:511; 180A5:31–33; 201B5:1–30; 202A4:14;
5:12; 6:14; 7:17; 8:23; 9:18; 10:17; 11:15; 12:15;
204A3:17; 205B2:6–7; 207A4:26–27; 10:7–8
overprinting, 130B33:568
oxidation, 124B13:193; 157B33:573–580; 172B2:4–6
oxygen isotopes, 192B2:5
paleoceanography, 165B18:275–283
paleoenvironment, 144B15:305–307; 195A4:19
paleotemperature, 133B19:271–274
palygorskite, 159B15:149
palynomorphs, 129B11:223
Peru margin, 112A1:16–18; 112B7:103
phosphorus, 155B31:505–517
photograph, 155A6:96; 157A4:68; 160A5:99; 7:185;
13:457; 164A6:109; 167A(1)15:438; 169A3:55;
172A3:39; 4:89; 5:167, 171, 175; 188B12:12;
192A3:74; 195A4:80; 210A3:155, 159, 162, 176,
227, 234–235
photomicrograph, 160B33:426; 37:472–475;
164A5:75; 185A4:83–84; 194A7:53; 195A4:88–
92
physical properties, 119A8:326; 201A12:25
phytoliths, 188B5:7
Pigafetta Basin, 129B3:91
Pisco Basin W, 112A18:706, 711–713, 736
placoliths, 183B8:7
Pliocene, 133B36:532–533
polycyclic aromatic hydrocarbons, 155B35:555–564
pore water, 129B14:267–281; 131B13:165–174;
31:389; 133A(1)15:638–639; 138A(1)10:228;
(2)16:920; 17:996; 145B45:671; 146B(1)30:431–
432; 150A8:235; 10:333; 151A11:366–367;
152B26:307; 165B19:287–298; 169A4:175;
172A6:286–288; 174A_A4:123; 175A6:164;
178A8:13; 184A6:13–14; 188A3:43–47;
204A6:11; 208A4:19–20
provenance of trace elements, 160B16:202
pyroclastic rocks, 124B13:182–183
reactions, 165A3:77–79
recrystallization, 159B10:97–98
redox, 165A4:164; 165B20:308; 174A_B(synopsis):10
reefs, 144B24:439–446
remanent magnetization, 160A7:177, 179
remobilization, 162B14:201–202, 205–206
rock magnetism, 150B19:347–359; 154B11:185
Salaverry Basin, 112A12:254–255, 274; 13:328;
112B31:506
saponite, 152B34:423
sapropels, 160B3:31–33; 20:257; 22:274; 23:289
Sardinian margin, 107A8:405, 429–432; 10:751, 770,
772
sea level changes, 150X_B3:25–48
seafloor sediments, 205B7:6–7
seamounts, 195B1:6

secondary minerals, 160B32:408
 sedimentary structures, 119A14:513
 sedimentation, 146B(1)2:43; 164A7:220–221;
 167A(1)14:415; 201B5:6
 sediments, 129B14:270–271; 29:512; 130A10:534;
 131A7:275–276; 131B28:343–364; 138A(1)1:10;
 9:131; 11:285; 139A6:203–213; 7:318;
 139B46:728; 141A7:172; 10:361; 141B6:92–93;
 8:105–117; 11:153–167; 33:413; 146B(1)26:386–
 392; (2)11:145–168; 12:179; 14:210;
 150X_B4:53–55; 151A6:130–131; 8:238; 9:281–
 282; 155A17:521; 156B1:25–27; 157A1:8–9;
 157B21:367; 159B43:599; 160A12:438; 164A1:6;
 7:190; 8:247–249; 164B13:139–146;
 166A10:317; 169A4:179–181; 5:219, 221;
 169S_A2:17; 175A17:511; 175B5:4–5; 10:10;
 18:5–10; 178A4:22–23; 180A1:25–26; 6:56–59,
 258; 180B(synthesis):14; 6:19; 182A4:31;
 195A1:20; 198A7:13; 205A5:18
 seismic stratigraphy, 133B44:658; 150B16:305;
 156B9:134; 166A10:329–330; 188B10:12;
 199A4:4–6
 shallow burial vs. input, 133B16:219
 siderite and dolomite, 164A6:149
 silica, 136B6:82–83; 139B44:713; 157B38:630;
 180A9:43–44; 181A3:23–24; 4:14; 5:14; 6:20;
 186B9:7; 14:11; 188A3:59; 196A1:13; 208A6:54
 siliceous microfossils, 144A3:64; 4:125
 Site 681, 112A13:310–311
 Site 682, 112A14:371–374, 390, 398
 Site 685, 112A17:603–606, 646; 112B25:436–437
 Site 688, 112A20:881–885, 930
 Site 698, 114A5:97, 99
 Site 699, 114A6:160, 164, 193; 7:265–266;
 114B35:661; 37:689–691
 Site 700, 114A7:264–268, 274, 276
 Site 704, 114B24:448–449
 Site 737, 119A6:173; 119B18:357
 Site 739, 119A8:303
 Site 745, 119B18:369
 Site 765, 123B3:79–85
 Site 801, 129A3:107–108
 Site 802, 129B4:124
 solutes, 134A12:417–418
 stable isotopes, 141B25:313–329
 stratigraphy, 144B13:255–269
 strongly magnetic carbonate oozes, 101B23:333–338
 strontium isotopes, 144B25:451–454; 152B17:236–
 237; 192B3:4–7
 subaerial weathering, 144A5:164
 subduction, 190/196B3:3
 submarine ferromanganese hardgrounds, 194B8:6
 sulfate reduction, 112B7:100–101; 164B9:93, 95;
 174A_A3:73–74; 178A5:19–20
 sulfates, 161B32:417
 sulfur isotopes, 146B(2)16:227–228
 Sulu Sea, 124A11:220, 241
 temperature, 159B8:74–76; 196A1:4
 tephrochronology, 181B1:24
 thin layers, 133B46:688–689
 Tithonian, 129B32:593

total organic carbon/total nitrogen ratio, 205B7:6–8
 Trujillo Basin, 112A16:531–537, 562; 112B31:506
 tuffs, 129B5:128
 tunicate spicules, 133B28:448–449
 turbidites, 123B5:120, 125–126; 131B2:18;
 139B7:105–111; 157B32:559–571; 168A4:83–84
 unconformities, 150A8:243
 upper Paleogene interval, 129B3:91
 volcanics, 112B28:469; 124B36:493–495, 499–501;
 131B14:175–183; 190/196B2:3–9; 201B19:8
 volcanoclastics, 134A13:508; 195A4:35–36
 volcanism, 124B36:494; 157A2:16–17
 vs. depth, 150A8:234
 well-logging, 114B34:653–655; 166A10:324
 Yaquina Basin, 112A15:447–449, 474–475
 zeolites, 124B31:421–423
 zoning, 124B36:491–492; 164B30:306–307
See also alteration; authigenesis; calcification; calciti-
 zation; calcretization; carbonate solution; cata-
 genesis; cementation; chalkification;
 chertification; chloritization; color staining;
 compaction; compression; consolidation; disso-
 lution; dolomitization; glauconitization; hydro-
 thermal activity; hydrothermal alteration;
 illitization; induration; laterization; lithifica-
 tion; magnetic diagenesis; metamorphism; min-
 eralization; neoformation; neomorphism; ooze-
 chalk transition; oxidation; pyritization; recryst-
 tallization; reduction; remineralization; replace-
 ment; reprecipitation; sideritization; silica
 diagenesis; silicification; sulfidization
 diagenesis, anaerobic, organic matter, 202B9:5–6
 diagenesis, burial
 aragonite recrystallization, 115B35:656
 biogenic sediments, 117B11:231, 234, 237–238
 calcium carbonate cementation, 115B35:656
 clay mineralogy, 117B11:237
 fabric transformations, 117B11:234–237
 magnetic susceptibility, 115B41:755, 758, 760, 765,
 767
 mechanical compaction, 117B11:221, 236–237
 organic content, 117B11:229
 particle orientation, 117B11:231
 porosity, 130B39:655–656
 strontium in carbonates, 115B35:649, 654; 36:667
 stylolites, 130B26:445–446
 terrigenous sediments, 117B11:221, 231, 234, 238
 diagenesis, carbon-related, sediments, 188B1:19–20
 diagenesis, carbonate
 carbonate precipitation, 127/128B(1)40:702
 magnesium, 128A4:174
 pore water oxygen isotopes, 127/128B(1)40:701–702
 diagenesis, differential, unconformities, 132B1:9
 diagenesis, early
 acetogenesis, 204B17:5
 gas hydrates, 204B15:19–20
 organic matter, 172A3:60–63; 4:123, 125; 5:218, 221–
 225; 6:281, 285–286; 204A10:14–15
 sediments, 155B30:497–504; 41:672; 172A4:118
 diagenesis, marine, alteration, 166A3:39
 diagenesis, meteoric, Miocene, 133B34:509

- diagenesis, postburial, sediments, 192A3:18–21; 6:11
- diagenesis, postdepositional
 lithology, 202A9:11
 sediments, 182A1:15–16
- diagenesis, progressive in situ, fluid flow, 190A1:9
- diagenesis, reductive, 165A5:252, 258
- diagenesis, shallow-burial
 carbonates, 101B20:279–301
 periplatform sediments, 101B20:295, 299–300
- diagenesis, silica-related, sediments, 188B1:18–19
- diagenesis, skeletal, lithofacies, 144B14:284–285
- diagenesis, thermal
 Cretaceous, 159B7:53–70
 photograph, 159B7:68–70
- diagenesis, vadose
 Cretaceous, 143B9:120
 photomicrograph, 194A4:41
- diagenesis bioreactor, black shale, 207A4:24–26
- diagenetic crusts
 lithology, 155A9:204; 11:277
See also iron crusts
- diagenetic features, photograph, 192A3:71, 76
- diagenetic fronts
 geochemistry, 131A6:133
 lithofacies, 155A4:80–81
 opal-CT, 150B20:365
 physical property correlation, 119B9:363
 upward movement, 119B18:372
- diagenetic halos. *See* halos
- diallage textures. *See* textures, diallage
- diamagnetic minerals, sediments, 175B8:4
- diamagnetism
 magnetostratigraphy, 166A10:310
 sediments, 101A4:39; 166A11:359–360
 Straits of Florida, 101A5:68–69
- diameter, mean bulk, vs. depth, 201B14:22, 23
- diamict
 gamma ray vs. magnetic susceptibility, 178A9:16
 Koenigsberger ratio, 178B31:8
 lithology, 178A4:5–8, 11–13; 7:8; 178B25:4–6
 micromorphology, 178A6:17–18; 9:18–19
 photomicrograph, 178A9:64
 porosity, 178B30:5–7
 sediments, 178B(synthesis):14–15
 smear slides, 178A9:16–17
See also massive diamict facies; stratified diamict facies
- diamict, chaotically bedded, photograph, 178A9:46
- diamict, graded
 lithofacies, 178A6:5
 photograph, 178A6:37–38
- diamict, laminated, photomicrograph, 178A6:55
- diamict, massive
 lithology, 178A6:4–5; 9:5–6
 photograph, 178A6:31–34; 9:45
- diamict, stratified
 lithofacies, 178A6:5
 photograph, 178A6:39; 9:46
- diamict facies
 lithology, 178A8:7
 photograph, 178A8:39
- diamictites
 argon isotopes, 178B22:1–26
 backscattered electron photomicrograph, 178B22:16
 clasts, 119A8:302; 178A9:47
 clay content, 119B14:281
 clay-rich composition, 119B14:286–287
 definition, 119B6:88
 density, 119A11:437
 depocenters, 119B48:884
 deposition, 188A4:17
 distal–proximal glaciomarine transition, 119B6:107
 Eocene–Oligocene interval, 119A11:447; 119B48:888
 glacial deposits, 113B53:953
 grain size and meltwater activity, 119B6:120–121
 gravel petrography, 119A11:452–454; 119B6:81
 intersite correlation, 119A11:442
 Leg 119, 120B(2):56:1010–1011
 lithofacies, 178A1:14–15
 lithology, 119B46:838; 141A7:165–170; 178A9:6–7; 188A4:12; 197A4:8–9
 magnetic properties, 119B43:760
 magnetic reversals, 197B1:6
 McMurdo Sound sediment comparison, 119B6:121
 microstructures, 141B2:13–26
 mixing with preglacial sediments, 119B6:118
 mollusk shells, 119B41:739
 Oligocene, 119B48:880, 883–884, 888
 organic matter, 119B22:411
 overconsolidation, 119B9:174
 photograph, 141A8:249
 physical properties, 119A8:328–330; 24:434; 119B8:147–149, 157; 19:385
 Pliocene–Quaternary interval, 119B48:882
 porosity and clay content, 119B14:285
 reworking, 119B6:132
 sedimentation, 141B31:380–388; 188A1:9–11
 seismic profiles, 119A11:443–444
 silica content, 119B19:388
 Site 739, 119A8:290, 295–296, 299–302
 Site 740, 119B19:383
 Site 742, 119A11:442; 20:397, 403–405, 410–412; 119B14:280
 soft vs. overconsolidated strength, 119B8:154–155
 sources, 119B5:74
 textural classification, 119B6:90
 velocity, 119A11:441–442
 weathered source rocks, 119B48:876
See also diamicton
- diamictites, massive
 deposition, 119B14:285
 genetic classification, 119B6:103, 107
 grain size, 119B6:90
 gravel content, 119B6:127–128
 Prydz Bay, 119A8:301–302; 119B6:88, 93, 95, 126–129
 velocity, 119B2:31
- diamictites, weakly stratified
 deposition, 119B6:107
 mottling, 119B6:129
 Prydz Bay, 119B6:88–89, 95, 127–129
- diamictites, well-stratified
 deposition, 119B6:107

- Prydz Bay, 119A8:301–302; 11:408; 119B6:89, 127–129
- diamicton
- definition, 119B6:88
 - deglaciation, 178B34:4
 - distal–proximal glaciomarine environment, 119B6:107
 - flat-lying sequence, 119B6:107
 - geology, 188A1:8
 - glacial deposition, 119A12:463; 178B34:3–4
 - glaciomarine sediments, 163X_A8:3
 - grain fabrics, 119B6:91–92
 - lithology, 152A6:57–62; 7:76; 8:92–93; 10:167–16; 11:195–196; 163X_A4:6–12; 5:4; 6:5–19; 7:4; 171B_A4:105; 188A4:9–11; 5:8–11; 188B1:4; 195A3:11–12
 - organic carbon content, 119B6:113
 - photograph, 152A6:60; 8:93; 188A4:52; 195A3:69–70
 - photomicrograph, 163X_A6:36
 - physical properties, 119A8:325; 119B8:147–158
 - Prydz Bay, 119A8:296; 11:403; 12:462; 119B6:88
 - seismic units, 188B8:9–10
 - textural classification, 119B6:88
 - X-ray diffraction data, 188A4:15–16
 - X-ray radiography, 178B10:21
 - See also* diamictites
- diamicton, massive
- debris flow deposits, 119B6:107
 - genetic classification, 119B6:103
 - gravel content, 119B6:126
 - Prydz Bay, 119B6:93, 127–128
- diamicton, stratified, Prydz Bay, 119A8:303
- diamicton, unconsolidated, Pleistocene, 119B6:94
- diamicton, underconsolidated, tests, 119B9:174
- diamicts. *See* diamict; diamictites; diamicton
- diancistrans, Kerguelen Plateau central, 120B(2)43:834
- diamond coring system
- assembly, 124E_A2:15–19; 132A6:149–151
 - auxiliary equipment, 132A6:146–148
 - backoff sub, 132A7:188–199
 - casing hanger/landing seat, 132A7:185–188
 - compared with known systems, 124E_A5:41–44
 - configuration, 132A5:127
 - control panel, 132A6:144
 - deployment, 124E_A2:15–35; 4:37–38; 132A6:152–158
 - derrick modification, 132A6:149
 - description, 132A6:139–238
 - design, 142A8:249–264
 - drilling equipment, 124E_A2:19–21
 - drilling fluid system, 132A6:148
 - electrical system, 132A6:150
 - evaluation, 124E_A2:30–34; 4:37–40; 132A6:158–160
 - future considerations, 132A6:161–162
 - heave-compensation hardware, 124E_A2:19–22
 - hydraulic power system, 132A6:145–146
 - hydril tubing string, 132A6:148
 - Lingayen Gulf, 124E_A13:84
 - Luzon Strait, 124E_A14:93, 95
 - modifications, 132A6:151–152; 7:177–185; 9:225–238
 - mud pumps, 132A6:145
 - operational data, 124E_A4:38–39
 - Pacific Ocean W, 132A1:5–21
 - Philippine Sea, 124E_A1:5
 - racking-board hardware, 124E_A2:22–23
 - recommended modifications, 132A6:160–161
 - roller cone bits, 132A8:211–224
 - safety study, 132A6:148
 - seafloor component hardware, 132A7:163–210
 - secondary heave compensation, 132A6:145
 - Site 864, 142A5:103–114
 - subsea hardware, 132A6:149
 - summary, 124E_A9:59
 - tapered stress joint, 132A7:199
 - tensioning tool, 132A7:199–202
 - testing, 124E_A2:15–35
 - time analysis, 124E_A2:34–35; 4:40
 - wireline core barrel system, 132A6:149
- diapiric extrusion, serpentinite breccia, 149B35:572
- diapiric structures
- mantle, 147B19:354
 - mud volcanoes, 160B46:597–605
 - plate boundary, 160B54:731
 - structural data, 160A11:383–385
- diapirism
- boninite genesis, 125B38:647–648
 - fracture zones, 177A1:5
 - geology, 160A11:378–379
 - mechanisms, 125B36:611
 - mud domes, 160A1:10–14
 - mud volcanism, 160B50:675–678
 - peridotite formation, 125B36:611
 - plate tectonics, 149B25:438–440
 - seamounts, 125A5:88
 - sedimentary cover, 161B44:563
 - serpentinites, 147A1:13; 153B1:17; 3:52
 - suprasubduction zones, 125B36:611
 - tectonic rotation, 147B28:472–473
 - See also* mud diapirism; mud volcanism
- diapirism, serpentine
- blueschist uplifts, 125B25:426
 - buoyancy halokinesis, 125B20:363
 - Izu-Bonin forearc, 125A4:81
 - mantle diapirs, 125B27:458
 - organic acids, 125B22:387
 - petrogenetic model, 125B27:465
 - physical properties, 125A9:148
 - structure, 125B20:370
- diapirlike structures, seismic lines, 130A4:85
- diapirs
- echograms, 164A8:251
 - geology, 164A1:9–10; 5:79–80
 - origin, 164A8:272
 - paleotemperature, 159B7:64
 - photograph, 170A4:116
 - rock magnetism, 164B38:401–409
 - salinity, 164B1:5–7
 - seafloor pockmarks, 164A8:270–272
 - side-scan sonar, 164A5:67
- diaspore
- hydrothermal alteration, 193B1:16
 - secondary minerals, 142B9:71

- diasteranes, biomarkers, 151B23:412
diasterenes
 Baffin Bay, 105B15:235
 biomarkers, 151B23:412
 sediments, 139B15:339; 141B9:126–129; 151B23:409
diatexite, photomicrograph, 161B23:313
diatom abundance index
 millennial-scale variations, 202A1:116
 sediments, 175B(synthesis):73, 89–90
 vs. age, 164B35:376; 175A17:517; 175B11:20; 21:23
 vs. depth, 175A4:97; 5:125; 9:246; 10:291; 12:363;
 17:512; 184B6:8–9
 vs. oxygen isotopes, 175B21:23
 vs. sedimentation rates, 164B35:375
diatom-bearing clay. *See* clay, diatom-bearing
diatom bioevents
 age estimates, 138B7:107
 Atlantic Ocean E tropical, 108A(1):21–22
 Broken Ridge, 121B7:173–175
 calibration to magnetostratigraphy, 138B7:119–125
 chart, 204A4:59; 7:34
 sample and depth constraints, 138A(1)9:145;
 (2)13:704–705; 14:766–767; 15:833; 16:920–
 921; 17:986; 138B7:108–117
diatom clayey siltstone. *See* siltstone, diatom clayey
diatom claystone. *See* claystone, diatom
diatom datum levels
 age and stratigraphy, 145A3:50; 5:140–141; 6:231;
 7:310; 8:346
 biostratigraphy, 178A4:123–124; 8:66
 Broken Ridge, 121B7:179, 191
 depths, 167B3:93; 178A5:142
 Japan Sea, 127/128B(1)15:251, 258–259
 magnetostratigraphy, 186A4:35
 Mascarene Plateau, 115A5:263; 6:417; 7:483; 8:611;
 10:751; 11:859; 115B23:421
 middle Miocene, 205B1:15
 Miocene, 167B3:99–103
 Neogene, 186A1:13; 186B2:1–38
 Pacific Ocean N, 145B1:6–9, 13–16; 146B(1)4:64;
 24:370
 Pleistocene, 167B3:103
 Pliocene, 167B3:103
 sedimentation rates, 178A4:172
 stratigraphy, 186A5:111; 199B6:22
 Weddell Sea, 113B43:771, 774
diatom events. *See* diatom bioevents
diatom frustules
 Cenozoic, 134B14:309
 dolomite, 201B13:5–6
 lithology, 160A12:423; 175A5:119; 185A4:11–12;
 201A8:9
 photomicrograph, 201B13:23–26
 smear slides, 188A3:16–17
 structure, 127A4:137
 textures, 201B14:7–11
 See also frustules
diatom ghosts, petrography, 150X_B3:27
diatom mats
 laminations, 138B31:657
 lithology, 177A1:22; 6:5–6; 8:7–8
 mass accumulation rates, 206B2:9–10
 paleoecology, 160B28:357–358
 photograph, 177A1:50; 6:24; 8:38–40; 206A3:127
 preservation, 160B11:144–145
 sedimentation rates, 177A6:10
 sedimentology, 138B32:668
 stratigraphy, 177A6:12
diatom mats, laminated, geochemistry, 206B3:1–26
diatom maximum event, Zone RP15, 199B24:7–8
diatom number
 dark–light cycles, 127/128B(1)33:579, 588
 Site 797, 127/128B(1)33:593
diatom ooze. *See* ooze, diatom
diatom-ooze laminae, postglacial sediments, 178B18:4–5
diatom/radiolarian ratio, 199B24:17
diatom valves
 sediments, 186B15:37–38
 vs. depth, 144B3:63–67, 72
 vs. silica/aluminum oxide ratio, 186B15:21
diatom zones, 170A3:63; 4:118; 5:165; 6:202; 7:232
diatomaceous clay. *See* clay, diatomaceous
diatomaceous facies, vs. depth, 178A4:50
diatomites
 faults, 159B1:4–5
 lithology, 145A6:216–217; 159A5:77–80;
 167A(1)4:56; 5:90; 170A4:106–108; 177A8:8;
 10:247; 12:320; 201A7:8–10; 206A3:24–26
 Oman margin correlation, 117A16:500
 photograph, 159A5:79; 167A(1)5:93
 Prydz Bay, 119A11:405, 409, 412; 119B6:89, 130
 Site 688, 112A20:877
 Site 701, 114A8:377, 388
 Site 704, 114B25:465, 468, 472
 Tyrrhenian Sea, 107B31:505
diatomites, clayey
 lithology, 145A6:216; 167A(1)5:90; 16:468;
 170A4:104, 106
 quinones, 205B8:19
diatomites, laminated, 159B18:184–185
diatomites, nannofossil, 167A(1)5:90; 171B_A4:100
diatoms
 abundance, 104A6:627–628, 635–636; 105B19:306;
 21:351–353; 108A(1)1:23; 108B9:144–146;
 10:149–156; 113A5:116–117; 6:221–222; 7:309;
 8:361–363; 9:472–473, 476; 10:548–551;
 11:638–639; 12:718–721, 724–725; 113B43:769–
 781, 784; 114A6:168; 7:275; 8:384; 9:501;
 10:563; 114B5:110–118; 6:125–133; 33:614,
 618, 621, 624–625, 640–646; 34:651; 41:756–
 757, 760–777; 115B23:425; 31:595;
 116B19:239–241; 117A12:411; 119B30:604;
 34:651–652; 127/128B(1)33:591; (2)78:1230–
 1232; 145A3:42; 5:128; 7:307; 155B21:370;
 175A3:69; 4:97; 5:125; 9:250–251; 10:290;
 11:323; 12:362; 17:518; 175B23:29; 178A7:42;
 178B7:25–26; 25:6–7; 181A3:92–93; 4:61; 5:58;
 6:123–126; 7:142–149; 8:112–115; 183B9:43;
 185B2:3, 18–22; 189A7:121–124; 201B16:15
 abundance and preservation, 127A4:97; 5:192–193;
 6:271–272; 7:351; 127/128B(1)17:312, 314;

- 20:344–349, 352; 33:593; (2)77:1219; 128A1:28;
 4:159–161; 5:99–303
- age, 113B43:767; 52:927–935; 114B6:125, 134–136;
 127A6:271; 127/128B(2)83:1335; 128A3:69;
 181A5:36; 186B2:25–31; 201B16:15
- alteration, 186B14:10
- assemblages, 105B19:308; 108B10:151–152;
 113B25:378; 114A5:105; 6:126–127, 134, 166
- Atlantic Ocean, 105B19:307; 20:335
- austral spring bloom, 119B34:660–661; 35:671
- benthic vs. freshwater taxa, 115B23:425
- bioevents, 167A(1)12:329; 167B32:367, 369;
 189A5:29, 140; 6:150; 7:125; 199A1:80;
 199B24:14
- biogenic sediments, 201B14:8
- biostratigraphic datums, 167A(1)4:65; 5:100;
 181A8:116; 186A5:111; 188A4:102; 191B2:20
- biostratigraphic ranges, 151A5:70; 167A(1)4:60–64;
 5:98–99; 7:140, 164; 8:190–192; 9:230; 10:252–
 255; 11:296; 12:326–329; 14:401–404; 15:443–
 444; 16:472
- biostratigraphy, 105B19:305–309; 20:328–333;
 50:952; 108B3:24, 26, 29–33; 113A5:110–111;
 6:217–218; 7:311; 8:366–367; 9:474–475;
 10:552–553; 11:633–635; 12:722–723;
 113B43:775, 778–782; 52:926–934; 114A6:172–
 173; 8:384–387; 10:565–566; 11:645–646;
 115A2:29, 32; 4:137; 5:252; 6:412; 7:474; 8:602;
 9:669; 10:746; 11:856; 12:925; 13:1011;
 115B23:416–423; 119A5:134; 6:174–176, 179–
 180; 7:248–252; 8:304–305; 9:356; 10:383–384;
 11:413–414; 12:465; 13:485–488; 14:514–515;
 119B29:552–554, 557–559, 565, 573–579;
 41:743–744; 46:824; 124A10:145; 11:223, 225;
 12:315, 318; 13:350, 353; 14:406; 124B2:13–19,
 23, 26; 29:389; 125A7:120; 8:153; 9:183; 10:205;
 11:256; 12:277–278; 13:309; 14:320;
 130A9:405–406; 130B30:511–513;
 138A(1)9:139–142; (2)13:691–692; 14:745, 748;
 16:907, 909; 17:984–985; 18:1031–1032;
 19:1071; 138B7:105–128; 141A6:88–89; 7:174–
 175; 8:253, 255; 9:316; 10:363; 145B1:3–19;
 2:21–41; 37:560–574; 146B(1)4:63–77; 24:369–
 374; 150A6:82–84; 7:154–156; 8:225–226;
 A9:278; 10:323; 150B2:17–35; 150X_A1:26;
 151A5:69–70; 6:122–123; 7:173; 8:230; 10:328;
 11:360, 362; 14:630; 151B4:61–99; 35:630;
 152B15:209–219; 154B33:484; 160A12:435;
 162A3:69; 4:111; 5:153; 6:187–188; 7:239–240;
 8:269; 9:304; 10:357; 162B9:138–139, 142;
 164B35:365–376; 167A(1)4:59; 5:101; 6:139;
 7:163; 8:185–186; 9:229; 10:249, 251; 11:293;
 12:323; 13:362, 364; 14:398–440; 16:470;
 167B33:63–110; 6:119–125; 32:364; 170A3:65–
 69; 4:121–122; 5:164–166; 6:199–200; 7:230–
 231; 170B2:1–22; 172A3:43–44; 4:97; 5:183–
 184; 6:262; 172B8:1–49; 174AXS_A3:44;
 175A3:67, 69; 4:95, 98; 5:123, 126; 6:158–159;
 7:183; 8:209; 9:250–251; 10:288–291; 11:320;
 12:359, 362–363; 13:404, 406; 14:442; 15:468;
 177A1:22–23; 3:9; 4:12–13; 5:13–15; 6:9–10;
 7:9–11; 8:11–13; 9:10–11; 177B10:1–14;
 178A4:13–15; 5:12–13; 6:8–9, 43; 7:10–11; 9:11,
 51; 178B35:1–57; 181A3:14; 4:12, 14; 5:1–14;
 6:16–17; 7:21–22; 8:20; 9:14–15; 182B2:1–24;
 183A5:9–10; 6:21–22; 7:9–11; 8:6–9; 183B6:15;
 184B6:1–9; 185B2:1–31; 186A4:24–26; 5:19–21;
 186B2:1–38; 188A3:30–36; 4:20–24; 5:17–18;
 188B6:1–25; 189A1:36; 3:30–31; 4:14–15; 5:29–
 30; 6:35–36; 7:31–32; 191B1:3, 16; 2:1–34;
 199B6:1–25; 201B16:3, 5, 18; 202A3:10–11;
 4:10; 5:10; 6:10–11; 7:14–15; 8:19–20; 9:15–17;
 10:14–15; 11:12–13; 12:13; 13:11–12;
 204A3:10–11; 4:11–12; 5:6; 6:8; 7:8; 8:10; 9:9;
 10:11; 11:9; 204B6:1–10; 210A3:88
- borehole fluids, 137A2:38–39
- Brunhes–Matuyama Chron, 114A8:385
- burrowed vs. nonburrowed intervals, 119A6:180
- calcareous oozes, 108A(2)12:842
- Campanian, 121B7:199
- Campanian/Maastrichtian boundary, 108B4:39
- carbon isotopes, 115B31:603
- carbonate concretion, 127A7:351
- Cenozoic, 115B23:412, 413; 116A6:163; 151B29:483–
 492; 181B1:18–19
- changes, 145B21:322
- chlorophyll *a*, 119B34:656–663; 35:672
- circum-Antarctic opal belt, 177A1:9
- clayey sediments, 119B35:672
- climate optimum, 178B34:5–6
- color reflectance, 167A(1)10:264; 12:342; 178B3:6–7
- concentration, 175B10:30
- continental signal, 175B11:10–11
- correlation, 145B34:503
- Cretaceous, 121A13:488
- cyclic processes, 108A(1)7:495; 8:562, 564; 108B3:32;
 117A10:293, 295; 127/128B(1)32:568, 584;
 138B29:629; 178B25:7
- dating, 113B25:365–368; 26:404–405
- deep-sea hiatuses, 115B23:423–424
- density, 127/128B(2)80:1278–1279
- deposition, 138B1:11–13; 175A17:527–528
- depths, 105A5:445, 449–450; 6:698, 704–705
- diachronous occurrences, 127/128B(1)17:309
- diagenetic dolomite, 201B13:5–8
- dissolution, 114B37:690, 692, 701; 115B23:424; 127/
 128B(1)17:309–316, 341–342, 353; 77:1220;
 181A6:30; 9:15
- distribution, 108B10:151–152; 119B34:651–655, 661–
 663; 172A3:43; 4:97; 5:184; 6:262; 177A3:55–
 56; 5:83–88; 6:67–72; 7:60–71; 8:88–92; 9:63–
 64; 178B7:351; 186A4:186–189; 5:106–110;
 186B3:15–16; 188B6:20–22; 189A3:143–144;
 202A3:49–50; 4:70; 5:58–59; 6:61–62; 8:94–97;
 9:92–95; 10:86–87; 11:73–74; 12:93–96; 13:69
- electron microscopy, 160B28:355, 357, 361–363
- empty/full ratio, 119B34:650–652, 655, 663; 35:670–
 671
- Eocene, 121A7:179; 13:476; 189B10:3
- Eocene–Oligocene transition, 189A5:74; 189B1:15
- Eocene/Paleocene boundary, 121A6:130
- Eocene–Paleocene interval, 121A6:129

extraction curve, 167B14:204
 first and last occurrences, 113B52:918; 178A5:104–105
 flaky accretions, 114B37:694–695, 709–710
 foraminiferal correlation, 127/128B(1)12:188–189, 222–223
 Fourier analysis, 130B30:513–517
 freshwater taxa, 115B24:439; 128A5:249
 frustules, 150B20:369
 Gauss Chron, 114A8:385
 geochemistry, 138B36:763
 geomagnetic polarity pattern, 113B52:917, 921–924
 glaciation, 120B(1)12:175
 group abundance, 167B3:99
 habitat, 172B8:35
 hiatuses, 114A8:387; 9:497; 11:646; 114B20:361
 high-fertility belt, 115B23:427–430
 high-productivity correlation, 119B30:603
 indicator species, 115B24:458
 inner vs. outer bay, 119B34:662; 35:671
 integrated abundances, 119B34:648–651
 internal porosity, 127/128B(2)80:1277
 intra-annual variability, 169S_B1:3–10
 isotopes, 114B9:195
 Japan Sea, 127/128B(1)21:363
 Kerguelen Plateau, 119B29:549–550
 Kita-Yamato Bank, 128A5:249
 Labrador Sea, 105B50:937, 939–941
 laminated diatom ooze, 138B31:647–648
 large- vs. small-celled taxa, 119B34:662–663; 35:669
 Leg 127, 127A1:19–20
 Leg 128, 128A1:28
 lithology, 138A(1)10:192–208; 150A6:72–75;
 159A8:264–266; 164A5:78; 6:110; 7:180–182;
 8:245–246; 9:284; 165A4:142; 7:363, 366–370;
 165B4:87; 166A8:178; 167A(1)4:56; 6:134;
 10:247; 11:289–291; 12:318–320; 13:359;
 14:395; 15:437–438; 16:465–468; 169A5:208;
 170A4:103–106; 5:195; 7:220–221;
 171B_A6:246; 7:323; 172A3:38; 4:91; 5:164–165,
 168–174; 6:255–258; 174A_A3:58;
 174AX_A1:18; 175A4:89, 91; 5:117, 119; 8:205;
 9:231–233; 10:276, 281; 11:315–317; 12:344–345;
 13:395; 177A1:20–22; 3:4–5; 5:6–7; 8:7–8;
 178A5:5; 7:4–10; 181A1:19–20; 5:5–6; 9:4–6;
 182A6:9; 183A5:4–5; 184A6:5; 7:6; 185A4:15–16;
 186A1:9–10; 5:13; 188A3:13–14; 4:9–11;
 189A4:7; 5:11–12; 6:12–15; 190A6:6; 191A4:10–13;
 197A3:7–9; 198A3:12–13; 4:10–12; 8:8; 9:9–10;
 199A1:60; 11:8; 12:10–12; 13:7–8; 201A6:9;
 8:9–10, 13; 9:7–11; 11:8–10; 202A5:6–8; 6:6;
 7:6–7; 8:7–9; 10:6–10; 11:6–10; 12:8–10; 13:6–9;
 204A3:4–8; 4:5–11; 5:3–4; 6:3–8; 8:6–8; 10:6–7;
 11:3–5; 206A1:23; 3:23–24; 207A7:4
 location, 113B25:368
 low density, 119A5:156; 171A_B3:6
 Maastrichtian–middle Eocene interval, 189B10:3
 magnetobiochronology, 178B36:3–4
 magnetostratigraphy, 108A(1)2:20; 108B3:33;
 119B29:559, 565, 573–575, 588–589;
 121B7:172–173

marine signal, 175B11:9
 Mascarene Plateau, 115B23:413–415
 mass accumulation rates, 175B11:21–24; 18:20
 Matuyama Chron, 175B(synthesis):33–35
 microfossil studies, 104A4:114–116, 133, 146–152;
 104B39:785
 middle Pliocene, 167B4:111–113
 Miocene, 114A7:361; 11:637; 114B33:646;
 119A13:487; 119B29:559, 565; 174AX_A1:39–41;
 174AXS_A5:48; 7:24; 183B9:44
 Miocene–Pleistocene interval, 183B1:23–24
 Miocene/Pliocene boundary, 119A14:515; 15:542–543;
 119B29:559; 127A4:97; 5:193; 6:272; 7:351
 Miocene–Quaternary interval, 125B5:91–94
 monsoon circulation effects, 108B9:143, 146
 Nazareth Bank, 115B23:412–413
 Neogene, 114A6:172–173; 10:564; 115B20:317;
 23:425–430; 119A7:252; 121A13:487–488;
 121B8:192; 138B23:521; 144B3:61–85;
 145B16:248; 150X_B13:161–165; 159A9:308;
 177A1:15; 178B29:1–25; 183B9:1–53; 189B1:18;
 198A1:17–19; 3:2–4; 198B1:14–17
 neritic environment, 189B10:4
 Norwegian–Greenland Sea, 105B19:307; 20:327–328
 occurrence, 105B19:310–313; 20:330–337;
 125B37:617; 160A12:445; 160B28:356;
 174AX_A1:40–41; 174AXS_A7:60–62;
 177A4:71–79; 207B5:1–5
 oceanography, 169S_A2:15–16
 Oligocene, 114A10:566; 119B41:743–744; 183B5:4–7
 Oligocene/Miocene boundary, 119A8:305;
 119B41:744; 121B7:199
 Oligocene–Miocene interval, 121B8:195–197, 212–213;
 183B6:1–21
 Oman margin, 117A4:43, 45
 opal, 127/128B(1)1:3; 160B27:338; 175B(synthesis):82–83;
 4:1–16; 177B(synthesis):21
 opaline taxa, 113B25:366, 378
 origin, 113B26:411–412
 Pacific Ocean, 105B19:307; 20:335; 108A12:842
 pack ice effect, 119B34:663
 paleoceanography, 138B30:641–645; 167B32:369–370;
 177A6:10; 186B3:1–21
 Paleocene–Eocene interval, 121B7:171–178
 paleoclimatology, 145B3:43–53; 175B(synthesis):43–44;
 178B7:3–4, 6; 25:9; 192A3:17–18
 paleoecology, 105B20:333–334; 115B24:435–439;
 160B28:357–358; 172B8:3–15, 19
 paleoenvironment, 104A4:114–118, 148–152; 5:471–472;
 6:627; 105B19:308–309, 312; 114A6:198;
 7:387; 9:515; 121A12:375–376; 127/
 128B(1)20:341–342; 177A5:15; 178A7:9, 82;
 181A3:17–18; 4:14; 5:14; 6:19–20; 7:26; 8:23;
 9:16; 183B9:14; 189A5:16
 Paleogene, 115B23:428; 24:435–438, 442–448, 452–456;
 121A13:488; 152B19:249–250; 199B1:7
 paleomagnetic correlation, 114A5:109; 6:167; 7:272;
 8:379–380; 9:494; 10:564; 11:640–641;
 115B23:419
 percentage abundance, 138A(1)10:198; 167B4:112;
 178B12:16, 23, 29

perforate process, 113B25:369, 380
 phosphate, 172B8:4
 photograph, 146A(1)4:64; 5:149; 7:314; 150B20:369–370; 160A12:426; 164B23:236; 171B_A5:188; 202A11:42; 13:40; 205A4:75, 81
 photomicrograph, 178B35:25–57; 183B6:18–21; 9:50–53; 185A4:83; 188A3:93; 191A4:62; 205A5:51; 6:29
 physical-biological relationship, 119B34:651, 663
 physical properties, 120B(1)13:187
 plankton, 119B35:669, 673–675
 plate tectonics, 115B23:430
 Pleistocene, 162B4:51–62
 Pleistocene–Holocene interval, 119A6:191–194
 Pleistocene/Miocene boundary, 116A6:163
 Pliocene, 114A11:646; 114B20:361; 116A4:55; 116B20:243
 Pliocene–Miocene interval, 114A10:566
 Pliocene/Pleistocene boundary, 116A5:101; 116B19:239; 125A12:277; 127A4:97; 7:351
 Pliocene–Pleistocene interval, 175B(synthesis):27–28; 177B11:1–10; 183B9:45–46
 Pliocene–Quaternary interval, 119A6:179; 119B29:558; 121B7:190–195, 209–211
 post-Gauss productivity, 175B(synthesis):25–27
 pre-Quaternary productivity, 175B(synthesis):25–27
 preservation, 104A4:114–116, 148–152; 5:471; 6:627; 7:760–761; 114A7:274, 276; 10:566; 114B6:126–134; 31:593; 115B24:434; 121A12:375; 121B13:263–264, 268–269; 167B3:100; 177A4:45; 178A7:5; 7:7; 178B30:4; 183B9:5–6
 principal component analysis, 119B34:660, 663, 665; 186B3:5–6, 12, 14, 17–21
 productivity, 115B23:426–427; 117A10:304; 127A6:274; 127/128B(1)20:342; 128A4:122; 138B35:749–750; 175B18:5–8; 21:6–10; 178A7:10; 181A4:8
 provenance, 181A6:60
 Prydz Bay, 119B6:112
 pseudolocate structure, 113B25:379–380
 punctate-haplo process, 113B25:368–369
 pyritized taxa, 113B25:366; 116B20:243–247
 Quaternary, 119A7:261; 8:315; 146B(2)16:223–249; 178A2:14
 Quaternary/Pliocene boundary, 127A5:192; 6:271
 radiolarian age comparison, 146B(1)24:370–373
 range chart, 170A3:66–67; 4:122; 5:168; 6:203; 7:231; 199B6:15
 recrystallization, 121B14:271
 relative abundance, 189A4:53; 5:136–139; 6:145–149
 reworked taxa, 105B19:308; 114A10:566; 119B29:579; 41:744; 127A4:97; 5:192–193; 6:273; 127/128B(1)15:250; 188B6:23–24
 rhyncho-shaped process, 113B25:369
 sapropels, 160B3:34; 27:335, 340
 scanning electron microscopy, 127/128B(1)1:28–29; 31:548, 554; 80:1292–1293; 178B18:15–16
 scissurate-haplo process, 113B25:369, 379–381
 sea-ice expansion, 113B53:956–957
 sedimentation, 108A(1)7:497; 8:120, 122; 114B6:127, 134; 178A1:15–17

sediments, 119B30:601; 130B38:642–649; 138B29:635; 141B34:417–419; 146A(1)5:144, 148; 175B(synthesis):87; 5:8–9; 10:8–10; 11:7–8; 21:27–31; 178B15:4–5; 189A5:68–69; 199B24:1–19; 205A6:8
 sequential changes, 119B34:662–663
 silica, 127A7:362–363; 154B33:483–490; 157B36:609–6
 siliceous allochems, 149A5:125; 6:156; 7:221
 siliceous deposition, 108B3:33
 siphon-shaped process, 113B25:369
 Site 112, 105B20:339
 Site 646, 105A5:448, 451
 Site 647, 105A6:702
 Site 657, 108A(1)2:41, 43
 Site 658, 108A(1)7:118
 Site 659, 108A(2)14:232
 Site 660, 108A(1)5:339–340
 Site 661, 108A(1)6:419
 Site 662, 108A(1)7:495–496
 Site 665, 108A(2)10:747
 Site 666, 108A(2)11:797
 Site 667, 108A(2)12:842–843
 Site 668, 108A(2)13:935
 Site 708, 115B23:415
 Site 709, 115B23:415
 Site 710, 115B23:415
 Site 711, 115B6:415
 Site 712, 115B23:415, 417
 Site 713, 115B23:417
 Site 714, 115B23:417
 Site 715, 115B23:417
 Site 716, 115B6:417
 Site 717, 116A4:51–55
 Site 719, 116A6:162–163
 Site 721, 117B4:92
 Site 722, 117B4:92
 Site 723, 117B4:92
 Site 730, 117A18:559–560, 567
 Site 731, 117A19:623
 Site 736, 119B29:560–561; 30:600, 605
 Site 737, 119B29:562–564; 30:600
 Site 738, 119B30:600–601
 Site 739, 119B7:139; 29:586–587; 30:601, 605
 Site 740, 119B30:601, 605
 Site 741, 119B30:601, 605–606
 Site 742, 119B30:601, 606
 Site 743, 119B30:601
 Site 744, 119B29:566–572; 30:601, 606
 Site 745, 119A14:526; 119B29:576; 30:601, 606
 Site 746, 119A15:542–543; 11929:580–581
 Site 747, 120A6:113; 120B(2)38:693; 57:1038
 Site 748, 120A7:191–193, 195; 120B(2)38:693–694
 Site 749, 120A8:253–254; 120B(2)38:694
 Site 750, 120A9:304–305
 Site 751, 120A10:352–354; 120B(2)38:694
 Site 752, 121A6:129–130; 121B36:722
 Site 754, 121A8:205
 Site 755, 121A9:246
 Site 757, 121A11:320
 Site 758, 121A12:386

- Site 794, 127A4:97; 127/128B(1)15:264–269, 284; 20:344; 77:1221; 128A3:99
- Site 795, 127A5:192–193; 127/128B(1)15:276–281, 286; 20:344–345
- Site 796, 127A6:271–273; 127/128B(1)15:270–275, 285
- Site 797, 127A7:351; 127/128B(1)15:252–258, 283; 20:345; 33:593; 77:1223
- Site 798, 127/128B(1)21:361; 128A4:124, 159–161
- Site 799, 127/128B(1)2:34–35; 21:361; 128A5:299–303
- Site 803, 130A5:124–126
- Site 804, 130A6:191
- Site 805, 130A7:241–243
- Site 806, 130A8:315
- Sites 213 and 717 correlation, 116B19:239
- Sites 215 and 717 correlation, 116B19:239
- Sites 238 and 717 correlation, 116B19:239
- Sites 647 and 112 correlation, 105B20:339
- slumped material, 108A(2)9:628
- smear slides, 188A4:14–15; 205A5:14–15
- species composition, 175B11:29
- spore percentage, 119B30:601
- standing stock, 119B34:655–660
- station clustering, 119B34:661–662, 665
- stratigraphic markers, 127/128B(2)77:1220
- stratigraphic range, 105B19:316; 115B23:423–424; 24:434–435, 457; 119B29:573–574, 582; 121B1:193, 198; 145B2:28; 185B2:15; 186A4:190; 186B2:23; 191B2:14–18
- stratigraphy, 114B5:100, 105–106; 119B29:583
- strontium isotopes, 119B29:579
- study methods, 104A4:114–116, 148–152; 5:471; 6:627; 119B34:646–648
- summary, 104A4:117, 142–144; 6:627; 7:756–759, 762
- summer surface water layer, 119B34:653, 655
- supersaturation, 164B23:233–234
- surface sediments, 119A9:365; 10:390; 11:425; 12:468; 13:494–495; 119B35:668–673
- surface-water productivity, 108B3:24
- systematic paleontology, 183B9:15–27
- taxonomy, 172B8:7–15; 178B35:1–57; 182B2:18
- terrigenous influx reflection, 119B35:672–673
- time series, 167B6:123–125
- total organic and inorganic carbon, 201B8:4–5
- transportation, 108B10:156
- tropical Indian Ocean diatom (TID) zones, 116B19:239–240
- tropical taxa, 108A(1)1:19–20
- Tsushima Strait closure, 127/128B(2)77:1219–1220
- turbiditic sediments, 115B24:439
- unconformities, 105B20:330–331
- upper Eocene, 189B1:12
- upper Quaternary, 155B21:367–373
- upwelling-specific taxa, 127A6:267, 271; 7:349
- velocity, 127A4:133
- vertical stratification, 119B34:662
- vs. age, 145B3:46–47; 146B(2)17:235–238; 175B23:29–30; 178B2:7; 178B12:7, 12; 15:10; 25:17; 185B2:14
- vs. density, 172B(overview):4
- vs. depth, 138A(1)11:275; 12:344; (2)13:687; 14:753; 15:822; 16:907; 17:975; 18:1032; 19:1071; 146A(1)5:151; 150A7:166, 219; 151B29:485–487; 155B21:372; 164A5:78; 6:111; 7:181; 9:283; 164B35:375; 167B6:122; 170A6:202; 172B8:18–24; 175A3:69; 9:242; 10:281; 17:519; 177A3:22; 6:39; 178A4:62; 5:58; 6:42; 13:12; 25:19–25; 181A3:45; 4:32; 5:38; 183B5:30; 185B2:14; 186A4:82; 5:52; 186B3:11–14; 15:16–20; 189A5:76; 6:75–78; 7:61, 65; 197A3:52; 199B24:15; 202A4:33, 38; 5:29, 35; 6:39; 8:59; 9:46, 57; 10:46, 52; 11:38, 47; 12:48, 57; 13:38, 46; 205A4:79; 5:53; 6:28; 206A3:123
- vs. dinocysts, 189A5:76
- vs. nassellarian/spumellarian ratio, 199B24:18
- windblown freshwater taxa, 108A(2)7:495
- zonation, 104A2:37–38; 4:114–116, 148–152; 5:471, 482–483; 105A2:30–32; 105B20:328, 334–335, 339; 108A(2)7:493; 8:562–563; 9:625–628; 10:748; 11:797; 12:839–840; 108B3:26–28; 113B43:762–766; 114A5:108; 6:165; 7:270; 8:382–385; 9:493; 10:560; 11:638–639; 114B6:134–136; 115B23:414–415; 24:434; 119B29:548–557; 46:816–817; 120B(2)38:683–693; 57:1032; 121A2:45; 6:129–130; 11:376, 121B7:175, 191, 194–195, 198–199; 125A2:25–28; 11:265; 127A1:19–20; 4:97; 5:192–193; 6:271–273; 7:351; 127/128B(1)15:249–251, 282; 21:361–362; 77:1219, 1225–1226; 128A4:159–161; 5:299–303; 130A2:31–32; 178B29:5–9; 183B6:16; 9:6–7, 12–13, 37–38; 184B6:6; 186A1:10; 186B2:1–38; 199B6:3–6
- See also biostratigraphy; diatom abundance index; diatom frustules; early Matuyama diatom maximum; east coast diatom zones; late Matuyama diatom maximum; ooze; opal-A; rhizosolenids; silica
- diatoms, cold-water, paleoceanography, 186B3:4, 6
- diatoms, extinct
- paleoceanography, 186B3:5–6
- vs. depth, 186B3:11, 13
- diatoms, freshwater
- mass accumulation rates vs. age, 175B11:22
- paleoceanography, 186B3:5–6
- vs. depth, 186B3:11, 13
- diatoms, holoplanktonic, 189B10:4
- diatoms, littoral, vs. depth, 169S_B1:7
- diatoms, marine
- concentration, 175B11:30–32
- mass accumulation rates vs. age, 175B11:24
- diatoms, sublittoral
- paleoceanography, 186B3:5–6
- vs. depth, 186B3:11, 13
- diatoms, warm-water, paleoceanography, 186B3:4, 6
- diatoms + radiolarians + clay, vs. depth, 138A(2)16:952
- Dicheiropollis etruscus*. See pre-Albian West Early Cretaceous *Dicheiropollis etruscus*/*Afropollis* Province
- dichloromethane extracts, kerogen, 143B12:187–189
- dichotriaenes
- Site 689, 113B54:965–966, 969

- Site 696, 113B54:965–966, 970
- dickite
alteration, 183B15:6
secondary minerals, 142B9:71
- Dicksoniaceae, sporomorphs, Site 1138, 183B3:7, 11
- Didemnidae, Great Barrier Reef, 133B28:447–453
- differential caliper logs, vs. depth, 170A7:241–242;
171A_A3:24, 28, 33; 4:43, 47, 49; 5:64, 68; 6:82,
86; 7:95, 102
- differential pressure, vs. velocity, 200B1:34
- differential settling, Cenozoic, 133B30:470
- differentiation
gabbros, 176B10:16–21, 24–27; 205A4:31–32
intrusions, 176B(synthesis):11
magmas, 137/140B5:59–60; 163B9:104–110;
179A4:37
magnetic susceptibility, 176B11:9–11, 17
metadiabase, 180A8:19
metagabbro, 173A6:155–156
shear zones, 176A1:3–5
volcanic rocks, 141B27:335–336
- differentiation, iron-enrichment
liquid immiscibility, 118B4:96
melt densities, 118B4:98
pyroxenes, 118B4:91
- differentiation, late-stage
conditions, 118B4:101–102
lower oceanic crust, 176B(synthesis):23–24
melt densities, 118B4:98
mineralogical effect, 118B4:96–97
- differentiation, syntectonic, 118B26:488
- diffuse spectral reflectance, methods, 172B6:1–12
- diffusion
advected fluid, 146A(1)5:188
alteration, 168B10:131; 193A1:26
basaltic crust, 129B14:270–271
basement basalts, 130A12:549–551
brines, 161B33:427–429
carbonate sediments, 133B32:482–487
Celebes Sea, 124A10:157
chloride, 146B(1)10:178–184; 164B12:132–136
diagenesis, 166B17:190–191
fluid flow, 133B31:478–479; 205B6:10–11
ions, 189A5:47–48
iron, 160B20:256
methane, 168A4:83
oxygen isotopes, 166B8:97
pore water, 105B12:179–180; 129B14:272;
135B42:687–688; 162A8:274
rates in olivine vs. iron-titanium oxide gabbro,
118B3:59, 70
saline sources, 133B48:712
sediment-seawater exchange, 129B16:298, 301
siliciclastics, 189A5:49
strontium, 150X_B25:351–352
subduction, 141B29:371
- diffusion coefficients
lithology, 102A3:144
sediments, 129B14:274
- diffusivity
mass transfer, 185B11:2–4, 14
vs. porosity, 185B11:12
- digital coherency mapping, velocity, 178B19:23
- digital imaging
basalts, 206A3:90–91; 206B11:11–26
basement, 206A3:90–93, 318–320, 395
color density logs, 146B(2)3:33–34; 4:45–59
computer systems, 146B(2)4:47–48
cores, 202A1:12–13
See also color imaging
- digenite
altered basalt, 135B40:653
petrology, 158B1:9–11, 14
- dike complexes, sheeted
alteration, 148A2:45–53; 148B34:417–434
diabases, 148A2:42
fluid inclusions, 148B7:87–95
fractures, 148B22:307–315
geochemistry, 148B4:39–55
glassy texture, 148A3:130
isotopic profiles, 148B5:57–69
magnetic field, 148B24:334
margin structure and deformation, 148A3:156–157
metamorphism, 148B8:97–109
nitrogen geochemistry, 148B1:3–7
petrology, 148B33:410–411
relation to hydrothermal vent fluids, 148B5:66–67
secondary minerals, 148B6:71–86
structure, 148B16:229–243
trace elements, 148B37:455–466
See also semidikes
- dike injection
remanent magnetization, 137/140B23:267–269
veins, 137/140B18:213
- dike margins
chilled contacts, 140A2:94
petrology, 137/140B3:35–42
reorientation, 137/140B21:247
structure, 140A2:82
vs. depth, 137/140B3:36
- dike swarms, partial melting, 163B9:110
- dikelets
abundance vs. depth, 153B11:246
gabbros, 153B11:243–264
igneous rocks, 140A2:84–86
magnesium number, 153B11:254
melt migration, 209B4:6
oxide-rich gabbro and tonalite/trondhjemitic,
147B2:49
petrology, 176A3:32–33
photograph, 153B11:248; 209A6:55; 10:55
thickness vs. depth, 153B11:246, 255
- dikelets, basaltic, 118A3:49–50; 4:68
- dikelets, gabbroic, photomicrograph, 209A6:76
- dikelets, granophyre, photomicrograph, 209A10:77–78
- dikelets, leucocratic, Atlantis Bank, 118B24:426
- dikelets, metamorphic, photomicrograph, 209A5:84
- dikelets, pyroxenitic, photograph, 149A4:79
- dikelets, trondhjemitic, mineralogy, 118B4:90, 104
- dikes
alteration, 137A2:24–27; 147B12:227–234; 15:305;
209A6:10–11

- basalts, 147A1:11; 176B(synthesis):44; 6:3
basement, 149B38:613; 161A6:215; 173A1:10
Celebes Sea, 124B20:275
clinopyroxenes, 137/140B11:121–130
cores, 137/140B21:249
crustal heterogeneity, 127/128B(2)70:1113–1114
deformation, 147B20:367
diabases, 153B19:363–377
dunites, 147B6:131
geochemistry, 137/140B9:107–110; 10:117–120;
163B7:69; 8:84–85
geology, 188A1:7–8
histograms, 152B37:446, 448
injection, 163B7:74
islands, 157A2:14–15
isotopes, 153B15:308, 310, 315–316
lava, 180B(synthesis):6
lithology, 206A3:55; 209A7:2–3
magmatism, 149B1:15
magnetic properties, 102B7:90
melt inclusions, 137/140B12:131–139
photograph, 153A4:161; 6:246; 206A3:174
porosity, 102A3:96
properties, 102A3:96–97
Site 504, 137/140B2:19–33
Site 786, 125A14:327; 125B9:145–146; 13:239
Site 797, 127/128B(2)59:942–943
strain localization, 137/140B19:219–229
well-logging, 137/140B26:308–311
width frequency, 137/140B2:20
width vs. crystal length, 137/140B2:23
See also apophysis; clastic dikes; dikelets; granite
dikes; lava/dike transition; microdikes; por-
phyry dikes; sandstone dikes; semidikes
- dikes, alkaline, postrift magmatism, 210B1:24
dikes, amphibole ultramafic, 209A5:55
dikes, basaltic
alteration, 137/140B4:43–51; 147A4:133
Atlantis Bank, 118A6:100
classification, 119A2:24, 44
geochemistry, 118A6:147; 147A3:89–91
intrusions, 147B1:16
magnetic properties, 118A6:150
petrography, 118A6:117; 147A3:67–68; 147B1:4
petrology, 147B9:173–186
Prydz Bay, 119A2:24, 44
Site 749, 120A8:266; 120B(1)1:25
veins, 147A4:136
- dikes, basaltic andesite
lithology, 135A(1)11:630–631; 135B16:248–249
post-late Miocene, 135B38:628–633; 55:897
- dikes, boninite
Bonin-Mariana region, 125A14:327
mineralogy, 125B10:188
neodymium isotopes, 125B13:249–250
trace elements, 125B12:217, 222, 227
- dikes, crosscutting
petrography, 153B19:363–364
photograph, 209A10:50
- dikes, diabase
alteration, 147B15:298
Costa Rica Rift, 140A2:52–64, 119–121
lithology, 209A10:4–10
photograph, 147B15:298
Southwest Indian Ridge, 118B26:458, 504
- dikes, downward-penetrating, 178A9:8
dikes, felsic
photograph, 209A10:84
photomicrograph, 209A10:84
- dikes, gabbroic
alteration, 209A3:12–13
impregnation, 209A6:21–22
lithology, 209A10:5–10
- dikes, granite, basement/sediment contact, 161A6:215
dikes, injection, Costa Rica Rift, 137/140B2:22–23
dikes, magmatic
photograph, 209A3:82
photomicrograph, 209A3:82
- dikes, metabasalt, Southwest Indian Ridge, 118B2:27
dikes, microgabbro, Southwest Indian Ridge, 118B2:25–
26
- dikes, neptunian
breccia, 161B25:335
Tyrrhenian Sea, 107A7:302
- dikes, pyroxenite, photomicrograph, 209A5:59
dikes, sand-filled, lithology, 201A10:9–10
dikes, sedimentary, photograph, 210A3:144
dikes, sheeted
alteration, 137/140B17:199–205; 18:207–216
boundary layers, 140A2:127–128
cores and logs, 137/140B26:305–311
fluid inclusions, 137/140B16:191–198
geochemistry, 137/140B6–7:65–97; 8:99–106
geothermometry, 137/140B15:167–189
magnetic properties, 137/140B21:245–252; 23:253–
270; 29:327–337
metadiabase, 180A8:19–20
mineralogy, 137/140B14:155–166
oceanic crust, 176B5:13
ophiolites, 141B28:355
petrology, 137/140B2:19–33; 140A2:119–121
rift valleys, 147A1:6
stress, 137/140B25:293–304
veins, 137/140B20:231–243
- dikes, trondhjemite, Southwest Indian Ridge, 118A6:117
dikes, ultramafic, hydrothermal alteration, 209A5:12
- dilation
deformation bands, 141B2:19–21
density, 171A_B3:8–10
hydrothermal systems, 193B1:28–29
heat flow, 170B4:6
- dilatometers, strainmeters, 186A3:5–7, 27
- dilution
Cagayan Ridge, 124B29:387
carbonates, 154B12:192–193; 15:231–234; 19:290–
291; 20:306
chloride, 146B(1)25:382
diagenesis, 156B1:25–27
permeability, 156B9:132–134
sedimentary organic matter, 202A1:23–24
sediments, 156B4:67–71
See also dissolution

- dilution ratio, terrigenous, 155B34:550–553
dimethylbutane, sediments, 180B18:4–14
dinocyst associations, Eocene–Oligocene, 189B4:11
dinocysts
 biostratigraphy, 149B10:245–248; 174AXS_A7:23–24;
 189A3:31–32, 149; 4:56; 5:31–32, 142; 6:153;
 7:128; 189B3:28–29; 4:8–10; 5:1–98; 210A3:338
 Coniacian, 183B3:10
 Cretaceous–Cenozoic interval, 189B5:43
 Cretaceous/Tertiary boundary, 189A7:35
 distribution, 189A4:55; 5:141–144; 6:151–152; 7:126–
 127
 Eocene–Oligocene interval, 189A7:33–34; 189B4:1–42
 Eocene–Quaternary interval, 189B10:5
 first and last occurrences, 189B5:26–42
 late Eocene–Quaternary interval, 189B2:1–36
 latest Cretaceous–earliest Oligocene and Quaternary,
 189B3:1–48
 marine environment, 161B36:459–462
 Mesozoic, 188B3:10
 occurrence, 174AXS_A2:66
 Oligocene, 189B1:16
 organic matter, 189A5:43
 paleoecology, 189B4:13–15
 paleoenvironment, 189A6:39; 7:35; 189B2:9–11;
 3:11–12
 palynomorphs, 188B2:4–8; 3:3–5
 photograph, 189A7:67
 photomicrograph, 183B3:33, 38
 Quaternary, 189B10:3
 review, 189B1:5
 Site 903, 150A7:156
 Site 904, 150A8:227
 Site 905, 150A9:274
 Site 906, 150A10:324
 Upper Cretaceous–middle Eocene interval, 189B10:5
 vs. depth, 151B15:294; 161B36:460, 462; 189A5:77;
 189B2:20
 vs. diatoms, 189A5:76
 vs. pollen, 149B10:253–254; 151B14:280
 See also dinoflagellates
dinoflagellate cysts. *See* dinocysts
dinoflagellates
 abundance, 104A4:133; 5:480–481; 104B29:593–594;
 32:621–628, 633–635; 113B36:600; 184B7:24–
 25
 age, 104B31:593–594, 597–599; 32:627–628
 Albian, 101B7:122, 124
 allochthonous components, 105B28:524
 Aptian–Albian interval, 129B11:226
 Arctic and North Atlantic mixed affinities,
 105B25:432, 434
 assemblages, 105B24:410, 25:429–430, 433; 27:473–
 474, 484–485
 Baffin Bay, 105A1:18; 2:30–34
 basalt correlation, 104B33:667
 Beaufort Sea and Canadian Arctic islands, 105B27:471
 biostratigraphy, 129B11:221–222; 150A6:84–86;
 7:156–157; 8:226–227; 9:278–280; 10:323–325;
 151B12:203–204; 14:255–287; 35:630;
 162B7:99–109; 171B_B6:1–25; 175A13:404;
 14:442; 15:468; 184B7:1–29; 186B6:1–19;
 189A1:36–37; 191B1:8; 210B13:41–43
 British Southwestern approaches, 105B27:471
 Cenomanian, 101B7:124, 126
 Cenozoic, 149B10:241–265; 152B16:221–231
 comparison, 184B7:8–9
 concentration, 175B10:30
 continental rise, 178B2:1–10
 correlation, 105B27:486; 28:520, 523–525
 Cretaceous, 103B25:435–439; 119B32:633
 Cretaceous–Paleocene interval, 159B24:253–276
 cyst concentrations, 105B33:630–631; 183B3:27–29
 dating, 113B29:452; 36:596–597, 602
 debris, 104B31:590–591
 Denmark, 105B28:470–471
 depths, 105A4:94–95; 5:445, 449–450; 6:698, 704–
 705; 113B29:454; 159B25:283
 distribution, 101B7:123, 125; 103B25:435, 437;
 35:608; 104B31:591–599; 33:666; 129B11:226;
 189A3:145–148; 5:141–144
 Eocene, 105B28:520–523
 evolution, 105B25:433
 Greenland E, 104B31:604–605, 616–620; 33:669
 Holocene, 105B25:431
 kerogen, 113B36:603–604
 lithology, 104A4:149; 208A6:8
 Miocene, 105B25:431; 27:471–472
 nannofossils, 188A5:17
 Neogene, 123B21:432–434; 133B8:97–105
 new species, 105B26:453–460
 Northern Hemisphere comparisons, 105B25:430–431
 occurrence, 105A4:97–99; 105B23:390;
 150X_B11:136, 138; 186B6:15, 17
 organic-rich layers, 161B30:394–395
 paleoceanography, 105B27:486; 28:524–525
 paleoecology, 105B27:486–487; 28:524–525;
 144A4:124–125
 paleoenvironment, 101B7:124–127; 104B31:601–602;
 105B23:390–392; 120B(2)20:312–316; 183B3:6–
 9
 Paleogene, 105B28:517
 percentage distribution of taxa, 133B7:95; 8:99, 100
 photomicrograph, 133B8:103–105; 186B6:19
 Pliocene–Pleistocene, 162B6:83–97
 preglacial sedimentary basin fillings, 163X_A8:4–5
 preservation, 105B28:525
 provincialism, 120B(2)20:316
 Quaternary, 105B32:613–614; 133B7:93–95;
 161B36:457–468
 Raggatt Basin, 120B(2)19:285–288
 range chart, 105B26:455; 151A7:176; 159B25:282;
 184B7:26–27
 review, 189B1:5
 Rockall Plateau, 104B33:666, 668
 sapropels, 160B23:289
 sedimentation rates, 191A4:26
 sediments, 131B5:64, 68; 146B(2)14:210; 175B5:8–9;
 10:7–10; 11:4
 Site 638, 103B38:688–689
 Site 641, 103B35:606–607, 633–634; 38:690, 692
 Site 645, 105B27:475, 514

- Site 646, 105B25:432, 448, 450
 Site 647, 105A6:703, 706; 105B24:409; 28:520–521, 524; 33:635
 Site 693, 113B26:405
 Site 723, 117B36:594
 Site 724, 117B36:593–594
 Site 748, 120A7:193; 120B(1)1:24
 Site 749, 120A8:254
 Site 750, 120A9:305
 Site 765, 123B21:429–432, 434
 Site 871, 144A3:58
 Site 872, 144A4:124
 Sites 642 and 643 correlation, 104B32:631–632
 Sites 815, 820, and 823, 133B7:93, 95; 8:97–105
 Southern Hemisphere, 120B(1)20:307
 species 1, Site 913, 151B12:236
 species 2, Site 913, 151B12:236
 species 3, Site 913, 151B12:237
 species 4, Site 913, 151B12:237
 species 5, Site 913, 151B12:237
 species 6, Site 913, 151B12:238
 species list, 129B11:227
 stable isotopes, 105B33:621
 stratigraphic range, 105B24:406; 183B3:29
 stratigraphy, 105B23:392; 24:412; 27:473–475, 484–485; 28:521–522; 120B(1)20:308
 study methods, 104A4:146; 104B31:588; 33:664–665
 summary, 104B32:636–637; 33:665
 taxonomy, 104B31:591, 614; 113B36:601
 unconformities, 105B28:484
 upper Cenozoic, 150B27:439–454
 vegetation, 151B15:289–296
 vs. age, 178B2:7–8
 vs. centimeters from the Cretaceous/Tertiary boundary, 174AXS_A(summary):33
 vs. depth, 191A4:75
 zonation, 104A5:480–481; 104B31:591, 596–601, 614–631; 105B50:939–940; 123B39:747; 184B7:5–9
See also acritarchs; dinocysts; dinosterol; gonyaulacoid/peridinoid ratio; gonyaulacoid species; peridinoid/gonyaulacoid ratio; protoperidiniacean cysts; protoperidinioid cysts
- dinoflagellates, endoskeletal
 abundance, 183B9:43
 Cenozoic, 138B8:142–143
 preservation, 183B9:5–6
 Site 698, 114B15:304, 308
 Site 700, 114B15:304, 308
 Site 704, 114B15:304, 310
- dinoflagellates, heterotrophic, 189A5:34
 dinoflagellates, phototrophic, 189A5:34
 dinorhopane, vs. depth, 167B12:190
 dinosterol
 concentration, 175B10:30
 organic-rich layers, 161B30:397
 sapropels, 160B21:266; 23:287, 289
 sediments, 146B(2)14:210; 162B15:213; 175B10:8–10
- diols
 concentration, 175B10:30
 organic-rich layers, 161B30:395–396
 sapropels, 160B21:264–265; 22:276; 23:287
 sediments, 175B5:7
See also hopane-diol; pentakishomo-hopane-ketodiol; trihomo-hopane-32,33-diol
- diols, biphytane, sediments, 175B10:11
- diopside
 alteration, 147B6:113; 176A3:138
 basement/sediment contact, 161A6:215
 composition, 125B27:462; 135B3:39; 176B9:47
 episodic growth, 118B8:159
 felsic veins, 118B27:545
 fluid inclusions, 118B9:201
 geochemistry, 147B6:118–119
 high-temperature minerals, 176A3:34
 hydrothermal origin, 118B9:200
 late magmatic intrusions (LMIs), 118B8:168
 lithology, 198A9:12–13
 magmatic vs. hydrothermal origin, 118B8:168–170
 magnesium-calcium-silicon-oxygen-hydrogen system, 209A6:77
 mantle, 153B13:277–284
 marbles, 161B23:313–314
 mineral chemistry, 129B17:308–309; 176B10:36–37
 origin, 118B8:168
 oxygen isotopes, 118B9:206
 peridotites, 125B27:462
 phase equilibria, 163B9:103–105
 photograph, 153B29:521
 photomicrograph, 176B9:64–65
 quadrilateral plot, 179B(synthesis):86
 rare earths, 125B27:451; 28:492–493
 secondary minerals, 137/140B14:188; 148B6:85
 serpentinization, 125B27:449; 147B14:282–283
 sodic plagioclase association, 118B8:168
 temperature of formation, 118B8:168
 trace elements, 125B28:502
 troctolites, 118B26:470; 147B14:268
 veins, 140A2:76; 153B30:524; 176A3:42–43; 176B9:6, 10, 17–19, 31
 vs. chromium, 147B1:15
See also chrome diopside; veins
- diopside, titaniferous, elongate prisms, 129B17:327
 diopside-enstatite-ferrosilite-hedenbergite system, 163X_A8:24
 diopside-quartz-plagioclase system, 163X_A8:33
 diorite clasts. *See* clasts, diorite
- diorites
 intrusions, 180B(synthesis):6
 petrology, 134B16:343
 photograph, 141A10:354; 153A4:138–139
 basement, 173A1:10
 dropstones, 177A6:31
 pebbles, 180A7:15
 petrology, 176A1:13–14; 176B6:11
 veins, 176B8:9–10
See also gabbrodiorites; leucodiorites; microdiorites; veins
- diorites, leucocratic
 petrology, 176A1:13–14
 photograph, 176A3:132
 veins, 176A3:29; 176B8:9–10

- diorites, oxide, chemical composition, 176B3:2–13
diorites, quartz, photograph, 153A4:146
dip
 azimuth rose diagrams, 179B3:20
 bedding, 134B24:432; 135A(1)5:202; 6:260; 7:306;
 9:418; 10:524–526; 135B20:325–326; 159A5:98;
 8:278–279; 9:309; 159B3:8; 173A4:100, 102;
 7:97; 180A1:56; 8:21, 26, 68–69, 83, 87, 110–
 117; 9:96–99; 10:44, 49, 53; 12:97; 186A1:14;
 186B16:17; 187A8:10
 clasts, 178A9:47
 core imaging, 173A4:86–87
 cores, 135A(1)8:357–358
 deformation, 160A9:304, 307, 310; 210A3:71–73
 depth, 158A7:113
 domains, 141A10:374
 elongate clasts, 178A6:35
 faults, 160A5:108; 7:185; 160B49:647–649; 176A3:60–
 61, 198; 180A6:41–43, 142; 8:71–73, 83; 9:96–
 97; 10:47–48
 foliation, 161A6:227–228; 161B24:325; 173A7:202;
 8:250–251; 176A3:180, 244; 176B5:30;
 209A9:13–14
 Formation MicroScanner imagery, 134B34:593, 597,
 599; 160B38:504; 47:618–620; 173A4:98;
 180B24:6
 fractures, 140A2:99, 102, 116, 143; 180A8:111–117
 histogram in volcanic layering, 193A3:202
 igneous contacts, 176A3:55–58
 inclination, 160B4:59; 192A4:8
 intravolcaniclastic seismic reflections, 192A4:23–24
 laminations, 155B4:59
 lava flows, 183A4:22–23, 68
 lithology, 183A7:5
 microfaults, 160A7:183; 8:247; 9:308; 10:360;
 180A10:46
 microfolds, 159A8:280
 Ontong Java Plateau, 130A6:186
 orientation, 193A3:58–59
 paleocurrents, 210B3:1–27
 photograph, 159B2:21; 162A9:305; 173A4:91;
 180A8:70, 80; 206A3:273
 primary layering, 193A6:7, 21; 206A3:261
 remanent magnetization, 192B5:6–7
 seamounts, 160B51:688–689
 sediments, 159B9:83; 160B47:613; 192A4:23–24
 seismic profiles, 163X_A4:2–4; 210B3:24
 siltstone–sandstone alternation, 173A6:137–138
 soft sediments, 161A4:80–81
 structural domains, 180A9:29–31
 structure reorientation, 206B11:1–26
 structures, 160A10:358–359; 186A4:63; 192A5:18;
 206A3:80, 287, 289
 tectonics, 173A6:136–138
 thermal structure, 186B1:7–8
 triaxial shear strength, 186B17:6
 underthrust section, 170A4:114–115
 veins, 140A2:86–91, 107; 173A6:145; 176A3:244;
 183A4:67
 volcanic rocks, 193A4:41, 43
 vs. depth, 146A(1)7:329; 159A5:121–122; 6:185, 207;
 7:239; 8:278; 161B24:320; 170A4:112; 5:164;
 173A6:142; 176A3:182–183; 183A5:138, 140;
 6:141; 190A4:48–49; 5:49; 6:35; 7:31; 190/
 196B9:12; 192A4:53; 196A1:22; 4:48; 210B3:20
 vs. frequency, 183A6:142
 vs. number of planes in borehole, 140A2:106
 See also bedding; bedding dips; fault dips; foliation
 dips; fracture dips
dip, bedding, stereoplots, 170A4:117
dip, direction, fractures vs. depth, 180B24:25
dip, faults, vs. slickenside plunge, 180A5:70; 6:144; 8:73;
9:97; 10:47; 12:99
dip, flow banding, vs. depth, 163A4:37
dip, fracture, vs. depth, 180B24:25; 196A1:25; 4:33, 44;
3:56
dip, magmatic features, vs. depth, 163A5:56
dip, primary volcanic layering, vs. depth, 193A4:169,
179; 6:21
dip, structural features, vs. depth, 163A5:56
dip, true
 basement units, 183A6:191
 structure, 192A5:18
 vs. depth, 192A3:130; 5:95–96
dip, vein
 vs. depth, 163A4:37; 193A3:204; 4:178, 190; 6:23
 vs. dip, 193A3:222
dip/age ratio, vs. age, Site 841, 135B20:327
dip azimuth
 fracture planes, 186A4:172; 5:93
 healed fractures, 186A5:92
 maps, 155B6:138
 mass transport deposits, 155B6:134–137
dip inclination, structure, 192A5:18
dip ranges, faults, 159B3:8
dip-slip faults. *See* faults, dip-slip
diploptene
 sediments, 167B12:188; 190/196B14:3, 10
 vs. age, 162B15:215
 vs. depth, 167B12:189; 190/196B14:7
dipmeter logs
 bedding, 135A(1)8:358
 faulting, 135B6:98
 Formation MicroScanner imagery, 135A(1)10:557
 joints, 135A(1)4:110, 112
 Lau Basin, 135B47:767
 Pigafetta Basin, 129B6:153, 159
 sediments, 135A(1)4:110; 10:520–521
 Site 834, 135A(1)4:165
 Site 835, 135A(1)5:240–242
 Site 840, 135A(1)10:521–523
 stratigraphy, 129B36:689
 vs. depth, 135A(1)5:242; 185A4:142–144
dipole pole excitation, models, 190/196B16:11
dipole shear sonic tool, acoustic logging, 205B13:15
Dipole Sonic Imager, waveform images, 203A3:71
dipole sonic waveforms, vs. depth, 201A11:84;
204A4:93; 6:65; 9:71; 10:86; 11:50; 204B24:25–37
dipping beds
 structural domains, 149A4:84
 vs. depth, 149A4:84

- dipping contacts, photograph, 155A12:331
dipping units, Formation MicroScanner imagery, 193A4:222
- discoasterids
abundance, 108B8:121, 138; 114A10:563
Atlantic Ocean E tropical, 108B8:126–129
Bahamas, 101B3:77–78
biogeography, 183B4:17
biohorizons, 167B1:16–18
biostratigraphy, 108B8:123; 124A12:317–318; 13:405; 124B10:138–141
diversity, 159B42:580
downhole contamination, 101B3:70–71
eolian sediments, 200A4:24–25
Exuma Sound, 101A9:347; 10:395; 11:443
five-point ray, 115B15:209, 211
function, 108B8:136–137
lithology, 167A(1)4:55; 205A6:9
Little Bahama Bank, 101A6:127
Miocene–Pliocene interval, 115B15:209
Northeast Providence Channel, 101A13:532
Pacific Ocean E, 138B12:278–279
photomicrograph, 200A1:47; 4:92–93; 205A6:29
Pliocene, 130B46:755–759
Site 552, 108B8:125–126
Site 607, 108B8:126–129
Site 689, 113B37:621–623
Site 699, 114B8:183
Site 703, 114A10:560
Site 717, 116A4:56
Site 797, 127A7:354
six-pointed ray, 115B15:211
Straits of Florida, 101A5:62
turbidites, 135B7:105
vs. depth, 159B42:582
See also asteroliths; nannofossils
- discocyclinids
abundance in carbonates, 144B6:130
photograph, 135A(1)11:595
- disconformities
accumulation rates, 171B_A5:196
biostratigraphy, 157B29:513; 177B7:5; 181A7:16; 182A1:10, 29, 37; 4:14, 18; 5:14; 6:12–14; 7:14–15; 11:10; 183A7:11; 188A3:38; 188B6:6–7; 207A8:13
Danian, 189B1:9
Gauss/Gilbert boundary, 180A1:8
Leg 120, 120B(2)53:956–958
lithology, 150A10:312–318; 174AXS_A6:42; 175A15:460; 204A4:5
magnetization, 150B8:137
magnetostratigraphy, 181A8:29
Mariana Basin E, 124E_A18:125
mass accumulation rates, 171B_A6:273–274
Miocene/Pliocene boundary, 177B7:5; 183B9:11–12
Paleocene/Eocene boundary, 171B_A3:69
pelagic cap, 144A3:66–67
photograph, 150X_A1:20–21; 171B_A4:110
Pliocene–Quaternary interval, 160A7:157
sedimentation, 182A1:17
seismic Horizon Y, 204A6:7
sequences, 150X_B16:208–209
Site 702, 114A9:484, 488
Site 748, 120A7:196–197
Sulu Sea, 124B40:528
See also paraconformities; unconformities
- discontinuities
compressional wave velocity, 195B2:21
cyclic processes, 178B32:14–15
environment, 204A10:10–11
lithology, 174AXS_A1:18; 191A4:15–16
mantle, 195B2:4–7, 9
photograph, 160A9:308; 198A4:41
sedimentation rates, 129B30:540
spectral analysis, 129B30:535–537
tectonics, 141A6:125–126
See hiatuses; seismic discontinuities; stratigraphic discontinuities
- discorbids
abundance, 144B6:131; 9:174–187
Site 821, 133B26:367
- discorhabds
Kerguelen Plateau central, 120B(2)43:834
Site 748, 120B(2)43:837
- discrete samples
demagnetization, 186A5:23; 205A4:44
paleolatitude, 205A4:44–45
remanent magnetization, 186A4:30–35
Zijderveld diagrams, 205A4:142
- discriminant analysis, well-logging, 173A3:51–61
- dish structures
photograph, 143A9:315
volcanic ash, 165A5:263–264
- dislocation density
annealing, 147B20:369
deformation, 147B20:367
- dislocation structures
fabrics, 147B20:359–361
optical density, 147B20:364
peridotites, 147B19:351–352
transmission electron microscopy, 147B20:363
- dispersal
biostratigraphy, 154B1:32–42
clay, 190/196B4:8–11
volcanic ash, 165A4:172–174; 165B6:101–124
- dissection, lithofacies, 160B43:554
- dissimilarity coefficients, modern analogs, 154B14:223
- dissociation
gas hydrates, 189A6:51
methane, 190A9:17–18
- dissolution
alteration, 166A3:34; 166B17:193; 169A6:267–268
anhydrite, 169A3:117
Aptian, 129B8:180
aragonite, 133B36:528–532; 166A7:168; 11:365; 180A9:40–41; 180B12:3
artifacts, 159B40:549
Atlantic Ocean E tropical, 108A(1)2:35; 4:236
atolls, 143A6:124
Barremian, 143A7:209
basaltic glass, 165B19:294

- biogenic materials, 115B37:677–678, 685, 687; 127/128B(1)20:344; 151A5:67–69; 174A_A5:171; 175A5:129–130; 7:189–190; 14:445; 17:512–513; 178B23:8–9; 26:6–7
- biostratigraphy, 113B45:804; 127A5:169, 198–199; 127/128B(1)10:166; 16:295–297; 20:353; 27:465; 129B9:193–194; 133B2:37; 135B11:165–170; 136B5:69–70; 138B13:300–301; 33:676–678; 139B5:67–69; 141B34:417–419; 144A3:64; 144B3:74–76; 22:423; 44:755; 157B10:116; 160B11:144–145; 164B34:351; 166B12:129–136; 167B3:72; 5:101, 103; 168B4:45–48; 172B8:5; 175A11:320; 175B(synthesis):31–32, 88; 14:3; 177A4:9–10; 6:8; 178B7:8–14; 181A6:30; 7:17; 8:13, 21–23; 9:15; 183A8:9–10; 184B5:7–8; 9:7–8; 188A4:18–19; 5:15; 188B4:5–8, 18–21; 11:3–5; 189A3:33–34; 198A7:16; 202A12:12; 208A8:9–20; 208B3:3; 210A3:76; 210B13:6–25
- boron, 208A5:51
- burial at Paleocene/Eocene boundary, 199B23:4
- calcite, 135B12:179–180; 150B20:363–364; 154B19:289–292; 175A8:212; 9:255; 10:295; 12:367–368; 189A5:47–48; 6:54
- carbonate compensation depth, 206B2:10–11
- carbonate crash, 138B1:13–14; 35:731–735, 743–745; 206B1:5; 4:1–24
- carbonates, 129B32:604; 138B33:685; 145B20:297–300; 151B30:506–508; 154A8:355; 154B12:192–193; 20:305–307, 312–315; 22:341–345; 29:448; 32:476–481; 159A5:103; 7:243; 159B40:547; 160B19:231, 234, 237, 240, 245; 165A4:166–167; 5:247; 6:348; 167A(1)4:76; 172A5:214; 6:278; 175A20:550–551; 175B1:3–4, 16, 21; 177A8:16; 177B(synthesis):10, 16–17; 178A5:19–20; 6:13–14; 8:14; 180A6:59; 181B1:21; 182A1:35; 182B13:8; 183B5:8–10; 189A3:44; 4:21; 6:30; 198A1:54–55; 198B9:5–8; 10:1–24; 199B18:3–4; 23:9; 204A11:10
- cements, 144B46:811–812
- Cenozoic, 189B1:21
- changes, 167B12:190–191
- clasts, 158B18:243–244
- clinoptilolite, 114B6:126
- coarse fraction, 165B17:257–258, 269–272
- coercivity, 167A(1)15:442
- correlation, 167B11:176, 178
- cyclostratigraphy, 134B13:293–308; 138B29:629; 154B5:105; 165B7:137–138
- diagenesis, 143B13:199–200; 144B46:791, 807; 48:865–866, 869; 146B(2)12:179; 160B33:425; 161A5:146; 174A_A4:123; 181A8:31–32; 192A6:11; 195A4:35–36; 198A9:14–15
- Eocene–Oligocene transition, 189B1:12
- evaporites, 161B32:414–420; 33:430–431; 175A7:190
- fossils, 132A4:87–89; 132B2:16
- fractures, 159B8:76
- gabbros, 147B2:34–36
- geologic age, 127/128B(1)17:310
- gradient rates, 130A10:523–524; 130B5:73
- grain contacts, 133B21:298
- gypsum, 160B29:370; 161A5:145; 9:405; 182A4:32
- halite, 161A6:235; 182A1:27, 32
- hemipelagite, 161B8:103
- indicators, 167B25:291
- inductively coupled plasma–atomic emission spectroscopy data, 208A5:69–70
- iron oxides, 133B49:729, 731–733
- laminated diatom ooze, 138B31:648
- Leg 128, 128A1:28, 30
- limestone, 143B31:523
- lithofacies, 144B14:284–285
- lithology, 134A11:327; 151A7:171; 10:322–326; 19:360; 159A6:163; 162A4:106; 164A5:75; 169A3:52; 174AXS_A5:19; 184A7:9; 194A7:6–7, 10–11; 8:4; 198A4:13–14; 5:14; 6:11–12; 8:11–12; 207A5:10; 208A3:5–9; 6:9; 7:7–9; 8:6; 210A3:35
- lower–middle Eocene interval, 189B1:10
- magnetic minerals, 150B19:356–357; 167A(1)5:103; 175B8:4; 16:1–10; 177A6:11–12; 181A3:23–24; 207A7:19
- manganese oxide, 178A9:15
- methane, 208B1:20
- minerals, 172A5:225–228; 6:286–288
- Miocene, 115B25:477
- Miocene–late Miocene interval, 165A8:382–384
- Miocene–Pleistocene interval, 175B6:4–5
- moats, 160B38:500–501
- Neogene, 198B1:13–18
- oceanic anoxic events, 198B16:6
- opal, 127/128B(1)17:310–311; 150B20:364; 160B28:358–359; 165A5:261; 167A(1)5:104; 6:144; 7:166; 8:193; 10:261; 11:295; 12:328; 13:368; 14:406; 15:447; 16:475; 167B32:350; 177A6:15; 178A9:15
- orthopyroxenes, 209A3:9–10
- outer perimeter ridge, 144B15:297, 304, 309–310
- paleoceanography, 167B32:369–370
- paleoproductivity, 138B14:334–335
- peridotites, 209B5:1–38
- petrography, 150X_B3:27, 35; 161B3:41; 187A8:7
- photomicrograph, 133B34:505; 159A6:171; 160B37:475; 192A3:75; 210B2:20
- pore water, 161A7:321–322; 166A10:316; 168A4:84; 169A3:115; 175A11:325–326; 12:367–368; 13:409; 15:472–473; 188A3:43–47
- pressure solution, 147B2:47
- provenance of trace elements, 160B16:203–204
- scanning electron microscopy, 171A_B1:4, 15
- seafloor processes, 133B16:215
- sedimentation, 138B9:172–174; 143B2:21–23
- sediments, 151A6:130–131; 172A4:121; 6:288; 190A9:18; 192A3:18–21; 201A1:34
- seismic stratigraphy, 132B1:12; 138B24:546–547
- serpentinites, 149B31:534–535
- silica, 162A5:158; 174A_A3:73–74; 175A8:213–214; 10:295; 17:511–512; 20:552; 178A7:16
- Site 646, 105B33:620
- Site 698, 114A5:105
- Site 699, 114A6:174, 176; 114B12:237; 37:690–691
- Site 702, 114A9:499, 514

- Site 704, 114A11:637, 687; 114B23:419; 25:463–464, 471; 26:479–480; 28:522, 527; 33:628; 36:674
 Site 798, 128A4:162, 165
 Site 799, 128A5:310
 sphalerite, 139A6:230
 stable isotopes, 144B48:859
 strontium, 208A5:52
 sulfate, 166B9:106
 temperature, 127/128B(1)17:310
 textures, 158B15:195
 time series effects, 167B11:179–180
 tunicate spicules, 133B28:448–449
 turbidites vs. pelagic sediments, 115B33:623, 625
 volcanic ash, 190/196B2:5
 vs. depth, 133B2:29–32; 13:176; 184B11:14; 189B9:18
 vs. silica productivity, 138B29:633–635
 water column, 178B23:9
 well-logging, 133B45:679–680
See also aragonite dissolution; carbonate dissolution index; pressure dissolution
- dissolution, pressure
 calcite, 130B15:271; 35:593–594
 carbonates, 130A3:50–52; 5:164; 8:353; 130B3:46; 21:373–375; 29:491–508; 44:713
 foraminifers, 130A7:232; 130B8:104–107; 37:629, 737–738
 loss paradox, 130B44:726–733
 magnetite, 130B31:535
 sediments, 130A9:392
 stylolites, 130B26:445–446
See also composite dissolution index
- dissolution, variable
 Lower Cretaceous, 129B32:602
 Upper Jurassic, 129B32:602
- dissolution cavities, photograph, 158A7:92, 115
 dissolution channels, deformation, 147B20:367
 dissolution cleavage, photomicrograph, 190/196B3:27
 dissolution index
 age and depth, 198B10:21–22
 biosilica, 151A5:67–69
 biostratigraphy, 154B2:11, 14, 19; 3:73–74; 14:210–215; 166B12:136
 calcite, 154B19:289–292
 carbonates, 138B34:697–699, 712–714; 151B30:506–508; 154B12:192–193; 20:305–307, 312–315; 22:341–345; 29:448; 32:476–481
 cyclostratigraphy, 154B5:105
 lithology, 151A7:171; 10:322–326; 11:360; 17:322–326; 19:360
 lysocline, 133B16:207
 Pleistocene, 154B15:229–237
 potential, 198B10:20
 sedimentation, 154A8:391
 sediments, 151A6:130–131
 silica, 154B33:487–488
 spectral analysis, 154B7:140–142
 vs. age, 154B22:344
 vs. depth, 151B30:496–498
See also authigenesis; composite dissolution index; diagenesis; dilution
- dissolution porosity
 photograph, 160B33:422–423
 photomicrograph, 160B33:426
- dissolution proxy BENTH, sediments, 198B10:18–19
 dissolution rates, middle Eocene, 159B33:435–436
- dissolution seams
 carbonates, 130B26:445–446
 lithology, 185A4:15–16
 microstylolites, 130B5:73
 photograph, 185A4:89
 sediments, 130A9:388
- dissolved oxygen. *See* oxygen, dissolved
 dissolved silica. *See* silica, dissolved
- distal environment, lithology, 178A4:11–13
 distal slope facies, Cenozoic, 194A3:7–11
- distension
 Jurassic–Cretaceous interval, 103A5:84
 Liassic, 103A5:84
 Permian–Triassic interval, 103A5:83
- distillation, fractional, brines, 137/140B16:196
- distribution coefficients, carbonates, 168B9:146
- disturbed drilling zone
 drilling, 200A3:147
 geology, 200A1:3–4
 isothermal remanent magnetization, 201B16:4
 photograph, 200A3:74
- DIT (dual-induction tool). *See* resistivity logs
- diurnal variations, magnetic anomalies, 149B42:659–663
- divergence zones
 photic zones, 138B25:576
 planktonic foraminifers, 138B25:561
 sedimentation rates, 138A(2)14:766
- diversity
 foraminifers, 130B10:150–151; 138B25:560, 566–567, 574
 radiolarians, 183B5:8
See also dominance/diversity ratio
- dividing cells
 bacteria, 155B36:569
 vs. depth, 135B9:148
- dividing cells/divided bacterial cells ratio, 139B29:514
- DMM. *See* dropstones, depleted end-member mantle
- DNA. *See* deoxyribonucleic acid
- dolerite. *See* diabases
- doleritic texture. *See* textures, doleritic
- dolomiticrite
 calcite veins, 112B1:10, 14
 Cretaceous, 143B10:139–140
 Lima Basin S, 112A19:814
 lithology, 169A4:164; 194A7:7–9, 13–14
 Peru margin, 112A6:97, 99
 petrography, 175B15:5–6
 photograph, 169A3:55
 photomicrograph, 201B13:22; 210A3:233
 Site 682, 112A14:368–369
 Site 685, 112A17:602–605
 Site 688, 112A20:878–879, 885
 Site 795, 127A5:186
 Site 797, 127A7:343
 Yaquina Basin, 112A15:452

- dolomicrosparite
 dolomite, 201B13:5–6
 euhedral, 201B13:24
 photomicrograph, 201B13:23
 porous, 201B13:24
 quartz-rich, 201B13:25
 thin sections, 161A9:1023
- dolomite
 accessory component, 188B4:11
 acoustic properties, 143B18:288
 alteration, 139A7:498–510; 169A3:82; 187B5:7
 aragonite association, 123B18:382
 associated with magnetic susceptibility, 161A7:309
 authigenesis, 123B3:79; 133B35:518–520; 186B12:1–6; 201B1:26
 authigenic carbonates, 151B24:419–422; 164B29:287–289; 30:303–306; 202A6:6, 31; 204B5:2–3
 Baffin Bay, 105A4:76, 81–82; 105B3:44; 12:180
 basement units, 183A8:14–17
 beds, 112A18:713; 128A5:275–276
 black shale, 207A4:25; 5:28
 breccia, 161A6:217; 161B25:335; 173A7:194
 Broken Ridge, 121A13:462–463, 494; 121B24:170
 Cagayan Ridge, 124A12:306
 calcite replacement, 103B8:126, 134–136
 calcium, 101B24:368; 107B10:144–147; 112B7:103; 123A4:147; 123B3:82; 127A7:363–364
 carbon, 103B8:122, 128–130; 9:151–152; 11:186
 carbon isotopes, 112B7:103
 carbonates, 112A17:607; 156B5:84–85, 92; 29:356
 cavities, 103B8:120
 cements, 112A13:327; 128A5:276; 143B13:199
 cerium anomaly, 127/128B(1)6:90–92
 chloride/hydrogen ratio, 117A11:358
 clasts, 112B7:99
 clotted appearance, 101B13:196
 color, 103B8:120; 10:164, 166
 compaction pattern, 117A11:357
 composition, 127/128B(1)6:82–85; 146B(1)6:129–133
 concentration, 182A1:55
 concretions, 165B7:130–131
 continental source, 117A8:181–182
 Cretaceous–Tertiary interval, 103B8:120
 crystallography, 101B13:200; 107B13:191; 164B13:145; 175B15:6–7
 cycles, 133B17:242–246; 166B6:66–68
 deep-burial diagenesis, 101B13:197
 degree of order, 160B34:445; 54:965
 degree of saturation, 123B3:79
 density, 103A10:435, 437; 143B28:423–429
 deposition, 166A3:33–34; 210A3:62
 developmental stages, 103B11:185–186
 dewatering, 146B(1)15:266
 diagenesis, 107B13:198–199; 112A11:168; 143B31:523; 144B16:325, 327; 150B17:313–328; 150X_B3:30, 36–37; 160B33:429; 161A5:146; 7:319; 161B33:425; 164A6:149; 9:314; 164B13:139–146; 166A9:255; 166B17:190–191; 175A9:256; 180A9:41–44; 180B6:19; 182B1:10–12
 dolomicrite, 101B13:197
 dolomitizing solution, 107B10:148; 13:198
 dropstones, 167A(1)11:290
 electron microprobe data, 160B33:428
 eolian sources, 117A9:244
 evaporation loop, 103B9:152
 Exuma Sound, 101A1:7–8; 11:448; 101B11:175; 13:197–201; 15:215–219, 225–228; 18:284–285; fissures, 103B8:118–127, 130–133, 140–143
 fluid inclusions, 103B9:150–152; 139B21:413–416
 fluorescence, 180B10:5
 formation, 101B29:468–469; 107B13:135; 117A8:180; 11:347; 117B30:508–510; 127A1:23; 127/128B(1)6:85, 93
 Formation MicroScanner imagery, 127A6:307; 128A4:184; 5:368; 143B21:333
 fractures, 103B8:120, 123–126, 143; 10:158–160; 11:186–187; 45:821
 Funakawa Formation, 127/128B(1)6:75
 Galicia margin W, 103A10:462; 103B4:44–48; 8:109; 11:173; 45:819–821, 825
 gas data, 103B9:147–153
 genesis, 133B35:513–523
 geochemistry, 103B10:162–168; 117A11:369–370; 127/128B(2)88:1399; 139B14:315; 144B59:1001; 171B_A6:287; 171B_B4:4–5, 14–26; 187A13:14
 hard streaks, 117A11:356–357
 hemipelagite, 161B8:104
 homogenization temperatures, 103B9:152
 hydrologic mechanism, 107B10:146–147
 hydrothermal alteration, 139B12:298–302
 Indus Fan, 117A8:160
 isotopes, 127/128B(1)6:83
 isotopic covariance, 107B10:144–145, 148
 Jurassic–Cretaceous interval, 103B9:145, 155
 layers, 128A5:274–275; 186A4:184
 Lima Basin, 112A11:161, 164, 167, 198; 16:526; 19:809–810; 112B29:484
 lithofacies, 175A16:494–495, 504, 541
 lithology, 103A10:419–423, 450–451; 103B10:158–162; 11:181–183; 149A4:59–62; 8:266; 150A7:146; 157A8:402; 159A6:163; 160A9:296; 160B34:438–439, 442; 164A5:75, 78; 6:109–111; 7:180–182; 9:285; 165A5:238–239, 260; 7:364–368; 166A7:155–156; 167A(1)13:358–359; 14:393, 395; 169A4:164; 5:209; 169B10:15; 170A5:161; 171B_A6:257–258; 172A3:38–40; 4:84, 91; 6:258–259; 173A4:71–75; 174A_A3:57–58; 4:113–115; 5:163; 175A4:91; 5:119; 6:150; 7:179; 180A9:12; 12:5; 180B6:6, 12; 184A7:8–9; 9:10; 186A1:14; 4:16–17, 22; 5:14; 187A13:6; 190A4:8; 194A3:6–7; 4:7–10; 5:4; 8:5–9; 9:4–8; 197A3:9; 199A10:8; 11:9–10; 13:9; 201A7:12; 8:12–13; 9:9; 201B13:16–21; 204A10:9
 Little Bahama Bank, 101A1:7–8A; 6:142–143, 152; 7:217
 magnesium, 101B24:376; 103B9:147–148; 107B10:144–147; 112B25:428; 117B30:511; 181A6:29
 magnesium/calcium ratio, 103B8:122–123
 major elements, 127/128B(2)78:1241

- Marsili Basin, 107A6:142
 Mascarene Plateau, 115A5:243
 massive sulfides, 139B18:377
 matrix, 187A13:7
 Mesozoic, 103B4:39
 Messinian, 107B1:23
 mineralogy, 107B13:197; 112A6:98; 166A9:255
 Miocene, 123B3:79; 41:786; 133B34:500
 moldic porosity, 133B45:666, 672
 Monterey Formation, 127/128B(1)6:75
 Mossbauer parameters, 127/128B(1)43:740–741
 Neogene, 159A9:308
 nodules, 127A4:113; 5:186–187, 199; 7:343;
 128A5:275; 133B56:792–794; 138A(1)10:204;
 164B29:293
 Northwest Providence Channel, 101A12:498; 13:535–
 536
 occurrence, 101B11:173; 127/128B(1)6:80
 Onnagawa Formation, 127/128B(1)6:75
 oolite, 143B8:114
 ooze, 133A(1)9:306
 organic content, 112A1:16–17; 117A11:326
 origin, 101B20:289; 115A4:144; 150B17:313–317
 oxidation halos, 183A8:21–22
 oxygen, 103B8:122, 128–130; 9:147, 151–152; 11:186
 oxygen isotopes, 107B1:23; 10:149; 127/128B(1)6:83,
 89; 166B8:97; 204B13:6–8
 paleoenvironment, 127/128B(1)6:94
 paleomagnetism, 103A10:430
 palygorskite association, 117B16:192b
 patches, 128A5:274
 percentage, 143B18:299; 166B13:141; 194A8:80; 9:71
 Peru margin, 112A1:16–17; 6:97
 petrography, 127/128B(1)6:81; 160B36:456;
 161B7:86–87
 petrophysics, 143B18:301
 photograph, 141B8:113; 145A3:46; 150X_B3:45;
 159A5:83; 161B25:341; 164A6:109; 7:182–183;
 183A1:91; 8:71–72; 185A4:86; 186A4:100;
 187A13:34; 199A10:27; 201A10:35
 photomicrograph, 133A(1)10:365; 133B35:522;
 160B1:8; 38:506; 161B2:36; 25:342–344;
 173A4:80; 183A8:56; 187A13:22–23, 36–37
 physical properties, 103A10:435, 437; 112A20:924
 Pisco Basin W, 112A18:709, 713, 720, 735
 pore water, 127/128B(2)79:1265; 161A9:404;
 166A8:191; 175A3:72–73; 4:101; 6:164;
 182A1:21; 194A3:15
 porphyroblasts, 173A8:245–249
 potassium logs vs. photoelectric effect logs, 178A5:85
 precipitation, 107B10:146, 150; 117B30:508, 510;
 123B3:77, 82; 127/128B(1)6:92–93;
 133B36:530–531; 174A_A3:74; 175A5:130;
 16:494–498; 20:551; 175B(synthesis):4;
 180A9:40
 productivity, 175A16:495, 498
 pyrolysis, 103B8:148–151
 quartz association, 117A9:233, 241
 recrystallization categories, 127/128B(1)6:81, 92–93
 reprecipitation, 175A20:550–551
 rhombs, 101B11:177; 13:200; 123B3:87–88;
 128A5:273–274
 rifting, 103B9:153; 10:168
 Salaverry Basin, 112A12:254, 259, 267, 274; 13:308,
 313
 sand, 161B8:105
 sandstone, 127/128B(1)9:141–143
 Sardinian margin, 107B13:182, 210; 37:610
 scanning electron micrograph, 127/128B(1)6:98;
 150B17:327; 159B16:156; 174A_B7:46, 54;
 175B15:12
 schist interlayers, 161B19:264–265
 sedimentation, 128A4:148; 161B2:29
 sediments, 133A(1)5:147, 157; 10:379; 12:477;
 13:526; 14:583–585; 15:635; 149B40:748–749;
 159A7:244; 160B35:447–448; 45:581; 161B1:11;
 164A8:247; 166A6:95; 7:162, 164; 8:192;
 10:317; 11:365, 372; 166B14:148–151; 172B5:4;
 173A:13; 178A4:22; 182A1:15; 4:31–32, 41;
 7:21, 23; 8:6–7, 25; 9:19; 12:21; 182B7:3–4;
 10:1–14; 12:4–5; 183A8:5; 194A3:17; 4:110–111;
 5:101; 6:88; 7:139, 146; 201A1:34
 seismic stratigraphy, 117A11:343, 345; 127/
 128B(2)72:1141, 1143; 128A1:34; 4:125
 shallowest recurrence, 128A5:273
 siliciclastics, 189B11:3–4
 Site 682, 112A14:373
 Site 685, 112A17:599
 Site 688, 112A20:880, 887, 929
 Site 703, 114A10:558
 Site 708, 115A6:416
 Site 716, 115B35:648
 Site 721, 117A9:240
 Site 722, 117A10:282
 Site 723, 117A11:325–326; 12:351–352; 117B30:508
 Site 725, 117A13:434
 Site 765, 123A4:98–100, 103; 123B2:74–75
 Site 795, 127A5:187–188
 Site 796, 127A6:266
 Site 798, 128A4:137–138, 147–150, 174
 Site 799, 127/128B(1)2:38, 40–41; 6:75–98; 34:611–
 612; 128A5:240, 260, 272–278, 289, 354
 Site 1035, 169A3:130–134
 Site 1036, 169A4:188–196
 Site 1037, 169A5:227–231
 Site 1038, 169A6:292–293
 size trends, 101B13:194
 sources, 101B24:375–378; 117B9:202; 16:192
 spectra, 134B9:150
 stable isotopes, 107B13:191–192, 197–199, 202
 Straits of Florida, 101A1:8; 5:52
 strontium, 103B9:147–150
 strontium isotopes, 107B37:608–609
 sulfate, 103B9:146–153; 123B3:82
 sulfide mineralization, 169A3:70
 sulfur, 103B9:146–148
 Sulu Sea, 124B40:527–530
 synthetic seismograms, 128A4:184
 tectonic breccia, 103B8:120
 temperature of formation, 107B10:147–148

- textures, 103B8:116–118, 123–126; 9:146; 127/
128B(1)6:81; 141B8:106
- time variations, 133B17:245–246
- Tithonian, 103B4:40–41
- Tithonian–Cretaceous interval, 103B4:50
- Trujillo Basin, 112A16:526–529, 534–536, 539, 553
- Tyrrhenian Sea, 107A7:302; 107B10:146
- upward-shoaling sequences, 101B13:197
- upwelling, 117A11:325; 175A1:16–17
- Valanginian, 103B8:120–125
- velocity, 103A10:435, 437
- volcanics, 161B44:568; 201B19:8–10
- volcaniclastics, 134B9:138–144
- vs. age, 189B11:9–12
- vs. carbonate content, 161B7:88
- vs. compressional wave velocity, 160B42:537–538
- vs. depth, 133A(1)9:319; 15:626–627; 150A6:74;
7:144; 8:214; 9:267; 151B24:421–425;
160B34:445; 54:965; 161B1:14; 2:22–24;
164A5:74; 164B15:155; 166B6:66, 68; 13:141;
14:151; 171B_B4:7; 182A4:68; 5:49; 7:51; 8:55;
9:45; 10:57; 182B7:7–12; 9:15; 10:7, 10; 11:8;
12:9; 183A8:70; 184A5:40; 6:31; 7:44; 186A4:91;
5:54; 194A4:81; 194A5:66; 6:50; 7:87, 89, 92;
8:54; 9:45
- vs. strontium, 160B35:450
- well-logging, 127A6:302; 128A1:34; 5:245, 332–333,
340–341; 173A:51–61
- X-ray diffraction data, 127/128B(1)6:79–80;
129B3:87; 144A8:304; 150A9:287; 174A_A3:59;
4:116; 5:163; 160B33:427–428; 37:474;
164A6:112; 172B5:21; 175A9:235; 10:281–282;
186A4:87, 89; 194A4:22; 5:17–18; 6:14; 7:25–27;
8:18; 9:17; 201A9:10, 36; 10:38; 201B13:17;
204A6:34; 10:50
- X-ray fluorescence data, 161A6:237
- Yaquina Basin, 112A15:442
- zoning, 139B17:355–358
- See also* ankerite; calcite; calcite/dolomite ratio; protodolomite; siderite
- dolomite, allochthonous, Site 685, 112A17:603
- dolomite, anhedral, photomicrograph, 201B13:33
- dolomite, authigenic
carbon isotopes, 112B7:101
carbonate-fluorapatite cement, 112B8:131
Lima Basin S, 112A19:834
lithology, 167A(1)4:56; 201A9:11; 10:9–12; 11:12;
202A13:6–9
oxygen isotopes, 112B7:101
photograph, 175A6:155–156
photomicrograph, 164A5:75
Salaverry Basin, 112A13:328
Site 682, 112B7:101
- dolomite, biomoldic, 117A14:446–447, 450
- dolomite, blocky, petrography, 175B15:6
- dolomite, brecciated
bedding, 112A20:882–883
photograph, 201A11:47
- dolomite, brown marbled, 103B11:181–182
- dolomite, calcareous
Argo Abyssal Plain-Exmouth Plateau, 123B3:79
- Oman margin S, 117A14:450
- dolomite, diagenetic
mineralogy and petrography, 201B13:1–34
Oman margin N, 117A4:49
- dolomite, ferroan
origin, 133B36:532
paramagnetism, 164A5:84
- dolomite, lithified, Pisco Basin W, 112A18:736
- dolomite, massive, genesis, 143B11:161–169
- dolomite, microbrecciated, Peru margin, 112A6:101
- dolomite, microcrystalline, photomicrograph, 164A5:80
- dolomite, microsparitic, euhedral rhombs, 201B13:5–6
- dolomite, organogenic, sediments, 175B15:1–17
- dolomite, pore-lining, photomicrograph, 133B34:506
- dolomite, sandy, lithology, 159A5:81–82
- dolomite, siliceous, Site 799, 127/128B(1)2:43
- dolomite, sucrosic
isotopes, 143B6:100–102
light color, 103B11:181–183
photomicrograph, 194A4:45
- dolomite, zoned, petrography, 175B15:6
- dolomite abundance index, 175A16:496–498
- dolomite beds, lithology, 164A9:283
- dolomite cement. *See* cements, dolomite
- dolomite crystals
lithology, 182B12:4–5; 199A11:10
photograph, 199A13:40
photomicrograph, 182B12:8; 194A7:62
sediments, 183A8:4
- dolomite layer thickness
lithology, 186A5:15
vs. depth, 175A9:272; 16:495; 10:312; 12:384
- dolomite lens, photograph, 201A9:34
- dolomite marble. *See* marbles, dolomite
- dolomite nodules. *See* nodules, dolomite
- dolomite rhombs
abundance, 175A9:498; 10:498
calcareous nannoplankton, 112A12:263
electron microprobe data, 144B48:858
lithology, 175A4:91; 5:119; 9:233; 10:281; 182A10:10;
11:6; 182B12:4–5
photograph, 144B16:334; 199A10:27
photomicrograph, 194A5:46; 201B13:23–31
Salaverry Basin, 112A13:311–312
scanning electron microscopy, 164B30:306
- dolomitic rocks
photograph, 194A5:40
See also dolostone
- dolomitization
alkalinity, 127A7:362; 133A(1)15:636, 638
authigenesis, 101B24:375–376
breccia, 161B25:335–336
brittle deformation, 161B44:568
calcite replacement, 112A15:464
calcium replacement, 112A1:17
carbonate platform accretion, 194B2:6
causes, 101B13:197–198
composition, 146B(1)6:129–133
convection processes, 101B24:377
Cretaceous, 143B9:120
deposition, 166A3:36, 39

- diagenesis, 124B14:209, 211; 144B48:869;
146B(1)25:381–382; 160B33:429; 180A9:41–42;
182B12:4–5; 201B13:9–11
- dissolution, 133A(1)12:485
- fabric, 133B45:679–680
- Formation MicroScanner imagery, 143B21:333
- glauconite, 150B10:178
- Gortani Ridge, 107B1:15
- intertidal facies, 143B9:123–124
- Lima Basin C, 112A11:184
- limestone, 143A7:207–209
- lithofacies, 182B4:10
- lithology, 133A(1)14:576–578; 143A7:199; 166A6:80;
8:178–179; 194A4:8; 5:4–6; 7:6–7, 10–11, 15;
8:4–9
- magnesium, 112B25:426; 124B14:214–215
- Marsili Basin, 107B1:15
- mechanism and timing, 133B52:769
- Miocene, 133A(1)10:386, 388; 133B33:489–498;
34:502–503
- nodular structure, 133B56:793
- Owen Ridge, 117A0:229–230
- Peru margin, 112A20:878
- photograph, 143B11:166; 13:229; 194A7:60
- physical properties, 112B41:628–629
- pore water, 127/128B(1)34:607; 150A9:289–290;
160B35:450; 166A7:162; 175A4:101; 8:212–213;
11:325–326; 12:368
- rates, 107B10:148
- seawater circulation, 101B13:198
- sediments, 133A(1)10:361–362; 173A4:92; 190A6:17
- seismic stratigraphy, 166A10:327
- Site 651, 107B1:15
- Site 799, 128A5:320–321
- Sulu Sea, 124A11:235, 239
- textures, 133A(1)10:357
- timing, 133B34:508–509
- Weddell Sea, 113B10:140
- well-logging, 194A7:35–36
- dolostone
- carbonate platform accretion, 194B2:5–7
- diagenesis, 167A(1)11:290
- gas hydrates, 175A21:560
- lithology, 167A(1)8:181, 183; 13:358–359; 16:468;
180A6:26; 194A7:8–11, 14
- Mascarene Plateau, 115A5:243
- photograph, 151A8:231; 194A7:64
- X-ray diffraction data, 194A7:25
- See also* dolomitic rocks; snowstone
- dolostone, reddish, photograph, 194A7:65
- dolostone, sucrosic
- lithology, 133A(1)5:146, 148
- photograph, 194A4:44; 7:61
- dolostone, variegated
- photograph, 194A7:63
- photomicrograph, 194A7:62
- domain structure
- basalts, 187B7:6
- lithofacies, 190A9:6–9
- magnetism, 150B19:349–358; 180B20:1–15
- magnetite, 164B38:404
- photograph, 193A3:127–128
- photomicrograph, 193A3:131–133, 135–136, 164
- sediments, 182A1:13; 190A9:9–11
- titanomagnetite, 132B3:42
- See also* pseudosingle domains
- domains, bacterial habitation, 193A3:225
- domes
- seismic units, 204B2:7–8
- tectonics, 204B2:10
- dominance/diversity ratio, foraminifers, 183B2:7–8, 24
- “doubthouse” effect
- Oligocene–lower Miocene, 189A1:16, 30
- sedimentation, 189B1:4
- stratigraphy, 150X_B1:6–7
- downhole electronic gauge, records, 148A3:175
- downhole flow, vs. depth, 139A7:415, 563
- downhole links, seafloor instruments, 186A3:15–16
- downhole logging
- Barbados Ridge N, 156A6:160–164
- lithofacies, 175A16:493–494
- Site 899, 149A6:198–200
- Site 900, 149A7:253–256
- Site 902, 150A6:105–111, 117
- Site 903, 150A7:178–183, 190
- Site 904, 150A8:239–241, 245
- Site 905, 150A9:301
- Site 906, 150A9:293–295; 10:336–338, 345
- Site 931, 155A7:148, 150, 153–160
- Site 933, 155A9:222–228
- Site 934, 155A10:262–264
- Site 935, 155A11:302–305
- Site 936, 155A12:354–355, 358, 360
- Site 940, 155A16:482–485
- Site 944, 155A20:614–619
- Site 946, 155A22:679–682
- Site 1003, 166A6:98–104
- Site 1005, 166A8:195–201
- Site 1006, 166A9:258–260
- Site 1007, 166A10:320–324
- Site 1071, 174A_A3:88–95
- Site 1072, 174A_A4:135–146
- Site 1073, 174A_A5:182–187
- Site 1077, 175A5:138–139
- Site 1082, 175A10:301–304, 306
- Site 1084, 175A12:379–380
- Site 1085, 175A13:414–416
- Site 1087, 175A15:476–477
- See also* core-log correlation; downhole logging; seismic-log correlation; well-logging
- downhole measurements
- basalts, 143B23:381–388
- basement, 206A3:93–97
- carbonates, 144B17:337–359
- correlation with physical properties, 182A8:27
- Côte d’Ivoire-Ghana Transform margin, 159B21:212
- Demerara Rise, 207A1:47–48
- density, 176B5:9–12
- gas hydrate proxies, 204B1:12–13; 22:1–25
- geochemical tool string, 129A2:72; 3:147; 4:223
- Gran Canaria, 157B4:39–46
- Hess Deep, 147B28:467

- Iberia Margin W, 173A3:49–61
 igneous basement, 139B36:573–583
 Juan de Fuca Ridge, 139A7:523–528
 Lau Basin, 135A(1)1:41–44; 135B7:104
 lithology, 129B30:532
 magnetostratigraphy, 144B38:641–647; 145B30:455–468
 nitrogen, 148B1:3–7
 oceanic crust, 144B39:649–671
 onshore log processing, 145B46:677–688
 Ontong Java Plateau, 130A2:40–41
 paleoenvironment, 160B38:483–508
 physical properties, 160B42:535–543
 Pigafetta Basin summary, 129A2:73; 3:150; 4:226
 pore morphology, 133B45:661–686
 quad combination tool string, 129A2:71; 3:146; 4:222
 seamounts, 144B37:631–638
 sedimentology, 138B18:421; 206A3:49–52
 sediments, 131A7:279–280; 182A1:15–16
 shore-based interpretation, 176A3:92–96
 Site 504, 148A2:73–81
 Site 735, 176A1:25–26; 3:81–96, 314
 Site 800, 129A2:68–75
 Site 801, 129A3:144–152; 185A3:38–47
 Site 802, 129A4:219–227
 Site 808, 131A6:176–185, 188–195, 251
 Site 812, 133A(1)5:158–170
 Site 814, 133A(1)7:222–226
 Site 815, 133A(1)8:272–284
 Site 816, 133A(1)9:321–324
 Site 817, 133A(1)10:373–379
 Site 819, 133A(1)12:473–479
 Site 820, 133A(1)13:531–541; 133B23:315–325
 Site 821, 133A(1)14:589–592
 Site 822, 133A(1)15:642–649
 Site 823, 133A(1)16:719–725
 Site 824, 133A(1)17:785–788
 Site 825, 133A(1)4:110–112, 128–130
 Site 827, 134A7:122–123
 Site 829, 134A9:223–229
 Site 830, 134A10:286–293
 Site 831, 134A11:351–354
 Site 832, 134A12:431–435
 Site 833, 134A13:518–520, 524–526
 Site 834, 135A(1)4:159–169
 Site 835, 135A(1)5:230–231, 234, 237–242
 Site 838, 135A(1)8:379–388
 Site 839, 135A(1)9:462–465
 Site 840, 135A(1)10:549–557
 Site 841, 135A(1)11:655–660
 Site 844, 138A(1)9:159–162
 Site 845, 138A(1)10:232–236
 Site 846, 138A(1)11:307–311
 Site 847, 138A(1)12:362–370
 Site 848, 138A(2)13:705, 709–711
 Site 849, 138A(2)14:756–757, 760–762
 Site 850, 138A(2)15:844–848
 Site 851, 138A(2)16:926–930
 Site 852, 138A(2)17:999–1002
 Site 856, 139A6:247–255
 Site 857, 139A7:359–368
 Site 865, 143A2:17; 6:147–157; 143B24:389–393
 Site 866, 143A2:22; 7:237–241
 Site 869, 143A2:26; 9:337, 340–343
 Site 871, 144A3:77–85
 Site 872, 144A4:137–138
 Site 873, 144A5:188–198
 Site 874, 144A6:238–244
 Site 877, 144A8:309–310
 Site 878, 144A10:377, 382–396
 Site 879, 144A11:432–435
 Site 881, 145A3:55–57
 Site 883, 145A5:155–157, 160–167
 Site 884, 145A6:247–251, 264–265, 270–271
 Site 887, 145A8:359–361
 Site 888, 146A(1)4:95–98
 Site 891, 146A(1)6:278–282
 Site 892, 146A(1)7:359–369
 Site 894, 147A3:102–105
 Site 896, 148A3:166–175; 148B29:375–388
 Site 907, 151A5:92–95
 Site 908, 151A6:139–149
 Site 909, 151A7:200–205
 Site 910, 151A8:255–261
 Site 911, 151A9:297–304
 Site 925, 154A4:117–123
 Site 926, 154A5:202–232
 Site 927, 154A6:255–260, 263–268
 Site 928, 154A7:319–336
 Site 929, 154A8:371, 380–417
 Site 950, 157A4:81–87
 Site 953, 157A7:363–372
 Site 955, 157A9:464–468
 Site 956, 157A10:530–533
 Site 959, 159A5:116–123
 Site 960, 159A6:200–204
 Site 962, 159A8:290–291
 Site 965, 160A6:141–142
 Site 966, 160A7:192–196
 Site 967, 160A8:255, 258–263
 Site 968, 160A9:321–324
 Site 970, 160A11:399
 Site 971, 160A12:444–445
 Site 973, 160A14:489–491
 Site 974, 161A4:91–93
 Site 975, 161A5:153
 Site 976, 161A6:242–244
 Site 977, 161A7:323–328
 Site 979, 161A9:409
 Site 994, 164A6:122–124, 136–144
 Site 995, 164A7:193–197, 207–215
 Site 996, 164A8:261–262
 Site 997, 164A9:295–297, 307–310
 Site 998, 165A3:88–95
 Site 999, 165A4:186–194
 Site 1000, 165A5:269–274
 Site 1001, 165A6:336–341
 Site 1011, 167A(1)5:109–110
 Site 1014, 167A(1)8:196–198
 Site 1016, 167A(1)10:264–266
 Site 1018, 167A(1)12:334–336
 Site 1019, 167A(1)13:371–372

- Site 1020, 167A(1)14:411–414
 Site 1022, 167A(1)16:477–479
 Site 1039, 170A3:80–89
 Site 1040, 170A4:142–151
 Site 1042, 170A6:207–208
 Site 1043, 170A7:238–247
 Site 1050, 171B_A4:154
 Site 1051, 171B_A5:217–226
 Site 1052, 171B_A6:295–302
 Site 1065, 173A4:94–98
 Site 1068, 173A7:211–212
 Site 1069, 173A8:254–256
 Site 1095, 178A4:27–30, 87
 Site 1096, 178A5:26–29
 Site 1103, 178A9:19–22
 Site 1108, 180A5:40–42
 Site 1109, 180A6:69–76
 Site 1114, 180A8:38–43; 180B24:15
 Site 1115, 180A9:52–58
 Site 1118, 180A12:45–51
 Site 1119, 181A3:27–29
 Site 1122, 181A6:33–34
 Site 1123, 181A7:43–46
 Site 1124, 181A8:36–39
 Site 1125, 181A9:22–25
 Site 1126, 182A4:35–39
 Site 1127, 182A5:23–25
 Site 1128, 182A6:33–36
 Site 1129, 182A7:26–28
 Site 1130, 182A8:28–30
 Site 1131, 182A9:23–26
 Site 1132, 182A10:29–31
 Site 1134, 182A12:23–26
 Site 1137, 183A5:54–58
 Site 1139, 183A7:56–58
 Site 1140, 183A8:29–32
 Site 1149, 185A4:41–47
 Site 1150, 186A4:49–57
 Site 1151, 186A5:33–35
 Site 1165, 188A3:62–68
 Site 1166, 188A4:36–42
 Site 1167, 188A5:31–34; 188B14:31
 Site 1168, 189A3:47–52
 Site 1170, 189A5:52–55
 Site 1171, 189A6:56–60
 Site 1172, 189A7:48–50
 Site 1173, 190A4:30–34, 146
 Site 1179, 191A1:17–18; 4:40–43
 Site 1186, 192A6:25–29
 Site 1188, 193A1:17; 3:86–96
 Site 1189, 193A1:21; 4:59–65
 Site 1194, 194A5:22–27
 Site 1195, 194A6:21–23
 Site 1196, 194A7:36–40
 Site 1198, 194A9:21–22
 Site 1199, 194A7:32–36
 Site 1201, 195A4:41–44
 Site 1203, 197A3:40–46
 Site 1207, 198A3:40–44
 Site 1213, 198A9:32–33
 Site 1218, 199A11:32–37
 Site 1219, 199A12:33–39
 Site 1224, 200A4:49–55
 Site 1225, 201A6:32–35
 Site 1226, 201A7:34–37
 Site 1228, 201A9:25–28
 Site 1229, 201A10:28–31
 Site 1230, 201A11:32–35
 Site 1238, 202A9:21–23
 Site 1239, 202A10:20–22
 Site 1241, 202A12:17–18
 Site 1243, 203A3:22–27
 Site 1244, 204A3:29–40
 Site 1245, 204A4:22–33
 Site 1246, 204A5:14–19
 Site 1247, 204A6:17–25
 Site 1248, 204A7:18–23
 Site 1249, 204A8:20–33
 Site 1250, 204A9:19–29
 Site 1251, 204A10:25–37
 Site 1252, 204A11:16–20
 Site 1253, 205A1:22–23; 4:7–9, 53–64; 205B13:13
 Site 1254, 205A1:32–33; 5:7–8, 37–39
 Site 1257, 207A4:29–35
 Site 1258, 207A5:33–39
 Site 1260, 207A7:33–38
 Site 1261, 207A8:31–37
 Site 1263, 208A4:21–25
 Site 1265, 208A6:25–31
 Site 1268, 209A3:48
 Site 1271, 209A6:36–37
 Site 1272, 209A7:32–36
 Site 1274, 209A9:27
 Site 1275, 209A10:37–41
 Sites 867–868, 143A8:286–288
 Sites 875–876, 144A7:280–284
 Sites 1028–1032, 168A6:180–181
 Sites 1060–1062, 172A5:235–245
 Sites 1063–1064, 172A6:294–304
 structural data, 148B16:236–237
 synthesis, 152A9:145–151; 152B38:453–462;
 198A1:58–60
 temperature, 141B20:261–267
 tools, 139A3:43–53
 Vanuatu, 134B36:625–643
 Woodlark Basin, 180A1:27–29
See also core-log comparison; well-logging
 downhole packers, permeability, 135B50:805–816
 downhole tools
 Site 1225, 201A6:31–32
 Site 1226, 201A7:33–34
 Site 1227, 201A8:26–27
 Site 1228, 201A9:23–25
 Site 1229, 201A10:27–28
 Site 1230, 201A11:31–32
 Site 1231, 201A12:25–26
 downwarping, basins, 134B10:220
 downwelling
 accumulation rates, 182A5:9
 oxygen isotopes, 121B22:452
 drainage basins, clay mineralogy, 189A3:16–17
 drainage systems, glaciology, 188A1:6–7

- drape deposits
 lithology, 173A8:234–236
 pelagic, 173A8:237
 uppermost Quaternary, 182A1:5
- dredge samples
 carbonate platforms, 143B30:471–493
 mantle domains, 187B1:11–12
 planktonic foraminifers, 183B2:3–6
 radionuclides, 149B44:678–684
- drift deposits
 accretion, 181A3:1–112; 181B1:1–111
 Atlantic Ocean N, 105B25:424; 51:980
 Baffin Bay, 105B51:975–976
 biogenic opal, 178B23:8–17
 biopelagic accumulation, 181B1:45–49
 biostratigraphy, 178B13:1–22
 clay mineralogy, 178B8:1–29
 continental rise, 178A1:5–11, 24–27; 2:13–15;
 178B(synthesis):9–17, 24
 cyclic sedimentation, 198A3:15–17
 deposition, 178A1:3; 2:4–5
 development, 181A3:35
 Eirik Ridge, 105B25:424; 51:986–987
 glacial signal, 178B10:1–22
 Gloria Drift, 105B51:986–987
 ice cores, 177A1:10
 Labrador Sea, 105B51:968
 lithology, 177A4:8; 181A1:29–31; 3:5–8; 6:8–9; 7:5–9;
 181B1:14–15
 magnetic minerals, 178B14:1–12
 magnetostratigraphy, 178B37:1–61
 marine sedimentation, 181A1:10
 mineralogy, 145B43:657–660
 Oligocene, 181B1:56–57
 pebbles, 178B11:1–23
 photograph, 181A3:43
 physiography, 178B8:3–4
 Pleistocene, 162A3:87–88
 rock magnetism, 178B14:1–12
 sedimentation, 152B1:8–17; 178B(synthesis):16–17;
 188A1:4, 10–11
 sediments tongues, 145B38:587–589
 stratigraphy, 152B1:14–17; 188B1:8–9
See also hemipelagic drifts
- drifting
 Early Cretaceous, 129B32:578
 uppermost Jurassic, 129B32:578
- drill bits, photograph, 198A5:41
- drill moments, magnetic effects, 157B5:53–56
- drilling
 accretionary prisms, 156A1:5, 11
 advanced piston corer, 202A1:8, 144
 bottom-hole assembly, 132A1:8
 Cenozoic, 151A1:22–26
 contamination, 201A2:1–19
 data, 130A10:497–500
 deformation, 161B11:134–135
 depth, 206A1:42–43; 3:104
 development, 142A1:8–21
 diagrams, 132A1:10–11
 disturbance, 160B37:468–469
 drill string packer, 131A5:61–62
 effect of backarc evolution, 135B51:826–827
 effect on magnetization, 157B5:47–69
 effect on seismic data, 200A4:62
 electrical resistivity, 139A7:387, 393
 equipment systems, 124E_A2:19–21
 fluid control systems, 124E_A9:59
 hard rock base, 176B(narrative):20
 high-resolution methods, 138A(2)20:1095–1096
 history, 137A2:18–21; 140A2:49
 Hydril drill string, 124E_A4:37–38
 lithology, 179B1:1–17
 normal faults, 160A16:507–511
 Norwegian-Greenland Sea, 151B1:14–21
 operations, 206A3:112–118; 206B1:14
 penetration rates, 134A11:330; 143A6:117;
 144A7:283; 8:312; 10:386–387
 platforms, 142A5:104–106
 recovery, 148A2:38, 130
 sediment disturbance, 146B(1)11:198
 Site 735, 176B(narrative):6–9
 tools, 139A3:43–53
 troughs, 190A1:47
See also advanced piston corer; diamond coring system; extended core barrel; hammer-drilling system; IKU/Bucentaur drill system; reentry holes; rotary core barrel; seal assemblies
- drilling fluid, contamination, 210A4:19
- dropstones
 carbon, nitrogen, and sulfur, 151A6:134
 clastic sediments, 105B5:65, 67
 composition, 105B5:68; 149A7:234–235; 152A11:196
 dark-light cycles, 127/128B(1)33:581
 distribution, 152A12:263
 dolomite, 167A(1)11:290
 Eh/pH conditions during alteration, 119B16:314
 first occurrence, 105B2:23; 5:67
 glacial marine origin, 113A5:96
 glaciation, 151B17:311
 Gloria Drift, 105B5:67–68
 ice-rafted debris, 152A13:283; 152B11:154, 156
 igneous rocks, 105B5:68
 Japan Sea, 127/128B(2)78:1229–1230
 Labrador Sea, 105B5:65–68; 6:75
 Lambert Glacier drainage, 119B1:20
 larger than 1 cm in diameter, 151A5:62; 7:166–167;
 8:231; 10:323–324; 11:357; 162A3:65; 4:106;
 5:154; 6:186; 7:238; 8:265; 9:304
 lithology, 105B5:65–69; 145A3:45; 151A5:67–69;
 6:117–118, 122; 7:166, 171; 8:227–230; 9:275–
 277; 10:322–326; 11:353–360; 13:411;
 152A6:57–62; 8:92; 9:113–114; 10:167–168;
 11:194–196; 12:262–264; 162A3:58; 4:105–106;
 5:149; 6:181, 184; 7:227; 8:261; 9:296, 298;
 10:353–356; 169S_A2:24–25; 177A4:7; 7:4–5;
 9:7
 mass accumulation rates, 105B5:67–69
 Matuyama/Gauss boundary, 145A3:61
 mineralogy, 119B10:198; 145B43:657–660
 Northeast Georgia Rise, 114A5:94; 6:156, 193, 199
 number, 151A13:410; 162A9:301

- occurrence, 151A8:232; 9:280; 10:325–326; 11:355–356; 13:410
- Oligocene, 119B10:201
- paleoceanography, 145A4:101–102
- pebbles, 178B11:4–5
- petrography, 151A13:409–411
- photograph, 141A10:354; 145A3:44–45; 6:221; 151A5:64; 6:119–120; 8:231; 9:274; 11:355; 152A6:59; 11:197, 200; 162A3:64–65; 9:302–303; 174A_A5:1; 177A6:31; 178A8:40
- Pliocene–Pleistocene growth model, 119B49:888
- pumice, 130A8:306
- rock types, 152A12:264
- sedimentary rocks, 105B5:65–68
- sedimentation, 145A6:219
- sediments, 145B34:502–503; 162A8:268
- Site 701, 114A8:369
- Site 702, 114A9:489
- Site 739, 119A8:301
- Site 742, 119A11:409–410, 413
- Site 744, 119A13:479
- Site 795, 127/128B(2)78:1256
- sources, 145A6:274
- stratified mudstone, 119B6:89, 107, 127, 130
- turbidites, 135B7:105
- vs. depth, 145A4:90; 5:129; 6:218; 8:342; 151A6:118; 7:167; 9:278; 152A11:196
- weathered clasts, 135B52:835
- X-ray radiography, 178B10:21
- dropstones, andesite, lithology, 145B12:196–203
- dropstones, basalt
- photograph, 145A3:44
- pyroxenes, 145A3:45
- dropstones, crystalline, photograph, 162A5:154
- dropstones, depleted end-member mantle, 120A7:168; 120B(1)14:210
- dropstones, ice-rafted
- Antarctic Peninsula, 113A9:463
- North Pacific transect, 145B12:195–204
- Site 689, 113A5:99–101
- Site 692, 113A7:301–304
- Site 693, 113A8:345–350
- Site 694, 113A9:463, 466
- Site 695, 113A10:539–540
- Site 696, 113A11:622–624
- sources, 113B53:952–953
- dropstones, pumice
- composition, 135B52:835
- photograph, 132A4:84; 145A3:45
- dropstones, sandstone, lithology, 145B12:203
- dropstones, tuff, photograph, 145A3:44
- drowning
- atolls, 144B14:286–289
- carbonate platforms, 144B8:165–168; 9:190–191; 24:455; 33:577–578; 45:785–786; 52:929–932
- Cenozoic echinoderms, 133B27:401
- East Australia Current, 133B7:94
- Eastern Fields Reef, 133A(1)1:23
- Eastern Plateau, 133A(1)1:23
- eccentricity time series analyses, 133B15:196, 199
- guyots, 144B16:328–329; 18:374–375; 32:554; 49:884–885; 53:947
- microfacies, 133B21:299
- Miocene, 133B27:394–395
- sediments, 133A(1)4:109, 123–125; 5:158–160, 163–169; 6:194, 197–199; 7:221, 224, 230, 235; 8:271–272, 288; 9:320–321, 331–332; 10:372, 389–391, 397; 11:438, 443–446; 12:473, 492–493; 13:527, 531, 552; 14:588; 15:655–657; 16:740–741
- volcanic edifices, 144B12:238, 241, 245–246; 17:341–342; 18:366
- vs. depth, 133A(1)9:327; 10:386; 11:439; 12:486; 13:541, 545–547; 14:597, 600–601, 605; 15:660
- dry bulk density. *See* density, dry bulk
- Dryas. *See* Oldest Dryas; Younger Dryas
- DSAG. *See* Deep Sea Archaeal Group
- DSDP holes. *See* Deep Sea Drilling Program
- dual induction tool (DIT), methods, 102A3:97, 109, 112
- dual laterolog
- logging, 148A2:75–76
- See also* laterologs
- ductile deformation. *See* deformation, ductile
- ductile structures. *See* structures, ductile
- dufreynosite, massive sulfides, 193B10:4
- dunites
- alteration, 147B14:257–261, 289; 15:293, 296; 153A3:75–76; 209A3:72; 5:11–12; 6:10, 16–17; 7:6
- clasts, 149A6:164–166
- composition, 106/109B4:36–37; 147B6:121, 123–127; 8:166–167; 173A1:12
- crystal clots, 140A2:57–58
- cumulative curated thickness, 147A4:128
- deformation, 147A4:139–140; 147B20:367–369
- digital images, 209A6:89
- dikes, 147B6:131
- electron microprobe data, 209B2:1–13
- geochemistry, 125A12:280; 147A4:144
- hybridization, 209B4:1–23
- igneous contacts, 147A4:126–127
- lithology, 147B16:117; 153B10:186–198; 209A3:4–7; 5:4–9; 6:3–5; 7:2–7; 9:2–7; 10:4–10; 210A1:23
- magnetic susceptibility, 147B24:409–411
- melting, 147B7:153; 149B23:420; 153B10:211
- metamorphism and alteration, 125B26:438
- ophiolites, 179A4:13
- origin, 147B6:127; 7:146; 149A4:82; 209A1:34–35
- petrography, 125B26:433, 435; 147B7:136, 139; 8:158–160; 209B4:3
- petrology, 125A7:121; 8:154; 11:257; 12:279; 147A1:13; 4:114–122, 127; 153A3:48–51; 153B1:14–16
- photograph, 147A4:135, 139; 153A3:53, 58; 153B3:39; 195A3:91; 209A1:112, 117; 3:59, 128; 6:91; 7:44–45, 77; 9:37, 78–79
- photomicrograph, 149B32:552; 209A5:72; 6:46–47, 58, 64, 70, 74–75, 81
- proportions, 209A1:98
- protoliths, 173A7:192–193
- replacement, 153B12:266

rifting, 147A1:6–8, 9; 149B40:636–645
seismic properties, 195B11:1–12
Site 778, 125A6:102
Site 779, 125B33:576–577
Site 780, 125B19:349
size, 106/109B4:29
spreading centers, 209B1:4–6
sulfides, 147B5:93
textures, 147B19:351
transport, 209A1:6–12
veins, 147A4:133–136; 147B14:265; 16:312;
209A5:16–17
vs. platinum + palladium, 147B4:85
X-ray diffraction data, 209A6:63–64
See also harzburgite–dunite transition
dunites, altered, photograph, 209A6:45, 51, 63–64; 9:60
dunites, amphibole-bearing
hydrothermal alteration, 209A6:15–16
photomicrograph, 209A6:76
dunites, chromitiferous, photograph, 209A6:82
dunites, metamorphic, minerals, 147A4:128–129
dunites, olivine-bearing, photomicrograph, 209A6:67
dunites, orthopyroxene-bearing serpentinized,
209A3:114
dunites, oxidatively altered aragonite-veined, 209A7:63
dunites, serpentinized
contact with sheared metagabbro, 147B14:268
dikelets, 153B11:249
magmatic differentiation, 153B11:261
petrography, 147A1:11–12
photograph, 209A6:55
sketch of macroscopic composite vein, 147A4:137
dunites, serpentinized and tectonized, 195A3:17–18
dunites, spinel, petrology, 149B21:377–395
dunites, tectonized, 125A7:121; 8:154
Duntroonian, foraminifers, 181A8:17, 19
duplexing, seismic reflection, 156A2:22
duricrusts, paleoenvironment, 159A6:175–176
dust
deposition, 145B14:219–230
flux provenance, 130B28:472–474, 477
grain size, 130B28:471–474, 477–478
mineralogy, 130B28:472–478
plumes, 108B29:466
storms, 127/128B(1)23:394
vs. age, 145B14:228
vs. depth, 145B14:227
dust, eolian
Broken Ridge, 121B9:219–221
dark–light cycles, 127/128B(1)33:594–595
Japan Sea, 127/128B(1)23:394, 401; (2)78:1238–1239
Oki Ridge, 127/128B(1)24:419
Pacific Ocean, 127/128B(1)23:394, 403
paleoclimatology, 202A1:26–30
sedimentation, 144B42:702–703
Site 756, 121A10:262; 121B9:219–221
Site 757, 121A11:309
Site 758, 121A12:363
well-logging, 127/128B(1)23:403
DWAf. *See* foraminifers, deepwater agglutinated
dynamic intensity, vs. depth, 159B43:596

dynamics
currents, 167A(1)1:6
gas hydrates, 204B1:5–10
Dynamics of Earth and Ocean Systems, 203A1:2–5
dysaerobia. *See* oxygenation
dysaerobic conditions
Burma, 127/128B(2)74:1162
downhole seismic experiment, 127/128B(2)74:1161–
1166
East Pacific Rise sulfide deposits, 128A1:21
ebridians, 127/128B(2)77:1220
Japan Basin, 127A6:255; 128A3:74
Japan Sea, 128A1:11; 3:76
Japan Sea quake (1983), 127/128B(2)67:1047;
68:1062; 74:1161
lithology, 194A5:7
sediment consolidation, 127/128B(2)71:1130
sedimentation, 146B(2)22:302–303
Site 798, 127/128B(1)14:241–244; 128A4:162
Site 799, 127/128B(1)14:241, 246–247; 128A5:305
stress field, 127/128B(2)67:1054; 70:1120
vein formation, 127/128B(2)75:1180–1181
zones, 127/128B(1)14:237–241; (2)77:1225–1226
See also aerobic environment; anaerobic environment
dysaerobic regime, Coniacian–Eocene, 159B12:118
dysoxic environment
deposition, 171B_A6:260, 262
mid-Cenomanian Event, 207B1:6
Paleocene, 165A8:381
See also anoxic environment
dysoxic indicators, vs. depth, 202A5:36
dysprosium
amphiboles, 147B3:70
Paleocene/Eocene boundary, 199B16:3
dysprosium/erbium, vs. lanthanum/samarium, 147B3:70

E

Early Cretaceous–Cenomanian trisaccates province,
159B24:254
Early Cretaceous *Cerebropollenites* province, 159B24:254
early Eocene Chron 24n clay layer Y, 208A1:101
early Eocene climate optimum
deepwater circulation, 198B1:8
foraminifer isotopes, 198B10:13
stratigraphy, 208A1:1–6
early Eocene hyperthermal event. *See* Elmo event
early Matuyama diatom maximum
oxygen isotopes, 177B(synthesis):43
productivity, 175B(synthesis):33–35
early Oligocene *Braarudosphaera* bloom, 208A1:39–40
early Oligocene glacial maximum
critical events, 208A1:38–39; 208B1:16–17
stable isotopes, 208A1:61; 208B1:50
stratigraphy, 208A1:1–6, 8
early Pliocene problem subzone, diatoms, 186B2:12–14
Earth
history, 162B(appendix):273–275
magnetic field, 162B(appendix):274–275;
171B_A4:166; 5:236; 6:314
orbit, 184A1:4–7

- pressure, 174A_B7:5, 14–15
rotation, 138B1:16–17, 19
- earthquakes
carbonate gravity flows, 101B12:188–189
Caribbean Sea convergence, 101B29:469
epicenters, 145B36:551–554; 186A1:24
faults, 123B37:681, 686–687; 147B28:464;
159B21:220–221; 180B(synthesis):16–18
focal mechanisms, 121A1:13; 147A1:5–6
geophysical surveys, 180A2:4–5
Hawaii-2 Observatory, 200A4:160–164
hypocenters, 135A(1)1:7; 135B55:885
intraplate, 116A1:9; 116B22:267, 273, 275–277, 283
New Hebrides island arc, 134B32:572; 35:616
occurrence, 149B12:290
proxy data, 169S_A2:17
recording, 136A1:3–4
recurrence of class M8 history, 190A1:46
sedimentation, 146B(2)11:159–160
seismic data, 170A1:7–9; 200A4:61–62
sources, 136A1:5; 186A1:7–8, 24
stratigraphy, 196A1:3–4
subduction zones, 186A1:5–6; 186B1:5–6
tectonics, 160A1:5–6
See also Broome earthquake; Burma earthquake
- East Coast diatom zones
Cenozoic, 150B2:17–35
diatoms, 174AXS_A3:44
lithology, 150X_A1:17–18
Neogene, 150X_B13:161
paleoenvironment, 174AX_A1:18
seismic reflectors, 150A7:187
Site 902, 150A6:115
- easterlies, Oligocene ice sheet, 120B(2)56:1019
Eastern boundary upwelling, paleoclimatology, 175A1:8
eastonite, biotite composition, 161B19:269–271
- ebridians
abundance, 104B30:552–555, 564; 113B42:735–738;
114B33:641, 643; 34:646; 138B8:132–133, 136–
145; 183B9:43
age, 104B30:552–557, 564
biostratigraphy, 114A6:173; 8:388; 9:498; 10:566;
11:647; 141B16:223–233; 162A4:111–112;
5:154; 6:189; 7:240; 8:269; 182B2:1–24;
199B10:1–9
Cenozoic, 138B8:129–162; 141B30:373–377
distribution, 104B30:552–555; 177A3:55–56; 5:83–88;
6:67–72; 7:60–71; 8:88–92; 9:63–64
evolution, 104B30:562
methods, 104B30:543–545
microfossil studies, 104B39:785
occurrence, 177A4:71–79
paleoenvironment, 114A8:388; 9:498; 10:566
Pleistocene, 177A9:10
preservation, 183B9:5–6
sediments, 175B11:4
Site 698, 114A5:107; 114B15:303, 308
Site 699, 114B15:303, 308
Site 700, 114A7:276; 114B15:303, 308
Site 701, 114B15:303, 308
Site 702, 114B15:303, 308
Site 703, 114B15:303, 308
Site 704, 114B15:303, 308
Site 739, 119B7:139
Site 748, 120A7:193–194
Site 749, 120A8:254
Site 750, 120A9:305
summary, 104B30:558–559, 562–563, 565
taxonomy, 104B30:565–573
zonation, 104B30:545, 548–549, 556–558; 39:802
- eccentricity
core-log integration, 186B15:9–10
Cretaceous/Tertiary boundary, 208B1:40
cross-spectral analysis, 198B22:26
cyclostratigraphy, 127/128B(1)26:446–447; 31:571,
574–575; 129B30:529–547; 175B(synthesis):17–
18; 199B1:8; 207B2:11; 208B1:6–7, 37–38
deep-sea sediments, 185B7:8
deposition, 161B7:95–96; 175B22:3–5
gamma ray time shift variation, 186B15:24–25
indicators, 130B22:390–392; 30:513–516
kaolinite/smectite index, 182B1:30
Mesozoic, 144B18:368
Oligocene, 199B1:11
oxygen isotopes, 130B21:365, 371–372; 29:498;
161B37:474
paleoceanography, 138B6:83
physical properties, 178B32:8–15
Pleistocene, 146B(2)19:259–263
sapropels, 160B3:33; 161A1:12
sedimentation rates, 166B15:164; 175B9:5
sediments, 172A4:121
spectral analysis of age model, 175B22:12
stable isotopes, 130B24:414–415; 138B43:844, 846
temperature, 202B13:7
timescales, 138B6:86–88
time series analysis, 130B22:403–405
volcanic ash, 185B7:19
vs. age, 175B22:9, 13, 15
vs. total reflectance, 198A1:139
See also obliquity; orbital cycles; orbital forcing; pre-
cession
- eccentricity forcing, deposition, 178B25:10–11
eccentricity-obliquity node conditions, 199B1:13
- echinoderm fragments
abundance, 144B6:130; 9:178–186
biogenic components, 161B6:78–80
Cretaceous, 143B10:137–138
dolomite, 103B10:157, 181; 11:181
Galicia margin W, 103B4:45
lithofacies, 143B30:489–490
lithology, 160A7:161; 166A6:77; 7:154–156; 8:177–
178; 9:238–241; 10:295–299; 11:351–355;
173A6:112–114; 180A12:18–20; 181A4:6;
182A1:39; 4:5–6, 9; 5:6; 8:6; 9:4–7; 10:5–12;
12:4–6; 182B9:3–7; 183A6:7–8; 7:7–8; 8:6;
194A3:5; 4:9; 5:3–7; 6:3; 7:7, 11–15; 9:4–8;
194B5:8–11; 207A6:9; 210A3:22–25
macrotrubidite, 103B31:517–518
mass accumulation rates, 160B19:231–234, 237, 240
Miocene, 160B33:42
paleoenvironment, 174AX_A1:20, 29

- photograph, 134A11:333; 194A7:74
 photomicrograph, 160B33:426; 165A5:246;
 173A7:174; 194A4:54–55, 57; 5:41, 46; 8:30;
 210A3:223
 provenance of sandstone, 210B2:10
 sediments, 146B(2)22:301; 175B1:3, 14, 21
 Site 639, 103B8:116, 118; 11:191–192
 vs. depth, 144B14:281
See also ophiuroids
 echiurids
 lithology, 177A9:7
 occurrence, 177A9:52
 photograph, 177A9:32
 echo sounders, site surveys, 136A3:33; 200A1:18; 3:135–
 138; 4:68–74, 83–88; 200B6:1–17; 204A1:53
 echograms, diapirs, 164B29:287
 eclogite facies, metamorphism, 161A6:230; 161B23:312–
 314
 eddy effect, Agulhas Current, 175B(synthesis):40–41
 edenite
 geochemistry, 176B4:11; 9:9–10
 stratigraphy, 157B15:231
 substitution, 147B13:238
 veins, 176B9:30
 Eemian
 glaciation, 146B(2)11:159
 paleoclimatology, 167B7:136
 sediments, 161B40:508
 effective overburden pressure. *See* shear strength/effec-
 tive overburden pressure ratio; shear strength/ef-
 fective overburden stress ratio
 effective pressure. *See* pressure, effective
 effective stress. *See* stress, effective
 Eiffellithaceae, photomicrograph, 198B7:64–65
 Eggerellidae, Site 766, 123B14:273
 eggs, indet, Site 700, 114B15:305–306, 310
 eigenvalues, well-logging, 159B16:163
 ejecta
 diagenesis, 150X_B3:31, 33–35
 impact craters, 165A1:7
 photograph, 171B_A3:56; 207A5:46; 6:44; 7:45
 tektites, 150B13:255–259
 Ekman drift
 circulation, 165B4:86
 currents, 167A(1)1:6–7; 167B32:345
 paleoproductivity, 175B18:3–4; 199B1:9
 Ekman flow
 lithology, 112A11:161
 monsoon, 117A1:5; 4:45; 117B14:265
 Ekman layer
 climate models, 199A3:5, 18–19
 mixed layer, 199A3:16
 Ekman velocity, satellite scatterometer data, 203A1:21
 El Niño Southern Oscillation
 Andes foothills, 112A19:812
 circulation, 138A(1)1:6–7; 138B13:289–292; 22:512–
 513; 159B40:550; 202A4:1
 creation, 112A10:139
 cyclicality, 112A13:314; 146B(2)3:42–43
 land-sea correlation, 141B17:240
 limits, 167B10:153–160
 lower Paleogene, 199A3:4
 lower Pliocene, 202B13:9–11
 Neoglacial, 178B34:7–8
 oceanography, 141B16:231; 167B32:342;
 169S_A2:15–16
 sedimentation, 138B35:727; 146B(2)21:283
 surface productivity, 112B38:585
 upwelling, 201B15:7
 volcanism, 181B1:25–26
 Elaeocarpaceae, Site 820, 133B9:109
 elastic buckling theory, Bengal Fan, 116B23:281
 elastic constants
 igneous rocks, 147B25:436–439
 velocity, 147B25:427–428; 204B22:24
 elastic deformation. *See* deformation, elastic
 elastic models, parameters, 204B24:38
 elastic properties
 analytical methods, 123B24:483–485
 basalts, 137/140B31:348–349
 composite depth scale, 167B31:333–338
 elastic constants, 137/140B24:273–291
 factors, 102B4:49
 flood basalts, 163B3:25–26
 gas hydrates, 204B24:4
 hemipelagic marine sediments, 168B3:21–35
 in situ confining pressure, 123B24:484–485
 Labrador Sea, 105B43:831–832
 moduli, 123B24:474, 488; 131A1:13
 rebound stresses, 131B16:207
 sediments, 131B20:252–253
 seismic velocity, 123B24:490; 156A6:160
 velocity and formation, 118B11:236, 242–243; 14:264
 vs. grain density, 163B3:34
 See also deformation; Poisson's ratio
 elastic rebound, sediments, 156B17:230
 elastic response, vs. viscoelastic response, 147B20:368
 Elaterates. *See* Albian–Cenomanian Elaterates province
 electrical conductivity
 basalts, 124B7:93–103
 cation exchange capacity, 156B10:137–149
 fluid flow, 193B1:30
 formation factor, 190A4:144; 5:146–148; 6:91; 7:79;
 8:90–91; 9:24, 59
 gas hydrate dissociation, 204A8:61
 iron-titanium oxide contribution, 118B18:324
 mechanisms, 118B18:327, 329
 porosity, 156B10:137–149
 salinity, 148B21:297–305
 sample vs. fluid conductivity, 148B21:300
 sediments, 190A4:27–28, 142–145; 5:32–33, 145–146;
 6:23, 54, 90; 7:19, 46, 78; 8:23–24; 9:25–26
 surface conductivity, 148B21:301–303
 temperature correction, 148B21:300–303
 vs. depth, 157B4:44–45; 161B24:328; 174A_A3:92
 vs. resistivity, 118B18:328
 vs. salinity, 118B18:327–330
 vs. strength, 148B32:405
 vs. temperature, 148B21:302
 electrical conductivity anisotropy
 formation factor, 190A9:25–26
 sediments, 190A4:28

- vs. depth, 190A4:77; 5:80; 8:52
- electrical imaging
 - high-resolution stress, 134B34:591–606
 - well-logging, 140A2:112, 116; 148B29:375–388
- electrical impedance. *See* formation factor
- electrical logs
 - fractures, 148B22:307–315
 - measurement, 191A4:42–43
 - ratios, 133A(1)17:797
 - vs. depth, 148B23:319
- electrical properties, sediments, 201A11:29–30
- electrical resistivity. *See* resistivity
- electrofacies
 - classification criteria and log value limits, 173A3:51
 - fractures, 176A3:246
 - lithology, 129B29:516
 - resistivity, 176A3:247–251
- electron microprobe data
 - apatite, 129B7:175
 - basalts, 135B32:559–560; 165B15:233–235
 - breccia, 144B47:847, 849–850, 852–853
 - carbonates, 146B(1)6:120; 160B33:428
 - hardgrounds, 133B36:527
 - limestone, 144B47:847–848, 851, 854–859; 59:1001–1003
 - petrology, 129B2:57
 - plagioclase, 135B31:544–549
 - sediments, 160B47:609–610
 - spinel, 135B33:565–584; 34:585–594
 - sulfides and oxides, 193B3:7–8
 - vitric component, 134B9:144; 135B4:54–55
 - volcanic glass, 135B36:603–613
 - volcaniclastics, 135B6:92–94
- electron microscopy
 - scaly fabric, 156B4:61–69
 - subsurface biosphere, 158B26:356–359
- electron microscopy, backscattering
 - digital images, 136B8:100
 - Ethmodiscus* ooze, 167B15:207–212
 - faunal/floral morphotaxa, 127/128B(1)31:548
- electron microscopy, scanning
 - clay mineralogy, 156B1:8–9
 - volcaniclastics, 136B7:86–87
- elemental correlations
 - hydrothermal mounds, 158B4:52, 63–65
 - See also* correlation coefficients; partition coefficients; principal component analysis; statistical analysis
- elemental yields
 - normalization, 159B17:174–175
 - reconstruction from spectral data, 136B13:154
- elements
 - vs. depth, 171B_A4:145; 6:294; 7:339
 - See also* high-field strength elements (HFSE); immobile element ratios; ore-forming elements
- elements, congenetic, turbidites, 135B10:158–159
- elements, large-ion-lithophile (LIL)
 - andesites, 135A(1)7:323–324; 135B24:391–406
 - basalts, 135B26:471–485; 29:523–526; 36:608–613; 38:629–630
 - Bonin-Mariana region, 125B38:633
 - enrichment, 135A(1)6:273
 - igneous rocks, 135B55:890–894
 - melt-related enrichment, 125B12:229
 - mobility, 125B12:223; 127/128B(2)47:779; 51:838
 - Site 781, 125A9:185; 125B16:303
 - Site 786, 125A14:327–328
 - Site 795, 127A5:219
 - slab-derived fluids, 127/128B(2)49:809
 - volcanic glass, 135B53:851–853
 - volcaniclastics, 135B52:838
- elements, lithophile, diabases, 137/140B9:107–110
- elements, low-field strength, alteration, 134A8:156
- elements, primitive mantle normalized incompatible, concentration in mantle, 192B1:17
- Ellicea*, lithology, 181A1:13
- ellipticity, boreholes, 128A5:339–340, 368
- Elmo event (early Eocene hyperthermal event)
 - foraminiferal stable isotopes, 208B1:48–49
 - seismic data, 208B6:10
 - See also* Eocene thermal maximum
- elongate minerals
 - amphibolite clasts, 173A7:190–191
 - deformation, 173A4:198–199
 - foliation, 173A6:138–139
 - harzburgites, 209A7:14–15
 - lithology, 173A6:124, 126–127
 - massifs, 179A4:56–57
 - photomicrograph, 161A6:244; 173A8:251; 179A4:127–128
 - plagioclase, 137/140B1:7
 - textures, 161A6:223–225
- elphidiids
 - abundance vs. depth, 166B12:135
 - Pleistocene, 133B26:371–374
 - Site 821, 133B26:371–374
- elutriation, re-sedimentation, 183A4:12–13
- embayment, tectonics, 190A2:2
- emergence
 - carbonate platforms, 143B29:461–462, 464, 466–467
 - deposition, 144B47:829–834
 - mass flow deposits, 160B37:478
 - mid-Cretaceous, 143B31:523, 525
 - reefs, 134B3:53
- emersion. *See* emergence
- Emilian
 - calcareous plankton, 160B12:155–165
 - See also* Santerian/Emilian boundary
- emissivity, sediments, 201A7:27
- Emperor excursion, sediments, 190A7:11
- empirical orthogonal function, 138B14:323–326
- emplacement
 - age, 192A1:4–9
 - flood basalts, 163B2:25
 - large igneous provinces, 198B1:4
 - lava, 163B12:135–148
 - magmas, 163B7:71–72, 88–90
 - models, 192A1:7–9
 - welding zones, 183A7:35–36
- en echelon folds
 - clastic wedges, 159B2:19
 - transform faults, 159A3:52

encrustation, bacterial filaments, 114B37:691, 699, 704–706

endemic taxa
 dinocysts, 188B3:3–5, 13, 16
 ostracodes, 144B4:90–91
 paleobioprovinces, 144B50:890–892

Endichnia, Site 698, 114A5:97, 99

endo-upwelling
 dolomite, 143B11:163–164
 phosphorus sources in hardgrounds, 144B22:424
See also upwelling

energy
 compressional wave velocity, 102B4:60
 shear wave velocity, 102B4:60
 sonic velocity, 102B4:60

engineering tests
 Leg 124E, 132A1:5–8
 Shatsky Rise, 132A1:5–21

enrichment
 diagenesis, 167B23:265–266
 elements, 186B14:12–13
 heterotrophics, 201B3:3–5
 methanogens, 201B3:5
 microorganisms, 201B3:1–19; 3:4–5
 oxygen isotopes, 201B7:20
 subsurface biosphere, 158B26:356–359

enrichment cultures
 microorganisms, 193A3:72–73; 4:50; 6:9, 40
 rocks, 187A3:30; 4:21; 5:21; 6:40; 7:37; 8:55; 9:25; 10:28; 11:40; 12:46; 13:45; 14:32; 15:47; 187B6:3–4

Ensis, amino acids, 174AXS_A7:27

enstatite
 alteration, 147A4:137–138; 147B6:113
 calcium and alumina, 147B16:117
 calcium oxide, 147B6:118
 composition, 135B3:39; 187B2:4
 hydration to serpentine, 103B16:249
 lithology, 195A3:14
 magnesium-calcium-silicon-oxygen-hydrogen system, 209A6:77
 mineral chemistry, 176B10:36–37
 quadrilateral plot, 179B(synthesis):86
 serpentinization, 147B14:282–283
 Site 786, 125B10:177
 vs. depth, 147B11:216
See also clinoenstatite; diopside-enstatite-ferrosilite-hedenbergite system

entrainment model, mantle, 187B1:16–19

entrapment, marginal-basin source, 124B3:39

entropy, maximum, sedimentation rates, 166B15:165

environment
 calcareous nannofossils, 178B28:1–22
 carbonates, 175A23:569, 571–573
 Cretaceous, 130B5:63–84
 deposition, 133A(1)4:92; 5:149–151, 168–171; 8:260–261; 9:310–311; 135B12:178; 53:846–847; 156A6:100–101; 7:203; 178A1:3; 6:7–8; 178B24:6–8; 25:11; 188A4:16–17; 5:13; 188B3:11
 microbial activity, 201A1:16

Neogene, 133A(1)4:115; 10:388, 391–392

reflectance, 178B21:6–7

sedimentation, 133B22:303–313; 36:532–533; 166A9:266–267; 189A1:33–34; 195A4:95

Site 891, 146A(1)6:254–255

See also abyssal environment; bathyal environment; coastal environment; deep-sea environment; distal environment; eruptive environment; eutrophic environment; glaciomarine environment; hemipelagic environment; low-energy environment; marine environment; neritic environment; open marine environment; outer platform environment; oxic environment; paleoenvironment; pelagic environment; periplatform environment; peritidal environment; prodelta deposits; sedimentary environment; shallow marine environment; shallow-water environment; subtidal environment; subtropical environment; supratidal environment; tropical environment

environmental hazards, bathymetry, 167A(1)12:315

environmental magnetism, rocks, 150B19:347–359

environmentally corrected gamma ray logs. *See* gamma ray logs, environmentally corrected

Eocene
 basalts, 183A1:29
 biofacies, 174A_B(synthesis):7
 biogenic sedimentation, 199B21:1–35
 biomagnetostratigraphy, 171B_A4:133–134; 5:199
 biostratigraphy, 134A8:150–152; 9:195–198; 134B10:200; 135A(1)11:606–614; 135B15:231–243; 16:245–266; 17:267–284; 143B3:38–41; 4:77–78; 145A5:141; 6:222–223; 145B6:117–132; 9:159, 161; 40:634; 149A6:178, 227; 150B26:435–437; 150X_B10:111–127; 157B29:505; 160B31:395–401; 165A3:66; 171B_A3:59–69; 5:188–199; 6:263–278; 7:325–330; 171B_B7:1–28; 173A7:177–182; 8:241–244; 173B4:1–35; 174A_A5:163–168; 174AXS_A1:29–31; 5:45; 6:50–51, 96–97; 175A15:465–468; 177A1:22–23; 182A1:10–12, 40; 4:22–23; 10:20; 183A4:6; 183B4:1–59; 189A5:27; 6:27; 198B4:1–56; 199A12:19; 13:15–16; 199B1:7–8; 7:1–34; 200B4:8; 208A1:28–29; 210B12:1–8

bulk mineralogy, 189B11:3–6

calcareous nannofossils, 130A9:399; 143B33:569–570; 149B3:61–78; 150X_B9:91–110; 159B32:421; 165A4:154; 174A_B5:1–8, 16; 177B8:1–9; 198A4:18; 198B2:4–5

carbonate compensation depth, 192A5:6–7; 199B21:1–35

carbonates, 144B47:831–834; 150A6:115, 189; 160B36:458; 182B4:24; 198B10:1–24

chert, 192A3:17–18

chromatograms, 208A8:24–25

chronostratigraphy, 133B20:281–289

clastic sediments, 182A6:9–10

clay mineralogy, 150B9:147–170; 150X_B5:60–63

clays, 150X_A1:17

collisions, 160A17:513, 515

correlation, 171B_B9:15; 173B4:18; 182B2:16

- cyclostratigraphy, 189A5:70; 207B1:10
 deepwater formation, 145B18:265–266
 deformation, 173A1:8
 deltaic environment, 188B1:6–7
 deposition, 189A6:19–21
 diatomites, 159B18:184–185
 diatoms, 188A4:23–24; 189A7:31
 dinocysts, 189A5:31–35
 Drake (Powell) Passage opening, 181B1:46
 ferrobasalts, 200B3:1–36
 foraminifers, 132B2:24; 143B36:581–586; 150B1:5, 11; 150X_B16:207–228; 174AXS_A2:37–38, 67–70; 181A8:17–18; 197B2:1–4; 207A7:14; 8:16–17; 208A4:12–13; 6:16; 7:14–15; 8:15
 geology, 189A1:2
 Hiatus B, 207A5:24
 lithofacies, 133A(1)3:59–60; 4:91
 lithology, 129B14:269; 130A9:375–383; 132A4:81–82; 133A(1)4:93–94; 134A8:147, 149; 9:190; 135A(1)11:594–595; 136A4:40; 143A2:23–26; 8:277; 9:305–306; 144A4:116–117; 5:154–155; 6:212–214; 7:258–259; 8:288–289; 145A5:130, 132; 6:217; 149A4:52–58; 6:158; 150A6:76; 7:147; 8:216–220; 10:319; 150X_A1:23–24; 159A6:166; 7:227–228; 160A7:162; 8:222–223; 165A3:56–60; 4:146; 6:300–303; 171A_A3:27; 171B_A5:175, 179–181; 6:246–250; 7:323–324; 173A7:165–175; 174AXS_A6:22–25; 175A15:460; 177A5:6–7; 181A7:9; 182A1:9–10; 183A1:31, 34; 5:4–5; 6:5–6; 7:6–8; 188A4:11–13; 5:12–15; 189A7:14–16; 192A3:7–8; 194A6:5–6; 197A1:16; 6:5; 198A6:9–10; 199A8:5–6; 9:5–6; 10:6–8; 15:5–6; 207A4:5–7; 5:5–7; 8:6; 208A3:7–9; 4:6–8; 6:6–10; 8:5–9
 lower/middle boundary, 150X_B6:68
 magnesium/calcium ratio, 198B12:4–5
 magnetostratigraphy, 150X_B22:295–304; 171B_B8:8; 182A6:60; 199A1:73; 207A4:18–19, 50; 8:21; 207B3:11–15
 mass accumulation rates, 163B15:163–166; 198A4:22–23
 mudstone, 189B1:3
 muscovite, 210B4:4
 nannofossils, 132B2:17; 174AXS_A5:46; 177A5:10; 181B2:1–22; 182A4:16; 6:15–16; 12:11; 188B11:6–7; 189A5:21–22; 7:26; 192B1:7; 197A3:11; 6:5–6; 198B3:1–15; 199A11:14; 207A6:13; 208A3:11; 4:10; 6:12; 7:11–12; 8:11–12
 ooze, 171B_A1:6
 organic biomarkers, 199B25:1–11
 organic carbon and barium, 199B20:1–33
 paleoceanography, 171B_B(introduction):6–7; 183B1:22–23
 paleoclimatology, 133B21:291–300; 150X_B5:63; 17:229–242; 178A1:5; 181B1:5; 184A1:6–7; 192A3:17–18; 199B1:14–18; 20:19–20
 paleoenvironment, 133B4:57; 181A8:22–23; 189A1:50–53; 5:16; 192A5:9, 11; 6:14–15; 210B13:23
 paleolatitude, 185A4:36; 199B21:4–5
 paleomagnetism, 129B23:440; 130A9:410–412; 143B38:593–594; 192A4:23
 palygorskite, 159B1:10
 palynomorphs, 188B2:4, 6; 3:4, 16; 3:29–31
 photograph, 174A_A5:162; 174AXS_A2:57; 192A3:73; 5:36–39; 6:42–43, 48
 photomicrograph, 192A5:37
 planktonic foraminifers, 130B8:103–111; 133A(1)4:97; 150B28:455–460; 160B30:379; 165A4:156–157; 173B9:1–13; 174AX_A1:35–36; 174AXS_A1:29–31; 5:43; 6:48, 91–92; 182A4:20; 6:18; 8:16–17; 10:18; 12:13; 182B4:1–28; 183A5:10–13; 189A5:26
 plate tectonics, 149B25:438; 165A8:390; 183B2:9–10
 progradation, 189A1:7
 provenance of sandstone, 210B2:9–10
 quartz-feldspar-lithic fragments system, 210B2:27
 quartz-potassium feldspar-plagioclase system, 210B2:29
 radiolarian ooze, 199A1:22–24; 6:1–21
 radiolarians, 136B1:3–25; 143B34:571–574; 199A15:9; 199B3:15; 207A5:18
 remanent magnetization, 183A6:54; 210A1:19
 rhyolites, 135B38:625–646; 57:923
 sandstone and grainstone, 210B2:1–47
 sea level changes, 174AXS_A(summary):9
 sediment geochemistry, 189B12:2–3
 sedimentation, 149B45:695; 150X_B23:305–315; 159A5:95; 165A4:162; 8:378; 173A7:174–175; 183B4:15–16; 189B10:14–18; 199B20:13–17; 207A8:23
 sediments, 150X_B3:27–36; 4:50; 181B3:1–21; 183A1:13; 195A1:20–22; 199A1:39; 12:5
 seismic stratigraphy, 149B39:623
 sequence stratigraphic framework, 150B5:65–95
 siliciclastics, 189A1:23
 silicoflagellates, 199B9:1–29
 Site 803, 130A5:120–121
 slope instability, 159B11:106
 stratigraphy, 150B25:429–432; 150X_B1:8–10; 160B32:412–413; 189A1:11–12; 197A1:13
 strontium isotopes, 174AXS_A5:49
 tectonics, 160B54:748, 763–764, 776; 165A3:103
 tholeiitic basalts, 192A1:29
 turbidite infill, 157B30:523–531
 unconformities, 145B37:569; 150A1:8; 208A1:5; 7:11
 volcanics, 163B7:67; 165A3:103; 4:174; 171B_B8:1–10
 volcanism, 165A3:85–86; 8:388–390; 165B20:308–309; 192A1:29
 well-logging, 171A_A5:63
 zoning, 160B30:384
See also Albian–Eocene interval; Aptian–Eocene interval; Bartonian; Campanian–Eocene interval; Cretaceous–Eocene interval; Cretaceous–Miocene interval; Cuisian; early Eocene Chron 24n clay layer Y; early Eocene climate optimum; Illerian; initial Eocene thermal maximum; Jurassic–Eocene interval; Lutetian; Maastrichtian–Eocene interval; Maastrichtian/Eocene unconformity; Miocene–middle Eocene interval; Oligocene/Eocene boundary; Paleocene–Eocene

- assemblages; Paleocene/Eocene boundary; Paleocene/Eocene boundary Benthic extinction event; Paleocene–Eocene dissolution interval; Paleocene–Eocene interval; Paleocene/Eocene Thermal Maximum; Paleocene–Eocene unconformity; Paleocene–lower Eocene interval; Priabonian; Thanetian; Ypresian
- Eocene, lower
- age vs. depth, 198A6:54; 7:50; 8:46
 - biostratigraphy, 182A1:22–23; 6:21–22; 183A6:19; 189A6:32; 199A8:8; 10:9–10; 14:10–11; 199B4:1–13; 200A3:29–30; 207A4:12; 5:12; 207B4:5–6; 208A3:13–14; 210A3:85; 210B13:17
 - composite digital images, 208A7:45
 - cycles, 199A1:29; 8:2–3; 208B1:37
 - dinocysts, 189A7:35
 - Glomospira* event, 149B8:206–207
 - hiatuses, 149B6:189
 - lithology, 163A5:52–53; 171B_A3:51–53; 4:99–100; 174AX_A1:25–26; 174AXS_A1:17–18, 53; 5:27–30; 6:23–25; 197A3:9; 4:6–7; 5:5–7; 199A10:7–8; 12:11; 15:6; 207A6:5–6; 7:4–5; 210A3:25–30, 59–60
 - magnetostratigraphy, 173B11:17, 21; 207B3:8–9; 208A1:85; 208B4:12–13
 - nannofossil ooze/chalk, 199A1:11–12
 - paleoclimatology, 199A1:55; 199B1:15
 - paleoecology, 144B6:133–134
 - palygorskite, 159B15:141–156
 - sedimentation rates, 210A3:89
 - sediments, 150X_B3:27
 - stratigraphy summary, 174AXS_A5:59–60
 - tectonic models, 160B54:771–772
- See also early Eocene Chron 24n clay layer Y; early Eocene climate Optimum; Elmo event (early Eocene hyperthermal event); Ilerdian; Paleocene–lower Eocene interval; Penutian; Y-event; Ypresian
- Eocene, lower–late middle, magnetostratigraphy, 199A13:43
- Eocene, lower–lower middle, lithology, 199A1:11
- Eocene, lower–middle
- biostratigraphy, 189B3:8–9; 10:5; 192A6:12–13; 199B3:17
 - chert, 199A1:32–33; 199B1:15
 - lithology, 182A6:8–9; 12:7; 183A3:4–5; 4:4; 174AXS_A5:25–27
 - magnetostratigraphy, 171B_B9:7–9; 199A13:44; 207A5:20; 6:24; 7:20–21; 207B3:9–10, 12
 - oxygen and carbon isotopes, 207B1:25
 - palynomorphs, 189B1:10
 - quartz, 182B14:3
 - sedimentation, 183B4:11; 210A3:63
 - siliciclastics, 189B1:9–10
- Eocene, lower/middle boundary
- age models, 189B3:6
 - biostratigraphy, 199A9:6; 207A4:14; 208A6:16
 - sedimentation rates, 189B10:14, 17
 - unconformities, 165A6:304
- Eocene, middle
- algae, 133B5:67
 - basal sediments, 199A1:35–36; 11:5
 - biostratigraphy, 130A9:408; 159B33:433–444; 177A5:13; 182A1:17; 6:21–22; 183A4:9; 6:12; 189A3:20, 32; 5:29, 32; 6:38; 7:31, 34; 192A1:17; 3:22; 5:8; 197A4:10–11; 199A9:6; 200A4:40–41; 207A4:14; 6:21; 207A4:12; 5:12; 7:13; 7:11; 207B5:1–5; 210A3:75, 80, 85, 87; 210B13:17–19
 - chert, 192A3:13
 - chromaticity, 189A6:79–80
 - clay mineralogy, 189A5:17–19
 - depositional history, 144B12:233–253
 - gateways, 189B1:34–35
 - glaciation, 208A1:8
 - hiatuses, 192A4:11
 - hydroclastic volcanism, 192A4:9–11
 - illite, 189A6:24
 - ion chromatograms, 208A5:50
 - lithology, 144A3:49–50; 182A1:39; 4:9–10; 171B_A3:51; 4:98–99; 173A6:110–114; 8:225–234; 174AXS_A1:16–17, 53; 2:31–33, 43, 53; 189A6:14–17; 192A4:5–8; 197A3:8–9; 6–7; 198A8:8–9; 199A5:5; 10:7–8; 11:8–10; 12:11; 207A6:5–6; 7:5–7; 210A1:15; 3:21–30, 58–60
 - magnetic polarity, 197A4:25
 - magnetostratigraphy, 171B_B9:12–13; 173A6:121, 124; 173B11:16; 199A12:60; 207A8:52–53; 210A3:93–94
 - mass accumulation rates, 171B_A6:273–274
 - missing section, 199A1:30; 9:3
 - ocean circulation, 189A1:90
 - paleoequator position, 199A1:64
 - paleogeographic maps, 189A1:71
 - pelagic chalk, 160B32:410
 - photograph, 189A7:66; 192A3:53; 210A3:144
 - postrift sedimentation, 210B1:31–33
 - Prydz Bay, 188A1:4
 - radiolarian ooze, 199A1:32; 10:4
 - reflectance, 198A5:12, 51
 - sedimentation, 189A5:36; 189B10:8, 12; 210A3:63, 89
 - sedimentology, 177A1:2, 20–21; 199B24:1–19; 210B8:10–17
 - seismic stratigraphy, 183A3:20; 199A4:6
 - Sites 1276 and 398 comparison, 210A1:28
 - smectite, 189A6:24
 - stable isotope stratigraphy, 171B_B5:1–14
 - stratigraphy, 174AXS_A2:3–4; 5:59; 177B(synthesis):4–5; 189A6:21–22
 - tectonics, 177A1:41
 - volcaniclastics, 192A1:17; 4:17
- See also Bartonian; Bortonian; Campanian–middle Eocene interval; Cuisian; Lutetian; Maastrichtian–middle Eocene interval; Miocene, middle–lower middle Eocene unconformity; Narizian; Paleocene–middle Eocene interval; Paleocene, upper–middle Eocene interval; Ulatisian
- Eocene, middle–middle Miocene unconformity, 181A8:8
- Eocene, middle/upper boundary
- biostratigraphy, 182B4:5, 8; 189A7:24, 31; 208A6:16
 - chronostratigraphy, 177A5:18
 - deposition, 189A1:31–32

- gamma ray attenuation density, 199A1:61
 sedimentation rates, 189B10:8–9, 15, 17
 tectonics, 189B1:7
- Eocene, middle–upper interval
 biostratigraphy, 171B_B6:1–25; 188B3:6–8; 189A6:32, 37; 7:28; 189B2:6–7
 carbonate dissolution, 198B10:8
 gateway history, 189B1:8–11
 hiatuses, 192A5:10
 lithology, 174AX_A1:22–26; 174AXS_A5:23–25; 181A8:7–8; 182A10:10–11; 183A9:5–6; 192A5:5–6; 199A12:9–11; 14:6–7
 magnetic susceptibility, 171B_A7:355
 magnetostratigraphy, 171B_A7:329–330, 356; 171B_B9:11–12
 mass accumulation rates, 171B_A7:329
 paleoceanography, 177B(synthesis):5–7
 plate tectonics, 160B54:772
 radiolarian ooze, 199A1:10–11
 radiolarite, 199A1:35; 11:5
 sedimentation rates, 189B10:11–12; 199B1:16
 sediments, 150X_B3:27–28; 182B14:4
 Sites 1276 and 398 comparison, 210A1:28
 tectonic models, 160B54:772–773
 unconformities, 192A1:18, 20
See also Campanian–middle to late Eocene interval
- Eocene, middle upper–lower middle Miocene interval, 182A2:16–19
- Eocene, upper
 age vs. depth, 198A6:52; 7:48
 biomagnetostratigraphy, 183A8:12
 biostratigraphy, 130A9:408; 181A7:16–17; 181B2:1–22; 182A6:20–21; 182B2:6–7; 4:8; 189A3:23, 28, 32; 189B2:1–36; 3:9–10; 10:3; 195A4:24–26; 199A10:11; 199B5:1–74; 207A4:13; 7:12–13; 208A7:11; 210A3:75, 83
 core photograph, 199A12:51
 gateway history, 189B1:11–15
 hiatuses, 189B1:3
 impact deposits, 177B4:1–9; 199A1:7
 kaolinite, 189A3:16–17
 lithology, 174AX_A1:22, 24; 174AXS_A2:29–31, 43, 53; 182A6:7–8; 8:8–9; 12:6; 183A8:6; 174A_A5:161–163; 189A3:14–15; 6:14–15; 195A4:12–14; 199A14:7; 201A12:8–10; 207A6:5; 210A3:21–25, 58–59
 magnetic polarity, 185A4:36
 magnetostratigraphy, 192A3:34; 207A6:24; 7:19; 208A7:20
 neritic environment, 189B10:4
 opal maximum, 177B(synthesis):20
 paleoenvironment, 189A3:78; 192A5:9; 195A4:17–18
 rift-drift system, 181B1:38–40
 sedimentation rates, 189B10:8–9, 18; 199B1:35
 sedimentology, 183A8:5; 210B8:12–13
 sequence stratigraphy, 150X_B18:243–266
 sporomorphs, 189A3:33
 stratigraphy, 174AXS_A2:3
 tektites, 150A8:226; 150B13:241–265
See also Kaiatan; Maastrichtian–late Eocene greenhouse period; Priabonian; Runangan
- Eocene, upper–lower Miocene interval, 198A4:58
 Eocene dissolution event, lithology, 208A8:8
 Eocene–Holocene interval
 geochronology, 183B8:14–16
 sedimentation, 181A1:10
 Eocene–lower Oligocene interval, 210A1:12
 Eocene–Maastrichtian interval, 198A5:62
 Eocene marker bed, ocean–continent transition, 173B11:64
 Eocene/Miocene boundary, unconformities, 165B12:212
 Eocene–Miocene interval
 age vs. depth, 198A5:60
 correlation, 199A1:38
 magnetostratigraphy vs. depth, 199A11:54
 seamount shallowing, 160B38:496, 498–499
 unconformity, 165A6:321, 348
- Eocene/Oligocene boundary
 age models, 189B3:6
 Antarctica, 119B10:199
 barite, 198B11:1–16
 benthic foraminifers, 105B36:708, 711–712, 720–721; 177A5:13; 181B1:20; 189A5:26–27; 198A4:21
 biomagnetostratigraphy, 183A8:12
 biostratigraphy, 177A5:10; 182B2:6; 4:5; 189A3:23; 7:23; 192A3:22; 198A6:18–20; 199A11:16; 12:18; 207A4:13; 6:17; 208A1:28; 3:13; 4:12; 6:15
 calcareous nannofossils, 105B17:275; 177B8:3; 198A7:14; 198B2:4–5
 carbon isotopes, 119B38:704, 709
 carbonate compensation depth, 119B38:714
 carbonates, 119B38:711, 714; 198B11:1–16; 208B1:51
 Celebes Basin, 124B2:13
 clay mineralogy, 182B14:3
 climate events, 113B53:950; 177B(synthesis):39
 composite depths, 198A5:24
 core photograph, 199A12:51
 critical events, 208A1:38–39; 208B1:16–17
 cyclostratigraphy, 199B1:8
 diatoms, 105B28:523; 189A6:35
 dinocysts, 105B28:523; 189B5:5–6
 gateways, 189B1:34–35
 glaciation, 177B(synthesis):6; 188A1:4
 greenhouse–icehouse transition, 199B1:12–14
 ice rafting, 119B38:710–711
 isotopic shift, 113B47:842
 lithology, 198A1:122; 7:35; 199A15:6; 208A8:6
 magnesium/calcium ratio, 199B1:12
 magnetic properties, 181A7:27; 182A6:24; 189A7:38; 189B10:6; 198A5:56
 magnetostratigraphy, 181A7:31; 189A1:37; 7:38–39
 marine isotope stages, 181B1:30
 nannofossils, 181A7:17; 181B2:1–22; 183A6:12; 189A3:24; 5:21; 197B4:3; 198A4:51; 199A11:13; 14:10; 207A6:13; 208A3:10–11; 4:10; 6:12; 7:11
 oxygen isotopes, 119B38:694; 199B1:11
 paleoceanography, 181B1:42–45
 paleoclimatology, 181B1:5; 199B1:3
 paleoenvironment, 189A1:22, 26–27, 32; 3:20; 5:16
 paleogeography, 189A1:72
 phosphorus/aluminum ratio, 177B(synthesis):40

- planktonic foraminifers, 182B4:8–9; 189A3:28; 5:26;
6:32; 7:28
Prydz Bay, 119A1:10
radiolarians, 183B5:8–9; 189A7:30; 199A11:19; 12:20;
13:17; 14:13–14; 199B1:7; 5:6–7
reflectance, 198A1:118; 5:46
sediment geochemistry, 189B12:2–3
sedimentation rates, 189A5:35–36; 189B10:9, 11, 15,
18; 199A12:24
seismic data, 208B6:9–10
sequence boundary photograph, 174AXS_A2:57
siliciclastics–carbonates transition, 189A1:55
Site 689, 113B51:903
Site 738, 119B38:704, 708, 714
Site 744, 119B38:704, 708–712
Site 765, 123B38:725
stratigraphy, 124B2:13; 10:138; 12:171–176;
177B(synthesis):4; 188B1:7; 198A1:39; 7:2–4;
199A1:41, 87; 13:3; 207A1:17; 208A1:8, 43
Tasmanian Gateway opening, 181B1:40–41
tectonics, 189B1:7
thermohaline circulation, 105B36:720
Tuit transgression, 182B4:10
unconformities, 145B37:569
warm-temperate environment, 189B3:13
Eocene–Oligocene interval
age models, 183B5:23–24; 189A5:74; 189B9:7
biostratigraphy, 181B1:16; 182A6:18–19; 183B5:25;
189A5:20, 73; 6:26, 28, 90; 7:25–26; 199A1:35;
11:4; 14:10–12; 208A1:112; 7:11
correlation, 189B4:26
dinocysts, 189A5:33–34; 6:37–38; 7:33–34; 189B3:10;
4:1–42
gateways, 189B1:12–15
“glauconitic unit,” 189A7:33–34
limestone, 181A1:25
lithology, 189A7:18–19; 208A6:6–10
Ontong Java Plateau, 130A7:276
paleoceanography, 198A1:11, 73–74; 198B1:27
paleoclimatology, 189A7:24–25; 199A1:6, 20–22
paleoenvironment, 189A1:53–55; 7:24–25; 189B10:4
palynomorphs, 189A7:32; 189B3:26
photograph, 189A6:76; 199A1:62, 77–79; 208A1:102–
103; 3:40; 6:50; 8:41
sedimentation rates, 189A6:21
stratigraphy, 189A7:68; 198A1:30; 5:3; 6:3; 7:3–4;
199A1:38–39; 12:5
submarine erosion, 133A(1):11
volcanism, 193A1:3–5
Eocene thermal maximum-2,
carbonate, 208B1:15–16
See also Elmo event
Eocene thermal maximum-3, carbonate, 208B1:16
Eocene unconformity
Baffin Bay, 105A5:522
basement, 103B1:10
crustal transition, 103B4:42–43
opening, 103B2:21
eolian flux
vs. age, 138B28:618
vs. paleolatitude, 138B28:618
eolian transport
deep-sea sediments, 185B7:6–8
deposition, 202A8:13–14
geochemistry, 185B1:16
grain size distribution, 208B2:1–13
lithology, 177A8:9
Pleistocene, 185B1:10
sedimentology, 184A1:13; 200A4:24–25
vs. depth, 198B19:5
vs. terrigenous material, 159B41:570–571; 185B7:14
epeirogeny, rifting phases, 210B1:6
ephemeral chambers, ophiolites, 179A4:13
epicenters, earthquakes, 186A1:24
epiclastic sedimentation. *See* sedimentation, epiclastic
epiclastics
composition, 135B4:55–61; 52:834
geochronology, 157B11:133–134; 161B12:148
Kerguelen Plateau, 120B(1):10:139–140, 144
lithology, 135A(1):8:348; 180A9:7; 183A4:13–14
oceanic anoxic events, 198B16:11
Paleocene, 210B2:8
photograph, 144B19:396–397; 180A9:69
photomicrograph, 157B14:217; 180B8:41
reworking, 135A(1):4:105–109; 5:199–200; 6:258;
7:304
sedimentation, 181B1:9
subaerial deposits, 157B16:268; 27:458
volcaniclastics, 180B8:9
epiderm fragments, Site 724, 117B36:594
epidosite
alteration zones, 169A3:85
amphibolites, 173A6:130–131; 7:190–191
breccia, 173A6:131–132; 7:188–189
clasts, 173A7:191–192
deep copper zone, 169A3:77
geochemistry, 169A3:100–101
heavy minerals, 174A_B6:6, 9–11
lithology, 173A6:124, 126–127; 180A5:8–9; 7:8
meta-anorthosite, 173A6:131
metadiabase, 180A7:15; 8:19
photograph, 169A3:100; 173A6:129
photomicrograph, 169A3:95
tonalite gneiss, 173A6:131
veins, 169A3:76; 173A6:132
epidote
alteration, 135A(1):11:597, 644; 139B10:155–201;
11:214; 147A3:70; 147B13:238–239; 176A3:138;
176B6:3–5; 179B(synthesis):8
Atlantis Bank, 118B8:165, 168
basement rocks, 131A6:155
Bengal Fan, 116B4:62, 64, 68
calc-silicate rock, 161B18:254, 256
clasts, 149A6:167
composition, 147B15:308; 149B26:455; 176B9:52
Costa Rica Rift, 111B6:64, 69
diabases, 180A7:14
electron microprobe data, 148B8:107
fluid inclusions, 147A3:76–78
greenschist facies, 176B9:18–19
heavy minerals, 150X_B7:75–79
igneous rocks, 139A7:511

iron, 118B9:211
 iron vs. aluminum, 139B10:171
 lithology, 163X_A6:9; 180A5:8–9, 13; 8:15–16;
 187A13:4
 magmatic structures, 176A3:60
 metadiabase, 180A7:15
 mica schist, 180A7:12–13
 mineral chemistry, 118B9:200; 180B3:23
 moderate-temperature minerals, 176A3:37
 petrography, 161B27:357–359
 petrology, 180A11:4, 8
 photograph, 135A(1)11:602, 654; 180A8:80; 11:24,
 28, 30
 photomicrograph, 169A3:10; 180A7:36, 45; 8:76, 79;
 11:17, 25, 29; 180B3:28; 8:41
 sand, 146B(1)2:34–37, 40–42
 secondary minerals, 137/140B14:160; 15:173–174,
 184–185; 148B6:77, 83; 34:423, 427–429;
 180B3:8
 sediments, 125B18:333; 139B8:116
 sills, 139B8:116–117
 Site 732, 118A3:53
 Site 778, 125B19:347; 25:420
 Torishima Forearc Seamount, 125B25:421, 427–428
 veins, 118B27:551; 139A7:330–340; 140A2:76, 107;
 176A3:45; 176B9:12; 180A8:17
 volcanic ash layers, 127/128B(2)87:1379
 vs. depth, 140A2:66; 146B(1)2:39–42
See also quartz-epidote system; veins; zoisite
 epidote clasts. *See* clasts, epidote
 epidote grains, volcanoclastic sand, 180B7:6
 epidote-quartz schist, photograph, 180A7:38
 epidote veins. *See* veins, epidote
 epidotization, chemical effects, 148B4:49
 epifauna, vs. age, 175B19:17
 epifaunal/infaunal content, 183B2:8–9, 26–27
 epifluorescence microscopy
 microbial activity, 148B14:210–211
 photomicrograph, 193A4:196–197
See also fluorescence
 epimer ratios, sediments, 141B9:130–131
 epithermal neutron porosity logs, 159B23:245;
 164A6:141
 epoch boundaries
 depth, 167A(1)4:72; 6:135
 list, 206A3:341
 nannofossils, 190A4:122; 5:123; 8:75; 9:90
 eponidids, Pleistocene, 133B26:371–374
 equatorial fauna, 129B9:194; 161B35:449, 451–452, 454
 equilibrium dissociation, gas hydrates, 164B2:22–26
 equilibrium pressure, fluid flow, 146B(1)19:307–309
 equivalent fraction, vs. depth, 168B7:93–94
 erbium
 amphiboles, 147B3:70
 fresh and altered dacite, 193B12:4
 Paleocene/Eocene boundary, 199B16:3
 vs. lanthanum, 144B44:758
 vs. neodymium, 144B44:758
See also dysprosium/erbium ratio
 Ericaceae, Site 717, 116B21:255
 Ericson Y zone, planktonic foraminifers, 165B4:88

erionite
 photograph, 134B9:175
 photomicrograph, 195A4:92
 sediments, 195A1:20
 spectra, 134B9:147
 volcanoclastics, 134B9:137–144
 X-ray diffraction data, 195A4:16–17
 erosion
 Antarctic Bottom Water, 112A14:399
 Antarctic region, 114A12:798
 biogenic productivity, 120B(1)13:188–190
 chrome spinel, 120B(1)9:126–127
 continents in Northern Hemisphere, 130A10:533
 eddies, 101A7:236
 Eocene, 112A15:472; 189A6:24
 estimates, 180A1:20–21
 evidence, 135B6:98
 forearc basins, 135B20:325–328
 gaps, 160B4:53, 59
 gossan, 158B28:409–410
 guyots, 144B47:820–821
 ice-rafted debris, 120B(1)14:216
 ice sheets, 188B2:12
 Islas Orcadas Rise, 114A9:490; 114B35:662, 664
 Kerguelen Plateau evolution, 120B(2)47:885; 48:903
 late Miocene, 180B(synthesis):8
 Lima Basin S, 112A19:811, 814
 lithofacies, 160B43:551, 558–559; 169A3:57
 lithology, 160A14:471; 161A6:196
 Little Bahama Bank, 101A6:124, 140–141, 151; 7:236
 Marshall Paraconformity, 181B1:56
 mass balance, 157A1:7–8
 mass flow deposits, 160B37:478–479
 Mid-Atlantic Ridge SW, 114A8:411–412
 Neogene, 150B14:280
 Northeast Georgia Rise, 114A7:267, 305; 114B33:630;
 35:662–663
 Oligocene, 181B1:41–42, 56
 Oligocene–Miocene interval, 119B48:885
 paleoclimatology, 188B14:12
 paleoenvironment, 159A6:175–176
 preevaporites, 161B43:547
 prograding vs. limestone-chert sequences, 121A4:84
 Prydz Bay, 119A12:462–463
 Salaverry Basin, 112A13:308, 311–313
 sediment volume, 121B37:746–747
 sedimentation, 135B53:843–855; 181B1:32
 seismic reflectors, 157B2:26–27
 Site 745, 119A14:526
 Site 747, 120A6:151
 Site 748, 120A7:229; 120B(1)1:24
 Site 765, 123A4:83; 123B1:20
 source areas, 133B30:468
 stress, 207B15:11–13
 subsidence, 120B(2)52:948–949
 tectonics, 160B52:704
 thermal history, 159B4:41
 uplifts, 159B8:71–79; 184A1:11
 volcanoclastics, 157B12:163; 17:305–307; 27:460–462
See also current erosion

- erosion, current, seafloor spreading, 181B1:4–5
erosion, differential, photograph, 160A14:472–473
erosion, glacial
 ice thickness, 119B6:178–179
 Neogene, 145B16:254–255
 Oligocene–Miocene unconformities, 119B6:118
 overconsolidation effects, 119B3:156; 9:173–174, 178
 Pliocene, 119B6:114
 Prydz Bay deformable till bed scenario, 119B6:178
 sulfur and organic carbon changes, 119B6:113
erosion, maximum, vs. depth, 144B56:991
erosion, subaerial
 Broken Ridge, 121A13:469
 Lau Basin, 135B22:369
erosion, tectonic
 arc margins, 126B38:570
 Izu-Bonin forearc, 125A5:81
 Izu-Bonin-Mariana arc, 126B42:632
 Mariana forearc, 125B24:408
 mass wasting, 134A2:29–30
 subduction zones, 135B20:328
erosional contacts
 lithology, 201A9:11; 10:9
 photograph, 150A8:217; 172A4:88; 175A15:464;
 177A3:24; 200A3:58, 63, 66–67; 201A9:35
 sediments, 202A3:8–9
 See also unconformities
erosional events
 correlation, 129B12:234
 Miocene, 129B12:240
 middle Miocene, 165A5:234
 See also hiatuses; unconformities
erosional lag, lithology, 199A14:6
erosional rates, deformation, 186B1:7–9
erosional structures, photomicrograph, 180B8:41
erosional surfaces
 Albian, 143A8:279
 Campanian, 171B_A1:6
 depositional sequences, 144B47:829–834
 geologic history, 207A1:4
 Horizon A, 207B1:5
 lithofacies, 160B43:552
 lithology, 174AXS_A3:21; 4:12, 25; 204A10:6
 paleoenvironment, 159B11:105
 sedimentary structures, 172B7:4–12, 20
 structural data, 160A10:358–359
 upper Miocene, 207B1:10–11
 X-ray radiography, 172B7:17, 20, 29
 See also hiatuses; unconformities; weathering
erosional truncation, seismic profiling, 123A5:339–340
erratics, lithology, 163A2:26; 3:35
errors, statistical analysis, 142B8:64
eruption ages, radiometric dating, 142B5:38
eruption units, internal architecture, 197A6:31
eruptions
 environment, 183A5:28; 183B1:16–20, 27–28;
 192A1:8–9, 29–30
 glass shard morphology, 165A4:177–178
 igneous provinces, 192B5:9–10
 islands, 157A2:14–15; 157B16:280–281; 27:459
 lava flows, 183B14:3–8
 lithology, 181A8:11
 lower oceanic crust, 176B(synthesis):18–22
 magnitude, 157B14:212
 melts, 176B10:26–27
 mud volcanoes, 160B43:588
 rate vs. age, 157A2:15; 183B7:20
 submarine environment, 183A8:19
 tephra source areas, 165B5:105–106
 volcanic ash, 180A9:28
 volcaniclastics, 165A3:85–86; 192A1:57
 volcanism, 163X_A8:16; 165A6:347; 8:389, 390;
 181B1:24–25; 192A4:15–16; 201B19:3
 water, 183A9:26
 See also explosions; volcanism
eruptions, explosive
 Izu-Bonin forearc, 125B15:277
 Miocene, 157A2:20–21
eruptions, hydroclastic
 lithology, 192A1:12, 16
 volcaniclastics, 192A4:16–17
eruptions, phreatomagmatic
 guyots, 144A5:159, 163
 igneous plateaus, 192B1:7
eruptions, plinian-style, explosive volcanism, 201B19:14
eruptions, submarine
 hyalobreccia, 134A11:340–341
 volcaniclastics, 157B12:161, 163; 24:418
eruptions, volcanic, seamounts, 135B4:52–53
eruptive environment
 basalts, 129B19:379
 ocean island basalts, 129B5:148
 Pigafetta Basin, 129B5:144–145, 148
escarpments, serpentinite breccia, 149B35:574
Escherichia coli, microorganisms, 168B14:169–172
eskera, seismic units, 188B8:7
esters
 Lima Basin C, 112B39:599–601
 Site 681, 112B39:599–601
 Trujillo Basin, 112B39:599–601
 See also alkanolates; fatty acid-methyl esters; ma-
 lonate; Propionate; sterol esters; steryl esters;
 wax esters
esters, alkyl, sediments, 175B5:5–6
estuarine environment
 lithofacies, 174AXS_A7:42
 lithology, 174AXS_A1:28–29; 3:17, 20; 4:12
 Neogene, 189B1:17
 paleoenvironment, 174AX_A1:32
 stratigraphy, 174AXS_A2:2, 22
etching, diagenetic, placoliths, 183B8:7
ethane
 anaerobic sediments, 112A16:544
 carbon isotopes, 141B24:308–311; 184B13:15
 Celebes Sea, 124A10:157, 159–161, 183
 chimney structures, 125B21:376
 concentration, 162A8:276; 202A4:13, 71; 5:12, 60;
 6:13, 46, 63; 204A3:112
 core void gas, 146A(1)5:182; 204A3:113–114; 4:112–
 113; 5:35, 58; 6:46, 74; 7:68; 8:53, 86; 9:51, 84–
 85; 10:61, 102–103; 11:40, 57
 cores, 144A3:74; 4:129, 131

- Exuma Sound, 101A10:398, 405; 11:455
gas hydrates 127A6:288–289; 164A8:255; 164B3:30–35; 4:40–45, 51, 5:53–56; 164B3:30–35;
170A5:171–172; 204A1:45; 4:114; 5:59; 6:75;
7:69; 8:97; 9:86; 204B15:17–19
gases, 131A6:143–144
generation mechanism, 204B15:16–17
geochemistry, 139A6:197
geothermal gradient, 204B15:38
headspace gases, 157A6:158; 159A6:192; 8:284;
167A(1)6:150; 11:303; 12:340; 13:372; 14:415;
16:481; 167A(1)6:150; 7:171; 8:205; 12:340;
14:415; 16:481; 173A7:205; 8:253; 182A1:54;
201A8:61; 10:69–71; 11:94–95; 202A9:18; 13:70
isotopes, 164B7:71–72
Lima Basin, 112A11:179; 19:820, 834; 112B33:530
lithology, 164A6:113
microbial origin, 164B7:73–75
molecular composition, 131A6:191
organic acids, 125B22:388, 394–395; 36:603
Pisco Basin W, 112A18:724
pore water, 125B22:380; 195B7:3; 201A9:13; 10:16;
11:17–18
pressure cores, 204A4:115; 6:76; 8:88–89; 9:87;
10:104–105
retention times, 113A8:383
Salaverry Basin, 112A12:265; 13:318
sediments, 131B15:186–195; 133A(1)13:525; 15:639;
16:711; 139A7:319–320; 141A6:110–111; 7:202–
203; 8:269; 10:392; 146A(1)5:177–178;
146B(1)8:154–155; 150A9:282–283; 19:328;
156A7:225; 157A4:79; 6:156–157; 159A5:108;
160A11:395; 161A8:378; 9:403; 162A3:73;
5:156–157; 6:191; 9:306–307, 311–312; 10:360,
369–370; 164A5:87; 6:125; 7:197; 8:262–263;
9:297; 166A8:187; 9:250; 10:311; 11:360;
167A(1)5:105; 8:193; 9:232; 11:296; 13:368;
169A3:117, 119; 170A3:72; 4:129, 131; 5:171;
6:203; 7:234–235; 171B_A3:73–75; 4:139–141;
5:205; 6:283–284; 7:330, 332; 172A3:53–55, 59;
4:116, 118; 5:209; 6:272–277; 174A_A5:172,
175–177; 175A3:82; 4:103, 109; 5:136; 6:173;
7:195; 8:218; 9:265; 10:305–306; 11:335;
12:376; 13:421; 14:452; 15:480; 177A3:12, 58;
4:15–16, 87; 6:13; 7:14; 8:15–16; 9:12;
178A4:20; 5:16–17; 6:13; 8:12; 9:15; 180A1:9;
5:34; 6:59; 9:45; 12:40; 180B18:4–14; 181A3:24;
182A1:15, 18; 4:29, 95; 5:18; 7:19; 9:18; 10:23;
184A5:14–15; 7:14–15, 90–91; 9:17–18, 110–
112; 184B13:4; 186A1:10, 13; 4:37; 5:25;
186B14:7–8; 188A3:48–49; 5:24–25; 189A3:40–
42, 158–160; 5:156–157; 6:49–50, 165; 7:42–43,
139; 190A5:25–27, 135–136; 9:20; 201A1:32;
202A9:96; 10:16; 204A3:19–20; 4:16–17, 110–
111; 5:8–9, 57; 6:12–13, 73; 7:12, 67; 8:14–15,
85; 9:12–13, 83; 10:16–17, 100–101; 11:13, 56;
205A5:35; 207A4:24, 105; 5:26, 112–113; 6:103;
7:26, 105–106; 8:95; 210A3:95
Site 682, 112B33:531
Site 685, 112A17:622–623
Site 693, 113A8:377
Site 694, 113A9:485
Site 696, 113A11:650
Site 716, 115A13:1016
Site 721, 117A9:237, 244
Site 722, 117A10:298
Site 723, 117A11:353, 356–358
Site 724, 117A12:406, 412–413
Site 742, 119A11:420–423
Site 758, 121A12:419
Site 779, 125A7:125–126, 129
Site 783, 125A11:260
Site 794, 127A4:119
Site 795, 127A5:174, 213–216, 220
Site 796, 127A6:251, 287
Site 797, 127A7:368
Site 798, 128A4:125, 175–176, 187
Site 799, 128A5:244–245, 321–322, 339
Site 881, 145A3:54
Site 882, 145A4:98
Site 883, 145A5:153
Site 884, 145A6:242
source rocks, 159A7:243
Sulu Sea, 124A11:244–247
thermogenic vs. biogenic gases, 117A16:524;
190A1:85
Trujillo Basin, 112A16:544
Vacutainer samples, 172A5:218; 201A11:96
volcaniclastics, 157A9:459–461; 10:523
vs. depth, 113A5:131; 6:238; 7:313; 8:382; 9:487;
10:563–564; 11:652–653; 12:738; 139A7:342;
8:483–485; 139B25:471–472; 146A(1)5:180;
6:266; 7:337–338; 146B(1)10:180; 162A5:160;
6:192; 9:310; 10:368; 164A7:199–200; 8:268–
269; 9:299; 164B5:53; 168A5:146; 169A5:223;
6:284–285; 170A4:130; 5:175; 7:229;
171B_A4:140; 180A5:86; 6:166; 9:118; 12:122;
184B13:12; 186A4:126; 5:71; 188A3:132;
190A4:65, 133; 5:71; 8:45; 195A3:118;
201A1:68; 8:16, 36; 10:41; 11:51; 204A3:68;
4:68, 70; 5:33; 6:44, 46–48; 7:41–45; 8:52; 9:50–
53; 10:59, 61–62; 11:38, 40–41; 205A5:86–87;
6:43; 210A1:73; 3:277
vs. sulfate, 168A5:138–139
Yaquina Basin, 112A15:458
See also methane/(ethane + propane) ratio; methane/
ethane ratio
ethane/benzene ratio, vs. depth, 169A6:285
ethane/ethene ratio, gases, 167A(1)4:80; 9:233
ethane/ethylene ratio, gases, 167A(1)5:111; 7:171; 8:205
ethane + propane. *See* methane/(ethane + propane) ratio
ethane/propane, vs. ethene/propene, 139B25:475
ethanogenesis, Trujillo Basin, 112A16:544
ethanotrophy, sediments, 201A1:34
ethene
Lima Basin C, 112A11:181–182
sediments, 180A8:32; 184A9:18, 110–112
Site 682, 112A14:399
Site 685, 112A17:623
Site 688, 112A20:904
Yaquina Basin, 112A15:460

- ethene/propene, vs. ethane/propane, 139B25:475
ethenogenes. See *Dehalococcoides ethenogenes*
ethers, biomarkers, 198A9:105
ethyl alkadienone
 gas chromatographs, 139A6:206
 sediments, 139B26:480
ethyl esters, sediments, 167B12:186
ethyl ketones
 sediments, 175B10:7; 184B18:5, 9
 unsaturation index, 146B(2)19:261
ethylcholest, organic-rich layers, 161B30:396–397
24-ethylcholest-5-en-3-ol, sediments, 175B10:8–10
ethylcholestane, biomarkers, 207A10:6
ethylene
 Celebes Sea, 124A10:159
 concentration, 162A8:276
 gases, 139A7:489
 Site 794, 127A4:119
 Site 796, 127A6:287
 sediments, 162A9:311; 10:360, 369–370;
 171B_A4:139–141; 6:283–284; 204A3:19; 4:16–
 17, 110–111; 5:8–9, 57; 6:12, 73; 7:67; 8:14, 85;
 9:12, 83; 10:16, 100–101; 11:56
 vs. depth, 162A10:368; 204A6:44; 7:41; 8:52; 9:50;
 10:59; 11:38
 See also ethane/ethylene ratio
Eu/Eu*. See europium anomaly
Eubacteria
 community composition, 169B3:9
 microbial divergence indexes, 205B8:9
euheudral crystals
 sphalerite, 147A3:72
 See also habit
Euphorbiaceae
 Site 717, 116B21:249, 255
 Site 720, 117B16:286
euphotic environment, lower–middle Eocene, 189B1:11
euphotic shelf facies, photograph, 194A9:36
euphotic zone
 chronology, 167B11:181
 hydrography, 175B11:3
 nanoflora, 164B33:338
europium
 altered rocks, 193B1:48
 anhydrite, 158B12:150–159
 anomalies, 148B4:50
 clay, 180B17:6
 dacite lava, 193B2:8
 Paleocene/Eocene boundary, 199B16:3
 volcanic ash layers, 201B19:12
 vs. depth, 158B12:156
 vs. gadolinium, 158B12:158
 vs. lanthanum/ytterbium ratio, 158B12:158
 See also titanium/europium ratio
europium anomaly
 basalts, 121B30:570–571; 32:627
 chondrite-normalized anomalies, 136B9:112
 compared to anorthite and calcium oxide, 147B1:6
 crust-derived materials, 127/128B(1)42:731
 gabbros, 147B1:11–12
 intrasite variation, 121B30:575–576
 negative anomaly, 125B12:226–227; 16:306
 Ninetyeast Ridge, 121B33:635
 pillow basalts, 137/140B11:129
 positive anomaly, 125B7:124, 129; 28:491
 rhyolitic volcanic activity, 127/128B(1)42:731–732
 siliceous input, 127/128B(1)39:691
 sills, 139B6:95
 Site 757, 121B32:628
 Site 794, 127/128B(1)39:682–683; 58:916–917
 Site 795, 127/128B(1)39:683; 58:918
 Site 797, 127/128B(1)39:688–691; 58:920
 Site 798, 127/128B(1)42:729, 735; (2)86:1368–1369
 Site 799, 127/128B(1)42:729, 736
 vs. cerium anomaly, 127/128B(1)42:737
 vs. strontium, 137/140B12:134
 vs. zirconium/neodymium ratio, 136B9:115
europium/europium ratio
 bulk sediments, 199B14:4, 15
 vs. calcium oxide, 193B2:24
 vs. silica, 193B2:24
 vs. strontium, 193B2:24
 vs. strontium isotopes, 193B7:15
europium/europium ratio, amphibolites and metagabbros, 173B10:5
europium/lanthanum ratio, Cretaceous/Tertiary boundary, 119B39:726
europium number
 vs. chromium/neodymium ratio, 147B1:14, 15
 vs. magnesium number, 147B1:12
 See also europium/europium number ratio
Euryarchaeotal group, bacteria, 201B1:18
eustasy
 carbonate platforms, 166A1:5–10; 166B16:167–177
 coastal plains, 150X_B27:361–373
 cycles, 159B12:120–121
 diatoms, 164B35:376
 Eocene, 150X_B17:239–241
 Oligocene–Miocene interval, 150X_B1:7
 sedimentation, 160B43:563–564
 seismic stratigraphy, 194A1:47–49
 See also glacioeustasy; isostasy; regressions; sea level changes; transgressions
eustatic sea level. See sea level changes
eustatism
 global changes, 150A2:11–20
 rift onset, 180B(synthesis):9
 See also glacioeustasy; sea level changes
Eustigmatophyceae
 concentration, 175B10:30
 kerogen, 157B34:599
 sapropels, 160B22:276; 23:289
 sediments, 175B10:7–8
 See also Nannochloropsis
eutectic melting temperature, fluids, 139B21:416
eutrophic environment
 dinocysts, 189A6:39; 7:35
 lower–middle Eocene interval, 189B1:10
 paleoenvironment, 189A5:34
 Pigafetta Basin, 129B9:194
euxinic conditions
 biomarkers, 207A10:7

- organic matter, 160B23:285–295
- See also* anoxia; oxygenation; photic zone
- evaporation, isotopic stratigraphy, 160B13:178–179
- evaporites
 - brines, 107B37:612
 - Cefalu Basin, 107B38:621
 - clasts, 160B50:669
 - Cornaglia Terrace, 107A9:601; 107B1:13
 - cyclicality, 107A10:784; 107B38:645
 - deposition, 107B26:414; 37:612; 38:645–647, 649
 - diagenesis, 144B48:866; 161B33:430–431
 - dissolution, 107A8:435; 175A7:190
 - dolomicrite, 101B13:198
 - Exuma Sound, 101B29:464
 - flux, 160A4:69; 5:113; 10:366–367; 161A4:83; 5:145; 7:321; 8:378–380; 9:405
 - geology, 160A10:337
 - Great Isaac 1 well, 101B27:425–426
 - gypsum-rich layers, 107B13:194
 - hydrocarbons, 107A10:754
 - impact craters, 165A1:8
 - indicators, 160A9:311
 - Leg 121, 121A2:42
 - lithology, 107A8:455; 107B14:211–212; 38:619; 160A8:247, 249; 161A5:125–128, 131; 161B1:12–14
 - Little Bahama Bank, 101B24:365–366
 - marginal-type facies, 107A2:22; 107B38:621
 - Messinian, 107B37:608–609; 160A1:14–16; 5:87–88; 13:451; 14:466–467; 160B29:368–370; 50:673–674, 677; 54:734; 161B43:543–551
 - Messinian–Pliocene interval, 160B34:441; 36:458–459; 53:716–720
 - moats, 160B38:500–501
 - mud, 160A1:13–14
 - Oligocene source sediments, 133B31:479
 - paleoenvironment, 107B38:648
 - rifting phases, 210B1:8
 - Sardinian margin, 107A9:753–754; 107B1:13, 23; 12:184
 - sedimentation, 161B1:14–16
 - Site 704, 114B25:470–472; 26:479; 28:523
 - strontium isotopes, 107B25:403; 37:603–609
 - sulfur isotopes, 161B32:414–416
 - terrigenous sediment, 107B14:211
 - thermal conductivity, 107A9:617
 - transition to preevaporitic environment, 107B14:217
 - Tyrrhenian Sea, 107A7:289
 - See also* celestite; gypsum; halite; salt
- event beds. *See* event stratigraphy
- event stratigraphy
 - guyots, 144B53:944
 - laminae, 146B(2):6:78
 - Quaternary, 133B51:756–759
 - radiolarians, 145B4:67, 72–77
 - tephra, 157B15:219–291
- evolutionary events, oceanic anoxic events, 207A1:62
- evolutionary rates, foraminifers, 130B10:151; 12:241
- Evvia (Aegean Sea), conglomerate, 160B43:563
- excess pore water pressure. *See* consolidation
- excess silica. *See* silica, excess
- exclusion, recrystallization, 166B9:106–107
- excursion taxa, nannofossils, 207B1:10
- exfoliative basalts, dessiccation, 169A5:213
- exhalations, hydrothermal circulation, 169A1:7–9
- exhumation
 - continental crust, 180B3:1–28
 - lithofacies, 131B27:337–338
 - mantle, 210B1:9–11; 9:1–69
 - mid-crustal levels, 147B28:472
 - basement, 161B21:296; 22:303; 25:339
- exogenic cycles, sulfur, 129B15:283
- exopolymeric clusters
 - bacterial habitation, 193A3:226
 - photomicrograph, 193A4:199
- exotic rocks, Site 778, 125B18:328, 338
- experimental petrology, fractures, 127/128B(2):75:1181
- expansion, linear, tests, 131A6:217, 220
- expansion pressure, vs. scan number, 146A(1):5:206
- expansion void gases
 - Chile triple junction, 141A7:203, 205
 - See also* gases
- explosions
 - volcanism, 157B14:214–215; 27:459; 165A8:390; 165B20:299–314
 - See also* eruptions; volcanism
- exposure surfaces
 - carbonates, 144B16:322
 - lithology, 194A7:7
 - photograph, 194A7:63, 70
 - well-logging, 194A7:35–36
 - See also* karstic exposure surfaces
- expulsion rates, dewatering, 146B(1):15:266
- exsolution
 - basement units, 183A6:47
 - carbon dioxide, 148B4:50
 - gabbro magnetic susceptibility, 176B11:23
 - gabbrobronorites, 209A10:9
 - photograph, 147B2:34
 - photomicrograph, 169A3:68; 176A3:116; 176B11:66–67; 183A5:105; 197A3:86; 4:64; 200A3:101; 209A9:70; 10:75, 83
 - pyroxenes, 147B13:237–238
 - volcanology, 197A3:18
 - See also* troilite-pyrrhotite exsolution
- exsolution lamellae
 - amphibolite clasts, 173A7:190–191
 - gabbros, 179B(synthesis):26, 42; 4:41
 - lava flows, 197A3:21
 - metagabbros, 173A7:191
 - photomicrograph, 179A4:122; 209A7:54, 57
- exsolution laths
 - ilmeneite, 147A3:72
 - photomicrograph, 193A3:189
- exsolution texture. *See* textures, exsolution
- extended core barrel
 - Lingayen Gulf, 124E_A13:84
 - Luzon Strait, 124E_A14:95
 - Mariana Basin E, 124E_A18:133
 - summary, 124E_A9:59–60
 - systems, 124E_A1:5; 6:45–47

extension

- active mounds, 158A2:19–20
- basins, 159B10:96; 161A1:5–11; 161B44:557–559
- Cenozoic, 182A1:3
- continental margin, 173A:7
- crust, 135A(1)4:92; 210A1:11–12; 5:36
- décollement structures, 159B3:28
- deformation, 180A1:7; 190/196B1:4
- faults, 159B2:17; 180B(synthesis):13–14; 193A1:33
- geologic history, 207A1:3–4
- lithosphere, 173A1:17
- Lower Cretaceous, 173A1:8–12
- Pliocene–Pleistocene interval, 180A3:5–6; 180B(synthesis):1–36
- rates, 210B1:19–20
- rift systems, 210A1:4–6; 210B1:6–15
- stress, 124B9:117
- subduction zones, 135B20:328
- tectonics, 180A7:17; 189A1:8–9; 210B9:26–28
- thermal subsidence, 180B(synthesis):10
- Triassic–Liassic interval, 103A5:83
- veins, 193A3:63–64
- volcanism, 192A1:7
- See also* crustal extension
- extension, amagmatic, 135B26:482–485
- extension, backarc, sonar imagery, 135B23:373–374
- extension, brittle-ductile
 - Bonin/Mariana region, 125B36:609
 - Site 783, 125B19:352
- extension, continental
 - Gondwana, 120B(2)50:918
 - Woodlark Basin W, 180A1:1–77
- extension, intraplate, rifting, 210B1:12–15
- extension, lateral, structure, 190A4:10
- extension, transitional, 210B1:15–21
- extension factors, reflectors, 173A1:11
- extensional faults. *See* faults, extensional
- extensional tectonics, 161B44:571
- extinction. *See* pseudoextinction
- extinction events
 - benthic foraminifers, 181B1:20
 - biserial planktonic foraminifers, 130B12:241
 - calcareous nannofossils, 130B13:246
 - Cenomanian/Turonian boundary, 207A1:7
 - Cretaceous/Paleocene boundary, 120B(2)54:961–962
 - Cretaceous/Tertiary boundary, 183B4:12–13; 198B1:8–9
 - Eocene/Oligocene boundary, 120B(2)55:979, 982
 - Eocene–Oligocene interval, 101B30:477
 - foraminifers, 141B15:213; 202A12:12
 - Paleocene/Eocene Thermal Maximum, 198B1:10–12
 - planktonic foraminifers, 130B10:152
 - water temperature, 120B(1)32:584
- extraterrestrial events, millennial-scale, 202A1:33–37
- extrusive breakup complexes, stratigraphy, 163B1:3–16
- extrusive rocks
 - basalts, 129A4:216
 - classification, 119A1:24; 2:44

F

F-factor

- remanent magnetization, 192B5:7–9
- See also* magnetic properties

F-phosphate, Site 799, 127/128B(1)2:36–39

fabric

- accretionary prisms, 141B2:14, 18
- amphibole veins, 148B16:233
- authigenic carbonates, 164B29:287–289
- basement/sediment contact, 161A6:217–221; 161B25:340
- basalts, 163B4:37–38
- breccia, 149A6:184–185; 161B25:334–335
- burrows, 160A7:186
- carbonates, 146B(1)6:119–120, 127–130; 149B31:532; 156B5:96
- clay minerals, 127/128B(2)2:35–38; 149B19:353–361
- clays, 141B8:108–109
- cycles, 165B7:134
- deformation, 160A7:180, 182; 161B25:332–334; 180B(synthesis):16; 209A9:12
- deposition, 171B_A6:262
- diamict, 178A9:18–19
- dolomitization, 133B45:679–680
- electron micrograph, 170B3:20
- equal-area rose diagrams, 210B3:21–22
- Ethmodiscus* ooze, 167B15:207–212
- Flinn-type diagrams, 146A(1)6:262
- fluid flow, 193B1:30
- gabbroonorites, 209A10:8–9
- gabbros, 147A1:10–11; 147B17:317–328; 20:359–367; 176A1:18–22; 179A4:50–53
- gas hydrates, 164A1:7; 204B1:14–15
- geometry, 131B7:86–87; 147B17:319–321; 19:354–355
- gneisses, 161B19:266–267
- igneous units, 163X_A6:21–23
- intensity, 176A3:179–181; 209A1:102
- lithofacies, 146B(2)22:296
- lithology, 133B27:389; 163X_A6:19–21; 169S_A2:24–25; 180A6:10, 25; 207A6:10; 8:6; 209A6:80; 210A4:7
- mafic rocks, 149A7:232
- magmatic structures, 176A3:56–58, 179, 181, 208; 176B10:22
- magnetic properties, 146B(1)14:233–254; 156B6:97–105; 180A6:48–50
- massifs, 179A4:56–57
- metasediments, 173A8:246–247
- microscopic vs. macroscopic observations, 176A3:64–65
- mousselike texture, 160A12:428
- olivine in peridotites, 149B22:401
- orientation, 141B8:111–112; 147B19:352
- oxide correlation, 176A3:210
- peridotites, 147B19:347–356
- photograph, 146B(1)14:228–232; 149A6:167; 7:185; 160A7:186; 8:247; 12:428; 190A9:46; 198A9:47; 201A11:82; 207A4:43; 5:49

- photomicrograph, 160B27:342–346; 161A6:239–246;
 171A_B1:3, 9–11; 176A3:205–207; 193B9:18
 pyroxene bastite, 209A5:104
 sandstone, 134A10:273
 scanning, 156B11:155–156
 sediments, 135B49:797–804; 150B20:363;
 167B22:257
 serpentinization, 149A4:91; 149B35:574, 581–583
 shear wave splitting, 147B25:434
 shear zones in peridotites, 149B22:407
 spinels, 209A6:22
 structures, 156A6:114–127; 170A4:115–116;
 180A5:23–24
 styles, 179A4:43–44
 tectonics, 134A10:291; 179B(synthesis):5–7
 ultramafic rocks, 147B14:263–264
 underthrust section, 170B3:7–8
 well-logging, 171A_A5:63
 xenoliths, 193B6:2–3
See also microfabric
- fabric, bedding
 lithology, 131B9:124, 128, 131
 structural analysis, 146B(1)13:218
- fabric, cataclastic
 rhyolite, 135B20:315
 thin sections, 148A2:64–65
- fabric, clay
 photomicrograph, 171A_B1:3, 9–11
 protodécollement imagery, 171A_B1:10–11
 sediments, 190/196B7:7–11
- fabric, crystal-plastic
 harzburgites, 209A7:14–15
 intensity, 209A5:21–22, 146
 lithology, 179A2:5
 photograph, 209A3:128
 tectonics, 179B(synthesis):5–7
- fabric, décollement, imagery, 171A_B1:12–13
- fabric, deformation
 harzburgites and plagioclase dunites, 147B20:361
 lithology, 176A3:19
- fabric, distributed conjugate, 146B(1)13:219, 223
- fabric, ductile
 basement, 161B44:565–568
 schists, 161B19:265
- fabric, fenestral
 carbonates, 144B16:322
 fern spores in volcanic substrate, 144B53:943
 photograph, 144A10:351; 144B16:332–333
- fabric, gabbro, orientation, 209A3:132
- fabric, grain, planar laminations, 210B3:26–27
- fabric, high-temperature
 crystal-plastic, 179A4:52
 high-strain, 209A3:22–23
 low-strain 209A3:21; 5:24, 28–29; 6:19
 moderate-strain, 209A3:21–22; 5:24–25, 28–29
- fabric, igneous, thin sections, 148A2:64–65
- fabric, in situ, gas hydrates, 164B1:8
- fabric, laminated, postglacial sediments, 178B18:4
- fabric, magmatic
 basalts, 206A3:73–74
 distribution and orientation, 209A10:21
- veins, 206A1:32–33
- fabric, magnetic
 accretionary prisms, 131B25:301–310
 basins, 134B28:501; 135B51:820–825
 deformation, 131B7:84
 dikes, 140A2:105
 magnetic susceptibility, 156B6:103–104
 sediments, 134B27:475–490
 strain indicator, 141B3:29–49
 structures, 137/140B21:245–250
- fabric, moderate-temperature high-strain, 209A5:25
- fabric, mylonitic
 gabbros, 180A11:8
 photograph, 210A4:26
 photomicrograph, 161A6:246; 180A11:27
- fabric, neomorphic, diagenesis, 144B46:794–795
- fabric, nodular, clay seams, 143A6:126
- fabric, penetrative
 deformation, 131B7:83–84
 planar, 190/196B7:6
 sediments, 131B29:372
 structure, 147A3:79–80
- fabric, phyllosilicate, structures, 131B29:369–370
- fabric, planar
 breccia, 134B10:237
 orientation, 112B2:21
 photograph, 134A9:222, 224
 primocrysts, 179A4:35; 179B2:18
 sediments, 134A10:281
 Site 685, 112A17:609–610, 615–616; 112B2:29
- fabric, protodécollement, imagery, 171A_B1:6–8
- fabric, radial, Site 685, 112A17:615
- fabric, sandy, lithology, 201A11:11
- fabric, scaly
 cleavage, 134A7:115
 cores, 131A6:113, 134; 140A2:83–84
 décollement zone, 156B22:281, 284–285; 205A6:11
 kinematic model, 156B4:71–73
 lithology, 170A6:197–198; 201A11:10; 204A10:7–8
 microstructures, 146B(1)12:207
 photograph, 156A6:127–129; 7:218, 221; 180A8:72;
 201A11:47
 scanning electron microscopy, 171A_B1:4, 13
 sedimentary wedges, 170B3:4–6
 sediments, 134A7:117; 205A5:21
 sheared clays, 156B4:59–77
 structural domains, 170A7:223–227; 180A8:21–24
 thickness vs. clay thickness, 180A8:128
 thrust sheets, 134B23:420–427
 vs. depth, 171A_A6:78, 88
 well-logging, 171A_A6:85
- fabric, shallow scaly, photograph, 180A8:75
- fabric, structural
 anisotropy, 131B29:365–378
 lithology, 131A7:283
 optical microscopy, 131B4:48
 orientation, 131B9:124
- fabric, wavy, photograph, 207A4:46
- fabric, welded, photograph, 183A7:85, 89
- fabric ellipsoid shape factor, vs. depth, 149B19:357
- fabric matrix, protodécollement, imagery, 171A_B1:9

- facies
 alteration, 169A6:267
 Cretaceous–Quaternary interval, 149B6:184–189
 deposition, 178A9:8–9
 diamictite, 178A9:7
 Formation MicroScanner imagery, 180B9:17–18, 22; 25:21
 lithology, 161A6:196; 178A4:5–13, 50; 5:5–12; 8:5–6, 34, 37, 178B25:4–6; 180B9:23; 195A3:11–12; 4:11–14
 peridotites, 149A4:75–83
 photograph, 178A4:54–60; 5:46, 52–54, 74; 8:32–38; 9:45–50; 180B9:19–21; 195A3:68–70
 structure, 178A4:57; 5:48, 51
 transform faults, 159A9:298–309
 turbidite facies, 180B9:5–9
See also biofacies; lithofacies; microfacies; *Miogypsina* facies; spinel facies; spinel lherzolite facies
- factor analysis
 biofacies, 150X_B16:211–214
 clay minerals, 188B7:29
 detrital component, 167B23:267–270
 diffuse reflectance spectrophotometry, 164B31:318–323; 188B7:7–13, 26–27; 13:9–11
 factor score, 188B7:32–46; 13:28–32
 goethite, 188B7:26–27
 hematite, 188B7:31
 hydrothermal deposits, 135B5:79–80
 interpretation, 188B7:9–12
 loading, 167B25:293–296
 maghemite, 188B7:30
 major elements, 167B25:286–288
 organic matter, 188B7:28
 paleoceanography, 167B25:291–293
 Q-mode, minor elements, 167B23:267–270
 vs. depth, 167B23:270; 188B7:10–11
 vs. quartz peak intensity, 167B25:288
 vs. sodium oxide/(silica – 14.15) ratio, 167B25:289
 well-logging, 171A_B2:4–6
- factor logs
 statistical methods, 171A_B2:7–8
 vs. depth, 171A_B2:13–17
 well-logging, 171A_A3:22, 26; 171A_B2:20–29
- Fagales. *See* Myricaceae
- failure
 sediments, 141B1:5–6; 33:407–410
 triaxial shear strength, 186B17:5
 tuffs, 131B22:275–281
- failure, tensile, diabase, 148B32:406–407
- fall deposits, lithology, 197A3:13–14
- fallout deposits, composition, 135A(1)4:104–109
- fan deltas, basin margins, 161B43:548–549
- fan faulting. *See* faults, fan
- fan lobes, deposition, 178A4:11
- fanglomerate, deposition, 160B43:545–566; 54:746
- fans
 deep-sea, 145B16:254–255; 146A(1)4:109; 6:255; 146B(1)1:14
 growth, 188B14:27
 history, 188B14:11–13
 seismic facies, 188B14:8–10, 21–26
 trough-mouth, 188B1:11–12
See also alluvial fan deposits; alluvial plains; foresets; topsets
- far porosity logs, 201A6:71; 10:61; 11:77; 207A4:69–70; 5:79–81
- farnesane, biomarkers, 207A10:5–6
- fast track, magnetic susceptibility, 202A1:9–10
- fatty acid methyl esters, 167B12:186; 205B8:6–11
- fatty acids
 active sulfide flange, 169B3:16
 chromatograms, 175B10:24
 compared with other sediments, 169B3:17
 geochemistry, 172B1:1–9
 microbial biomass, 169B3:1–19
 mole percentages, 169B3:19
 organic-rich layers, 161B30:394–395
 profiles, 175B5:21
 sediments, 157B21:367–368; 175B5:8; 10:5–6; 190/196B14:1–10
 terrigenous/aquatic ratio, 190/196B14:6, 9
 vs. depth, 190/196B14:6
See also acetate; *anteiso*-branching pentadecanoic acids; formate; heptadecanoic acid; lipids; *n*-fatty acids; palmitic acid; pentadecanoic acid; stearic acid; Sulfolobales
- fatty acids, long-chain, sediments, 184B18:4, 9
- fatty acids, midchain hydroxy, sediments, 175B10:8
- fatty acids, phospholipid
 sediments, 205B8:6–11, 24
 vs. depth, 205B8:18–20
 vs. time, 205B8:17
- fault azimuth, vs. depth, 159B9:86, 89
- fault blocks, sedimentation, 173A8:258
- fault breccia. *See* breccia, fault
- fault density, well-logging, 171A_A3:29–31
- fault dilation, stress, 146B(1)22:356–357
- fault dip
 vs. depth, 159B9:86; 173A6:146; 186B16:19
See also dip, faults
- fault gouge
 basement/sediment contact, 161A6:211, 216
 brecciation, 180A1:13–14
 deformation, 173A6:148; 180B(synthesis):16
 dip, 209A7:119
 fabrics, 153B8:148–149
 fluids, 161B44:568
 foliation, 209A9:14
 Formation MicroScanner imagery, 209A7:88, 115–116
 gabbros, 153B4:71
 hydrothermal alteration, 209A5:12; 9:9
 igneous rocks, 209A3:25–26; 7:17–18
 indurated units, 173A6:127–129
 intensity, 209A7:92
 lithology, 209A5:4; 210A4:7
 magnetic anisotropy, 180B21:1–7
 metamorphism, 173A6:136
 petrology, 180A11:4
 photograph, 153A4:157, 167; 161A6:241; 173A6:149; 180A1:53; 11:14, 23; 205A1:69; 5:48; 209A1:120; 3:113; 5:108; 9:39, 82–83
 proportions, 209A1:98

- recovery and boundaries, 209A6:78
- semibrittle shear zones, 209A6:24–25
- serpentines, 209A5:22–23
- serpentinites, 149B36:584
- Site 779, 125A7:127–128
- structural data, 173A9:285–288; 180A11:7
- volcaniclastics, 180B3:3–4; 8:5–6
- vs. depth, 205A5:64
- X-ray diffraction data, 173A6:138; 180A11:40
- X-ray fluorescence data, 161A6:238
- fault gouge, clay-rich
 - basement/sediment contact, 161B25:332–335
 - photograph, 161B25:341
- fault gouge, semiplastic, photograph, 209A7:87
- fault gouge zones
 - fault zones, 135A(1)11:598–601; 135B20:317
 - microstructures, 146A(1)7:329–330; 146B(1)12:208
 - photograph, 146B(1)12:215
- fault planes
 - décollement structures, 159B3:25–26
 - deformation, 160A5:106; 9:307, 310; 161A6:222–223
 - dip, 160A5:108
 - Formation MicroScanner imagery, 134B34:598
 - lithology, 159A7:231; 180A12:18
 - magnetic foliation, 186B16:16
 - negative polarity, 190/196B15:1–16
 - orientation, 134B24:433; 135B20:324
 - photograph, 161A6:241
 - reflections, 156B9:125–127
 - sediments, 159A5:98–100
 - seismic reflection, 135A(1)4:93; 156A1:3–5; 2:22; 5:76
 - stereographic projections, 196A3:58
 - stress, 134B32:574
 - structural data, 160A4:64; 180A6:41–43; 12:29
 - tectonic units, 134B10:208–211
 - tensors, 160A5:110
- fault planes, slickenlined, examples, 131B8:107
- fault scarps
 - lithology, 193A1:4; 4:22
 - rift valleys, 147A1:6
 - sedimentation, 180B(synthesis):14
 - slumps, 169B10:21–22
 - topography, 135B23:376
- fault splays
 - décollement zone, 156B23:300–301
 - physical properties, 146B(1)23:362–366
- fault strike, rotation axes, 159B9:89–90
- fault systems
 - hydrothermal fields, 158A1:6, 12–13
 - neovolcanic zones, 158A2:18–21
- fault zones
 - accretionary systems, 141B1:4; 146A(1)9:395
 - advection, 139B14:328
 - argillitized and mineralized composition, 125A14:331
 - barium, 205B2:9–10
 - basement units, 183A7:15, 26
 - biostratigraphy, 146B(1)4:74; 5:102; 24:373
 - breccia, 135A(1)11:598–601; 180B24:7
 - bulk permeability, 156B15:215–217
 - Conical Seamount, 125B19:358
 - core-log correlation, 209A7:18–19
 - dark, 131B7:89, 91
 - deformation, 209A3:30; 5:147; 209B1:12–15
 - diagenesis, 156B1:25–27
 - dips, 180A9:97–98
 - dolomite, 201B13:10
 - extension, 135A(1)1:21–23
 - fluids, 146A(1)7:346; 19:302–310; 196A1:12–13; 209A7:9
 - Formation MicroScanner imagery, 169A3:134; 193A4:223; 209A7:115
 - hydraulic conductivity, 146B(1)17:281–289
 - hydrothermal alteration, 209A6:11–14
 - Iberia Abyssal Plain, 149B36:583
 - imagery, 135B23:377
 - isotope tracing, 146B(1)6:134; 7:144–147
 - Juan de Fuca Ridge Middle Valley, 139B1:3–5
 - lithology, 183A1:24; 209A7:6–7
 - mylonitization, 180A11:6–7
 - normal faults, 135B20:315–318
 - oceanic crust, 176B5:13
 - orientation, 209A7:18–19
 - permeability, 180B23:7–8
 - photograph, 141A10:394; 170A4:114
 - sediments, 146B(1)12:205–206; 156B4:67–71; 205A5:21
 - seismic velocity, 146B(1)22:349–358
 - shallow-angle normal faults, 180B(synthesis):16
 - structural analysis, 146B(1)13:221; 156A6:117, 173; 7:211–215; 180A5:23–24; 6:39–40; 9:30–31; 12:30; 209A9:16
 - Variscan basement, 149B1:8
 - veining, 173A6:148
 - velocity, 180B(synthesis):17
 - vs. depth, 180A5:74; 205A1:51
 - well-logging, 146A(1)7:374–375
- faulting
 - accretion, 141B1:3–12
 - asymmetric, 176B(narrative):9–12
 - basement/sediment contact, 161B25:335–336
 - block, 124B3:43
 - Cagayan Ridge, 124A12:336–337; 124B38:515
 - calcium gradient, 121A10:286
 - carbonates, 130B3:46
 - Celebes Sea, 124A10:179; 124B8:108, 116
 - Cenozoic, 135B12:173, 175
 - Central Indian Ridge, 115A4:152
 - cross, 112A20:885
 - deformation, 123A4:80; 161B44:568
 - ductile, 119A6:107; 119B26:511
 - evidence, 130B3:41–44
 - extensional microfaults, 107A8:422
 - fault planes, 107A2:23
 - fault zones, 148B34:430
 - felsic rocks, 183A7:42–43
 - flexured margin, 180A1:23–24
 - footwall structural analysis, 146B(1)13:221
 - half-grabens and tilted blocks, 107B38:619, 623
 - imbricate thrust, 112A4:73
 - microfolds, 107A8:423
 - microstructure, 107A8:455
 - Miocene, 133B27:393–394

- oceanic crust formation, 107B38:653–654
- Oman margin, 117A11:342–343; 18:563
- Pacific Ocean W, 124B8:116–118
- Peru margin, 112A7:111
- reverse, 112A20:889–890
- Riedel orientation, 107A10:766
- Sardinian margin, 107A10:759, 762; 107B1:12; 38:650
- seismic stratigraphy, 107B1:22
- stress fields, 123B26:510; 161B24:323, 325
- subsidence, 125B11:271
- tectonics, 173A1:17–19; 210B9:30–31
- transverse, 112A9:134
- volcanic ash layers, 125A14:330; 125B14:273–274
See also hanging wall; microfaulting
- faulting, tensional
 - Marsili Basin, 107A6:144
 - microfaults, 107A7:304
- faults
 - alteration, 205A1:11–13
 - anisotropy of magnetic susceptibility, 186B16:5–6
 - basalts, 163B4:37–38
 - basement, 180B(synthesis):5–7
 - bathymetry, 139A2:11–12
 - brittle structures, 179A4:54–56
 - Cenozoic reactivation of Variscan faults, 149B1:14–15
 - clay, 190/196B6:12–13; 12:9
 - collisional tectonics, 161B23:310
 - cores, 135B20:313–323; 141A6:97–98
 - cross sections, 180A1:67
 - décollement zone, 131B6:73; 21:366–367;
 171A_B3:6–11
 - deformation, 159B1:9–10; 160A5:104–106; 6:143;
 7:180, 182; 8:234–235, 238–242; 170A3:60;
 209A6:25–26; 210A3:71–73
 - dewatering, 131B7:84; 170B4:4–5
 - diabases, 180B3:4–7
 - dip, 125A12:288–290; 134A8:158; 135A(1)8:359–360;
 159B3:8; 9:83–87; 160A7:185; 176A3:60–61,
 196, 198; 180A6:142; 8:21–22, 71–72, 83; 9:96–
 97; 10:47–48; 209A3:118–119; 7:119; 10:107
 - displacements, 161B24:329
 - distribution, 131A6:127–128, 142–147; 131B9:125–
 131
 - domains, 141A10:370–374
 - drilling disturbance cause, 141A7:201–202
 - Formation MicroScanner imagery, 134A12:452;
 176A1:25–26; 3:240
 - frequency (number vs. depth), 186A1:36
 - friction, 159B5:46
 - gaps, 160B4:53, 59
 - gas hydrates, 164A5:49–51; 9:289–290; 164B1:8–9;
 26:262; 204B3:6–8
 - geology, 195A1:3–4; 195B1:2–4, 29
 - geophysics, 139A7:285
 - heat flow, 148B20:294–295
 - hydrofractures, 148B17:249
 - igneous rocks, 209A3:26
 - intensity, 176A3:196, 211, 235
 - Islas Orcadas Rise, 114A9:509; 114B1:19, 22
 - lava flows, 163A5:55
 - Liquine-Ofqui fault, 141A3:26–29
 - lithology, 150A10:319; 164A5:70, 77; 171A_A4:45;
 171B_A4:112; 173A4:71–74; 7:197; 180A8:16;
 183A7:5; 184A9:10–11; 186A4:18–19, 60–61
 - logging-while-drilling, 171A_A1:5–10; 4:49; 5:70
 - Luzon Strait, 124E_A14:94
 - magmatic structures, 176A3:59–61
 - maps, 149B1:5; 165B7:127
 - mass flow deposits, 160B37:478–479
 - metasediments, 173A8:249–250
 - Meteor Rise, 114B1:6, 20, 22; 2:31, 37
 - mud volcanoes, 160B48:641–642
 - New Hebrides island arc, 134B35:616
 - Northeast Georgia Rise, 114B2:24–25, 31, 37
 - number, 186A5:91, 122
 - offsets, 159B1:4–5
 - orientation, 107B38:650; 112A17:620–621; 20:889–
 891; 135B19:307; 138A(1)10:205–206; 186A1:35
 - paleomagnetism, 176B11:17, 69; 207A5:19
 - patterns, 135B2:11
 - photograph, 141A6:106; 7:209; 9:311; 10:389–390,
 393–394; 141B1:8–12; 8:117; 149A4:86;
 150B11:215; 159A5:81; 6:187, 207; 7:240–241;
 8:280; 159B1:6; 160A8:229; 178A4:54;
 180A6:130; 12:70; 186A5:90; 190A7:33;
 197A4:42; 199A11:46; 206A3:128
 - photomicrograph, 170B3:21; 180A8:65–66; 209A6:87
 - photomosaic, 131B7:97
 - physical properties, 131B10:137
 - physiography, 180B(synthesis):29
 - Pliocene–Pleistocene interval, 161A9:399
 - Pliocene–Quaternary interval, 160A7:157; 17:518;
 160B53:716
 - preferred orientation, 141B8:110–111
 - relation to fractures and veins, 180A6:145
 - relative proportion of different types, 159B3:8
 - restored from core data, 135B19:311
 - rifting, 149B40:636–645
 - rotation, 160A9:310
 - sandstone, 159A5:101
 - SCREECH transect 2, 210A5:6; 210B1:7
 - seabed morphology, 163X_A8:4
 - seamounts, 160B51:688–689
 - sedimentary cover, 161B44:562–565
 - sedimentary wedges, 170B3:6
 - sediments, 183A8:5; 190A7:7
 - seismic data, 117A5:58; 144B33:574; 161A6:248, 250;
 162A8:284; 164B26:257–258; 165A6:295;
 175B(synthesis):57–58; 199A4:5–7; 207A3:4;
 210A1:26
 - shear zones, 176A1:4–5
 - Site 688, 112A20:930
 - Site 698, 114A5:117; 12:800
 - Site 699, 114A6:153, 193–194; 12:800; 114B35:662
 - Site 700, 114A7:289, 304; 12:800; 114B35:662
 - Site 784, 125A12:286–287
 - Site 786, 125B14:273
 - Site 833, 134A13:508–509
 - spreadsheets, 176A1:39
 - stereographic projections, 131A6:141–147;
 141A10:391–392; 160A8:244; 9:310; 173A6:146;
 176A3:197; 190/196B1:18; 209A3:135

- strain, 131B8:105; 160B40:521
- stratigraphy, 145B29:437–452
- strike rose diagrams, 135B20:323
- structural data, 159A6:186–187; 7:239–240; 8:278–279; 160A13:458; 169A3:107–112; 170A7:223–227; 173A4:98–102; 180A5:20–23; 8:21; 10:12–14; 190A6:10
- Sulawesi, 124A3:40
- Sulu Sea, 124A5:87; 11:221–222, 277; 124B8:108, 116
- tectonics, 134A9:206–211; 160B52:704; 169A6:256–257; 179B(synthesis):5–7
- triple junctions, 139A2:11
- unconformities, 159B2:17
- underthrust section, 170A4:114–115; 170B3:8, 11–12
- volcaniclastic sandstone, 129B7:173
- vs. depth, 131B8:111; 134A12:454; 160A8:244; 171A_A6:78; 186A4:168; 186B16:15, 19; 205A5:64
- well-logging, 161B24:328–329; 171A_A4:45–46; 196A1:12–13; 3:22–23
- See also* fractures/faults ratio; grabens; horsts; micro-faults; overthrusting; pseudofaults; pseudotachylite; shear zones; slickensides; thrust sheets; underthrusting
- faults, active, image analysis, 148B29:379, 384
- faults, anastomosing, photograph, 159A5:99
- faults, antithetic
 - photograph, 190A4:51
 - structure, 190A4:10, 51
- faults, backthrust
 - Site 861, 141A8:290
 - See also* detachment faults
- faults, bifurcating healed normal, photograph, 190A5:55
- faults, block
 - basement tectonics, 149B38:607–611
 - breccia, 149B36:585
 - continental margins, 166A1:6
 - deposition, 173B7:16
 - emplacement, 192A1:4–6
 - hiatuses, 160B40:524
 - Miocene, 134A1:9
 - ocean–continent transition, 149B47:724
 - seismic reflectors, 165A5:234
 - structure, 163X_A1:6–8; 6:4–5
 - tectonostratigraphy, 149B39:625–627
- faults, border
 - across transfer zones, 126B38:566
 - basement, 168A4:51
 - Izu-Bonin-Mariana arc, 126B42:634
 - Sumisu Rift, 126B38:568–570; 42:642
 - zigzag pattern, 126B38:564
- faults, brittle
 - semibrittle shear zones, 209A6:24–25
 - structures, 180A12:29
- faults, burial
 - gas hydrates, 164A4:49–51
 - structure, 190/196B9:7
- faults, cataclastic, vs. depth, 176A3:199
- faults, compressional, structure, 161B26:348, 352
- faults, conjugate
 - deformation, 159B3:25
 - photograph, 141A9:329; 171B_A4:114; 210A3:258
 - tectonics, 179B(synthesis):6
- faults, core-scale healed
 - domains, 190A5:12
 - stereographic projections, 190A5:56
- faults, detachment
 - Atlantis II Fracture Zone, 118B21:393–394; 26:441, 511
 - deposition, 173B7:16
 - fluid circulation, 176B9:21–22
 - lithology, 210B9:7–8
 - lithosphere, 161B27:371
 - mantle, 173A1:17
 - massifs, 179A4:56
 - ocean–continent transition, 149B47:725–729
 - Peru margin, 112A7:116
 - photograph, 141A9:333
 - schematic models, 179A4:150
 - Site 861, 141A8:290
 - structural data, 176A1:7; 176B(narrative):9–12; 180B24:1–43
 - tectonics, 179B(synthesis):6–7; 180A1:13–14
 - terrains, 161B44:557
 - unroofing, 179A4:7
 - See also* faults, backthrust
- faults, dip-slip, photograph, 180A5:68
- faults, discrete, vs. depth, 171A_A6:88
- faults, extensional
 - arrays, 180A6:141
 - brittle deformation, 180A6:146
 - debris flows, 160B37:476
 - Lima Basin C, 112B2:27
 - moats, 160B38:500–501; 51:694
 - seamounts, 160B51:692
 - sedimentation, 135A(1)9:417–418
 - Site 685, 112B2:27
 - Site 688, 112A20:929
 - structure, 161B26:348, 350
- faults, fan, photograph, 160A9:309
- faults, frontal thrust
 - geometry, 146B(1)23:359–366
 - microstructures, 146B(1)13:217–232
 - negative polarity, 190/196B15:1–16
 - porosity, 146B(1)20:333–334
 - sediments, 146B(1)28:414–416
 - seismic data, 146A(1)6:283; 146B(1)21:337–358
- faults, healed
 - photograph, 190A8:38
 - scanning, 156B11:155–156
- faults, high-angle
 - core photograph, 131A6:144
 - photograph, 160A5:109; 190A4:51
- faults, incipient thrust, sediments, 190/196B7:8
- faults, leaky transform, fluid flow, 141B3:46
- faults, listric
 - active mounds, 158A2:19–20
 - Armorican margin, 103B41:745
 - Atlantis Bank, 118B24:428
 - Galicia Bank SW, 103A5:85, 88
 - Galicia margin W, 103A1:3; 11:534–535; 103B41:744–745, 750

- high-angle structures, 118B4:77
 Jurassic-Cretaceous interval, 103A5:84
 lithology, 173A4:86
 photograph, 141A10:388; 159B3:31
 seawater conduits, 118B9:206
 seismic section, 171A_B3:23
 faults, low-angle normal, subsidence, 180A1:5, 8
 faults, mesoscopic, volcanic sediments, 134A7:115
 faults, normal
 acoustic basement, 165A4:133
 advanced piston corer, 160A16:507-511
 basement, 128A3:91-93
 claystone, 159A8:279; 159B1:6-7
 cobblestone topography, 160A5:88
 compression, 149B41:654, 656
 cores, 141A7:185, 193
 crustal thinning, 180B(synthesis):18-19
 décollement structures, 159B3:25-26
 deformation, 160A5:105; 7:180, 182; 8:238-242;
 9:304, 307, 310; 186A1:15-16; 210A3:71-73
 deposition, 189A1:8; 204A5:5
 diagrams, 159A9:305
 dip, 180A5:73; 6:140
 dolomite, 201B13:8-9
 domains, 141A9:322-324
 domino model of offsets, 141A9:333
 extension, 131B8:106; 159B2:17; 193A1:33; 193B1:5
 flexured margin, 180A1:23-24; 3:1-20
 fractures, 127A5:188
 frequency, 186A5:38-39
 geology, 209A1:78-79
 geometry and mechanisms, 141A9:325
 heat flow, 139A2:23, 33
 hydrothermal circulation, 169A1:9-10
 instantaneous slip, 121A1:11
 Kita-Yamato Trough, 127A7:334
 lithology, 168A5:110-111; 173A4:86; 199A12:10-12;
 201A11:9, 12; 210A3:21-25
 microfolds, 159A6:188
 Miocene, 161A1:11
 movement, 159B1:7-8
 Nasca plate, 112A4:73; 8:125
 Oki Ridge, 128A4:130
 Oki Trough, 128A4:130
 origin and frequency, 160B49:645-661
 paleoenvironment, 160B38:500
 paleotransform wall scarp, 118B21:376
 Peru margin, 112A1:21
 photograph, 134A8:163; 9:218; 10:289; 141A7:192;
 9:328-329, 332-333; 156A7:221; 159A5:100,
 102; 6:207; 7:241; 9:304; 159B1:7; 2:21-22;
 3:31; 10:99; 160A5:109; 6:137; 8:247-248;
 9:308-309; 10:361; 160B49:648-649; 161A4:84;
 7:322; 8:380; 169A3:81; 170A3:55; 173A6:149;
 180A10:27; 184A9:58; 185A4:72-73;
 186A4:165-166; 5:88; 201A11:44; 205A4:123;
 209A3:95, 117
 Pliocene-Quaternary interval, 160A6:127
 projection, 159A5:100-101; 160A4:75; 6:137; 10:360;
 190A6:38
 Quaternary, 180B(synthesis):13
 ridge-transform intersection, 118B24:428
 rifting, 180A1:8-9; 210B1:12
 scarps, 139A7:434-435
 sediments, 159A5:98-100; 161A7:316; 190/196B7:7;
 205A4:35-36
 seismic data, 117A16:516; 139B1:7-8; 161B44:563;
 163X_A4:2-4; 165A5:234; 204B2:27
 shear zones, 134B23:421
 Site 685, 112A17:609, 611; 112B2:21
 Site 688, 112A20:886, 890-891; 112B6:90
 Site 734, 118A5:79
 Site 795, 127A5:188
 Site 798, 127/128B(2)75:1181-1182; 128A4:145
 Site 799, 127/128B(2)75:1182-1183, 1189, 1190;
 128A5:263, 267-272, 294-295
 soft sediments, 161A4:80-81
 stages, 159B11:104-105
 stress field, 127/128B(2)75:1182-1183; 137/
 140B21:251; 180A1:10-11
 structural data, 159A7:240; 159B1:6; 160A4:63-64;
 10:359; 14:481; 161B26:352; 180A12:29;
 180B(synthesis):3-4
 tectonics, 134A9:208-209; 159A8:279; 159B9:87-90;
 160A4:58; 10:361-362; 179B(synthesis):6;
 180A1:12-16
 transects, 112A9:133
 transform faults, 159A9:302
 transform wall, 118B21:396
 transverse ridge evolution, 118B21:392, 395
 Upper Cretaceous, 159B2:14
 veins, 127/128B(2)75:1178
 vertical to overturned structures, 112A17:614
 volcaniclastics, 135A(1)11:598-601
 well-logging, 171A_A3:29-31; 5:63; 6:85
 Yamato Basin, 128A4:130
 Yamato Rise, 127A4:82-83; 128A3:76
 Yaquina Basin, 112A8:129; 15:471
 faults, normal extension, tectonics, 194A1:4-5
 faults, oblique, flexured margin, 180A1:23-24
 faults, oblique-slip
 movement, 159B1:7-8
 photograph, 161A6:242
 faults, polyphase extensional
 photograph, 180A12:100
 subdomain II, 180A12:100
 faults, prism, stereographic projections, 190A5:53
 faults, reverse
 association with asymmetric microfold, 159B2:23
 clays, 135A(1)11:601-602
 cobblestone topography, 160A5:88
 compression, 159B1:6-7
 décollement structures, 159B3:25-26
 deformation, 160A5:105; 8:238
 fault planes, 159A8:279
 folds, 159A8:279
 Formation MicroScanner imagery, 180B24:5-6, 31-32
 geology, 160B54:738
 microfolds, 159A6:188
 Miocene, 149B41:654
 movement, 159B1:7-8
 orientation, 134B24:437-439; 205A4:124, 128

- photograph, 135A(1)11:606; 149A4:57; 6:157; 159A5:99; 8:280; 9:304; 159B2:22–23; 160A10:362; 13:460; 161A4:66, 86; 5:145; 8:372; 176A1:66; 205A4:123; 210A3:138, 262
 - projection, 160A13:459; 205A5:66
 - sediments, 159A8:279; 161A5:141; 7:316
 - seismic profiles, 161B25:338
 - stages, 159B11:104–105
 - structural data, 160A10:359, 361; 14:481, 483; 161B26:352; 180A6:40
 - unconformities, 149B41:657
 - See also* pseudofaults; redeposition; reworking
- faults, ridge-parallel, tectonics, 179B(synthesis):6
- faults, rift, lithology, 193A1:4
- faults, sedimentary, ash/tuff layer, 131A6:96
- faults, shallow, gas hydrates, 164A4:51
- faults, shallow-angle normal, 180B(synthesis):16–18
- faults, shear, photograph, 159A9:304
- faults, sigmoidal normal, photograph, 180A10:48
- faults, slickenlined, inversion, 131B8:103–122
- faults, slump
 - lithology, 173A4:85
 - seismic profiling, 117A9:228
 - uplift history, 117A9:242
- faults, small
 - core-scale structures, 131B29:369–370
 - dewatering, 131B7:87
 - occurrence, 131A6:112
- faults, soft-sediment, sediments, 210A3:29
- faults, steep conjugate, photograph, 180A8:75
- faults, strike-slip
 - basalts, 163B4:37–38
 - décollement structures, 159B3:30
 - deformation, 160A5:105; 204B3:4–5
 - emplacement, 160B54:736
 - evolution, 161B44:573–574
 - flexured margin, 180A1:23–24; 3:7
 - frequency, 186A5:38–39
 - mineral lineation, 159A6:187
 - motion, 159B1:5–8
 - orientation, 134B24:437–439
 - post-Miocene, 161B44:569–570
 - rifting, 189A1:6–7; 189B1:20
 - stress, 159B21:220–221
 - tectonics, 161B26:347–354
 - transform faults, 159A1:7
 - unconformities, 189A1:26
- faults, subparallel, photograph, 171B_A4:114
- faults, syndepositional, lithology, 210A3:35
- faults, synsedimentary
 - laminated siltstone, 159A7:242
 - photograph, 173A7:172
 - rheology, 159B2:17
 - sediments, 159A7:241; 159B2:16
 - Vanuatu, 134A10:281, 290
- faults, tilted conjugate normal, 134A12:430; 13:514
- faults, thrust
 - accretion, 134B10:179–245; 146A(1)8:384–387
 - alteration, 110B7:107–109
 - backarc, 134B30:531–547; 31:562
 - Barbados Ridge, 110A4:73–77; 6:318–319, 322, 348–349, 352; 7:393–402, 437, 439; 8:491–492; 9:514–516; 110B3:17–18, 21, 25, 27; 12:180; 13:193, 196; 14:212; 15:235, 237
 - Cenozoic, 134A9:194
 - deformation, 131B21:261–273; 190/196B1:3
 - densification, 146B(1)23:365
 - dip, 134A9:236
 - effective stress, 146B(1)22:349–358
 - emplacement, 160B54:736, 759–760
 - evidence, 134B10:224–231
 - fault zones, 146B(1)18:291–297
 - fluid flow, 127A6:247, 295, 301; 134A9:204; 146A(1)11:424; 171A_A4:51–52; 5:67; 6:89
 - fluid venting distribution, 204B3:5–6
 - Formation MicroScanner imagery, 134B34:593–597
 - frictional heating, 127A6:247, 301
 - gas hydrate stability zone, 204B2:12–13
 - geochemical gradient, 156A7:235
 - geology, 190A1:5–8
 - geometry, 141A7:191, 193; 146B(1)23:360–361
 - hydraulic conductivity, 146B(1)17:281–289
 - in sequence, 146B(1)23:365
 - Japan Basin E, 127A6:255
 - Japan Sea, 127A1:9; 4:81–82
 - lithology, 131A2:17; 170A6:197–198; 190A9:6–9
 - magnetic anisotropy, 146A(1)6:262–263
 - Miocene, 160B51:690
 - out-of-sequence, 146B(1)13:217–232
 - pore water, 131B13:168, 171; 31:388–391
 - porosity, 146B(1)20:333–334
 - seafloors, 134A4:47
 - sedimentation, 134A7:127
 - sediments, 134B5:82, 85; 190A7:8
 - seismic data, 110A4:118–119; 131B29:368; 171A_B3:23
 - seismic Horizon Y, 204A6:7
 - Site 794, 127/128B(2)75:1182–1183
 - slickensides, 127/128B(2)75:1185, 1190; 128A3:92
 - slumps, 127/128B(2)75:1176
 - stack domain, 141A7:185, 191
 - stratigraphy, 196A1:4
 - stress field analysis, 127/128B(2)67:1052
 - summary diagram, 110A4:126–127
 - system, 124A5:87
 - tectonics, 160A4:56
 - terrains, 161B44:557
 - terranes, 146A(1)1:5
 - three-dimensional perspective, 190/196B15:13
 - Tiburon Rise N, 110A1:8–11; 110B12:180; 14:211–212
 - vs. void ratio, 146B(1)16:279
 - well-logging, 171A_A4:45; 5:63; 6:85
 - Yamato Basin N, 128A3:75–76
 - See also* microthrusts; underthrust section
- faults, transcurrent, extension tectonics, 159B10:96–97
- faults, transform
 - active ridges, 135B2:9
 - evolution, 180A3:6–7
 - fracture zones, 177A1:5–6
 - friction, 159B6:51–52
 - gabbros, 179B2:3–4

- geodynamics, 159B11:101
 geology, 159A1:5–16; 9:297–299
 Indian and Madagascar plates, 120B(2)50:921
 Kerguelen Plateau, 120B(2)47:892
 late Eocene, 181A1:3–4
 Ninetyeast Ridge, 121A10:260–261
 offsets, 142A2:31, 34
 rift valleys, 179A4:6–8
 serpentinite breccia, 149B35:574
 Southeast Indian Ridge, 120B(2)51:934
 structure, 176B(narrative):9–11
 tectonics, 149B36:584–585; 159A1:6–12; 3:51–52;
 9:297–309; 176A1:6–8; 179B(synthesis):5
 terranes, 189A1:9
 Turonian, 159B5:46–47
 volcanism, 193A1:4–5
See also transform tectonic zones; transform walls
- faults, vein
 equal-area stereonet, 148B18:268
 structure, 148B18:265–266
- faults, west-dipping detachment, 149B38:608–614
- faunal affinities, foraminifers, 183B2:9
- faunal assemblages
 Cenozoic, 143B4:80–81
 Cretaceous, 129B13:248
 foraminifers, 129B13:259–260; 143B32:538–544;
 145B18:269–270; 188A3:25; 188B4:8–10, 14–20
 nannofossils, 188B11:6–7
 paleobiogeography, 144B50:887–893
 shallow-water, 129B6:160
 sources, 188B4:9–10
- faunal provinces. *See* transitional faunal provinces
- faunal units, preservation, 162B1:13–14
- Fe-Ti oxides. *See* iron-titanium oxides
- Fe³⁺/Fe total
 in volcanic rocks, 183B17:2
 vs. depth, 183B17:2, 7
- Fe8, vs. Na8, 187B1:37
- fecal pellets
 abundance in carbonates, 144B6:131; 9:179, 183, 185
 biogenic sediments, 201B14:8
 cyclostratigraphy, 207B2:13
 lithology, 171B_A5:186; 207A5:8–9; 210A3:22–25
 Lower Cretaceous, 143B32:537–564
 microfabrics, 185B9:8
 micrograph, 178B18:13–14
 peloids, 203A3:8
 Peru margin, 112B4:54
 photograph, 157A4:66; 161A8:362; 171B_A5:188;
 207A7:47; 207B2:29, 31; 210A3:232
 photomicrograph, 207A5:50; 210A3:171, 233
 Prydz Bay, 119B35:670–671
 sedimentation, 205A5:15
 seismic reflectors, 175A16:500
- Federation of Digital Seismic Networks
 experiments, 179A5:17
 history, 136A1:4
See also Global Digital Seismic Network
- feed cylinders, systems, 124E_A2:32
- feeder pipes, lower oceanic crust, 176B(synthesis):20–22
- feeder zones
 hydrothermal circulation, 169A3:73–78
 massive sulfides, 169A3:73–78; 6:270–271; 169B9:4–5;
 10:7, 10–11, 36
- feldspar crystals
 basement units, 183A6:23
 composition, 157B14:204; 27:455
 vs. depth in ash fall layers, 157B14:212
- feldspar grains
 photomicrograph, 160B45:591; 180A9:90, 92; 10:23;
 12:62, 68
 volcanoclastic sand, 180B7:5
 vs. depth, 180B7:31–33, 39–42
- feldspar laths
 lithology, 180A10:7
 photomicrograph, 185A1:57–58; 3:90
- feldspar microcrysts. *See* microcrysts, feldspar
- feldspar needles, photomicrograph, 193A3:113
- feldspar overgrowths, photomicrograph, 183A5:108
- feldspar porphyry. *See* porphyry, feldspar
- feldspars
 albitization, 127/128B(1)7:107; 9:136–137
 along-axis measurements, 165B5:104
 alteration, 119B19:391; 124B36:493; 139A7:498–510;
 139B10:155–201; 11:214
 anorthite content, 115B3:31
 argon isotopes, 129B20:400; 130B1:6–7; 165B20:306
 ash fall layers, 157B14:203–204
 Baffin Bay, 105A4:77–79
 basalts, 195B8:14
 basement, 161A6:215; 183A7:14, 18, 25–35; 9:18, 21
 Bengal Fan, 116B6:62
 bulk mineralogy, 162B17:241
 calcic core zonation, 129B17:325
 calcite replacement, 103B39:707
 calcium depletion, 117B30:508
 carbonate veins, 156B5:84–85
 chemical and nuclear parameters, 178A5:137
 chemical composition, 120B(1)10:140; 124B35:482,
 494–495; 127/128B(1)7:106; 9:136, 139;
 149B26:453–454, 459–460; 157B15:233; 18:316,
 318–319
 clastic mineral phases, 157B15:231–232
 clay, 180B17:6
 composition, 143B15:248
 crystals, 139B10:169; 157B14:206–210; 165B5:102–
 109, 112
 cumulative percentage, 165B5:105–109
 dating, 113A7:300; 8:335–336; 10:532
 deep-sea sediments, 185B7:4–5
 diabases, 180A7:14
 diagenesis, 133A(1)15:638–639; 178A8:14
 diamict, 178A6:4–5, 14–15
 electron microprobe, 113B1:7; 176B1:23–24; 9:39–42
 fluvial reworking, 119B6:115
 fractionation, 183A7:41–42
 gabbros, 176B10:32
 Galicia margin W, 103A9:236; 103B5:55–56; 30:505–
 507
 geochemistry, 115B3:39; 169B6:5–6, 14, 17
 hemipelagite, 161B8:104

ice-rafted debris, 120B(1)14:218
igneous rocks, 143B15:246–247, 251
impacts, 178B9:4
inclusions, 121B30:571
Labrador Sea, 105A5:435; 105B6:76, 80; 38:770;
43:816, 818
light vs. dark sediment layers, 117B8:189
lithology, 104A4:75; 149A4:47; 159A6:168–170;
162A9:296, 298; 163X_A6:9; 164A5:75, 78;
6:110–111; 9:285; 165A6:308; 167A(1)6:132–
135; 7:161; 10:245–247; 11:288–291;
167B25:282–284; 169S_A2:21; 170A3:53; 5:161;
7:219–221; 171B_A4:113–118; 6:258; 173A4:75;
174A_A3:55; 4:113–115; 5:162–163;
174AXS_A5:17; 175A6:152; 7:179; 8:205; 9:233;
11:315–317; 12:351–352; 177A4:7; 8:7–8;
178A4:9, 23; 180A6:21–22; 12:5, 8–11, 16–17,
20, 22; 180B6:5–6, 10–12; 182A4:10; 8:8–9;
183A3:6; 5:6–8, 13–27; 8:3–5; 185A4:12;
186A4:19–22; 5:12–13; 190A4:6–9; 5:7–8;
191A4:13; 195A4:14; 198A10:5; 201A8:9; 10:11–
12; 11:8–10; 202A3:6–9; 5:5–8; 6:6–9; 11:7–10;
13:6–9; 204A3:4–8; 4:5–11; 6:3–8; 7:5–6; 10:8–9;
11:5–7; 205A6:8–9; 210A3:37
Little Bahama Bank, 101B24:364–365
major elements, 135B3:36
mass accumulation rates, 127/128B(1)24:411–420
matrix, 160B46:599
median size vs. tephra layers, 165B5:104, 107–108
metasandstone, 133B37:536
mineralogy, 118B9:198–201; 129B17:308–311;
144B33:507, 516, 520–524; 176A3:19; 180B8:10
Ninetyeast Ridge, 121B30:568–569
northern vs. southern Kerguelen Plateau, 119B11:217
Norwegian Sea, 104A4:70, 94; 5:461–464; 6:621, 625;
104B3:47–49
occurrence, 102B10:143
origin, 119A14:514
oscillatory zoning, 180A7:48
Owen Ridge, 117B8:187
Pacific Ocean W, 124B31:412, 414; 35:469
petrography, 119B3:50; 161B3:39–46
photograph, 157A5:118; 206A3:244; 207A5:49
photomicrograph, 157B13:199; 16:289; 159A6:171;
160B45:592; 161A6:246; 180A1:62; 5:50–52, 63;
6:98–99; 7:31; 8:56–57; 10:24–26, 33–34;
180B7:55–58; 193A4:109; 206A3:245;
210A3:181, 206; 210B2:21
Pigafetta Basin, 129B5:140; 6:156, 158
Pliocene–Pleistocene interval, 188B13:8
primary and secondary minerals, 119B16:302–303
pyroclastic sequences, 124B13:184
quartz correlation, 119B11:217
quartzose sand, 190/196B3:7–8
replacement, 206B7:12
sand, 157B17:303; 168B5:54–56; 190/196B3:5
sandstone, 127/128B(1)7:105–107; 146B(1)29:425–
426
Sardinian margin, 107B11:159–160; 16:237, 239
scanning electron microscopy, 161B7:95
secondary minerals, 137/140B14:160; 206B8:3, 12–15

sedimentation, 161B2:29
sedimenticlastic sandstone, 190/196B3:8–9
sediments, 139A6:208–209; 139B8:115–116;
146A(1)5:153–154; 6:249, 253; 149B40:748–
749; 150X_B4:50; 172B5:4; 201A1:34; 204B11:8,
17–19
sericitization, 180A11:5
siliciclastics, 189B11:3–6
siltstone, 173A9:270
Site 698, 114A5:107
Site 699, 114A6:158; 114B37:689
Site 700, 114A7:261
Site 701, 114A8:371–372
Site 738, 119B11:216
Site 740, 119B3:46
Site 744, 119B11:216
Site 745, 119A14:510; 119B121:237
Site 748, 120A7:173–174; 120B(1)9:126
Site 798, 127/128B(1)24:411–417
smear slides, 188A4:15
sources, 116B6:63
strontium, 118B4:84–85
sulfides, 176B7:6
Sulu Sea, 124A11:263–264
tektites, 150B13:246–247
tephra layers, 121B14:284
ternary diagrams, 144B29:511; 30:521
turbidites, 108B19:338; 190/196B3:4
twinning characteristics, 127/128B(1)7:107
veins, 156A7:225; 176B9:8–9
volcanics, 120B(1)10:146–147; 127/128B(2)87:1379,
1388, 1392; 131A6:173–184; 131B14:176–177;
134B19:380–381; 156B28:344–348; 201B19:8–
10
volcaniclastics, 157B13:187
vs. age, 161B8:102–103; 178B15:11; 189B11:9–12
vs. depth, 113A8:335–336; 9:460; 11:616; 113B6:75;
146A(1)4:70; 150A6:74; 7:144, 146; 8:214;
9:267; 161A6:200; 7:306; 8:360; 9:399;
161B7:90–92; 164A5:74; 167B25:284;
169B6:14–17; 186A4:83; 5:53; 197A4:39; 5:36
X-ray diffraction data, 113B3:31; 6:79; 156A6:116;
164A6:112; 174A_A3:59; 4:116; 5:163;
175A10:281–282; 178A8:15; 185A4:66, 71;
185B9:20; 186A4:88
zeolite replacement, 113B1:10
See also albite; albitization; alkali feldspars; anorthite;
anorthite/(anorthite + albite) ratio; anortho-
clase; argon-argon age; augite/plagioclase ratio;
basalts; bytownite; clay/(quartz + feldspar) ratio;
kaolinite/feldspar ratio; microcline; microcline/
(microcline + quartz) ratio; myrmekite; oligo-
clase; orthoclase; phyllosilicates/feldspar ratio;
plagioclase; potassium feldspar; quartz-feldspar-
lithic fragments (QFR) diagram; quartz/feldspar
ratio; quartz-microcline; quartz-plagioclase;
sand; sanidine
feldspars, detrital, photomicrograph, 173A8:249
feldspars, euhedral
age, 116B8:94, 100–108, 113–114
Ninetyeast Ridge, 121B30:567; 32:625, 656–657

- occurrence, 103A10:424–425
- feldspars, parental feldspar (FS) array, 118B4:84–85
- feldspars, perthitic, lithology, 180A9:20
- feldspars, plumose, volcanoclastic sand, 180B7:7
- feldspars, sericitized, photomicrograph, 210A3:182
- feldspars, shocked, petrography, 150X_B3:35
- feldspars, sodic
- albitization, 127/128B(1)9:137
 - augite association, 127/128B(2)52:851–853, 858
 - basement alteration, 127/128B(2)79:1266
 - geochemical logs, 127/128B(2)88:1395; 89:1415
 - Japan Sea, 127/128B(2)78:1237
 - moderate-temperature minerals, 176A3:36
 - occurrence, 127/128B(2)87:1379
 - parent magma, 127/128B(2)52:856
 - Site 794, 127A4:107
 - Site 795, 127A5:205
 - Site 796, 127A6:278–279
 - Site 797, 127A7:364, 374
 - Site 798, 127/128B(2)86:1370–1371
 - Site 799, 127/128B(1)42:723
 - sources, 127/128B(1)9:137
 - volcanic ash, 127/128B(2)87:1384
 - vs. potassium, 127/128B(1)42:732; 52:858
- feldspars, total
- vs. depth, 168A4:61; 5:112; 6:170
 - vs. total phyllosilicates, 168A4:60; 5:111
- feldspars/clay ratio, mass accumulation rates, 108B15:246–249, 254–255
- feldspars/total phases ratio, vs. depth, 141A6:84
- feldspathic sandstone. *See* sandstone, feldspathic
- feldspathoids
- basalts, 144B29:497
 - See also* nepheline; nosean
- felsic fragments
- microcrystalline significance, 157B14:213
 - photograph, 209A7:49–50
 - sandstone, 180B7:8–12
 - tephra fall deposits, 183B9:7–8
 - volcanoclastic sand, 180B7:6–7
- felsic magmas. *See* magmas, felsic
- felsic rocks
- alteration, 135B40:653–663; 183A7:42–43
 - chemical composition, 176A1:70
 - formation, 157B15:260–263
 - geochronology, 157B11:129
 - lithology, 157A4:66; 157B16:268; 179A2:4–6; 183A7:8, 36
 - major elements, 183A5:186; 6:47–48
 - mixing with gabbros, 118A6:119
 - petrography, 118A6:117, 119
 - petrology, 176A1:13–14
 - trace elements, 183A6:47–48; 7:136
 - See also* veins
- felsic shards, lithology, 183A5:13
- fenestrae
- lithology, 194A7:11
 - photograph, 194A7:61, 63
 - subaerial weathering, 144A5:164
- fern-7-enes, sediments, 167B12:188
- fernenes
- alteration, 139B24:457
 - biomarkers, 149B13:298–299
 - sediments, 141B9:127–130; 22:291–294; 175B5:5
 - Site 658, 108B20:352
- ferns
- axes, 183A6:22
 - kerogen, 183B3:5–6
 - photomicrograph, 183B3:31
 - phytoliths, 188B5:4–6
 - Site 750, 120B(1)17:257
 - spores, 120B(1)19:286; 183B3:7–8
 - vs. age, 167B20:242–243
 - vs. depth, 167B17:220–222
 - See also* alder/ferns ratio; Osmundaceae
- ferrichromite
- photomicrograph, 176A3:130
 - rim backscattered electron image, 147B9:186
- ferrihydrite, alteration, 197A5:15
- ferrimagnetic minerals
- low-field magnetic susceptibility, 147B23:396
 - magnetic properties, 161A6:213; 173B8:9; 175B13:4–5; 186B16:4
 - microfabrics, 185B9:6–7
 - sediments, 164B38:402–404
 - sources, 161B40:513
- ferrirutile, magnetic properties, 144B36:621
- ferrismectite, carbonates, 144B26:462
- ferrite. *See* magnesio-ferrite
- ferrivinichite, mineral chemistry, 129B17:313–314
- ferro-actinolite
- photomicrograph, 176B9:66
 - replacement silicates, 137/140B18:210–213
 - sediments, 146A(1)6:253
- ferro-andesites, crystallization and segregation, 118B4:93–94
- ferro-augite
- diabases, 180B3:6
 - gabbros, 180B3:7
- ferrobasalts
- absence, 118B26:509
 - grain size, 168A4:67
 - intrusions, 118B4:103
 - isotopes, 121A15:526
 - lithology, 168A4:59–70
 - lower oceanic crust, 176B(synthesis):18–22
 - mineral chemistry, 200B3:1–36
 - Ninetyeast Ridge, 121B28:526
 - petrography, 168B10:120–121; 200B3:3–6
 - photomicrograph, 168A4:67
 - plutons, 176B(synthesis):53
 - Site 797, 127/128B(2)53:861
- ferrobasalts, aphyric massive, lithology, 168A4:61–65
- ferrobasalts, oceanic, classification, 168A4:70
- ferrogabbros
- chemical composition, 176B8:13–14; 12:3–5
 - differentiation, 176B10:16–21
 - ilmenite/magnetite ratio, 118A6:124
 - iron-titanium oxides and silicate phases, 118A6:126
 - magnesian gabbros, 118B1:5
 - petrology, 118B8:155

- static metamorphism, 118A3:53, 56
- titanophile elements, 176B12:13
- ferrogabbros, postrift, magmatism, 210B1:24
- ferromagnesian minerals
 - photograph, 180A9:69
 - photomicrograph, 180A6:98–99
 - mineral chemistry, 176B10:15
 - vs. plagioclase, 176B10:15
- ferromagnetism
 - hemipelagite, 161B9:111–116
 - magnetic susceptibility, 150B19:353; 184B1:2–3, 6
 - remanence, 203B1:6
- ferromanganese composition. *See* nodules, ferromanganese
- ferromanganese crusts
 - (copper + cobalt + nickel)-iron-manganese system, 194B8:17
 - deposition, 192A4:11
 - genesis, 194B8:6–7
 - lithology, 183A8:5–6
 - photograph, 192A4:42; 194B8:11, 19
- ferromanganese mineralization
 - photograph, 194A5:38
 - photomicrograph, 194A5:39
- ferrosilite
 - composition, 135B3:39
 - mineral chemistry, 176B10:36–37
 - quadrilateral plot, 179B(synthesis):86
 - See also* diopside-enstatite-ferrosilite-hedenbergite system
- ferrotholeiite, incompatible-elements, 121B31:592
- ferrous/ferric ratios, 183B17:2
- ferrous iron concentrations, 183B17:3
- ferroxhyte, alteration, 197A5:15
- ferroxhyte, manganese
 - ferromanganese crusts, 144B44:751, 758
 - hardgrounds, 144B22:421–423
 - photograph, 144B44:765
- fertility indexes
 - Aptian–Cenomanian interval, 129B9:193
 - nannofossils, 129B9:191, 198–200; 33:625–626; 144B7:148
- festucoid contaminants, phytoliths, 188B5:6
- fiamme, photograph, 157A10:511
- fiberoptic gyro, rotation, 197A3:45–46
- fibers
 - amphiboles, 148A2:66
 - photograph, 148A2:67; 161A6:241
 - scanning electron micrograph, 159B16:153, 156
- “fibril-like” features, photomicrograph, 192A4:97
- fibrolite
 - gneisses, 161B19:266–267, 272; 20:283–284
 - photomicrograph, 161A6:246–247; 161B19:276–279
 - pressure-temperature conditions, 161B44:566–567
 - schist, 161B19:265; 20:282–283
 - textures, 161A6:223
 - See also* sillimanite
- fibropalagonite
 - glass replacement, 148B11:155
 - See also* palagonite
- fibroradial texture. *See* textures, fibroradial
- fibrous calcite. *See* calcite, fibrous
- fibrous grains, photomicrograph, 160B37:472
- fibrous rims, isopachous
 - lithology, 194A7:6
 - photomicrograph, 194A7:53
- fibrous texture. *See* textures, fibrous
- field anomaly logs, vs. depth, 178B31:15
- field cooled curves, granulometry, 178B14:7
- filaments
 - interpillow material, 185A3:25
 - opaque, 167B25:278–280
- fills, lithology, 174AXS_A6:19
- filter pressing, volcanic rocks, 135B37:620–623
- filters. *See* low-pass filters
- fine fraction
 - carbonates, 198B13:1–17
 - grain size, 178B24:1–27
 - remanent magnetization, 201B17:4
 - sediments, 178B25:7
 - stable isotopes, 199B17:3–4, 11–12
 - vs. age, 178B24:18
 - vs. depth, 167B23:270
 - See also* coarse fraction; grain size; granulometry
- fine-grained sandstone. *See* sandstone, fine-grained
- fining-upward sequences
 - braided river systems, 119B3:47, 53
 - claystone, 119B3:46
 - mechanism, 119B3:52–53
 - relation to coarsening-upward sequences, 119B4:57
 - sandstone, 119B3:45, 48
 - siltstone, 119B3:46
- finite element analysis, permeability, 180B23:11–12
- firmgrounds
 - alteration, 166A3:34
 - biofacies, 174A_B(synthesis):7
 - carbonates, 194A5:19
 - lithology, 166A9:239–241; 10:297, 301; 171B_A5:180–181; 6:246, 250; 181A6:8; 182A1:34, 37; 4:8, 11; 5:7; 8:6–7; 10:7–8, 11; 11:3–6; 183A3:6
 - photograph, 166A6:84; 9:241; 10:301; 171B_A5:182; 182A10:41, 44–45; 194A3:29; 202A8:55
 - sediments, 166A8:192
 - well-logging, 166A10:324
 - See also* hardgrounds
- Firmicutes*, cultured isolates, 201B1:15; 2:8–9
- first derivative values
 - diffuse reflectance spectrophotometry, 188B7:7, 24–31
 - hematite in calcite, 188B7:24
- first lead paradox, peridotites, 209B1:16–18
- FISH-SIMS, bacteria, 201A7:23; 8:21; 9:17; 10:20; 11:22; 12:18
- fish debris
 - Aptian, 192A3:14
 - biostratigraphy, 207A4:15; 210A3:88
 - lithology, 159A6:166–168; 170A5:161; 6:195; 171B_A6:246, 258; 207A5:8–9; 6:9
 - Paleocene/Eocene Thermal Maximum, 198B8:6, 20–28

- photograph, 171B_A6:249; 185A4:86; 207A4:45; 5:53;
7:47; 207B2:29
 photomicrograph, 192A3:69; 207A5:50
 sediments, 160B19:230, 233, 236, 239; 175B1:3, 15,
21
See also mass accumulation rates; otoliths
 fish otoliths. *See* otoliths
 fish teeth
 biostratigraphy, 191A4:18; 210A3:88; 210B13:19
 lithology, 199A14:7
 Paleogene, 198B1:12
 photomicrograph, 198A3:70
 Site 756, 121B3:83
 “tartar removal,” 145B14:220–221, 228
 upper Paleocene, 198B9:2–3
 See also ichthyoliths
 fish vertebrae, photograph, 207A5:54
 Fisher distribution, magnetic inclination, 197A3:36
 Fisseler Water Sampler, pore water, 164A9:296
 fissility
 clays, 180A8:22
 lithology, 164A9:284; 190A9:9
 mudstone, 112A15:452
 organic content, 117B11:237
 photograph, 178A6:34; 201A11:46
 Pliocene–Pleistocene interval, 161A9:399, 401
 sedimentary wedges, 170A4:109–113; 170B3:4–6
 Site 682, 112A14:371, 375–376; 112B2:19, 25
 Site 685, 112A17:615; 112B2:19
 Site 688, 112A20:882, 888; 112B2:19, 25
 Site 798, 128A4:146
 Site 799, 128A5:272
 structural data, 170A5:162; 7:223–227; 180A5:22–23
 Yaquina Basin, 112A15:451; 112B2:19, 25
 fissility dip, sediments, 205A5:21
 fission-track data
 apatite, 129B7:169–176; 141B13:181–190; 159B4:35–
41; 11:105; 180B2:6, 34
 basement, 161B21:295–300
 kinetic model, 129B7:170
 length data, 129B7:173–174
 thermal history, 159B4:39–41; 5:43–48
 fissure eruptions, lithology, 193A1:4
 fissure fillings
 alteration, 192A3:31–32; 5:17; 192B6:5–6
 photograph, 192A5:41, 46
 photomicrograph, 129B4:135; 192A6:61
 structure, 192A5:18
 veins, 192A4:18
 fissure flows, seismic structure, 139B1:7–8
 fissures
 basalts, 191A4:33
 hydrothermal fields, 193A1:5–7
 lithology, 180A12:22; 202A4:6–8; 6:8–9; 210B9:11–13
 lower oceanic crust, 176B(synthesis):20–22
 photograph, 161A6:242–243
 photomicrograph, 191A4:108; 205A4:110; 206A3:271
 sandstone, 159A6:188
 sediments, 159B2:16
 structures, 180A6:41–43
 fissures, neptunian
 lithology, 210A4:4–6
 photograph, 210A4:23
 Fissurina sp., photomicrograph, 199A11:50
 fjords
 geology, 169S_A2:14
 oceanography, 169S_A2:15–16
 flaky accretions. *See* accretion, flaky
 flaky particles, bacterial habitation, 193A3:226
 flame structures
 lithology, 139A7:300; 180A12:12
 photograph, 135A(1)4:104; 11:593; 157A8:406;
180A10:37
 Site 799, 127/128B(2)75:1178; 128A5:268–269
 Flandrian transgression, sea level changes,
146B(2)12:179–180
 flank collapse, volcanoclastics, 157B12:163–165; 27:459–
460
 flaser bedding. *See* bedding, flaser
 flaser gabbro. *See* gabbros, flaser
 flaser structures
 chalk, 130A8:306
 lithology, 174AXS_A5:18
 stylolites, 130B26:445–446
 flaser texture. *See* textures, flaser
 flat-bedded domains, cores, 141A6:99
 flattening, sediments, 156B4:67–72
 Flavobacterium. *See* Cytophaga-Flavobacterium-Bacteroi-
des phylum
 flexural coupling, new ocean/old ocean boundary,
121B34:692
 flexures
 Celebes Sea, 124A10:124
 Izu-Bonin forearc, 125A10:199
 reefs, 134B3:48–50
 subsidence, 160B39:513
 Flinn-type diagrams
 Cascadia margin, 146A(1)6:262
 magnetic anisotropy, 146A(1)6:262
 photograph, 146A(1)5:174
 sediments, 146A(1)6:258–259
 Site 892, 146A(1)7:328–330
 floatstone
 Albian, 143A8:280
 carbonates, 144B16:322; 194A1:50–54
 deposition, 166A2:16
 Formation MicroScanner imagery, 160B38:493
 lithofacies, 133A(1)4:86; 144B14:282–283;
160B38:495
 lithology, 133A(1)5:146–149; 7:207; 13:513; 16:688,
692; 17:779; 144A9:292–295; 11:417–418;
159A6:168; 166A7:156; 10:297; 182A1:31, 39;
8:5–6; 9:4–8; 12:4–5; 194A4:7–8; 7:13; 8:6–9;
202A7:7–10
 microbioclastic matrix, 133B21:292–293, 297–298
 photograph, 194A4:47; 6:33
 photomicrograph, 159A6:171; 194B8:12
 remanent magnetization, 166B4:40
 See also grainstone-floatstone series; packstone-float-
stone series; rudstone-floatstone series

- floatstone, bioclastic
 Eocene, 133B5:73
 lithology, 133A(1)4:91, 93; 5:146–149; 9:307–309;
 134A11:328–330; 166A10:298; 11:350–352
 photograph, 133A(1)7:212; 166A7:158
 rhodoliths, 133B29:455–460
- floatstone, bryozoan
 lithology, 182A1:25–26, 33; 7:5–8, 11–12; 9:4–7; 10:4–6
 reef mounds, 182B13:1–29
- floatstone, bryozoan/mollusk, 133A(1)5:144–146
- floatstone, dolomitic
 lithology, 194A7:6–11, 15
 Miocene, 133B34:500
 photograph, 194A7:52, 54, 70, 72
- floatstone, echinoderm-rhodolitic, 194B5:11
- floatstone, foraminiferal dolomitized, 133A(1)8:260
- floatstone, *Lepidocyclina-Halimeda*-rhodolitic, 194B5:11
- floatstone, lithoclastic
 lithology, 166A11:352
 photograph, 166A11:351
- floatstone, mollusk
 lithology, 134A11:326–327, 332
 photograph, 134A11:329
- floatstone, nummulitids-*Amphistegina-Halimeda*-rhodolitic, 194B5:10–11
- floatstone, partially lithified lithoclastic, 166A11:355
- floatstone, porous, photomicrograph, 194A4:41
- floatstone, rhodolith-bearing, photograph, 133A(1)9:311
- floatstone, rudist, photograph, 144B16:333
- floatstone, skeletal
 lithology, 194A7:7–8, 13; 9:6
 photograph, 194A4:40; 5:42; 7:48, 57–58, 73; 8:40; 9:36
 photomicrograph, 194A7:59
- floatstone, skeletal oncolite, photograph, 144A11:423
- floatstone, unlithified, lithology, 166A11:350–352
- floatstone, unlithified lithoclastic, 166A11:350–355
- flocculation
 microfabrics, 185B9:9
 productivity, 175B18:10–12
- flood basalts
 alteration, 163B2:17–28
 arc magmatism, 141A3:24–25
 continental, 198A1:99
 volcanic history, 151A1:12–16
- flood basins, subaqueous, lithology, 174AXS_A4:22
- flood deposits
 organic matter, 146B(2)9:131
 sediments, 146B(2)7:89–90
 Site 740, 119B3:49–50, 53
- flooding surfaces
 lithofacies, 174AXS_A7:46, 48
 lithology, 174AXS_A3:24–25
 See also maximum flooding surfaces
- flooding surfaces, marine, Quaternary, 133B25:353–364
- flooding surfaces/parasequence boundary,
 174AXS_A3:21
- floodplain lakes, lithology, 174AXS_A4:25
- flora. *See* Mitoku-type flora; plant debris
- floral assemblages
 colonization, 120B(2)53:952
 paleobiogeography, 144B50:887–893
 See also plant debris
- floral assemblages, brackish water, 127/128B(1)15:249
- floral provinces, Cretaceous–Paleocene, 159B24:254–262
- flow banding
 alteration, 183A6:50; 7:42–43
 basement units, 183A6:23, 36; 7:37
 groundmass, 193B2:7
 lava flows, 163A5:54–55
 lithology, 180A12:9; 193A3:24, 31; 4:12, 19–20
 petrology, 193A5:5
 photograph, 183A7:77, 105; 193A1:48, 70; 3:107, 109, 143, 201; 4:72–75, 89–93, 118, 134–138, 181–185; 206A3:263
 photomicrograph, 183A5:109; 7:81–82; 193A3:148, 205–206; 4:82, 106–108, 119, 171; 5:9; 193B2:18; 206A3:264
- flow banding, folded, photograph, 193A3:200; 4:138
- flow banding, laminar, photograph, 193A3:116
- flow banding, relict, photograph, 193A3:125
- flow collapse, turbidites, 131B3:40–42
- flow deposits
 photograph, 131B26:328
 silty clay, 150B11:195–199
 thickness, 135A(1)8:354; 10:516
 volcaniclastics, 135A(1)7:304–305
- flow features
 salt brines, 159B15:149
 seamounts, 125A4:71
- flow laminations. *See* laminations, flow
- flow lineation. *See* lineation, flow
- flow margins, photograph, 183A6:120
- flow morphology, volcanic rocks, 163A5:56
- flow rates
 currents, 181A5:6–8
 permeability, 180B23:7–8
 vs. hydraulic gradient, 180B22:13–14
- flow reflection, turbidites, 131B3:40–42
- flow regime, seafloor, microbes, 201A1:13–14
- flow strength, Pigafetta Basin, 129B6:160
- flow structures
 gabbros, 147B17:317–325
 photograph, 150B11:214; 193A3:126
 photomicrograph, 206A3:185
 remanent magnetization, 147B23:397–403
 silty turbidites, 134B7:103
 structure, 147B32:516–529
- flow tests
 extended core barrel, 124E_A6:45–46
 pressure, 156B15:205–214
- flow thickness, vs. depth, 135A(1)4:134
- flow units, lithology, 143A7:223–224
- flow velocity vs. hydraulic conductivity, 156B7:112–113
- flowmeter experiments
 Costa Rica Rift, 137A2:50–51; 140A2:114
 permeability, 139B39:616–617
 Site 857, 139A7:370
 vs. depth and resistivity, 139B39:618–621
 well-logging, 139A7:533–535

flows, seismic velocity, 139B38:597–612

fluid advection

convergent margins, 205B1:20

See also advection

fluid budget, seamounts, 195A1:5–6

fluid channels

photograph, 169A3:72

sulfide mineralization, 169A3:71

fluid chemistry

bottom-simulating reflectors, 146B(1)10:175–187

Costa Rica Rift, 137/140B13:141–152

diagenesis, 144B46:790–791

fault zones, 146A(1)7:346

fluid discharge rates, 146B(1)28:419–420

pore water, 169B1:1–16

sediments, 146B(1)28:413–414

fluid circulation

breccia, 161B25:335–336; 180A12:101

carbonate platforms, 166A1:9; 2:20–22

cation exchange, 168B7:87–94

heat flow, 148B20:294–295; 168A2:30–31

heat sources, 159B6:51–52

high-temperature, 176B4:1–56

hydrothermal reactions, 176B9:21–22

mixing in boreholes, 148B9:111–118

photograph, 180A11:30; 12:102–103

pressurized system, 148B27:356–357

shear zones, 176A1:16

vs. temperature, 148B21:303

fluid composition, carbonate veins, 156B5:90–91

fluid conditions, zeolite-facies metamorphism,
120B(1)4:68

fluid discharges, fossil hydrothermal

geochemistry, 139B12:294–295

models, 139B11:247, 250–251

fluid-escape structures

Lima Basin S, 112A19:806

lithology, 189A3:12–13; 201A9:8–9; 10:9–10

Peru margin, 112B25:414

photograph, 144A10:354; 189A3:75; 190A4:53;
201A10:36

pipes, 180A12:6, 8

Salaverry Basin, 112A12:274

Site 685, 112A17:611

tektites, 150B13:249

X-ray diffraction data, 201A10:38

See also water-escape structures

fluid evolution

alteration, 137/140B16:195–197

anhydrite precipitation, 158B10:123–124

isotopes, 204B13:3–4

oxygen isotopes, 158B21:292–293

fluid expulsion

compaction, 131B31:387

gas hydrates, 146A(1)10:415

geochemistry, 146A(1)5:184

models, 146A(1)10:412

pore water, 131B13:165–174

sediments, 146B(1)27:409; 28:413–421; 192B4:2

thermal effect, 146A(1)10:411

thermal structure, 146B(1)19:304–306

See also fluid flow

fluid flow

accretion, 125A2:11–12; 131A1:12; 134A9:222–223;
141B1:3–12

advection, 166A11:373

alteration, 139B12:303–305; 169A3:87; 193A1:26;
200A3:27–29; 209A6:11–14

Alvin dives, 170A1:11

basement, 168A1:12–14; 5:137–138; 202A1:25

basins, 134B35:618

carbon-nitrogen tracers, 205B7:11–12

carbonates, 166A1:5–10; 3:40; 171B_B2:2–3;
194A1:55–57

chemical gradients, 190A1:8–9

clay minerals, 166A9:254

Conical Seamount, 125B26:438–439

continental margins, 166A1:5

convergent margins, 205A1:11–13

Costa Rica Rift, 137/140B27:313–319

crust, 168A1:9–10; 4:50–51

debris flows, 174A_B(synthesis):8

décollement zone, 156B22:288–289; 171A_A4:50–52

deformation, 141B2:19–21; 190/196B1:1–25

diagenesis, 156B1:25–27; 166B17:185–194;
168A6:176–177

diffusion, 205B6:10–11

evidence, 127A6:295; 131A6:135, 211; 133B31:478–
479; 139B25:475

faults, 135B20:315–316; 139A5:114–115;
146B(1)17:281–297; 209A7:9

gas hydrates, 164A1:7; 164B1:9; 22:219–228;
204A1:43–44

geochemical anomalies, 146A(1)7:374;
146B(1)25:375–384

geochemistry, 131B32:397–413; 134B8:123, 127–129;
139A7:471–479; 141B29:364–365; 156B25:317;
29:353–356; 158B6:88–89; 166A6:115; 9:267–
268; 10:330; 168A4:79–85; 186B14:8–13;
193B1:26–27; 205A6:17

geology, 190A1:5–9

geothermal gradient, 133B48:707, 711

greenschist facies, 173A6:144–145

heat flow, 127A6:301; 139A2:33, 36; 168A2:30–31;
171A_B3:7

hydrates, 146A(1)1:7–11

hydraulic properties, 141B32:403; 205B1:24–25

hydrogeologic regime, 141B20:275

hydrology, 205B6:1–26

hydrothermal deposits, 129B19:369; 158B10:124

incoming plate, 205A1:23–24; 4:9; 205B1:26–28

indicators, 196A1:4–5

isotope tracing, 146B(1)7:144–147

Izu-Bonin-Mariana forearc, 125A1:12

lithology, 193A3:25–26, 32; 4:32

logging-while-drilling, 171A_A1:5–10

mantle, 209A6:8

maturation, 139B28:504

mechanism, 131A7:282–284

metadiabase, 180A8:19–20

metamorphic reactions, 125B36:612

microcracks, 176B10:17

- microstructures, 146B(1)12:208; 190/196B7:2
models, 116B28:350–358; 160A9:320; 193B1:32–33
natural gamma ray spectra, 195B12:6–9
New Hebrides island arc, 134B35:611, 615
ODP Nankai observatory (ONDO), 131A6:199–201
overconsolidation, 170B3:9
oxygen isotopes, 166B8:91–98
permeability, 135B50:814–816; 139B39:616;
169B8:10–12; 180B23:7–8; 193B13:5–9;
207B15:13–14
physical properties, 139B44:708–714; 158B23:324,
326
pore water, 156B12:168–169; 29:353–356;
164A6:130–132; 166A8:192; 180B22:6
precipitation, 164B29:290–291
pressure, 116B28:356, 358; 139B41:660–664
prism wedges, 205B6:7–8, 11–13
rock magnetism, 141B5:74
scaly fabric, 156B4:73
sediment/basalt interface, 139B42:667–675
sediment dewatering, 116B28:353
sedimentation, 146B(1)2:43
sediments, 131B19:241–242; 134A9:205; 139B36:581–
582; 146A(1)6:267–273; 146B(1)26:392–394;
28:413–421; 149B20:372; 195A3:35–37;
201B1:24–26
shallow hydrates, 164B23:233–234
Site 748, 120A7:218
Site 799, 128A5:321
Site 1044, 171A_A3:33–35
Site 1045, 171A_A4:50–52
Site 1046, 171A_A5:66–68
Site 1047, 171A_A6:88–90
Site 1048, 171A_A7:101
Sites 812–814, 133A(1)7:217–218
sources, 193B1:29–35
spreading centers, 158A1:5–14
stable isotopes, 143B14:231–232
stress, 135B48:792, 794
strontium isotopes, 138B41:814–817; 171B_B2:3–4
structures, 131B7:83–101; 37:487–492; 169A3:111;
169B9:6–9; 170B3:1–32; 4:1–11
subduction flux, 205B1:1–54
summary, 196A1:1–29
tectonics, 141B29:365–368
temperature, 168B4:47
tests, 156B19:249–251
thermal anomalies, 166B10:116–117
thermal resistance, 156B18:243
thermal structure, 146B(1)19:304–306
thermophilic bacteria, 139B29:512–515
thrust faults, 127A6:247
thrust planes, 141A7:211
uranium loss, 166B3:27–29
veins, 137/140B20:240
vs. distance from vent, 139B14:327
vs. hydraulic gradient, 190/196B18:12–17
vs. sedimentation rates, 135B48:787–795
well-logging, 171A_A3:33–34; 5:66–67; 6:88–90;
7:101; 171A_B2:1–29
- See also* deformation; Kohout convection; Kuster-Tok-
söz model; permeability; porosity; Rayleigh
number
fluid flow, focused, accretion, 146A(1)11:423–424
fluid flow, long-distance, hydrothermal circulation,
168B1:3–5
fluid flow, upward, geochemical cycles, 205B6:10
fluid flow deposits, Pigafetta Basin, 129B6:155–156, 159–
160
fluid flux
alteration, 193A3:48–51
basalt alteration, 185A3:30–31
CORK-II, 205A2:1–36
subduction zones, 205A1:1–3
volcanic rocks, 161B27:370
fluid inclusions
anhydrite, 158B10:123
aragonite, 168B11:139, 145
carbonate platforms, 144B48:861–864
clathrate melting temperature, 118B9:204, 206
fluid evolution, 147B11:219
fluid flow, 193B1:33
fluid types, 118B9:208–209
gabbros, 118B9:200–206; 147A3:76–78; 147B11:218–
225
geochemistry, 148B3:26; 158B6:88–89
helium isotopes, 139B19:389–390
hydrothermal activity, 157B26:429–439
hydrothermal alteration, 169A3:39
laser Raman spectroscopy, 118B9:205–206
lithology, 118B9:208; 174A_A3:56; 187A7:5
magma chambers, 176B4:14
massive sulfides, 193B10:7
methane, 118B9:212
microthermometry, 135B40:658
oceanic crustal Layer 2, 137/140B16:191–198
olivines, 157B22:381
opaque hexagonal platelet daughter crystal,
118B9:206
paleofluids, 159B6:49–52
petrography, 139B21:411–428; 210B5:7–14
petrology, 147A4:136–137; 148A3:148
phenocrysts, 157B22:381
photograph, 139B21:426–428; 147A3:84;
147B11:220; 158B13:178; 14:182; 18:252
photomicrograph, 179A4:121; 185A3:106;
193A3:139, 218; 193B9:24; 209A7:69
plagioclase vs. diopside, 118B9:205
pressure vs. trapping temperature, 147B11:223
quartz, 146A(1)6:249, 253; 210B5:1–21
sheeted dikes, 148B7:87–95
temperature, 118B9:202–206; 139B11:230;
147B11:219, 221; 148B19:284; 158B13:163–190;
28:395; 193B1:24
trondhjemites, 118B9:204
veins, 118B9:202–205; 129B7:174; 147A1:11;
148B19:283–284; 173A6:147–148
See also microthermometry; temperature
fluid inclusions, daughter mineral-bearing, 137/
140B16:194; 147B11:218–219

- fluid inclusions, liquid-dominated
 gabbros, 147B11:218
 microthermometry, 137/140B16:193–194
- fluid inclusions, low-salinity
 gabbros, 147B11:218
 origin, 147B11:223–224
- fluid infiltration
 mafic rocks, 147B14:283–284
 microfabrics, 147B14:281
 petrography, 173A6:130–131
 seawater, 147B13:250–251
- fluid injection structures, photograph, 180A10:29
- fluid inventory
 rates of expulsion, 146B(1)28:416
 sediments, 146B(1)28:413–416
- fluid migration
 Chile Ridge, 141A1:6
 clay mineral transformation, 112B25:434
 climatic, eustatic, and tectonic influence, 112B7:107
 dehydration reactions, 112B25:434
 faults, 180B(synthesis):18
 geochemistry, 131B28:361–362; 141A6:114–118
 Peru margin, 112B25:433–434
 photograph, 150X_B3:47
 requirements, 112B25:437
 sediments, 180B(synthesis):14
 Site 859, 141A6:133–134
 stable isotopes, 141B25:313–329
 vertical tectonic movement, 125B19:359
- fluid-mineral equilibrium, geochemistry, 139B20:405–409
- fluid mixing
 anhydrite, 158B10:119–127; 14:187–189
 chlorite and smectite, 158B20:283
 oxygen isotopes, 158B11:137–138; 22:306–308
 brines, 161B33:427–429
- fluid-mobile elements, serpentine mud, 195B4:8, 32
- fluid movement, sediments, 189A5:46
- fluid precipitation, deformation bands, 141B2:19
- fluid pressure
 accretionary wedges, 146A(1)9:395
 décollement zone, 156B1:4; 5:76–77
 deformation, 131B9:129
 density, 171A_B3:8–10
 differential, 170B3:28
 excess, 146B(1)28:417
 faults, 131B23:288–289; 146B(1)18:293–297; 196A1:12–13
 geochemical profiles, 156B25:317
 hydraulic conductivity, 141B32:403
 hydrofractures, 148B17:247–250
 mudstone, 160B45:588
 packer experiments, 156B17:203
 permeability, 190/196B10:6
 rates of expulsion, 146B(1)28:416–418
 sediments, 139B42:667–675; 146B(1)23:359–366; 156B17:229–238; 24:309
 seismic profiles, 156B21:271–272; 190A1:9
 stress, 146B(1)22:349–358
 surface conductivity, 148B21:301–303
 velocity model, 146B(1)22:355–357
 vs. depth, 146B(1)17:288; 156B17:230, 232, 235–237
- fluid provenance, chloride and deuterium, 204B13:5–6
- fluid recharge, Juan de Fuca Ridge, 139B44:698–700
- fluid regime
 carbonate veins, 156B5:88–90
 décollement zone, 156B25:311–319
- fluid-rock interaction
 geochemistry, 139B20:405–409; 156B12:163–170; 25:317; 29:354–355; 195B6:1–23
 helium isotopes, 139B19:389–390
 hydrothermal systems, 139B12:298–302; 23:421–423; 158B7:97–99; 15:195
 lithology, 173A7:186–189
- fluid salinity
 fluid inclusions, 147B11:221–222
 temperature-depth-pressure relationships, 147B11:223
 plagioclase inclusions, 148B7:90–91
 See also salinity
- fluid samplers
 design, 137A2:31–42
 geochemical gradient, 156A7:235, 237
- fluid-sediment interaction, geochemistry, 139B20:405–409
- fluid seepage, diagenesis, 164A8:247
- fluid source
 magmatic fluid inclusions, 147B11:221–223
 seawater fluid inclusions, 147B11:223
 stable isotopes, 147B14:273–274, 277–280
- fluid temperature, hydrothermal fields, 193A1:6–7
- fluid transport
 iodine and bromine, 204B14:1–25
 seamounts, 195A1:5
- fluid upflow, zones, 139B11:231–247
- fluid venting
 distribution, 204B3:5–6
 effects on bacteria, 146B(1)27:399–411
 gas hydrates, 164B29:285–300
 history, 204B3:6
 permeability, 193B13:5–9
- fluid yield, rates, 134A9:237
- fluidization/liquefaction channel, 129B6:157
- fluids
 alteration, 186B14:10
 composition, 139B10:155–201
 deformation, 176B4:13–14
 geochemistry, 146B(1)26:385–397; 156B25:311–319; 29:353–356; 158A7:123–127; 8:168–169; 9:173–174
 high-temperature microscopic veins, 176B4:12–13
 origin, 176B4:13–14
 overpressure, 161B10:117–128
 parental magmas, 157B22:389–390
- fluorapatite
 geochemistry, 138B36:761–762
 lithology, 162A8:263, 265
 Oman margin, 117A11:351; 14:459
 phosphate, 117A11:347
 photograph, 162A8:267
 sediments, 162A8:267
 textures, 141B8:106

- X-ray diffraction data, 113B6:79
- See also* francolite
- fluorapatite, carbonate
 - cements, 133B36:533
 - Oman margin, 117A14:462; 30:511
- fluorescence
 - bitumens, 139A7:321; 141A6:111, 269
 - blacksoot, 169A3:119
 - cut, 127/128B(1)35:623; 128A5:323
 - organic matter, 141A7:203
 - plankton, 138A(1)7:96–98
 - sediments, 139A5:121, 124; 6:197; 141A9:327;
 10:389–390; 146A(1)7:336
 - See also* epifluorescence microscopy; fluorometry
- fluorescence, laser-induced, pore water, 131B13:166–170, 174
- fluorescence in situ hybridization (FISH)
 - microbial community, 201B2:3
 - See also* FISH
- fluorescent microspheres
 - bacteria, 204A3:23; 4:19; 8:17; 9:15–16; 10:19
 - contamination tests, 201A2:7, 13, 18–19; 6:21, 83;
 7:93; 209A3:169
 - methods, 201A1:49–50; 2:5, 12
 - vs. seawater tracers, 201A2:7–9
- fluoride
 - fluid-rock interactions, 195B6:1–23
 - foraminiferal tests, 144B57:993–995
 - francolite, 127/128B(1)5:67
 - hydrothermal fields, 193A1:6–7
 - limestone, 144A6:232; 7:275; 8:302; 144B24:440
 - methane-charged sediments, 204B16:1–22
 - phase equilibria, 179B2:44
 - pore water, 127/128B(1)5:64, 66; 144A3:68; 4:129;
 5:179; 6:232; 8:302; 166A6:94–95; 7:162; 8:190–191;
 9:252, 254, 267; 10:313–316; 178A4:21; 5:19;
 6:14; 8:13; 9:15; 190A1:30; 195A3:33; 204B16:1–22;
 205B5:5–7
 - sediments, 166A11:364
 - Site 698, 114A5:108
 - Site 699, 114A6:174
 - Site 700, 114A7:278
 - Site 701, 114A8:389
 - Site 702, 114A9:499
 - Site 703, 114A10:567
 - Site 704, 114A11:648–649
 - Southern Ocean, 114B39:721
 - uptake rates, 127/128B(1)5:65–66
 - vs. calcium, 205B5:11
 - vs. depth, 141A6:121; 8:281–282; 10:406; 144A3:73;
 4:130; 5:182; 166A6:94; 7:163; 8:189; 9:253;
 10:314; 11:363; 169B1:10; 178A4:77; 5:70; 6:49;
 7:52–53; 8:47; 195A3:117; 4:134; 195B6:16, 21;
 10:4; 204B16:14–20
 - vs. oxygen isotopes, 144B24:442
 - vs. subbottom depth, 141A6:120; 7:217–218
- fluoride/bromide ratio, vs. depth, 205B5:9
- fluoride/calcium ratio
 - vs. depth, 144A6:234; 8:303
 - vs. magnesium/calcium ratio, 144B57:994
 - vs. oxygen isotopes, 144B57:994
- fluoride/chloride ratio
 - pore water, 195B6:5–10
 - vs. depth, 195B6:17
- fluoride/silica ratio, volcanic ash, 125B16:289
- fluorides. *See* lithium fluoride
- fluorine
 - inclusions, 157B23:403–410
 - lithology, 180A12:8, 11
 - phosphorus, 157B23:407
 - photograph, 180A12:61
 - sideromelane, 157B25:425–426
 - vs. aluminum oxide, 157B15:236–239
 - vs. depth, 168B9:107–114
 - vs. magnesium oxide, 157B16:283; 23:406; 25:426
 - vs. potassium oxide, 157B16:283; 23:409; 26:437
 - vs. silica, 157B23:409
- fluorometry
 - paleoproductivity, 138A(1)7:96–97
 - See also* fluorescence
- flushed zone
 - fluid circulation, 166A2:21–22
 - oxygen isotopes, 166B8:93–94
- flushing volumes, pore water, 143B14:239
- fluvial channel bars, paleoenvironment, 174AXS_A5:17
- fluvial environment
 - deposition, 188A4:17; 189A1:6
 - lithofacies, 160B43:560
 - lithology, 174AX_A1:32; 174AXS_A1:26–27; 2:16;
 3:17; 4:15–20; 183A6:10; 7:25; 188A4:13
 - sedimentation, 183A5:8
 - seismic units, 188B8:7–10
 - Site 741, 119B19:376
 - Site 750, 120B(1)8:105–106
- fluvial processes, submarine canyons, 150B15:291–292
- fluvial sedimentation. *See* sedimentation, fluvial
- fluvio-deltaic environment, palynomorphs, 188B3:7
- fluvio-glacial environment, deposition, 188B2:11–12
- fluvio-lacustrine environment, lithology, 119B4:59–60
- flux, biogenic, Neogene, 145B38:590
- flux, distributed low, gas hydrates, 204B1:6–7
- flux, high focused, transport-dominated, 204B1:7–8
- flux, organic carbon, 162A7:245
- flysch, Variscan basement, 149B1:8
- FMS. *See* Formation MicroScanner imagery
- focusing, mantle upwelling, 209A1:7–8
- folding
 - basalts, 206A3:74–75
 - cores, 141A6:97–99
 - paleomagnetism, 131A6:124, 126; 131B25:309
 - Peru margin, 112B2:20–21
 - Pliocene–Quaternary interval, 160A7:157
 - sedimentary wedges, 170A4:110–113
 - sediments, 146B(1)12:204
 - seismic profiles, 156A1:9; 2:22
 - Site 779, 125B19:349
 - structural data, 141A6:107
 - See also* chevron folding
- folding, convolute, serpentine sediments, 125A7:133
- folding, lithospheric
 - compressional-stress levels, 123B37:675, 680, 688
 - duration, 123B37:681

folding, plastic, serpentine microbreccia, 125B18:332
folding, thrust, growth strata, 204B2:19
folds
 axial plane, 210A3:259
 black claystone, 159B1:5
 compressional structures, 159A8:279
 décollement zone, 131B29:366–367; 159B3:26–28
 deformation structures, 159B1:9–10; 210A3:71–73
 dip data and younging directions, 131A6:139
 drilling disturbance cause, 141A7:201–202
 fault gouge, 180A11:7
 lithology, 162A10:355–356; 164A5:70, 77; 170A6:195;
 171B_A6:253; 173A4:71–74, 86; 6:126;
 180A12:9; 210A3:24
 metadiabase, 180A7:15
 metamorphism, 161B23:310; 173A6:143–144
 orientation, 193A3:58–59
 photograph, 149A7:237; 156A6:128; 157A8:406;
 10:512; 159A6:189; 161A6:240; 164A5:72;
 170A4:111; 173A4:87, 91; 175A15:465;
 180A6:92; 7:35; 11:23; 12:70; 193A1:48; 3:109;
 206A1:74; 3:165, 167, 263, 265; 210A3:136–
 137, 219
 photomicrograph, 161A6:243; 161B19:276; 23:313;
 180A7:35–36; 206A3:185, 262, 264; 209A6:73,
 96
 Pleistocene, 170A1:12
 schist, 161B20:283
 silty clay, 150B11:195–199
 stereographic projections, 190A6:37
 structures, 159A8:279–280; 180A6:38–39
 tilting, 159B1:9
 transform faults, 159A9:303
 unconformities, 159B2:17
 vs. microfaults, 173A4:90
 See also microfolding; microfolds
folds, asymmetric
 deformation structures, 210A3:72–73
 photograph, 210A3:261
folds, chevron
 axial planes, 210A3:257
 Formation MicroScanner imagery, 129B6:158
 photograph, 210A3:257
folds, crenulation, photomicrograph, 161B23:313
folds, disharmonic, sediments, 161A7:316
folds, drag, tectonics, 204B2:9
folds, isoclinal
 lithology, 161A7:322; 173A4:84–85; 193A3:24, 31
 photograph, 135A(1)4:104; 139A7:306; 150B11:214;
 161B20:285
folds, kink, epidote veins, 173A6:144
folds, microshear, photograph, 134A9:215
folds, overtuned
 photograph, 145A6:224
 structures, 180A10:12
folds, recumbent
 cores, 141A6:97; 7:185
 Formation MicroScanner imagery, 129B6:157
 lithology, 180A12:12
 photograph, 141A6:106; 145A6:225–226; 164A5:72;
 207A8:43; 210A3:179

Pigafetta Basin, 129B6:160
folds, refolded
 lithology, 173A4:84–85
 photograph, 159B3:32
folds, shear
 fault gouge, 180A11:11
 photograph, 134A9:219–221, 223
folds, similar, lithology, 210A3:48
folds, slump
 claystone, 159A6:187–188
 composite digital images, 208A7:43
 lithology, 150A8:219, 318; 157A9:443–444; 10:507;
 159A5:83; 161A8:358; 173A4:84–85; 7:197
 metasediments, 173A8:249–250
 mud, 133A(1)15:621–622
 photograph, 134A12:430; 13:495, 514; 149A6:160–
 161; 160A8:229, 246; 161A4:85–86; 7:311;
 8:367–368; 171B_A4:113; 5:184; 6:255;
 173A4:88; 190A6:36
 Pliocene, 134B2:38
 Pliocene–Pleistocene interval, 161A9:399
 sedimentation, 180A1:9
 sediments, 159A7:241; 161A5:141; 7:316
 Site 799, 128A5:261–263, 266–267
 Site 1116, 180A10:45
 slope apron deposits, 131B9:124–125, 129, 131
 structural data, 149A4:83–84; 159A8:281; 180A12:28–
 29; 190A6:9–10, 35–39, 75
 syndimentary structures, 170A6:197
 underthrust section, 170A4:114–115
folds, soft-sediment, sediments, 210A3:29
folds, syndimentary
 lithology, 210A3:45
 photograph, 210A3:148
folds, upright, cores, 141A6:97
foliation
 altered fault rocks, 135B20:320
 amphibolites, 173A6:130–131, 139
 anorthosite veins, 173A6:141, 143; 7:190–191
 Atlantis II Fracture Zone, 118B26:441
 basement, 149A7:237–241; 161A6:215–221; 173A1:10
 breccia, 173A7:188–189
 brittle-ductile shear zone symmetry, 118B26:500
 chloritite, 173A4:201
 clasts, 180A1:14
 clay mineral fabric, 127/128B(1)2:38
 deformation, 118B26:490–491; 147B20:362, 364;
 173A6:148; 7:193; 9:290; 190/196B9:3–4;
 209A6:20
 dip, 125B30:526; 147A4:140; 147B19:356;
 161A6:227–228; 161B24:320; 173A6:142, 146;
 7:203; 176A3:180, 184, 244; 176B5:30; 190/
 196B9:12; 209A5:119
 fabric, 149B36:582–583
 folding effect, 125A6:107
 gabbros, 147B17:318; 23:401; 179B(synthesis):63;
 209A10:5
 gneisses, 161B19:266–267; 20:283–284
 harzburgite, 209A5:132, 134
 hydrothermal alteration, 135A(1)11:605
 intensity, 176A3:180

- kinematics, 134B23:424–427
lithology, 173A6:124–127; 201A11:12; 210A4:7–8
magmatic structures, 176A3:54–58, 65–69; 176B10:22
magnetic fabric, 161A4:77–78
magnetic susceptibility anisotropy, 148A2:72; 3:168;
164A5:86
mantle, 125A7:128–129
massifs, 179A4:56–57
metagabbro, 149B47:721; 173A7:191
metamorphism, 149B27:475–476; 161B23:312–314;
173A6:136; 176A3:45–47
metasediments, 173A8:246–252
metatonalite clasts, 173A7:191
microshears, 118B24:425
microstructure, 161B20:284, 287–288
middle structural domain, 118B24:425
mylonites, 180A11:5
olivine gabbros, 176A1:12, 18–22; 176B6:4–7
orientation, 173A8:250–251; 209A3:31, 132
peridotites, 147A4:140–141
petrography, 147B15:299
photograph, 147B13:243; 20:364; 149A4:90, 92;
7:239; 149B28:491; 156A6:127–128;
161A6:228–229, 231, 238–241; 173A7:190;
8:240; 9:289; 176A3:160, 209; 176B5:30;
179B3:23; 180A1:54; 7:35; 11:23; 190/196B9:13;
209A3:104, 129, 133; 5:115–116; 6:82; 9:79;
210A4:26
photomicrograph, 147B17:321; 161A6:239–246;
161B19:276–278; 20:285; 23:313; 25:343;
173A6:132–133; 7:192; 8:251; 9:289;
176A3:191; 179A4:133; 179B2:27; 180A7:35–36;
209A3:106; 5:79, 137–138; 6:86
plagioclase, 173A4:200
preferred orientation, 125B36:605
protoliths, 180A1:13
rose diagram, 147B18:323; 19:354
scaly fabric, 156B4:63–66, 72–75
schists, 133B37:536; 161B20:282–283
serpentine sediments, 125A7:133
serpentinites, 149A4:91; 173A7:189–190, 202
shear bands, 118B24:423; 125A11:261–263;
125B36:609
shear waves, 147B25:434; 149B24:428–429
Site 778, 125A6:106–107; 125B19:344, 347
sources, 149A7:258
spinel, 209A5:32; 6:19, 83
stereograms, 147B19:355; 205A5:66
structures, 161B23:310; 176A1:6–8
tectonic units, 134A9:210
tonalite gneiss, 173A6:131, 139–141
transmission electron microscopy, 147B12:244
trench-wedge facies, 190/196B9:5–6
vs. depth, 161A6:216; 185B9:17; 190A9:37; 205A5:64
vs. lineation, 134B27:484; 192B5:15; 193A4:209; 6:31
See also magnetic foliation; P-modulus
- foliation, anastomosing
Bonin-Mariana region, 125B36:609
dip, 209A3:110–111
photograph, 209A3:108–109
photomicrograph, 209A5:117
- foliation, anastomosing serpentine, 209A3:24–25
foliation, bedding-oblique, photograph, 190A1:74; 9:42
foliation, chrysotile
dip vs. depth, 209A9:80
stereo plots, 209A9:81
foliation, cross-fiber serpentine
depth vs. intensity, 209A3:112
dunites, 209A5:22, 31; 6:22–23
gabbronorite dikes, 209A9:14–15
serpentinized harzburgites, 209A7:15
foliation, crystal-plastic
dip vs. depth, 176A3:188; 209A3:98
intensity and orientation, 176A3:184; 209A5:21–22
photograph, 179B(synthesis):42; 209A3:102, 114,
130; 5:110, 135–136; 7:77
photomicrograph, 209A6:94
protogranular textures, 209A9:13–14
stereo plots, 209A3:134; 5:120; 7:78; 9:75
foliation, discontinuous, photograph, 149A7:234
foliation, fanning, Southwest Indian Ridge, 118B26:502
foliation, flow, basalts, 142A4:59
foliation, gneissic
crosscutting relationships, 118B26:504
development, 118A6:106
dip, 118B26:501
foliation, high-temperature
peridotites, 149B22:402
photograph, 209A7:46; 210A4:14, 27
foliation, high-temperature high-strain, 209A3:22–23
foliation, high-temperature low-strain, 209A3:21
foliation, late magmatic
dip orientation, 118B26:502
overprinting, 118B26:501
foliation, low-angle, photograph, 209A3:101
foliation, magmatic
Atlantis Bank, 118B8:159; 24:419
crosscutting relationships, 118B24:425; 26:499
dip, 118B23:413; 147A3:85
fabric, 149B17:339
gabbros, 209A3:9
igneous layering, 176A3:29–30
overprinting, 118B24:418
oxide gabbros, 118B2:27; 24:427
paleomagnetic reorientation, 147A3:88–89
parameters, 131B25:306–307
photograph, 147A3:79, 81, 85; 147B1:17
photomicrograph, 176A1:65; A3:205
relation to lithology, 147A3:64
solid-state deformation, 118B24:427–428
stereo plots, 209A10:112–113
strikes, dips, and depths, 147A3:80
vs. depth, 141B3:36, 39–45; 149B17:340–341
vs. magnetic lineations, 146A(1)5:176; 6:261
foliation, mesoscopic crystal-plastic, 209A7:80
foliation, mylonitic
crosscutting relationships, 118B26:504
dip orientation, 118B24:425; 26:501; 176A3:188
lithology, 210A4:7–8
textures, 209A5:33
foliation, penetrative
oxide gabbros, 118B26:460

- oxide olivine gabbros, 118B26:464, 469
- foliation, retrograde, dip vs. depth, 176A3:188
- foliation, scaly
 - photograph, 156A6:117
 - structural domains, 156A6:127–128
- foliation, serpentine
 - orientation, 209A7:19
 - photograph, 209A9:78–79
 - stereo plots, 209A7:91
- foliation, shear, photograph, 209A10:104
- foliation, solid-state, dip orientation, 118B23:413
- foliation, spaced
 - carbonate veins, 156B5:80–81
 - scaly fabric, 156B5:66–67
- foliation, whorled, Bonin-Mariana region, 125A11:262
- foliation bands, photograph, 149B27:475–477
- foliation intensity
 - crystal-plastic, 176A1:64
 - magmatic, 176A1:64
- foliation planes
 - anastomosing structures, 180A11:7–8
 - granite gneiss, 180A7:13
 - harzburgites, 209A7:13
 - magnetic inclination, 173A6:126
 - metadiabase, 180A7:15
 - mica schist, 180A7:12–13
 - photograph, 180A7:40; 11:24
- footwall margin
 - continental crust, 180B3:3–4
 - deposition, 180A1:19
 - structural analysis, 180B24:1–43
 - textures, 180B3:5–6
- Foram Sharp Line (FSL)
 - Japan Sea, 127/128B(1)29:493, 506
 - timing, 127/128B(1)29:526–529
- foraminiferal datums
 - age and depth, 198A3:122; 4:81; 5:84; 6:73; 7:67; 8:66; 9:97; 10:30
 - Cenozoic, 138B25:556
 - distribution, 184B8:42–43; 9:24, 26; 21:9; 210A3:339
 - geochronology, 184B11:3–4
 - middle Miocene, 205B1:15
 - Neogene, 138B23:521
 - northwest Australian margin, 133B55:787–790
 - occurrence, 161B14:190
 - Ontong Java Plateau, 130B15:275
 - sediments, 199A11:97; 12:103
 - zonation, 184B9:5–6, 14
- foraminiferal dissolution index, vs. depth, 134B13:302
- foraminiferal events, depths, 138A(2)15:829; 18:1036
- foraminiferal factors, vs. depth, 150X_B18:248–257, 260–261
- foraminiferal fragmentation
 - Paleocene/Eocene Thermal Maximum, 198B8:5, 20–36
 - vs. depth, 184A5:45; 6:33; 184B11:14
- foraminiferal ghosts, photomicrograph, 161B25:342
- foraminiferal isotope record, smoothed, 138B17:403–406
- foraminiferal linings
 - biostratigraphy, 189A3:32–33; 7:34
 - distribution, 189A4:55; 5:141
 - paleoenvironment, 183B3:6–9
 - foraminiferal residues, depth, 188A3:75–76, 191
 - foraminiferal temperature score, vs. preservation, 141A7:179
- foraminiferal zones
 - abundance and preservation, 157A4:74; 157B9:97–114
 - Site 974, 161A4:74–76
 - Site 975, 161A5:136–138
 - Site 976, 161A6:203–205
 - Site 977, 161A7:316–317
 - Site 978, 161A8:376–377
 - Site 979, 161A9:401–402
 - vs. depth, 157A4:71; 5:119; 6:149, 152
- foraminifers
 - abundance, 130A7:232; 8:303–307; 135B11:170; 160B2:22; 175B(synthesis):94; 181A5:57; 9:82–83; 202A1:111
 - abundance and preservation, 127A4:99–100; 5:195–198; 6:273–274; 7:355–356; 127/128B(1)12:188; 128A5:258
 - ages, 103A12:598; 143B31:515–516; 175B12:18–21; 202B1:10
 - alkenones, 146B(2)19:262–263
 - ash fall layers, 157B14:205
 - assemblages, 127A1:20; 4:100–101; 5:195–198; 6:273–274; 7:355–356
 - backscattered scanning electron microscopy, 127/128B(1)31:548, 557; 161B8:104, 107–108
 - bathyal environment, 194A4:16–17
 - benthic/planktonic ratio, 175B1:16
 - bioevents, 166A6:85; 7:159; 8:184; 9:244; 10:309; 199A8:51; 11:106; 12:111; 13:80; 14:57
 - biofacies, 146B(1)5:79–113
 - biogenic components, 161B6:78–80
 - biostratigraphy, 124A6:96; 10:131, 144–145; 11:209, 223–225; 12:304, 315, 318; 13:350, 352; 14:405–408; 124B1:4; 9:122; 29:389; 132A4:84–88; 133A(1)4:96–98; 5:151; 6:186; 7:212; 8:262–263; 9:312–313; 10:367; 11:427–428; 12:464–465; 13:519; 14:580; 15:628–629; 16:705; 17:780; 18:809; 133B3:39–49; 134A7:110; 8:152; 9:197–198; 10:274–276; 11:334–336; 12:411; 13:500; 134B12:265–291; 138A(2)14:744; 139A5:110; 6:181–182; 7:300, 302; 8:457–458; 143A6:130–133; 8:280–281; 9:320, 323–325; 145B37:560–574; 149A4:66–70; 5:128–129; 6:179; 7:223–227; 150X_B10:111–127; 162B1:3–17; 165B17:256; 172A7:319–321; 178A4:16; 5:14–15; 6:10–11; 7:11; 8:11, 41; 9:10, 12; 181A3:12–14; 4:10–14; 5:10–14; 6:15–16; 7:17–21, 139; 8:15–20, 108; 9:12–14, 81; 181B1:94; 182A1:11–12; 183A3:10–13; 186B7:1–23; 188A5:14–16; 188B4:4–8, 13–21; 189A1:35–37; 191A1:16; 4:17–18; 192B1:4–5; 195A3:23–24; 5:8–9; 195B3:22; 210A1:16
 - borehole fluids, 137A2:38–39
 - calcareous test deposition, 145B25:391, 394
 - calcite, 203A3:8
 - carbon and oxygen isotopes, 202B12:10–14

- carbon isotopes, 113B46:814–815, 818; 47:831–832;
49:871, 873; 130B19:333–348; 138B39:798
- carbonate compensation depth, 192A5:10
- carbonate crash models, 206B4:9
- carbonates, 113B47:841; 130B44:733–740;
144B52:929–932; 162B12:181–189;
175A17:512–513
- Cenomanian/Turonian boundary, 207A1:7
- Cenozoic, 150B5:65–95; 194A1:17–20, 25–27, 36–40
- changing characteristics, 181A6:59
- chemical preservation, 113B46:816
- cleaning, 207B6:6–9, 20–23
- climate fluctuation, 127A5:195–197; 178A8:8
- compaction, 165B7:133
- comparison with onshore sections, 188B4:21–22
- core data, 178B7:45
- correlation, 130B35:591; 150A6:95
- Cretaceous, 144B45:781–782; 183B1:21–22
- Cretaceous/Tertiary boundary, 165A4:151–152;
198B1:8–9; 208A1:62
- cumulative percentages, 174AXS_A3:73–77
- cyclostratigraphy, 166B7:84–85
- deepwater circulation, 198B1:7–8
- deposition, 144B47:826–828, 836–840
- diagenesis, 150X_B3:28, 30, 34–37
- diatom zones, 127/128B(1)12:188–189, 222–223
- dissolution, 175A11:320; 178B7:8–9; 181A8:21–23;
188A4:18–19; 5:15; 188B4:5–8, 18, 20–21;
202A12:12
- distribution, 103B40:737; 188B4:36, 38; 13:35–38;
202A3:48; 4:68–69; 5:56–57; 6:59–60; 7:68;
10:84–85
- dolomite, 103B11:181
- electron microscopy, 160B34:445
- Eocene/Oligocene boundary, 177B(synthesis):6;
181B1:42–45
- Eocene–Oligocene interval, 183B1:22–23; 189A5:74
- faunal assemblages, 183B2:9, 25; 188A3:25; 188B4:8–
10, 14–20
- fragmentation, 177B14:1–23; 198B10:5–6
- geochemistry, 202B1:9
- geochronology, 195B3:6
- geologic history, 129B12:230
- glauconite, 150B10:180
- grain size, 198B10:6
- grainstone, 103B6:64, 70
- hydrography, 159B40:539–555
- intermediate water, 181B1:57
- isotope stratigraphy, 164B18:173–175
- isotopic preservation, 113B46:816, 818
- laminated diatom ooze, 138B31:648
- laminites, 146B(2):6:81
- latest Maastrichtian, 174AXS_A(summary):11–12
- lithium/calcium ratio, 208B1:54
- lithofacies, 143B30:484–489
- lithologic motifs, 173A7:173–174
- lithology, 150A6:76; 156A6:98–99; 7:202; 159A6:163;
7:227; 159B43:587–588; 160A7:160–162;
162A3:55, 58; 163X_A6:11; 164A5:69, 79;
6:110–111; 7:179–181; 8:245–246; 9:284;
165A3:53–58; 4:138, 142–146; 5:238–248;
- 6:297–302; 7:363, 370; 165B4:87; 166A6:77–83;
7:154–156; 11:353–355; 167A(1)4:55; 6:134;
7:161; 8:180–183; 11:288–291; 12:318–320;
13:357–359; 14:393, 395; 15:437; 16:468;
169A5:208; 170A3:53; 5:159, 161; 6:195; 7:219–
220; 171A_A5:60; 171B_A3:51–54; 4:101–105,
112–116; 5:179; 6:246, 257–258; 7:323;
172A3:38; 4:85, 90–91; 5:164–165, 168–174;
174AXS_A1:21–22; 3:34; 5:28–30; 175A6:150,
152; 7:179; 8:205; 9:231–233; 10:276, 281;
11:315–317; 12:344–345; 13:395; 14:433;
175B1:3; 177A1:20–22; 3:4–5; 9:6–7; 178A5:5;
180A6:8, 23–24; 8:6; 9:15–16, 21–22; 12:5–16;
180B6:5–12; 181A1:13, 19, 23; 4:4–7; 8:8; 9:4–6;
182A1:10, 17, 37, 39; 4:5–9, 11; 5:4–8; 6:4–5;
7:6–10; 8:4–9; 9:4–8; 10:4–10; 11:3–5; 12:4–7;
182B9:4–7; 183A3:4–5; 4:4–6; 5:5–6; 6:7–8; 8:5–
6; 184A5:8–9; 7:5–9; 8:3–4; 9:8; 188A3:11–12,
20; 4:9–11; 189A5:11–15; 6:12–14; 7:11–15;
192A3:5, 8; 194A1:41–44; 9:4–8; 196A4:15;
197A5:5–6; 198A7:10; 8:7–12; 10:5, 7; 201A6:8–
11; 7:8–10; 9:8–9; 12:8–10; 202A7:7–10; 9:8–11;
11:8–10; 12:6–10; 13:6–9; 204A3:5–8; 4:4–11;
6:3–8; 10:6–7; 11:4–7; 207A4:5–7; 5:4–7; 6:6–8;
7:5–11; 8:5–8; 208A4:6–8; 5:4–6; 6:6–10; 8:5–9;
210A3:22–25, 28, 42
- lower Quaternary, 175B21:5–6
- lysocline, 135B11:169–170; 192A3:23; 5:6–7, 10;
6:12–15
- Maastrichtian, 174AXS_A(summary):32
- magnetobiochronology, 178B36:4
- marine isotope stages, 181B1:29–31
- Mesozoic, 159B35:481–490
- Messinian, 161B42:529–541
- Messinian–Pliocene interval, 160B34:441
- micropackstone, 103B6:64
- mid-Cretaceous, 207B2:5
- middle-late Pliocene, 181B1:21–22
- middle Miocene, 194A1:14
- millennial cycles, 167B32:356
- Miocene, 160B33:420–423; 183A1:29; 194A1:21–23,
30–33
- molds, 135B11:167
- morphotaxa, 127/128B(1)31:548
- mud volcanoes, 195A1:10–14
- mudstone, 103B6:71; 7:107
- mudstone-wackestone sequences, 103B6:68
- Neogene, 159A9:308–309; 164B34:343–363;
177A1:15; 188A4:19–20; 188B4:1–41
- Neoglacial, 178B34:6–8
- occurrence, 130B5:64–67
- ocean circulation, 175A1:9–11
- oceanic anoxic events, 198B16:7
- Oligocene, 150X_B8:81–85
- organic geochemistry, 113B50:884–889, 894–897
- outer perimeter ridges, 144B15:296–300
- oxygen isotopes, 113B46:814–815, 818; 47:831–833;
49:870–872; 133B22:303–308; 49:743;
150A2:11–12; 165B16:243; 167B32:355;
172B(overview):5; 177B12:1–20
- packstone, 103B6:71, 77; 8:107

- Paleocene, 181A5:57
paleoclimatology, 178B7:3–10; 181B1:48–51
paleodepth, 127A5:198; 6:274; 7:355
paleoecology, 161A7:313; 8:366–367; 9:399
paleoenvironment, 127A5:199; 174AX_A1:20, 26–32,
35; 181A3:16–17; 4:13–14; 5:13–14; 6:17–19;
7:25–26; 8:21–23; 9:15–16; 184A1:30–31
Paleogene and Neogene, 150B1:3–15
paleotemperature, 113B46:821
percentage vs. depth, 133B14:188
petrography, 160B37:471
photograph, 141B11:167; 144A7:264; 150X_B3:42,
46, 48; 159A5:77, 81; 159B43:589; 160A5:97;
14:476; 161A8:365; 161B15:207; 164A6:107;
165A6:329; 165B7:137; 166A7:158;
171B_A4:111, 115; 6:249–252; 172A4:85, 87;
5:175; 175A15:464; 178A4:52; 180A5:61–62;
9:75, 78; 190A5:43; 192A3:63, 67; 194A7:48, 54,
58; 201A11:45; 204A4:57; 6:37; 10:48;
205A4:77; 207A8:43
photomicrograph, 130A8:309; 133B3:49; 160B38:506,
508; 49:658; 161B1:19; 163X_A6:36;
164B29:290; 165A5:246; 173A6:118; 7:174;
8:233; 173B6:8; 180A9:76–77, 89; 180B7:49–50;
182B12:8; 183B2:28; 192A3:54, 60, 75; 6:41, 47,
49, 54; 194A3:31–34; 7:49; 9:33; 194B5:38; 8:12;
198A3:76; 201B13:22–25, 28–29; 204A4:58;
7:30; 205A4:78; 210B2:20
planktonic/benthic carbon isotope ratios,
115B28:530, 534; 130B24:415; 146B(2):24–25
planktonic/benthic ratio, 113B31:491, 494;
117A14:452; 15:472; 16:503; 17:552; 18:566;
19:596; 117B3:61; 5:130; 119A5:131;
121A6:129; 13:477–478; 121B1:16; 2:38; 3:81–
85; 133B14:181–188; 139B2:45
Pleistocene, 138B34:695–714; 150A6:82
Pliocene, 135B22:367–368; 145B8:141–156
Pliocene–Pleistocene interval, 159B41:563–564;
188B13:12–14; 202B11:1–19
preservation, 130B29:491–508; 135B6:97; 157A5:121;
157B10:116; 169A6:268; 198B8:6; 202A1:111;
207B6:3; 208B1:40
principal results, 189A1:14–15, 30–32
productivity, 175B(synthesis):38, 93; 178B23:13
Proteus Ocean, 113B49:876–877
provenance of Eocene sandstone, 210B2:10
radiometric age, 165B20:305–306
range chart, 139A5:114–118
relative abundance, 138B34:699–701
reworking, 127A5:195; 6:273; 7:355
saline deep waters, 113B49:874
sand, 103B36:644–645
sandstone, 180B7:9
sappropels, 160A5:95–96
scanning electron microscopy, 161B7:95;
164B29:291; 175B9:12; 207B9:19
sea-surface temperatures, 113B46:822; 47:843
sedimentation, 192A6:10–11
sediments, 130B38:642–651; 138B19:442–450;
160B36:457; 175B11:4; 177A1:12; 188A5:88;
189A5:68–69; 194A3:17; 198A6:4–5
sequence stratigraphy, 166A2:19–20
Site 637, 103A8:129–133, 164–166; 103B38:694
Site 638, 103A9:248, 290–294; 103B38:688–689
Site 639, 103A10:427–428, 452–461; 103B6:60–64;
7:95; 11:191–192
Site 640, 103B32:538–540, 548–549; 38:691
Site 641, 103A12:581–583, 587, 603–605;
103B35:613–614; 38:690, 692
Site 794, 127A4:99–101; 127/128B(1)12:187–193;
128A3:99
Site 795, 127A5:195–198; 127/128B(1)12:187–197
Site 796, 127A6:273–274; 127/128B(1)12:187–200
Site 797, 127A7:355–356; 127/128B(1)12:187–207;
(2)77:1223
Site 799, 127/128B(1)6:78
size and number, 178B7:43
sources, 135B12:179–180
stable isotopes, 130B17:310–312; 19:348; 27:460–462;
167B7:129–140; 172B9:1–14; 175B12:1–22;
178B20:1–10; 188B13:11; 16:1–11; 202B1:11,
48–49; 207B6:1–23
statistical summary of species, 138B34:700
stratigraphy, 160B52:703
strontium/calcium ratio, 113B46:817
strontium isotopes, 144B21:413–414; 150B6:97–114;
162B17:242
Subtropical Front, 181B1:37
taxonomy, 143B32:550–557; 183B2:10–16
tests, 130B36:611; 144B23:434–436
textularid taxa, 127A5:195–198; 7:356
textural preservation, 113B46:816
thermocline, 113B47:842–843
transfer functions, 177B(synthesis):21
turbidites, 135B7:105, 107; 166B5:50–53; 173B6:2–4
upper Quaternary, 175B7:1–26
upwelling, 175A1:17
Varimax factor matrix, 164B34:358
volcaniclastics, 135A(1)11:594–595
vs. carbonate content, 162B12:188
vs. depth, 138A(1)10:198; 11:275; 12:344; (2)13:687;
14:753; 15:822; 16:907; 17:975; 18:1032;
19:1071; 139B2:45; 144A11:428; 146B(2)23:315,
319–320; 150A8:219; 157B17:308; 160A5:96;
7:164; 8:228; 10:342; 11:385; 161B1:15; 30:399;
40:509, 515; 162B12:182, 184; 164B34:351–362;
165A4:142; 166A6:87; 175B1:9; 177A3:22;
178A7:43; 178B7:30–31; 184A5:45; 186A4:82;
5:52; 189A3:67; 6:75–78; 7:61, 65; 197A4:38;
202A4:33; 5:29, 35; 7:41, 51; 9:46, 57; 10:46, 52;
11:38, 47; 12:48, 57; 13:38, 46; 206A3:123;
208A3:30; 4:34, 37; 5:31; 6:40, 43; 7:32, 35; 8:36
wackestone, 103B8:107
wackestone-floatstone sequences, 103B6:66, 69, 71
wackestone-packstone sequences, 103B11:176
water-temperature interpretation, 127A7:355
winnowing, 130B37:629
zonation, 127/128B(1)12:200–201; 157A7:348–349;
8:408, 412; 9:450, 452; 10:517–518; 169A5:212;
192A4:55; 198A5:39, 42; 6:37; 8:33; 9:41; 10:18;
198B10:15; 210B13:37–40

- See also* acervulinids; alveolinids; Ammosphaeroidinidae; Ammodiscidae; anomalinids; Astrorhizida; Ataxophragmiidae; Bagginidae; Bolivinidae; bryozoan-larger foraminifer microfacies; buliminids; caucasinids; chiloguembelinids; Cibicides; cuneolinids; Cyclamminidae; Cymbaloporidae; discocyclinids; discorbids; Egerellidae; elphidiids; eponidids; Foram Sharp Line (FSL); foraminiferal events; globigerinids; globigerinoids; Globotextulariidae; globotruncanids; grainstone facies; Hedbergellidae; lagenids; larger foraminifer-coral facies; larger foraminiferal (LF) associations; lepidocyclinids; Lituolida; Lizard Springs fauna; loxostomids; mass accumulation rates; miliolids; miliolines; nannofossils + foraminifers; neogloboquadrinids; Nodosariida; nonionids; nubeculariids; nummulitids; orbitoidids; Patellinidae; polymorphinids; pulleniatinids; Robertiniida; rotalids; rugoglobigerinids; sand; silt; siphoninids; soritids; subbotinids; sulcoperculinids; textulariids; Turrilinidae; uvigerinids; valvulinids; zeoglobigerinids
- foraminifers, agglutinated
 abundance, 144B6:130; 9:174, 178–186
 assemblages, 105B28:486; 37:734, 741–745; 51:983; 116B16:191; 123A4:104, 121, 139, 246; 123B1:9, 11, 14; 38:722; 43:805; 127/128B(1)12:188–189; 162B1:12–13
 biostratigraphy, 162B1:9–13
 dissolution, 178B7:9–10
 Labrador Sea, 105A5:445; 6:698
 Oligocene, 162B11:169–177
 sediments, 162A8:276; 178B15:4–5
 Site 794, 127/128B(1)29:500, 528
 Site 795, 127/128B(1)29:501–502
 Site 797, 127A7:355–356; 127/128B(1)29:503–504
 Site 798, 127/128B(1)22:373
 Upper Cretaceous, 129B13:247–264
 vs. age, 178B15:10
- foraminifers, agglutinated benthic
 calcareous, 105B36:709, 712–713
 distribution, 199A9:36
 interbasinal correlation, 129B13:247
 photograph, 210A4:19
 photomicrograph, 210A3:183
- foraminifers, agglutinated/calcareous ratio, 177A5:46
- foraminifers, altered, photomicrograph, 192A5:42
- foraminifers, aragonitic, Site 765, 123B3:78
- foraminifers, benthic
 abundance, 104A2:39; 4:126–128; 6:632, 635–636; 104B37:747–752, 755–756; 105B36:710–711; 37:735–738; 108A1:22–23; 114B7:284–285; 9:491–492; 13:287–288; 14:301; 27:489–490, 493–496; 116A2:20–21; 116B16:192–203; 117B3:58–62, 73, 76–80; 119B31:612–614, 618, 621; 166B12:129–136; 175A3:68; 4:95–96; 5:124–125; 6:162; 7:184; 8:210; 9:246–247; 11:321; 12:356–357; 13:402; 14:441; 15:469; 17:516; 175B(synthesis):79, 98; 1:11–12, 21; 181A3:90–91; 6:121–122; 198B8:25–28; 10:5
 abundance and preservation, 127/128B(2)77:1220–1222; 128A1:30; 4:166; 5:311–312
 abyssal sediments, 123A4:130
 age, 104A4:129–130, 148–152; 104B37:746; 114B27:484–495, 497, 504–506; 143B31:511; 150B5:70–71; 175B7:25
 agglutinated forms, 121A8:204
Ammobaculites association, 123B14:284
 Antarctic Circumpolar Current, 119B31:620, 622
 Antarctic ice sheet expansion, 121A13:485
 Antarctic source water influence, 121B1:19, 21
 Argo Abyssal Plain, 123B1:42
 assemblages, 105B30:571; 36:708–710, 719–721; 37:739, 742, 744; 107B29:466; 30:484, 486; 114A5:104; 6:171–172; 7:273–274; 8:383–384; 114B27:485–490, 497; 116B16:191; 18:215–236; 117A13:425–426; 14:452; 16:503–504; 19:596; 117B3:55–56; 119A6:179; 7:250–251; 13:486–487; 119B31:613–615; 127/128B(1)12:188–189; 128A4:166; 5:311–312; 129B12:229; 134A7:110; 9:197–198; 138B32:665–673; 177A5:12–13; 182A4:21–23; 5:13–14; 6:19–22; 7:15–16; 8:17–19; 9:12–13; 10:19–20; 11:9–10; 12:14–16; 183B7:6–7
 Atlantic Ocean N, 105B36:710, 714; 37:743–744; 121B2:52
 Australia, 123B14:283–285
 Barbados fauna, 115A7:473
 barite, 114B32:618
 bathyal-abyssal environment, 119B31:615; 121A8:205; 13:486; 125B4:74–77
 bathyal environment, 115A4:137; 117A16:536
 biochronology, 105B36:707, 708; 116B18:235–236
 bioevents, 117B3:74–76
 biofacies, 123B13:246–247; 150B5:69–83; 150X_B14:169–186; 15:198–201; 174AXS_A3:17, 39–42
 biogenic productivity and increase, 121B1:16
 biogeography, 123A4:139; 123B14:284–285
 biomediation, 184B12:9, 19, 22–23
 biostratigraphy, 101B2:54; 105B36:708–710; 37:733–734, 737–741; 107A6:149; 7:310; 8:425–426; 9:615; 10:768; 11:891; 12:962; 107B28:430–433, 438, 443, 447–450; 29:463, 467, 469; 30:491; 114A5:104; 9:496–497; 10:565; 11:645; 115A4:136–137; 5:237, 250–251; 6:409, 412; 8:601; 10:745; 11:854–855; 12:924–925; 13:1010; 115B21:384; 25:472–473; 27:519–520, 526; 116B16:191–206; 18:235–236; 117A18:565–566; 119A5:133–134; 6:174–176; 7:248–249; 8:304; 9:356; 10:382–283; 11:413; 12:465; 13:485; 14:514; 119B31:615; 123A4:115–118; 5:292; 124A10:144–145; 11:225; 124B2:19, 23; 11:165–169; 15:218; 26:365; 130A9:405; 133A(1)4:97–99; 5:151–153; 6:186–187; 7:212–213; 8:263; 9:313; 10:367; 11:428; 12:465; 13:519; 14:580; 15:629; 16:705; 17:780–781; 18:809; 133B4:51–66; 141A6:92; 7:179; 8:258–259; 9:318; 10:363, 365; 141B15:213–221; 143A7:210, 212; 144A3:60–64; 4:123–124; 5:173–175; 6:219, 227–228;

- 10:359; 11:425–426; 144B14:275; 145B8:143–152; 17:257–264; 146A(1)4:71–72; 5:159–162; 6:255; 7:322–323; (2)2:46, 49; 147B(2)1:3–18; 149B45:694; 150A6:80–81; 7:151–153; 8:223–224, 276; 10:321–322; 159A7:237–238; 160A6:135; 7:176; 10:353–355; 160B2:13–17; 161A4:72; 5:134–135; 6:204; 7:312; 8:363, 365; 9:398; 161B15:202–204; 162A3:68–69; 4:109–111; 5:152; 6:186–187; 7:239; 8:268–269; 9:304; 10:357; 162B1:6–11; 165A3:67; 6:313–314; 166A6:88; 7:157–158; 8:183; 9:244–245; 10:308; 11:357–358; 171B_A4:126, 129; 5:191, 195; 6:267, 273; 7:327; 172A3:43; 4:96–97; 5:181, 183; 6:261–262; 173A4:79; 6:119–120; 7:179–180; 8:244; 9:275; 174A_A3:63; 4:118; 5:167; 174A_B(synthesis):6–7; 174AXS_A3:39–42; 175A3:66; 4:94–95; 5:122–123; 6:158; 7:183; 8:209; 9:244–245; 10:286; 11:319–320; 12:356–359; 13:401–404; 14:440–441; 15:468; 177A3:8–9; 4:11; 5:11–12; 6:8–9; 7:8–9; 8:11; 9:9–10; 180A5:26–27; 6:47–48; 7:19; 8:26–29; 9:33–34; 10:15; 12:32; 182A4:20–23; 5:13–14; 6:19–22; 7:15–16; 8:17–19; 9:12–13, 31–32; 10:18–20; 11:9–10; 12:14–16; 184A4:14; 5:10–11; 6:8; 7:11; 8:5; 9:14; 188A3:23–26; 4:19; 5:16; 188B4:7–8, 15; 189A3:28–29; 4:13; 5:26–28; 6:32–34; 7:28–30; 192A7:5–6; 194A3:10–11; 4:14; 5:11–13; 6:9–10; 7:17–22; 8:12–14; 9:10–12; 194B2:1–31; 198A3:23–25; 4:20–21; 5:21–22; 6:18–20; 7:18–19; 8:16–17; 9:22–23; 10:11–12; 199A8:9–10; 9:6–7; 10:10–11; 11:17–18; 12:18–19; 13:15–16; 14:12–13; 15:8; 202A3:10; 4:9–10; 5:9–10; 6:10; 7:14; 8:18–19; 9:15; 10:13–14; 11:12; 12:12–13; 13:11; 208A3:15–17; 4:14–15; 5:10–12; 6:17–19; 7:15–18; 8:17–20; 210A1:23; 3:83–84
- bottom water, 116B16:189–191; 120B(2)34:617; 36:649; 121B1:19; 2:51–52
- Brunhes/Matuyama boundary extinction, 108B3:114
- bryozoan assemblages, 182A7:15; 9:13; 10:18–19
- cadmium/calcium ratio, 115B32:612, 616, 618
- calcitic recrystallization, 117A10:263
- Campanian, 174AXS_A6:52, 100
- Campanian–Maastrichtian interval, 101B2:50
- Car Nicobar fauna, 115A7:472; 8:601
- carbon isotopes, 105B9:125; 107B26:411; 108B11:157, 162–163; 117B17:295–296; 19:337; 120B(2)44:841; 46:873; 56:1018; 121B1:4, 16, 19, 21; 40:888; 165B17:268–269; 183B7:6
- carbon vs. oxygen isotopes, 121B1:20
- carbonate compensation depth, 114A6:171–172
- carbonate mass accumulation rate, 154B8:397, 400–401, 404; 9:412–430
- carbonates, 105B9:124, 126; 119B31:616, 620; 121B1:51; 2:51
- Carpathian assemblages, 123B13:246, 250
- Cenomanian, 174AXS_A6:52, 101
- Cenomanian–Turonian, 174AXS_A(summary):31
- Cenozoic, 103A9:240–242; 116B16:191; 149B9:217–239; 174AXS_A5:44–45, 81–82; 207A1:64
- changes, 166A9:246
- characteristic assemblages, 117B3:55
- chronology, 120B(2)44:847–848
- chronostratigraphy, 123B14:283
- circulation patterns, 120B(2)44:839–840
- clay, 103B21:349–377; 22:360
- Cornaglia Terrace, 107B28:437; 29:464
- correlation, 105B36:712–717; 115A7:472
- corrosive water effects, 121B2:51
- counts, 130B19:347
- Cretaceous, 116B16:191, 203; 143B10:137–139; 174AXS_A5:45
- Cretaceous–Cenozoic interval, 129B12–13:229–248
- Cretaceous–Paleogene interval, 144B49:873–885; 149B8:203–216
- Cretaceous/Tertiary boundary, 119B25:455; 47:857–858; 120B(2)54:969; 121B1:5–13, 16, 19; 37:731; 159B31:403; 174AXS_A5:44–45, 85–88
- Cretaceous–Tertiary interval, 129B12:232
- Cuisian, 115A12:925
- Danian, 119B25:457
- dark–light cycles, 127/128B(1)32:568
- deep- and bottom water stratification, 115B20:336, 340–341, 347
- deepwater associations, 121B2:43, 50; 125B4:74
- deposition, 123B13:245–246; 128A5:354
- depths, 121B1:19, 21; 157B17:298–299
- diagenesis, 105B9:130
- dissolution, 115A8:601; 9:668
- distribution, 127/128B(1)12:208; 146A(1)4:75; 5:161–162; 6:255; 7:325; 149A6:180; 161B15:211; 171B_A6:275; 177A3:53–54; 4:68–69; 5:79–82; 6:65–66; 7:58–59; 8:85–86; 9:62; 199A8:46; 10:49; 11:98–99; 12:104–105; 13:72–73; 202A8:92–93; 198A3:125; 4:82–83; 5:85–88; 6:74–76; 7:68–71; 8:67–70; 9:98–99; 10:28; 210A3:336
- diversity, 107A8:426; 120B(1)23:395; (2)34:613; 121B1:9; 175A3:520; 4:520; 5:520; 6:520; 7:520; 9:520; 10:520; 11:520; 12:520; 13:520
- drift sequence, 105B37:739
- effects of Indian Deepwater formation, 115B20:336
- Eirik Ridge, 105B37:745
- Eocene, 115B21:383; 150X_B16:207–228; 17:231–233; 174AXS_A1:30; 2:69–70; 6:50–51, 96–97; 197B2:1–4; 210B12:1–8
- Eocene–Miocene interval, 117B3:57
- Eocene/Oligocene boundary, 114A6:173; 115A7:473; 119A7:251; 119B31:613–615, 619–620; 38:710–712; 125B4:76–77
- Eocene/Paleocene boundary, 121A6:129
- Eocene–Pleistocene interval, 101B2:53; 121B2:32
- extinction, 198A5:19; 198B3:11–12
- faunal analysis, 121A8:204; 121B1:6, 9–13, 16; 2:38–39, 43, 59–61, 69–70
- flysch-type assemblages, 105B36:715
- frequency curves, 107B28:434–436, 439–441, 444–446; 161B15:211
- glaciation, 120B(1)12:174
- Grand Banks, 105B36:710
- hiatuses, 105B36:708; 37:733
- high-frequency signal, 120B(2)45:857

- ice sheets, 120B(2)56:1004
ice volume effect, 117B17:294
index faunas, 115B20:333, 339
Indian Ocean, 120B(2)62:1081; 121A7:178; 8:204;
11:320; 12:385
infaunal/epifaunal index, 115B20:318, 330–331, 343,
346; 31:595
insoluble residues, 115B32:618
isotopes, 108B11:162; 114B23:411–417; 24:452–454;
25:467–468; 27:486–487; 121B11:242–245;
123B3:84; 146B(2)2:19–27
Japan Basin, 127/128B(1)12:208
Japan Sea, 127/128B(1)22:365; (2)76:1208
Jurassic biostratigraphy, 149B7:193–201
Labrador margin, 105B36:710, 716–721; 37:744;
50:940
lag deposits, 117B3:57, 61
laminated sediments, 127/128B(1)31:551
large shallow-water species, 115B21:381–387
larger foraminifer biozones, 115B21:385
Late Cretaceous, 174AXS_A(summary):30
late Paleocene thermal maximum, 165A4:206
Leg 128, 128A1:30
Leg 129, 129B6:160
limestone, 103B21:358
lithology, 116B18:217, 222–232, 235–236;
133A(1)15:625; 166A8:177–178; 9:238–241;
10:295–298, 303; 11:351–355; 174AXS_A2:29;
180A8:7–8; 12:18–20; 181A1:17–18; 183A5:4–5;
194A3:5–7; 4:7–10; 5:3–7; 6:5; 7:6–7, 10–15;
210A3:26–28
Little Bahama Bank, 101A6:128–130
long stratigraphic ranges, 119A13:487; 119B31:622
Lower Cretaceous, 143B32:537–564; 159B28:347–359
Maastrichtian, 174AXS_A6:51–52, 98
Maastrichtian–Eocene interval, 121B1:5–7, 10–11
macrotrubidite, 103B31:517–519
magnetostratigraphy, 117B5:129–130
Marssonella association, 123B14:283–284; 39:747
mass accumulation rates, 105B37:740; 160B19:231–
234, 237, 240
Mesozoic, 103A9:241–243
Messinian, 161B42:537
microfossils, 104A4:129, 147–152; 104B37:746;
39:781–782
mid-bathyal water depth, 119B31:615
mid-latitude to tropical-subtropical transition,
121A11:376
middle Eocene, 159B33:433–444
middle–upper Eocene range chart, 192A5:113
Midway-type fauna, 121B1:21
migration, 120B(2)34:605
Miocene, 101B2:50, 54–55; 115A7:472; 115B20:322,
342–348, 358–360; 31:593–595; 119B31:620;
150B11:221; 189B13:1–12
Miocene–Holocene interval, 101B5:50
Miocene–Pleistocene interval, 101B2:51; 115B20:370–
372
Miocene/Pliocene boundary, 117B3:57
Miocene–Pliocene interval, 115B20:357, 361, 373–
376; 117B3:61, 81–83
moderate and variable energy, 103B6:67
modern associations, 181B1:20–21
Neogene, 101B2:50–51; 115B20:324–329, 352–356,
362–366; 31:593; 121B2:50; 198A3:124
Nepalese assemblages, 123B13:246–247
neritic environment, 117A16:519; 121A11:314–315
occurrence, 105B30:568, 572–580; 37:741;
125B37:617; 141A7:180; 8:258–259; 9:321;
10:369; 174AXS_A3:78–79
oceanic zonal scheme, 103B21:360
Oligocene, 101B2:55; 115B20:320–325, 337, 340–342;
199B8:1–26
Oligocene/Miocene boundary, 119A13:487;
119B31:613, 620; 199B19:1–13
Oligocene–Miocene interval, 115B20:321, 328–329;
150X_B1:7
Oligocene–Pleistocene interval, 101B8:48–52;
121B2:32–52
Oligocene–Pliocene interval, 115B20:329–336
Ontong Java Plateau, 130A2:31
open marine and quiet environments, 103B6:67
ornamentation, 115B31:591
outer perimeter ridges, 144B15:301
oxic proto-North Indian Intermediate Water fauna,
115B20:334
oxygen isotopes, 107B23:374; 26:412; 115B20:318,
322; 31:596–604; 117B17:292–295, 299–302;
19:323–340; 119B6:78, 120; 120B(2)30:541–
543; 34:617; 44:841; 45:857; 46:873; 56:1003;
121B1:4, 19; 2:50–52; 8:214, 218; 40:886–888;
124B28:376; 127/128B(1)26:443–444;
138B15:337–355; 27:611, 613; 175B(synthe-
sis):85; 177B9:1–26; 14:8; 178B(synthesis):40;
198A1:10; 202B3:1–15
oxygen level relationship, 115B20:330
oxygen minimum zone, 115A10:855
oxygenation, 115B20:331–336, 346–347; 127/
128B(2)77:1221; 128A4:166
packstone, 103B7:83
paleobathymetry, 107B29:471; 125B4:76–77; 127/
128B(2)76:1201; 133B6:75–92; 150X_B15:199;
208A7:46; 8:46
paleobiogeography, 144B50:887–893
paleoceanography, 104A4:129, 148–152; 104B37:746,
749, 753; 107B29:471–472; 181B1:20–21
Paleocene, 121B1:3, 19, 21; 150X_B19:267–275;
174AXS_A6:51
Paleocene and Late Cretaceous, 181A8:111
Paleocene/Eocene boundary, 114A6:172; 114B27:482,
484, 487; 121A13:487; 121B1:5; 199A1:25–26;
14:8; 199B18:1–12
Paleocene–Eocene interval, 114B27:485–490;
150X_B23:307–313; 199B7:1–34
Paleocene/Eocene Thermal Maximum, 181B1:19–20;
198B1:11; 8:20
paleoclimatology, 101B2:51; 115B20:318;
145B18:265–281
paleodepth, 123A5:294; 127/128B(1)12:208;
(2)77:1220–1221; 128A4:166; 150B5:73–90;
189A6:92

- paleoecology, 105B37:741–746; 144B47:821–829;
180A1:10
- paleoenvironment, 101B2:51–54; 104A4:129–130,
148–152; 5:476, 478; 6:632; 104B37:746;
107B29:468–471; 114A5:117; 6:198; 7:305, 306;
8:411; 9:514–515; 115B20:317–318, 345–346;
31:595; 119B31:616, 619–622; 123A4:129;
192A4:13; 5:9–11; 6:14–15; 7:6; 194B2:9–10
- Paleogene, 121A13:486–487; 199B1:7–8
- partitioning, 115B20:344–345
- percentage, 130A7:245; 9:406; 149B9:221–233;
178B7:27–28
- phosphorite, 117A14:452
- photograph, 188A3:100; 194A4:43; 5:42, 44; 9:36
- photomicrograph, 160B32:407; 33:424; 180A10:34;
12:81, 83; 194A4:39, 46, 51, 54–57; 5:53; 7:32,
34, 38; 9:37; 194B2:16–29; 198B12:7;
199A11:50; 202A7:47; 210A3:149–151
- Pleistocene, 101B2:54; 115B31:594; 116A4:55;
117B3:61; 159B44:605–610; 177B14:21–23
- Pliocene, 114A6:172; 115B20:322, 344–345;
116A4:55; 116B18:216–217; 160B2:18, 20;
180A1:16
- Pliocene/Pleistocene boundary, 117B5:128–129
- Pliocene–Pleistocene interval, 117A4:49; 117B3:61,
84; 188B13:12–13
- postrift sedimentation, 210B1:31
- power spectra, 177B(synthesis):51
- presence, 183B7:27–28
- preservation, 117A14:452; 19:595–596;
120B(2)34:613; 36:651; 121A12:375; 127/
128B(1)22:366
- productivity, 130B44:734–736; 175A17:518–519, 523;
175B(synthesis):31–32, 38–40, 88, 95
- proto-Antarctic Bottom Water fauna, 115B20:343–344
- proto-Antarctic Intermediate Water fauna,
115B20:334
- proto-Indian Bottom Water fauna, 115B21:345
- proto-Indian Deep Water fauna, 115B20:344
- provincialism, 120B(2)23:393
- pyritization, 117A10:263
- radiolarian claystones, 123B1:17
- radiolarian-nannofossil correlation, 119B28:530
- RANking and SCaling (RASC) biozones, 105B36:711
- reference list and taxonomy, 178B7:19–21
- regional zonation comparison, 105B36:710–716
- reworking, 101B2:48, 50; 114A6:171; 11:645;
116B16:191–199
- saline water event, 121B2:52
- samples, 171B_A3:69; 4:129; 5:195; 7:329
- sand fauna, 123B13:245
- Sardinian margin, 107B26:407–408; 28:432, 442;
29:462–465
- sea level changes, 101B2:51–55
- sediment/water interface, 119A8:304; 119B31:635
- sedimentation rates, 191A4:26
- sediments, 101A9:396; 11:443; 104A6:632;
160B19:231, 233, 236, 239
- Site 261, 123B13:247
- Site 639, 103A10:421–422; 103B6:59
- Site 643, 104A2:39; 5:477–478, 482–483; 104B37:757–
762
- Site 645, 105A4:93, 96; 105B27:486; 30:564, 566
- Site 646, 105B30:565; 37:749–752
- Site 647, 105A6:700; 105B10:143; 30:567
- Site 657, 108A2:41
- Site 658, 108A3:118; 108B3:113
- Site 659, 108A4:232; 108B3:113
- Site 660, 108A5:339
- Site 661, 108A6:419
- Site 662, 108A7:495
- Site 663, 108A8:564
- Site 664, 108A9:628
- Site 665, 108A10:746
- Site 666, 108A11:797
- Site 667, 108A12:842
- Site 668, 108A13:935
- Site 709, 115B32:611, 614
- Site 711, 115A9:668–669
- Site 714, 115A11:851–852; 115B20:323
- Site 717, 116A4:52, 55–56
- Site 719, 116A6:163–164
- Site 720, 117A8:165; 117B5:129–130
- Site 721, 117A9:213–214; 117B5:130
- Site 722, 117A10:262–263; 117B5:130
- Site 723, 117A19:330–331; 117B5:130–131
- Site 724, 117A12:392; 117B5:130–131
- Site 725, 117B3:57; 5:130–131
- Site 726, 117B3:57; 5:130–131
- Site 727, 117B5:130–131
- Site 728, 117B3:57, 61; 5:130–131
- Site 729, 117A17:551–552; 5:130–131
- Site 730, 117B5:130–131
- Site 731, 117B5:130
- Site 747, 120A3:59–64; 6:110–111; 120B(1)23:395;
(2)34:603; 36:649
- Site 748, 120A13:184–190, 194–195; 120B(1)23:399;
(2)34:603; 36:649; 44:841
- Site 749, 120A8:250–252
- Site 750, 120A9:301–302; 120B(1)23:401
- Site 751, 120A10:351; 120B(2)36:649; 46:867–880
- Site 752, 121A2:43–45; 3:129; 121B36:722
- Site 753, 121A7:178–179
- Site 754, 121A8:204–205; 121B2:38
- Site 755, 121A9:246
- Site 756, 121A10:272–273; 121B2:38
- Site 757, 121A11:320
- Site 758, 121A12:385–386
- Site 765, 123A5:120–122; 123B5:135
- Site 766, 123A14:294–295; 15:342; 123B14:271–273,
278–282
- Site 786, 125B4:73
- Site 794, 127A4:101; 127/128B(1)12:210–215;
29:495–496, 500, 506–507, 516–517
- Site 795, 127A5:197–198; 127/128B(1)29:500–505,
518–521
- Site 796, 127A6:273–274
- Site 797, 127A7:355–356; 127/128B(1)12:210–215;
29:502–504, 508–515, 522–528
- Site 798, 127/128B(1)22:367–369, 373–375, 382;
26:443; 128A4:166

- Site 799, 127/128B(1)22:370–373, 376–378;
128A5:311–312
- Site 803, 130A5:124
- Site 805, 130A7:241
- Site 1262, 208A3:80–83
- Site 1263, 208A4:79
- Site 1264, 208A5:63–64
- Site 1265, 208A6:97
- Site 1266, 208A7:72
- Site 1267, 208A8:70
- Sites 709 and 713 comparison, 115A10:745
- Sites 738 and 744 comparison, 119A13:487;
119B31:615, 620
- size sorting, 123A4:121
- sources, 116B1:203–204
- Southern Hemisphere, 120B(1)23:393–394
- species diversity, 121B2:58
- spectral analysis, 175B19:19
- stable isotopes, 105B9:127–129; 107B26:411–413;
115B27:519–524, 527; 31:592, 595–597;
119B38:698–704, 710; 52:936–938;
130B15:269–279; 24:411–421; 138B15:337–355;
17:371–412; 43:839–854; 165B17:262–263;
167B8:141–150; 11:163–181; 32:358–359;
171B_B5:1–14; 174AX_A1:41; 181B10:1–20;
184B3:1–8; 4:1–8; 5:1–12; 198B12:1–19;
199B17:1–12; 21:29; 202B4:1–69; 208A1:56, 58
- standardized total number, 130B29:502
- Straits of Florida, 101A5:63–64
- stratigraphy, 121B1:6–9, 17; 2:39, 54; 199A13:41
- strontium isotopes, 119B40:732–736
- study methods, 104A4:129, 148–152; 104B37:745–
746
- subsidence, 180B(synthesis):10
- summary, 104A4:129, 142–144, 148–152;
104B37:746–749, 756–762
- Texaco Blue H-28 well, 105B37:741–743
- three-stage species diversity, 121B2:32
- Tithonian, 149B47:722
- turbidites, 117B5:130; 124B11:161–162; 32:435–437,
441; 165A3:67
- turbidity currents, 157B17:307–309
- Turonian, 174AXS_A6:52, 101
- Upper Cretaceous, 159B33:434–411; 183B2:1–28
- upper Eocene, 150X_B18:245–247; 189B1:12
- upper Quaternary, 175B19:1–19
- upwelling, 115B31:603; 119A5:156
- varimax factors, 107B30:487; 150B5:71–90; 121B1:17;
166B12:134–135
- Velasco-type fauna, 121B1:9, 19, 21
- vertical ranges, 119B31:616–617
- volcanic ash layer, 121B1:13
- vs. age, 145B17:260, 277–281; 21:319–321;
167B14:206; 175B19:14; 178B15:10; 202A1:111;
202B4:25, 27, 35
- vs. depth, 127/128B(1)22:379; 133B20:284;
144B14:281; 145B8:150–151; 17:259; 18:271–
277, 281; 146B(2)22:302; 175A4:95; 5:125;
6:161; 7:185; 9:248; 10:287–288; 12:358–359;
13:403–404; 177A1:53; 182B9:13; 184A5:45;
189A3:80; 4:33; 5:75; 199B8:9; 202A4:38; 5:35–
36; 6:39; 7:51; 8:59; 9:57; 10:52; 11:47; 12:57;
13:46
- vs. soil color change, 115B31:590
- vs. time, 121A11:315
- warm saline bottom water model, 121B1:21
- water paleodepth, 121A2:43, 45; 6:121, 123; 11:319–
320
- water-mass relationship, 121B2:43, 50
- Weddell Sea-Heard Island, 119B31:615–616
- Yamato Basin, 127/128B(1)12:189, 208
- zonation, 104A4:129, 148–152; 5:476; 6:633;
104B37:746, 763; 39:802; 105A2:30–33;
107B28:449; 114A6:196; 7:302; 8:409; 9:512;
11:685; 123A3:44; 127/128B(1)22:383; 29:517,
521, 524; 208A4:49; 5:39; 6:57
- See also* bolivinidae; buliminids; caucasinids; Cibici-
dae; cuneolinids; discocyclinids; discorbids; Eg-
gerellidae; elphidiids; eponidids; lagenids;
lepidocyclinids; mass accumulation rates; mili-
olids; Miliolina; Miliolines; Nodosariida; num-
mulitids; orbitoidids; rotaliids; siphoninids;
trochamminids; uvigerinids; valvulinids; ve-
lasco-type assemblages
- foraminifers, benthic/planktonic ratio
- Paleocene/Eocene Thermal Maximum, 198B8:5–12,
20–36
- vs. age, 175B19:15
- zonation, 121A6:128; 9:246; 12:383–384; 13:477–478,
484; 121B1:16; 2:38; 3:81–85
- foraminifers, biserial planktonic
- Cenozoic, 130B12:231–244
- distribution, 130B12:236–240
- first and last occurrences, 130B12:240
- lower Miocene, 208B1:18
- foraminifers, calcareous
- dissolution, 178B7:42
- occurrence, 104A4:146
- photograph, 141A8:247
- foraminifers, calcareous benthic
- Argo Abyssal Plain-Exmouth Plateau, 123A4:120, 130;
123B1:9
- Baffin Bay, 105B37:734
- foraminifers, cold water, abundance, 184B11:16
- foraminifers, cool-water benthic, 107A1:15
- foraminifers, deep-dwelling planktonic, 202B12:50–51
- foraminifers, deep-sea benthic, 181B1:19–20, 95
- foraminifers, deepwater, abundance, 184B11:17
- foraminifers, deepwater agglutinated
- biostratigraphy, 129B13:247–264
- Celebes Sea, 124B2:13, 19
- Cretaceous–Paleogene interval, 149B8:203–216
- Mesozoic, 159B35:488
- paleoenvironment, 159B30:379–381; 31:389–411
- Site 802, 129B12:229, 235
- foraminifers, deepwater agglutinated benthic
- Argo Abyssal Plain-Exmouth Plateau region,
123B13:239, 244–250; 39:746
- Celebes and Sulu seas, 124B12:171–180
- Mascarene Plateau, 115A5:251; 115B20:341–342
- foraminifers, encrusting, abundance, 144B6:130; 9:178–
186

- foraminifers, finely agglutinated benthic, 105B37:734, 743
- foraminifers, hyaline, lithology, 194B5:11
- foraminifers, larger
- Bikini and Eniwetok atolls, 129B12:240
 - bioclast facies, 133B21:292–293, 297–298
 - biostratigraphy, 133A(1)4:97–99; 5:153; 6:186–187; 7:213; 8:263–264; 9:313; 10:367–368; 18:809; 133B3:39–49; 4:51–66; 135A(1)11:614; 135B15:231–243; 144A7:273; 8:298–299; 144B6:127–139
 - Cretaceous, 143B9:138–139; 144B9:171–196
 - photomicrograph, 133B4:62–66
- foraminifers, neritic, volcanoclastics, 135B52:837
- foraminifers, nonreworked benthic, 116B16:192–199
- foraminifers, planispiral, abundance, 144B9:174
- foraminifers, planktonic
- abundance, 101A1:17–18; 104A4:124–125, 133; 6:631, 635–636; 104B34:691–692; 108A1:22; 113A5:109–112; 6:209–213; 7:307; 11:632; 113B22:320–321; 24:359; 31:490, 492, 495; 33:547; 114A6:168; 7:275; 11:644; 114B4:52–53, 60–62; 11:219–226, 229–230; 12:238–244, 248, 251; 13:284–288, 299–302; 33:618, 640–641; 41:756–757; 115B16:191, 200–203; 30:584; 116A2:20–21; 117A12:411; 117B13:260–261; 14:267, 273–274; 121B4:126–127; 124A10:145; 11:224–225; 13:352; 14:405; 124B2:12–25; 11:159–169; 15:218, 220; 130B5:77; 29:508; 135A(1)4:115–116; 5:206–207; 6:260–261; 7:306–308; 8:360; 9:420–422; 10:525–526; 11:606–614; 135B14:207–229; 54:861–877; 138B9:171–172; 25:561–575, 582–583; 144B6:130; 9:174–187; 167B2:45–54; 175A4:94; 9:246; 10:285; 11:319; 175B1:11; 181A3:89; 4:59–60; 6:120; 7:140–141; 8:109–110; 181B1:96, 98; 182B3:35, 38; 184B11:1–21; 198B8:25–28
 - abundance and preservation, 127/128B(1)12:193, 201, 221; 27:460; (2)77:1220; 128A1:30; 4:165–166; 5:310–311; 161A4:69; 5:133; 6:200, 202; 7:311, 363; 9:397; 161B15:209
 - age, 104A6:631; 105B18:296; 108B5:76, 80, 83, 87; 113B31:498; 114B10:202, 211–213; 11:222–223; 12:258–261; 127/128B(2)83:1335; 198A3:84
 - Albian–Cenomanian interval, 101B30:479
 - Antarctic surface water influence, 119B24:438–439
 - Aptian, 192A3:14
 - Aptian/Albian boundary, 123A55:294
 - assemblages, 114A8:382; 10:565; 11:644; 114B10:202–211; 11:218; 12:240–241, 253–257; 13:290; 127/128B(1)12:188–189; 27:462–463, 466; 128A5:310–311; 129B9:193; 138B25:555–597; 164B34:350; 198B9:20–25
 - Austral Realm correlation, 119B25:455, 459–467
 - backscattered scanning electron microscopy, 127/128B(1)31:553
 - Bahamas location map, 101B1:3
 - basin margins, 161B43:549
 - biochronology, 113B31:497–500; 120B(2)44:847–848; 170B6:18
 - bioevents, 107B26:420–421, 425–426; 41:689, 692; 108A1:20; 117B5:135, 137, 140–145; 123A15:302; 138A(1)9:142; (2)14:762; 16:918; 17:983; 189A3:132
 - biohorizons, 171B_A3:62
 - biostratigraphic datums, 108B5:91; 115A4:148; 5:263; 6:417; 7:483; 10:751; 11:859; 12:928; 117A9:212; 117B24:436; 25:455; 119A6:178; 121A7:177; 11:316; 17:382; 150A6:81; 165A3:65; 4:157; 5:251; 6:310; 165B17:257; 171B_A4:122, 126; 5:191; 6:267; 7:329; 175A13:401; 14:440; 15:467; 189A4:52; 5:126; 6:143; 7:119; 199A11:97; 207A4:83, 97–98; 5:92, 102–103; 6:84, 96; 7:87, 97–98; 8:82; 208A3:67; 4:77; 5:60; 6:95; 7:70; 8:68
 - biostratigraphic ranges, 167A(1)4:70–71; 5:94–95; 6:136; 7:162; 8:186; 9:228; 10:249; 11:294; 12:322; 13:361; 14:397; 15:440; 16:469
 - biostratigraphy, 105B18:288, 292, 297–298; 50:937–938; 107A6:149; 7:307–310; 8:424–425, 481; 10:767–768; 11:890–891; 12:961–962; 107B24:387–388; 37:614–615; 41:684–685, 689–691; 108B5:71–76; 16:283–287; 113A5:110–111; 6:217–218; 7:311; 11:633–635; 113B31:490–496; 34:551–552; 114A5:103–104; 6:170–173; 7:276; 8:382–383; 9:495–496; 10:564–565; 11:644; 12:272–273; 115A2:27; 4:135–136; 5:249–250; 7:469–472; 8:600–601; 9:668; 10:744–745; 11:854; 12:924; 13:1010; 115B19:278, 283–284, 289–290, 300–303; 117A11:320–330; 15:472; 17:551; 117B5:141, 143; 119A5:133; 6:174–179; 7:247–250; 8:304; 9:356, 368; 10:382–383; 11:413; 12:465; 13:485–486; 14:514; 119B24:428, 431, 435; 46:824; 121B3:85–90; 123A4:119–118; 5:292; 125A6:102; 7:120; 8:152–153; 9:183; 12:277; 13:309; 14:319–320; 129A1:16; 129B12:231; 130A9:402–405; 132B2:15–36; 134A7:109–110; 8:150–152; 9:195, 197; 10:274; 11:334; 12:409–411; 13:499–500; 134B11:247–263; 138A(1)9:134–135, 138–139; (2)13:687; 16:903, 906; 17:983; 18:1030–1031; 19:1069–1070; 139B2:39–58; 141A6:90–92; 7:179; 8:255–258; 9:317–318; 10:363; 141B14:193–211; 143A7:210; 143B7:106–107; 144A3:56–60; 4:121–123; 5:170–173; 6:227; 7:271–273; 8:298; 10:357, 359; 11:425, 445; 144B2:21–59; 145B8:141–143, 146–147; 9:157–170; 146A(1)4:71; 5:156, 159, 162; 6:255; 7:322–323; (2)2:45–46; 149B45:693–694; 150A6:79–80; 7:149–151; 8:222–223; 9:275–276; 10:321–322; 150X_A1:24–25; 156A6:130–131; 7:218; 157A4:73–75; 5:118, 121; 6:151–152; 7:346–347; 8:409–412; 9:450, 453; 10:519–520; 157B10:115–124; 159A5:90–92; 6:180–182; 7:236–237; 8:272–273; 160A4:61–62; 5:101–102; 6:134–135; 7:175–176; 8:230–231; 9:302; 10:353; 11:387–390; 12:434–435; 13:457–458; 14:478–479; 160B2:10, 13–14, 17; 10:129–131; 12:156–157; 30:379–394; 161A4:69–72; 5:133; 6:202–204; 7:311–312; 8:363; 9:397–398;

- 161B14:185–195; 15:201, 206; 162A3:68; 4:109;
5:152; 6:186; 7:238–239; 8:268; 9:304; 10:357;
162B1:4–6; 2:19–34; 164B34:344–363;
165A3:64–66; 4:154–158; 5:250–251; 6:311–
313; 7:368; 165B2:19–56; 166A6:86, 88; 7:157;
8:182–183; 9:244; 10:306–308; 11:357;
166B1:3–12; 15:155–166; 167A(1)4:61–63; 5:93,
95, 101; 6:138–139; 7:162; 8:183–185; 9:228–
229; 10:248; 11:291–293; 12:321–322; 13:360–
361; 14:397–398; 15:439; 16:469; 167B2:41–62;
32:367; 170A3:69–70; 4:122–126; 5:166–167;
6:200–201; 7:231–232; 170B1:1–58; 6:3–4;
171B_A4:121–126; 5:190–191; 6:263–266;
7:325–327; 172A3:42–43; 4:95–96; 5:180–181;
6:261; 173A4:77, 79; 6:119; 7:178–179; 8:243–
244; 9:275; 174A_A3:59–63; 4:117–118; 5:166–
167; 174A_B(synthesis):6–7; 174AXS_A1:29–36;
2:35–38; 3:38–39; 175A3:60, 62, 66; 4:93–94;
5:122; 6:158; 7:182–183; 8:207; 9:243–244;
10:285–286; 11:319; 12:354; 13:401; 14:439–
440; 15:467–468; 177A3:7–8; 4:10–11; 5:10–11;
6:7–8; 7:7–8; 8:11; 9:9; 178A9:51; 180A5:25;
6:45–47; 7:18–19; 8:27–28; 9:32–33; 10:14–15;
12:31–32; 180B4:1–13; 182A1:17, 20–23, 26–31,
34, 37, 40; 4:16–20, 52–53; 5:11–13; 6:16–19,
54; 7:13–15, 39–40; 8:14–17, 41; 9:10–12, 31–
32; 10:46–47; 11:8–9, 23; 12:11–13, 35;
182B1:13; 3:1–67; 4:1–28; 5:1–16; 183A4:8–9;
5:10–12; 6:17–21; 7:11–13; 8:9–12; 184A4:13–
14; 5:10; 6:7–8; 7:10–11; 8:5; 9:13–14;
188A3:21–23; 4:18–19; 5:15–16; 188B4:4–6, 14–
15; 8:1–43; 9:1–26; 189A3:25–28; 4:11–12; 5:22–
26; 6:29–32; 7:26–28; 192A3:21–25; 5:8–11; 7:5–
6; 194A3:9–10; 4:12–14; 5:10–11; 6:8–9; 8:10–
11; 9:9–10; 198A3:20–23; 4:19–20; 5:17–20;
6:15–18; 7:15–18; 8:14–15; 9:20–21; 10:10–11;
198B4:1–56; 5:1–15; 199A8:8–9; 10:10; 11:14–
17; 12:16–18; 13:13–15; 14:12; 202A3:9–10; 4:9;
5:9; 6:9–10; 7:13–14; 8:16–18; 9:14–15; 10:12–
13; 11:11; 12:12; 13:10–11; 207A4:13–16; 5:14–
17; 6:15–20; 7:13–17; 8:14–18; 208A3:12–15;
4:11–13; 5:9–10; 6:13–17; 7:12–15; 8:13–17;
210A3:80–83; 210B13:1–53
- Broken Ridge fauna, 121A10:270
Brunhes dissolution cycle, 121B4:133
Brunhes/Matuyama boundary, 114B11:224
calcareous chalk, 123B6:147
Campanian, 101B30:477–478; 174AXS_A6:50, 94
Campanian early/late boundary, 114B13:289
Campanian/Maastrichtian boundary, 114A5:103;
114B12:260–261; 13:284, 290
Campanian–Miocene interval, 173B9:1–13
carbon burial, 113B47:843–844
carbon isotopes, 105B9:125; 113B47:839–841;
48:856–862; 53:943, 947; 117B17:295–296;
18:337; 120B(2)30:543; 44:842; 46:875;
56:1018; 130B23:397–409
carbonate compensation depth, 114A12:273
carbonates, 121A1:510; 121B3:79–88; 4:134; 25:491;
144B13:258–261
Cenomanian, 174AXS_A6:50, 95
Cenomanian–Santonian interval, 101B30:478–479
Cenozoic, 103A9:240–242; 125A10:205, 207;
141B30:373–377; 159B34:445–479;
174AXS_A5:42–43, 77–80; 6:48–49; 192A3:154–
155; 6:106
census data, 146B(2)21:286–287; 175B7:17–22
checklist, 184A4:93; 5:82; 6:57; 7:86–87; 8:39; 9:105–
107
chemistry as proxy for thermocline, 159B40:551–552
chronostratigraphy, 105B18:288, 295–298; 33:619–
620; 107B22:359; 113B34:554–558;
123B14:282–283
coarse fraction association, 121B4:130
coiling direction, 127/128B(1)12:188, 193, 208–215,
218–219; 27:459, 463; (2)77:1220; 128A4:165;
5:310–311; 164B34:350
cold- and warm-water fluctuations, 108A8:562
cool-water influence, 108B5:76
correlation, 107A8:422; 107B43:710; 114B18:327–
331; 138B34:703; 162B13:193
Cretaceous, 119B25:452–455; 120B(1)22:374;
121B3:92, 96, 106; 123B38:721; 130B5:63–84;
143B2:15–30; 144B8:157–169; 159B27:335–345;
174AXS_A5:43–44; 192A3:156; 6:107
Cretaceous–Cenozoic interval, 144B5:119–120
Cretaceous–Paleogene interval, 144B49:873–885
Cretaceous–Quaternary interval, 149B6:165–192
Cretaceous/Tertiary boundary, 114A5:103; 7:282;
114B12:235; 119A7:250; 119B25:455–460;
47:857–858; 120B(2)54:961, 964; 121A6:128;
11:376, 384; 13:484; 121B1:13; 130B14:262–
266; 45:745; 174AXS_A5:43–44, 83–84; 6:49;
207B1:9–10
currents, 175A1:24
cycles, 105B33:634–635; 107A6:143; 108B5:75;
117B14:268–269; 121B4:130; 127/
128B(1)32:568, 584; 184B11:19
Danian ranges, 119B25:453; 174AXS_A6:93
dating, 113B22:319–320
depositional environment, 121A8:205
depth, 105A3:94–95; 5:445, 449–450; 105B35:698,
704–705; 113B46:820; 130B18:323–324;
167B2:55–58
diachroneity, 108B5:76; 114A8:383
diagenesis, 160B45:581, 583
dissolution, 107A11:891; 108B5:73, 80–81;
115B33:622–625; 121B4:130–133; 127/
128B(1)27:465; 128A4:165; 166B12:136
distribution, 103A8:140–142; 104B34:684–691;
108B5:77–81, 84–91; 113B22:320; 31:492;
114B11:219–222; 146A(1)4:71; 5:157–160;
6:254; 7:322, 326; 149A4:67–71; 5:130; 6:180;
7:228–231; 171B_A3:63–67; 4:123–128; 5:192–
194; 6:268–272; 7:328; 173A4:84; 6:123; 7:181;
8:243; 173B9:8–13; 177A3:52; 4:66–67; 5:76–78;
6:63–64; 7:56–57; 8:82–84; 9:61; 184B8:38–41;
186B7:15–20; 192A7:56; 195A3:154; 199A8:45;
202A8:90–91; 9:90–91; 11:72; 12:89–92; 13:68;
207A4:82, 86–90; 5:91, 95–97; 6:83, 87–90;
7:86, 90; 8:81, 84
diversity, 104A4:126

- dominant species, 175A3:67; 4:94; 5:123; 6:160;
 7:183; 12:355
 early late Paleocene event, 198B9:1–29
 early–mid Pleistocene, 177B14:9–15
 electron microscopy, 160B28:357, 361
 Emilian/Sicilian boundary, 107A8:424
 Eocene, 101B3:71; 114A6:170; 114B12:237, 241, 259;
 150B13:244–245; 25:430; 174AXS_A2:67–68;
 6:91–92
 Eocene–Holocene interval, 119B24:429
 Eocene–Miocene interval, 130B9:118; 150B28:455–
 460
 Eocene/Oligocene boundary, 114A10:565;
 114B12:250, 256–257, 260–261; 115A5:250;
 7:472; 119A7:250; 13:486; 119B24:438; 38:710–
 712; 121A10:271
 Eocene–Oligocene interval, 115B19:298; 121A7:178;
 11:376; 13:476–477; 121B3:89, 100–101;
 130B9:117; 208A1:112
 Eocene–Pliocene unconformity, 123A5:342
 extinction, 113B47:844
 Exuma Sound, 101A9:344–345, 348; 10:396; 11:443–
 444
 factor analysis, 117B14:268–271
 fauna, 117B5:138; 127/128B(1)27:459–462
 first and last occurrences, 113B22:320; 51:911;
 157B9:105; 184B8:35
 fragmentation, 117B18:313–314; 177B(synthesis):53
 Gauss/Gilbert boundary, 114B11:223
 geochemistry, 144B57:993–995
 ghosts, 130B5:72
 glacial terminations, 107A6:151
 glauconite fillings, 121A12:383
 gyre-margin fauna, 127/128B(1)27:459
 hardground assemblages, 121A13:477
 hiatuses, 114A5:104
 high-latitude cooling trend, 119B24:439
 Holocene, 101B2:23
 Honshu exposures, 127/128B(1)27:459
 ice sheets, 120B(2)56:1004
 ice volume effect, 117B17:294
 Indian Ocean, 120B(2)62:1081; 121B4:127
 Indo-Pacific species spatial distribution, 121B4:138
 indurated Cretaceous lithologies, 198A3:123
 isotopes, 107B22:349; 108B16:287–288; 114B23:411–
 413; 24:452–454; 25:467–468; 26:475–477;
 121B11:242–245; 146B(2)2:19–27; 167B21:251–
 254; 202B12:5–7
 isotopic and depth stratification, 159B40:541–548
 last appearance, 113B22:320; 51:911
 late Pliocene–Quaternary interval, 181B1:22–23
 latitudinal gradients, 120B(2)55:991
 Leg 127, 127A1:20
 Leg 128, 128A1:30
 light microscope images, 208A6:68
 lithofacies, 143B30:477, 491–492
 lithology, 166A8:177–178; 9:238–242; 10:295–303;
 11:350–355; 180A5:8–9, 13–16; 9:6; 194A3:5–7;
 4:7–10; 5:3–7; 6:3–6; 7:6–7, 10–11; 8:4–9
 Little Bahama Bank, 101A6:126–129; 7:222–223;
 8:275–278
 low-diversity assemblage, 129B12:231
 low-productivity interval, 117A12:389; 121A2:509
 Lower Cretaceous, 198A1:14–15
 lower Eocene, 199A12:102
 lower Miocene, 192A4:11–12
 lowest and highest occurrences, 192A4:118; 5:112
 Maastrichtian, 101B11:477; 114B13:286;
 174AXS_A6:50, 93
 Maastrichtian/Campanian boundary, 121B3:89
 Maastrichtian–Campanian interval, 121A12:384;
 121B3:97
 magnetobiostratigraphy, 117B5:129–130;
 119B25:454; 120B(2)31:552
 Mascarene Plateau, 115A5:237, 242
 mass accumulation rates, 108B5:73; 160B19:231–234,
 237, 240; 180A5:76
 Mediterranean–Atlantic pathways, 107B26:421
 Mesozoic, 103A9:241–243; 123B39:755
 Messinian, 161B43:544–545
 Messinian and Zanclean distribution, 160B2:16, 19
 mid-Cretaceous, 171B_B3:1–12; 207B2:4–9
 mid-latitude temperate faunas, 121A6:128; 7:177;
 11:318; 13:484
 mid-latitude tropical–subtropical transition,
 121A11:376, 384
 middle Miocene, 199A11:96
 middle Pleistocene, 184B11:1–21
 Miocene, 101B1:12–20; 3:69, 74; 108B12:285;
 116A5:55; 117A18:564; 130B18:323–332;
 138B46:895–907; 189B13:1–12
 Miocene/Oligocene boundary, 114A11:644
 Miocene/Pliocene boundary, 107B43:706–707;
 108A6:415; 117A10:262; 121A6:128; 7:178;
 8:202; 11:319; 17:382
 Miocene–Pliocene interval, 101B1:11; 115A11:854;
 180B12:1–5
 Miocene/Quaternary boundary, 114A11:644
 missing zonal markers, 108A12:842
 modern analogs, 161B14:190–193
 monospecific assemblages, 128A4:165
 monsoon, 184A1:12
 morphotype abundances, 161B14:186–189
 nannofossil age correlation, 121A6:121
 Neogene, 101B1:3–45; 30:474–476; 105B18:295, 297;
 108B5:74; 115B45:795–796, 801–827; 123A3:42,
 116–119; 4:246, 293; 123B38:719; 130B10:137–
 178; 16:281–305
 Northeast Providence Channel, 101A13:532–533
 Northwest Providence Channel, 101A12:494–496
 Norwegian Sea, 104B34:693–694
 number vs. magnetic susceptibility, 198B9:13
 occurrence, 105B18:289–294; 125B37:617; 141A6:91;
 7:177; 8:257; 9:320; 10:368; 150X_A1:25;
 174AXS_A3:78–79
 Oligocene, 101B1:19; 114A11:644; 114B12:241;
 119A13:486; 121B3:103; 130B9:113–136
 Oligocene and Miocene, 199A12:98–101
 Oligocene/Miocene boundary, 108A12:842;
 108B16:284; 114B12:257; 115A5:249; 11:854;
 115B19:279, 289; 119A13:486; 119B24:438;
 121A8:203; 10:271; 17:382

- Oligocene–Miocene unconformity, 119A7:250;
119B24:428
- Oligocene–Neogene interval, Site 744, 119B24:437
- Oligocene–Pleistocene interval, 115B19:280
- Oman margin vs. Owen Ridge sites, 117B14:267–268
- oxygen and carbon isotopes, 202B12:49
- oxygen isotopes, 105B33:623–627, 636–637;
113B47:836–839; 48:850–856, 860; 53:942, 946,
948; 115B29:547; 117B17:292–295, 302;
18:311–318; 19:323–340; 20:352; 119B6:78,
120; 120B(2)30:543; 44:842; 46:873; 56:1003;
127/128B(1)26:442–443; 130B22:381–395;
161B39:500–501; 174A_B(synthesis):7–8;
177B9:1–26; 12:1–20; 195B3:25
- oxygen–minimum zone effects, 117A3:39
- paleobiogeography, 113B31:500–501
- paleoceanography, 123B39:742, 753–754;
138B35:749; 157B7:73–82; 170B6:1–28
- Paleocene, 114B12:247
- Paleocene/Eocene boundary, 114B12:236, 260–261;
119A7:250; 119B24:437–438; 121B36:727;
123A14:293; 199A1:25–26; 208A1:60
- Paleocene–Eocene interval, 114B12:242, 247;
119B24:429; 121B3:90–91, 104–105
- Paleocene–middle Eocene interval, 130B8:103–111
- paleoclimatology, 107A6:149; 7:310; 113B48:859–
861; 127/128B(1)27:465–468; 130B20:349–362;
146B(2)21:281–293; 166B2:13–22
- paleoecology, 121B4:133–137; 180A1:11
- paleoenvironment, 104A4:126; 6:631–632;
104B34:690, 692; 107B26:423; 113B22:320–321;
31:501–502; 114A5:104, 118; 6:171, 198; 7:273,
305, 306; 8:411; 9:496; 10:565; 11:644–645;
117A11:332; 121A12:375–376; 123A5:129;
144B15:304–305
- Paleogene, 115B19:277–299, 304–307, 310; 38:720;
121B1:95; 123A1:43; 5:119–120; 14:293;
143B36:581–586
- paleomagnetic correlation, 114A5:109; 6:167; 7:272;
8:379–380; 9:494; 10:564; 11:640–641
- percentages, 188B4:39
- photograph, 144B15:304; 157B12:178; 16:291;
159A6:172; 161B42:533–536; 182A6:47;
194A4:38; 5:35; 199A13:40
- photomicrograph, 160B32:407, 409; 33:424; 38:593;
180A6:94; 8:48; 9:70, 72, 92; 12:62, 68, 75, 81,
83; 185A4:65; 194A4:39, 49, 51, 54, 64; 5:41;
8:30–31; 207A5:50; 210A3:133, 150, 171, 209
- Piacenzian, 107B43:708, 712
- Pleistocene, 101B1:11, 19–22; 138B13:289–319;
150A6:80; 7:151; 8:223; 161B37:469–479
- Pleistocene/Holocene boundary, 107A9:614; 11:890
- Pleistocene–Holocene interval, 101B2:11
- Pleistocene–middle Miocene interval, 101B1:21
- Pleistocene–Pliocene interval, 101B1:11, 24–27
- Pliocene, 101B1:4, 11, 19–23, 31, 36–37; 3:72–73;
160B2:16, 19; 167B5:115–117; 202B13:1–27
- Pliocene/Pleistocene boundary, 107A6:149; 7:307,
309; 8:424; 10:767; 107B9:712; 114B12:260–
261; 116A6:163; 117B5:128; 121A8:201
- Pliocene–Pleistocene interval, 107B43:705–708, 712;
117A4:49; 188B13:12–14
- Pliocene–Quaternary interval, 160B12:158–160
- poor recovery, 101B1:3–4, 11, 18, 31; 3:75
- preferred habitat vs. water depth, 202B12:36
- preservation, 101B1:23–24; 104A4:126; 108B5:75;
113B22:320; 114A5:104; 6:171; 7:273; 9:496;
10:565; 11:645; 13:283–286; 115B30:587;
117A19:595; 117B11:236; 14:268; 119B25:452;
121A8:204; 10:271; 12:375; 128A4:165;
157B10:122–123; 164B34:351; 165A3:66–67;
177A6:8; 182A6:16
- productivity, 117A10:304; 121B4:134, 136
- provincialism, 125B4:73–74
- Q-mode cluster analysis, 127/128B(1)12:188, 193–
200, 208–209, 220, 224
- quantitative analysis, 121B3:79–83
- Quaternary, 101A5:57, 62–63; 101B30:473–475;
130B21:363–379; 138B33:675–693;
161B35:441–455
- radiolarian–nannofossil correlation, 119B28:530
- range chart, 170A3:68–69; 4:124–125; 5:169; 6:204;
7:233; 180A5:121; 6:253–254; 8:130; 9:185–186;
12:185–186; 189A3:133–140; 4:51; 5:127–134;
6:139–142; 7:113–118
- rare specimens, 101B1:18
- ratio of surface- and intermediate-water dwellers to
total assemblage, 170B6:14, 17
- ratio of warm-water dwellers to total assemblage,
170B6:12–16
- recycled Cretaceous taxa, 119B24:428; 25:457–459
- relative abundance, 121B4:126–127; 138B33:688–693
- relative dominance, 174A_A5:166
- resistance species ratio, 121B4:127, 130
- response to global climate changes, 117B13:259
- reworking, 105B18:293; 108B5:76; 114A10:561, 565;
11:644; 114B12:250, 252; 123A4:117, 120;
133B27:395
- salinity gradient effects, 121B4:133–134
- sandstone, 141B35:425
- Santonian, 121A12:384
- Santonian/Campanian boundary, 114B13:283, 289
- sapropels, 161B40:516
- Sardinian margin, 107B26:416–418
- scanning electron microscopy, 198B8:29–36;
202B12:37
- sea level changes, 101B1:27, 31, 36–38
- sea-surface temperature, 108B13:187–206;
117B14:271; 17:296–299, 302; 121B4:133, 137
- sedimentation, 108A3:122; 4:234; 10:750; 12:844–
845; 113B31:501; 121A2:509; 162B12:185–189
- sediments, 160B19:231, 233, 236, 239
- shallow- vs. deep-dwelling species, 121B11:246
- Site 645, 105A3:93, 96; 105B30:564; 32:613–614
- Site 646, 105A5:444, 446
- Site 647, 105B10:143; 30:567; 34:696–700
- Site 650, 107A7:310
- Site 657, 108A2:40–41; 108B5:71–73
- Site 658, 108A7:117–118
- Site 659, 108B5:80
- Site 664, 108B5:80

- Site 667, 108A12:842; 108B5:80
 Site 668, 108A13:935
 Site 689 compared with Site 690, 113B51:906–908
 Site 690 compared with Site 689, 113B51:906–908
 Site 698, 114A5:103
 Site 700, 114A7:273
 Site 709, 115A7:465; 115B32:611, 616
 Site 716, 115B30:584–585; 35:658
 Site 717, 116A5:52, 55–56
 Site 719, 116A6:163
 Site 720, 117B5:129–130
 Site 721, 117B5:130
 Site 722, 117A10:262; 117B5:130
 Site 723, 117A11:330; 117B5:130–131
 Site 724, 117A12:391; 117B5:130–131
 Site 725, 117B5:130–131
 Site 726, 117A14:451; 5:130–131
 Site 727, 117B5:130–131
 Site 728, 117A16:503; 117B5:130–131
 Site 729, 117B5:130–131
 Site 730, 117B5:130–131
 Site 731, 117A19:596; 117B5:130
 Site 747, 120A1:59–64; 5:83; 6:107–110, 150;
 120B(1):1:21; 22:373; (2)35:631
 Site 748, 120A5:83; 7:179–184, 194; 120B(1):1:24;
 (2)35:631; 44:842
 Site 749, 120A8:248–250
 Site 750, 120A5:83; 9:297–301; 120B(1)22:375
 Site 751, 120A10:349–351; 120B(2)35:631
 Site 752, 121A6:128–129; 121B3:93
 Site 753, 121A7:177–178; 121B3:94
 Site 754, 121A8:201–204; 121B3:97
 Site 755, 121A9:246; 121B3:98
 Site 756, 121A10:271–272; 121B3:99–100
 Site 757, 121A11:318–320; 121B3:102
 Site 758, 121A17:382–384; 121B3:108–109; 4:128–131
 Site 765, 123A2:93–94; 4:120; 123B731–735
 Site 794, 127A4:99–101; 127/128B(1)12:193–200,
 210–215
 Site 795, 127A5:195–197
 Site 796, 127A6:273–274
 Site 797, 127A7:355–356; 127/128B(1)12:193–200
 Site 798, 127/128B(1)26:442–443; 27:457–470;
 128A4:124, 165–166
 Site 799, 128A5:310–311
 Site 803, 130A5:122–124
 Site 804, 130A6:190–191
 Site 805, 130A7:239–241
 Site 806, 130A8:312–315
 site comparisons, 121A13:483–484
 size, 113B31:493, 496–497; 160B2:13–15
 slumped material, 108A9:627
 Southern Hemisphere, 121A8:201; 13:483
 Southern Ocean, 121A8:195; 13:476
 species diversity, 138B25:578, 581; 161B15:200, 206;
 164B34:351, 353
 stable isotopes, 105B9:127–129; 33:638–639;
 107B26:409–411; 27:423–425; 115B30:580–582;
 31:592, 595–597; 119B5:69; 38:698–703, 707;
 52:936–938; 141B17:235–240; 144B20:401–410;
 43:739–741; 145B21:322–323; 160B13:170–177;
 171B_B5:1–14; 184B2:1–29; 3:1–8; 4:1–8; 5:1–
 12; 19:14–15, 18–21; 199B17:1–12
 statistical analysis, 161B14:190–194
 stratigraphic list, 160A5:102; 6:135; 7:177; 8:242;
 9:303; 10:356; 14:480
 stratigraphic range, 101B1:6–17, 20–30; 4:32–35;
 107B41:686; 130A2:30; 130B9:122; 169A6:268;
 180A10:68; 208A3:74–79; 4:78; 5:62; 6:96; 7:71;
 8:69
 stratotype sections, 107B43:711
 strontium isotopes, 107B25:402; 117B27:462;
 119B40:732–736; 120B(2)B44:846; 121B7:199
 study methods, 104A5:475; 6:631; 104B34:681;
 39:782–783; 123A3:45
 summary, 104A4:124–126, 142–144; 5:475; 7:760–
 762; 104B34:684–685, 687
 surface-water temperature, 127/128B(1)12:187
 taxa list and statistics, 175B7:26
 tektites, 150B13:250–252
 temperature control, 117A19:602
 temporal variations, 121B4:127–130
 test fragmentation, 105B33:620, 634
 thin sections, 198A3:23
 Toba Lake eruption, 121B25:489, 492
 Tortonian/Messinian boundary, 107A10:768
 total numbers, 105B30:566
 trace elements, 120B(2)44:846
 transitional assemblages, 139B2:49–50
 transmission light microscopy, 207B2:29–31
 turbidites, 115B19:288; 117B5:130; 123B38:722;
 124B32:435–437; 166B5:57–60
 Turonian, 174AXS_A6:50, 95
 Turonian–Coniacian interval, 121B3:89
 Turonian–Santonian interval, 121A13:485
 unzoned interval, 114A7:276
 uplift history, 117A10:267
 Upper Cretaceous, 183B2:1–28
 upper Eocene–Miocene interval, 199A11:92–95
 upper Miocene, 181B1:17
 upper Paleocene–lower Eocene interval, 199A13:71
 upper Quaternary, 169A3:38–39
 upwelling, 117A1:9; 3:36, 40; 9:243; 117B13:257–260;
 119A5:156; 127/128B(1)27:469; 175A12:342
 vertical stratification, 138B22:504–505
 volcanic ash, 121A1:510; 121B25:489
 vs. age, 146B(2)21:285, 288–291; 23:311, 316, 318,
 321; 175B7:15; 178B15:10
 vs. centimeters from Cretaceous/Tertiary boundary,
 174AXS_A(summary):33
 vs. depth, 105B33:619–620; 113B31:498; 149A4:106;
 5:137; 6:193; 7:250; 150B28:459; 157B7:78, 82;
 162B13:192; 166B4:357; 169A3:63; 170A6:202;
 178A4:62; 5:58; 6:42; 182B9:13; 199B8:9;
 202A5:35; 6:39; 7:51; 8:59
 vs. magnetic susceptibility, 161B40:509
 vs. Oman margin sites, 117B14:267–268
 vs. total carbonate and stable isotopes, 105B30:581–
 582
 wackestone, 166B5:56
 warm–cold cycles, 107B26:406–407, 413
 water temperature, 120B(1)22:379

- winnowing effects, 117A14:452; 121B3:84
zonation, 101A1:17; 104A4:125–126; 5:475, 482–483;
104B34:681–690; 39:802; 105B50:937–940;
108A4:229–230; 5:338; 6:417; 7:493–494;
8:562–563; 9:625–626; 10:748; 11:796; 12:839–
840; 13:935; 113B31:486–498; 34:549–550;
114A5:108, 121; 6:165, 196; 7:270, 302; 8:382–
383, 409; 9:493, 512; 10:560; 11:638–639, 685;
114B4:51; 10:203–209; 12:238–247, 253, 258;
13:283–286; 115A2:29; 5:250; 115B45:828–829;
117A8:164, 215–216; 11:330; 120B(2)32:579–
581; 121A2:43, 46–47; 6:124–125; 11:318, 376;
12:396; 15:475; 16:504; 18:566; 19:596; 35:631–
633; 123B38:718, 722; 125A2:25–28; 125B4:74;
130A2:30; 143B6:102; 166A9:246; 170A3:63;
4:118; 5:165; 6:202; 7:232; 180A5:75; 7:49;
9:32–33; 10:14–15; 12:32; 182A5:35; 184B8:3–7;
198B4:1–56; 207A4:48; 5:45, 55–56; 6:52; 7:50;
8:49–50; 208A3:46; 4:49; 5:39; 6:57; 7:46; 8:46
See also acarininids; chiloguembelinids; equatorial
fauna; globigerinids; Hedbergellidae; intermedi-
ate fauna; neogloboquadrinids; polar fauna;
pteropods/planktonic foraminifers ratio; rugo-
globigerinids; subbotinids; subpolar fauna; sub-
tropical–tropical fauna
- foraminifers, planktonic microporate, 120B(2)32:569
foraminifers, polar-subpolar planktonic, 127/
128B(1)27:459, 462
- foraminifers, porcellaneous benthic
lithology, 194B5:8–11
photograph, 194A7:73
- foraminifers, psychrospheric benthic, 107B1:24
- foraminifers, pyritized, lithology, 166A9:239–241, 298
- foraminifers, reworked shallow-water
abundance, 129A2:50
benthics, 101B2:54–55; 115A6:412; 129B12:229
Cretaceous–Tertiary interval, 129B13:246–248
Leg 129, 129B6:155
Pacific and Atlantic comparison, 129B13:260
planktonics, 115B19:293
photomicrograph, 129B12:241–245
Pigafetta Basin, 129B12:229
replacement, 129B32:581
Site 800, 129A2:51–52
Site 801, 129A3:116–117; 129B2:34
Site 802, 129A4:189–200; 129B4:120
species list, 129B12:235–239; 13:254–264
- foraminifers, shallow-water
age vs. depth, 133B17:244
benthic, 117A12:413; 14:453
biostratigraphy, 133B36:525–526; 47:697–704
Cenozoic, 133B27:401
ghost structure, 133B56:793
microfacies, 133B21:293–296
oxygen isotopes, 133B11:129–161; 12:163–173;
32:481–487
photomicrograph, 133B19:278
planktonic, 101B1:7
reposition, 133A(1)10:363
sediments, 133A(1)5:144, 146
sequence stratigraphy, 133B25:359
- stable isotopes, 133B16:212–214; 17:242–246; 19:267
strontium isotopes, 133B33:491–498
taphocenoses, 133B26:365–378
Tertiary, 133B20:281–289
See also alveolinids; anomalinids; buliminids; caucas-
inids; Cibicidae; Elphidiids; eponidids; lepidoc-
yclinids; loxostomids; miliolids; nonionids;
nubeculariids; nummulitids; rotaliids; siphonin-
ids; soritids; textulariids; uvigerinids
- foraminifers, smaller benthic
Tyrrhenian Sea, 107B20:392
Vanuatu, 134A11:335–336
- foraminifers, subtropical planktonic
biostratigraphy, 135B16:245–266
Japan Sea, 127/128B(1)27:459
- foraminifers, thermocline-dwelling, 202B12:12–13
- foraminifers, transitional planktonic, 127/128B(1)27:459
- foraminifers, tropical planktonic
Oman margin, 117B14:271
zonation, 108A1:19
- foraminifers, unidentifiable planktonic, 101B1:18
- foraminifers, warm water, abundance, 184B11:15
- foramol association, microfacies, 133B21:298–299
- forceps, Site 795, 127/128B(1)30:543
- forcing, precession, 184A1:11
- forearc basement high
Bonin-Mariana region, 125B9:143
constructional history, 125B14:263, 269–271
geochemistry, 125B15:292
subsidence events, 125B14:271
- forearc basin facies, sedimentation, 131B27:337
- forearc basins. *See* basins, forearc
- forearc deformation. *See* deformation, forearc
- forearc flexure. *See* flexure, forearc
- forearc prisms
photograph, 205A5:46
underthrusting, 205B1:5–7, 29
forearc slopes, collision zones, 134A2:24–25
- forearc terranes. *See* terranes, forearc
- forearc wedges
age, 205B1:16
carbon and nitrogen geochemistry, 205B7:1–38
diagenesis, 205A6:10; 205B1:5
- forearcs
deformation, 134A4:43–53
emergence, 180B(synthesis):8
evolution, 125A1:11–12; 4:69; 13:307–308;
125B36:595
geochemistry, 135B38:625–646
geology, 135A(1)1:38–40
maps, 186B1:17
Neogene, 180A3:4–5
New Hebrides island arc, 134B23:418–420
ocean–continent transition, 125B24:407
plate tectonics, 205A1:8–10; 205B1:5–7
sedimentation, 131B26:323–324; 135B11:168–172
serpentine mud, 195B5:1–18
- forearcs, intraoceanic, 125B24:407
- foresets
reflection, 188B14:4–5
seismic facies, 188B14:8–10

- foreshore environment
 lithology, 174AXS_A7:14
 See also shoreface/foreshore environment
- forests
 Antarctica, 120B(1)18:273, 276; (2)56:1002
 Japanese archipelago, 127/128B(1)18:320; 19:325, 334
 Kerguelen Plateau, 120B(2)53:952, 958
 Quaternary, 161B36:465
 Raggatt Basin, 120B(2)18:276
 Site 750, 120B(1)1:27; 17:261
 Site 798, 127/128B(1)18:317
- formate
 Conical Seamount, 125B22:390, 394–395
 pore water, 125B22:387–388; 135B44:710–711;
 201A1:21, 25, 28, 33, 37, 42, 47; 6:16; 7:16–17;
 8:16; 9:13; 10:15; 11:17; 12:13
 vs. depth, 135B44:712–713; 201A6:44; 7:47; 8:36;
 9:38; 10:41; 11:51; 12:33
 vs. propionate, 135B44:711
- formation capture cross section logs, 206A3:322
- formation collapse, drilling, 132A3:53
- formation density logs, 208A4:62; 6:76
- formation evaluation, well-logging, 164B21:199–215;
 193A3:89–90, 95–96; 4:62–65
- formation factor
 basalts, 148B29:376
 breccia, 158A7:136
 Broken Ridge, 121A6:143, 148–149; 7:183, 185;
 8:219–221, 227; 9:252
 clasts, 195A3:43–44
 data quality, 127A4:127; 5:222; 6:289–290
 electrical conductivity, 124B7:100–102; 148B21:299–
 303; 190A4:144–145; 5:146–148; 6:91; 7:79;
 8:90–91; 9:24, 59
 lithology, 121A11:343; 169B8:5–8
 measurements, 131A6:169
 needle-probe method, 190A4:142–143; 5:145; 6:90;
 7:78; 9:24–25
 Ninetyeast Ridge, 121A10:288–289, 294–295; 11:342,
 350, 352; 12:404, 407, 435–436
 Ontong Java Plateau, 130A5:143
 pelagic muds, 195A4:39–40
 sediments, 156A6:156; 7:240, 244; 159A6:200;
 168A4:94; 5:141; 6:179; 201A6:29; 7:31–32;
 8:25; 9:22; 10:26; 12:24
 Site 756, 121A10:294–295
 Site 757, 121A11:350, 352
 Site 758, 121A12:435–436
 Site 794, 127A4:128–133, 137
 Site 795, 127A5:224–228, 231
 Site 796, 127A6:290–295
 Site 797, 127A7:383–389, 391
 Site 891, 146A(1)6:276
 Site 892, 146A(1)7:351
 Sites 889–890, 146A(1)5:196
 vs. conductivity, 169B8:42
 vs. depth, 131A6:212; 146A(1)4:91, 108; 5:195; 6:275;
 7:350; 156A6:159; 7:246; 168A4:89–93; 5:149,
 151; 6:187–192; 170A4:91; 7:243; 190A4:77;
 5:80; 6:54; 7:46; 8:52; 9:25–26; 195A3:131;
 4:149; 201A6:69; 7:72; 8:53; 9:53; 10:57; 12:47
 vs. frequency, 169B8:5–6, 27
 vs. index properties, 146B(1)11:194–197; 169B8:6–7,
 28
 vs. permeability, 169B8:26
 vs. porosity, 102B3:43; 121A6:150; 124B6:87;
 131A6:213; 133A(1)8:281; 9:330; 133B45:662,
 667; 138A(1)10:247; 144B39:654; 146A(1)4:92;
 5:195; 6:275; 7:350; 146B(1)11:197; 20:324–
 326; 148A3:171; 148B29:377–378; 156B10:148;
 177A4:52; 204B8:16
 vs. pressure, 169B8:5, 25, 36–39
 vs. velocity, 133B45:667
 well-logging, 146B(1)20:317–318
- formation fluids. *See* pore water
- Formation MicroScanner imagery
 apparent faults, 209A7:116
 azimuth, 180A8:107
 basalts, 144A9:322–323; 185A3:45–46; 185B1:24
 basement, 161B24:320–324
 bedding, 135B23:377; 160B40:521; 180A6:211
 bioturbated interval, 159A5:120, 122; 160B38:498;
 190A4:86
 borehole geometry, 180A8:106, 108
 boreholes, 134A9:227–228; 135B11:167, 169;
 147B18:329–345; 197B5:9–10
 breakouts, 135B18:287–299
 brecciated limestone, 160B38:498
 carbonates, 143B21:329–372; 144B17:339–340;
 186A4:146
 chert, 127A6:307; 127/128B(2)66:1039–1040;
 78:1232; 138A(1)11:318; 198A3:43–44
 conglomerate and diabase contacts, 180A6:213
 core recovery, 127/128B(2)66:1038–1040
 core reorientation, 135B19:301–311
 cores, 135B20:313–329
 correlation, 127/128B(2)66:1040–1041, 1045;
 160B47:607–624; 180B9:15–16; 204A11:19–20
 Costa Rica Rift, 140A2:112, 116; 148B29:375–388
 cumulate layering, 128A3:104
 cyclostratigraphy, 127/128B(2)66:1041–1044;
 166B7:77–88
 data processing, 127/128B(2)66:1038–1043
 debrite, 157B3:35
 depositional history, 144B12:240–243; 18:364
 depth alignments, 127/128B(2)66:1038–1040
 deviation and azimuth, 173A4:99
 diagrams, 127/128B(2)66:1038–1039
 dip, 135A(1)5:240–241; 135B47:767; 180A8:113–117;
 180B24:39–43
 dolomite, 127A6:307; 128A5:368
 fault gouge, 209A7:88
 faults, 134A12:433; 176A3:240; 209A7:18–19, 35–36,
 115
 floatstone, 160B38:493
 formation evaluation, 193A3:96
 formation-water chemistry, 137/140B13:141–152
 fractures, 148B22:310–312; 23:319–320; 186A4:148;
 209A7:116, 118
 grainstone, 160B38:493

- gypsum, 160B38:496
 harzburgites, 209A7:88
 igneous rocks, 139A7:367; 205A1:60; 209A10:41
 in situ stress, 159B21:209–223
 laminations, 180A6:212
 lithofacies, 129B30:531–532; 135B12:175–178
 lithology, 129B36:674; 144B13:267–268; 162A6:204;
 169B8:18–19; 172A5:242, 245; 6:302–304;
 173A4:101; 178A9:21; 178B19:19; 179B(synthe-
 sis):102; 1:21; 3:7–29; 180A1:28; 6:73; 9:149–
 153; 12:152–155; 180B25:5–19, 27–30, 34–53,
 61–69, 72–82, 91–97, 100–103, 106–107, 116–
 159; 185A4:43, 47; 190A4:87; 205A4:63–64
 logging-while-drilling, 204A3:37–38, 91–93, 96–97
 magnetic field, 180A8:109
 marginal ridges, 159B9:81–91
 Messinian breccia, 160B38:493
 microresistivity, 157A9:476; 172A6:302; 192A6:44–
 45, 56
 Miocene/Eocene unconformities, 160B38:494
 oceanic crust, 144B39:655–657
 Okushiri Ridge, 127A6:255–256
 operations, 208A4:61
 orientation, 134A9:238, 240; 139A7:407; 143B27:410
 oxide gabbros, 209A7:88
 petrology, 183A5:57–58
 planar features, 135A(1)8:359
 resistive clasts, 209A7:90
 resistivity, 129B6:159; 36:674, 691; 180A6:210;
 182A5:56–57; 184A5:73; 7:71; 9:86; 209A7:117
 resistivity-at-the-bit images, 204A6:23; 9:27; 10:35
 sediments, 129B36:673–693; 144B12:234–236;
 157A4:86–87; 162A9:319–320; 10:367;
 181A3:29; 190A4:33, 85–87
 seismic Horizon A, 204A4:95
 serpentine schists, 209A7:89
 siliceous rocks, 198B17:8–9
 silts, 186A4:147
 Site 735, 176A3:92, 237–239
 Site 799, 128A5:268
 Site 831, 134A11:354, 356
 Site 834, 135A(1)4:164
 Site 838, 135A(1)8:384–388
 Site 839, 135A(1)9:465
 Site 840, 135A(1)10:521–523, 553, 556–557
 Site 841, 135A(1)11:658
 Site 845, 138A(1)10:234
 Site 847, 138A(1)12:379
 Site 849, 138A(2)14:761, 795
 Site 850, 138A(2)15:827, 873–874
 Site 851, 138A(2)16:954
 Site 856, 139A6:254–255
 Site 858, 139A7:526–527
 Site 859, 141A6:139
 Site 866, 143A7:248–249
 Site 871, 144A3:96
 Site 873, 144A5:200–201
 Site 874, 144A6:249
 Site 878, 144A10:393–395
 Site 879, 144A11:437
 Site 891, 146A(1)6:282
 Site 892, 146A(1)7:366–369
 Site 1261, 207A8:67, 69, 72–73
 Sites 889–890, 146A(1)5:212, 215–216
 Sites 1218 and 1219 correlation, 199B2:28
 stress, 134B32:565–576; 34:591–606
 structural data, 159A5:119–121; 6:202–204;
 173A4:98; 176A1:25–26; 3:240–243; 180B24:1–
 43; 25:1–159
 summary, 208A6:72
 surface patterns, 174A_A4:143–144
 tectonics, 134B24:431–444; 160B41:527–534
 tool acceleration, 180A9:143; 12:149
 turbidites, 135B11:164–165; 166B5:49; 180A6:209;
 180B9:1–30; 184A4:80; 204A4:96
 volcanic aprons, 157B4:39–46
 volcanics, 127/128B(1)23:398, 400; 65:1025;
 (2)48:793; 128A4:153; 5:339–340; 190A4:85
 vs. depth, 135A(1)9:478; 10:551, 556–557;
 139A7:551, 553; 11:671; 139B36:578;
 144B39:656–658; 145A5:189; 146A(1)5:212–
 219; 6:284–286; 7:367–368; 147A3:107;
 148B16:237–242; 157A4:92; 157B4:44–45;
 159A6:206; 160A6:146–147; 7:203–205, 211–
 213; 8:267–269, 278–281; 161A4:103–104, 107–
 108; 5:164–165; 6:262–263; 165A4:195;
 165B11:194–199; 13:223; 166A6:105–108;
 8:200; 9:262–263; 166B15:160–162;
 167A(1)14:420; 168A6:199, 203–204;
 169A3:133–136; 172A5:246; 174A_A4:145–149;
 176A3:234, 236; 176B5:32; 178A9:69;
 179A4:157–158; 179B(synthesis):62; 180A1:73–
 74; 6:203–205; 9:55–58; 12:48–51; 180B24:16–
 21; 181A8:87; 182A7:64; 8:65; 9:54–55;
 183A5:163–165; 8:97–100; 185A4:142–144;
 5:110; 186A4:94; 5:84; 188A1:45; 4:91–92;
 192A6:44–45, 56, 89–96; 193A3:256, 259–261;
 4:62, 65, 220–224; 5:81–83; 194A7:108–110,
 113; 195A4:155; 197A1:42–43; 3:133–137;
 198A3:112; 199A11:78, 82–83; 12:84, 86, 91;
 200A4:52–53, 148; 201A11:78, 84; 202A9:71–
 72; 10:66; 12:71; 203A3:72, 74; 204A4:91; 6:63,
 66; 9:69, 73; 10:84; 11:49, 51; 205A4:73, 160,
 164–167; 205B1:48; 206A3:322, 325–330;
 206B11:11–12; 207A4:67, 72; 5:77–81; 7:70–77;
 207B14:11–12; 208A4:66; 6:74–75, 80–82;
 209A7:75, 112–113; 10:147, 151–153
 vs. depth and core samples, 144B38:642
 vs. lightness, 184A4:79
 vs. resistivity-at-the-bit, 193A1:76; 4:65, 230;
 196A3:82
 vs. spectral cyclicity, 129B30:539–540
 vs. spherically focused resistivity logs, 202A12:72
 wavelet analysis, 197B5:15
 well-logging, 148A2:76–77; 180A8:41–43; 181A3:70;
 204A4:30–31
 zoning, 166A9:260
 formation pressure
 fluid flow, 146B(1)19:307–309
 sedimented rift hydrothermal system, 139B41:649–
 666
 sediments, 146B(1)22:355–359

- vs. time, 146B(1)19:309
formation water, chemical composition, 168B14:171
formic acid. *See* formate
fossilization, plant fossils, 183A6:22
forsterite
 Atlantis Bank, 118A6:99; 118B3:62, 68
 basalt paragenesis, 195B8:7
 boninites, 125B10:178
 composition, 163X_A8:21; 176B(synthesis):52, 61;
 8:12–13, 28–30
 core-to-rim electron microprobe transects, 147B9:179
 crystal mush, 176B10:23–25
 cumulates, 179B2:52
 gabbros, 176B10:14, 55; 179B2:31
 geochemistry, 135B27:495; 31:546
 lithology, 195A3:14
 magnesian phenocrysts, 125B10:183
 magnesium-calcium-silicon-oxygen-hydrogen system, 209A6:77
 magnesium number vs. hornblende magnesium number, 176B10:44
 marbles, 161B23:313–314
 mineral chemistry, 209B4:4
 molecular percent histogram, 209B4:13
 olivine gabbro host vs. microgabbro, 176B8:22
 phase equilibria, 163B9:103–105
 serpentinization, 147B14:282–285
 volcanic basement, 163X_A8:7–9
vs. anorthite, 163B9:104; 176B10:54; 179B(synthesis):91; 2:49, 52; 209B1:28
vs. chromium number, 157B22:382; 209B4:17
vs. chromium/(chromium + aluminum) ratio, 147B7:151, 153
vs. depth, 176B10:43, 53; 179B(synthesis):92; 209B4:19
vs. iron ratio, 157B22:382
vs. magnesium number, 176B10:43; 179B(synthesis):91
vs. magnetic susceptibility, 176B11:24–25, 69
vs. manganese, 179B2:36
vs. manganese oxide, 179B(synthesis):83, 93
vs. nickel oxide, 176B10:40; 179B(synthesis):83
vs. titanium oxide, 147B1:8; 6:125
See also olivine
fossil roots. *See* rhizoliths
fossils
 occurrence, 174AXS_A3:80–83
 vs. carbon and oxygen isotopes, 144B13:265
 vs. depth, 144B13:262; 54:956, 958, 962
fossils, calcareous, volcanoclastics, 136B7:87
fossils, siliceous
 carbonate record, 130B44:736
 volcanoclastics, 136B7:87
Fourier transform analysis
 borehole parameters, 127A6:307; 7:399
 data, 127/128B(2)66:1043, 1046
 Formation MicroScanner imagery, 127/128B(2)66:1043, 1046
 interbedded sediments, 127A7:399
 intersite lithology, 127/128B(2)78:1233
Milankovitch cycles, 127/128B(2)66:1043–1044;
 143B20:317–326
operations, 127/128B(2)66:1037–1038
porcellanite, 127/128B(2)66:1040
sediments, 135B8:141, 144, 146
siliceous shale, 127/128B(2)78:1232
Site 794, 127A4:142; 127/128B(2)66:1037–1046;
 128A3:104, 109
Site 796, 127A6:307, 310
Site 797, 127A7:399, 408; 127/128B(2)66:1037–1046
Site 798, 128A4:184–185
Site 799, 128A5:339–341
Sites 794 and 797 correlation, 127/128B(2)66:1042–1044
Sites 794 and 797 comparison, 127/128B(2)66:1040–1043
veins and fractures, 128A3:104–106
well-logging, 127/128B(2)66:1039–1040
Fourier transform infrared (FTIR) spectroscopy. *See* spectroscopy
fractal analysis, glass shard morphology, 165A4:177–178
fractional crystallization
 basalts, 135B26:474–477; 29:522–527; 52:839–840;
 137/140B5:59–60; 142B6:41–49; 143B16:274;
 158B17:220–225, 228–229
 basement, 183A1:35
 carbon isotopes, 138B39:801
 chilled margins, 139A7:347
 cumulates, 179A4:41–42
 diabases, 148B4:44–45
 excluded elements, 118B4:86
 felsic rocks, 183A7:41
 gabbros, 147B1:11–12; 176B3:4–5; 8:5–14; 10:8–12;
 179B(synthesis):31–34; 2:14–21
 geochemistry, 139A5:148; 142B2:20–21; 143B15:255
 high pressure, 209B1:4–6
 igneous rocks, 205B9:7, 11–12
 in situ geochemistry, 144B30:531–532
 isotopes, 118B6:131–132, 141
 lava, 134A8:155; 148A3:139
 lithology, 209A10:10
 magmas, 118B1:12; 192B1:6
 melts, 209B4:6
 mineral bimodality, 118B2:34
 modeling, 179B2:76
 nickel-nickel oxide (NNO) buffer, 118B4:101–102
 phase equilibria, 135B32:561–563
 rhyolites, 135B38:640–642
 syndeformation, 118B8:155
 vesicles, 135B37:619–623
 volcanic rocks, 135B25:448–452
 vs. melt-rock interaction, 147B6:129–130
See also crystal fractionation; crystallization; perfect fractional crystallization
fractional crystallization, perfect, gabbros, 179B(synthesis):13
fractionation
 ammonium, 201B5:6
 basalts, 169A5:215–216; 203A3:14
 boundary layer, 179B(synthesis):31
 cold water, 175B(synthesis):44–45

- gabbros, 147A1:10
- gas hydrates, 164A1:8; 164B4:45; 10:102–104
- geochemistry, 180A1:23
- iridium vs. osmium, 159B18:183–184
- isotopes, 161B32:414–420
- magmas, 163B7:70–74; 9:104–110; 11:131
- melting, 147B6:114
- methane, 180B16:4; 201B20:9
- nitrogen isotopes, 202B9:1–22
- olivine gabbros, 179A4:8–9; 179B(synthesis):31
- oxygen isotopes, 164B6:59–66
- plutonic rocks, 147A3:64–66
- retention of platinum-group elements, 147B4:86
- serpentine-water system, 147B14:277
- stable isotopes, 147B13:245–247; 159B13:127–131; 160B34:445–450
- sulfur isotopes, 188B16:7
- trace elements, 163A4:40; 5:64
- volcanic pebbles, 161B44:569
- See also* crystallization; isotope fractionation; oxygen isotope fractionation
- fractionation, isotopic
 - bacterial sulfate reduction, 129B3:96; 15:292
 - closed-system vs. open-system, 129B19:370–371
- fractionation effect, estimated, 118B4:85
- fractionation factor
 - noble gases, 164B16:167–168
 - vs. depth, 164B7:76
- fractionation index
 - lava, 148B2:17
 - vs. major elements, 148A2:59
 - vs. trace elements, 148A2:59
- fractionation models
 - rocks, 127/128B(2)54:872–874, 881
 - See also* fractional crystallization
- fracture azimuth, vs. depth, 159B21:211
- fracture cleavage, photograph, 149A4:89
- fracture density
 - structure, 192A5:18
 - vs. depth, 180B24:25; 183A6:141; 192A3:130; 5:95–96
- fracture dip. *See* dip, fracture
- fracture dip direction. *See* dip, fracture direction
- fracture fillings
 - alteration, 168A5:124; 187A4:3–4; 7:5–8; 187B1:7–8; 5:7, 11
 - lithology, 187A6:5
 - petrology, 187A1:7–8
 - photograph, 187A1:24, 34–35; 6:14–15; 10:17; 11:29
 - photomicrograph, 187A11:28
- fracture networks, scaly fabric, 156B4:66; 22:287
- fracture planes
 - dip vs. depth, 186A4:172
 - Formation MicroScanner, 134B34:594, 598, 602
 - photograph, 190/196B10:11
 - quartz-rich veins, 173A6:147–148
 - sediments, 186A1:14
- fracture strike, vs. depth, 196A3:56; 4:44
- fracture surfaces
 - copper mineralization, 145B25:396
 - electron micrograph, 170B3:24
- fracture + vein density
 - basalts, 187A6:7–8; 7:9; 8:9; 11:10; 13:12; 14:6; 15:7
 - hole core section, 187A7:29; 8:47; 14:25
- fracture zones
 - Bahamas, 101B29:466
 - basins, 134A1:13–16
 - crust, 118A1:3; 3:42; 159B1:10; 9:81–82
 - deformation, 209A1:1–139; 9:16–17
 - Formation MicroScanner, 180B24:5–6; 25:19–20
 - gabbros, 179B2:3–4
 - geology, 200A1:3–4
 - lower oceanic crust, 176B5:1–71
 - mantle, 187B1:26
 - models, 118A3:42; 6:90
 - New Hebrides island arc, 134B35:616
 - oceanic plateaus, 192A1:4–6
 - scanning electron microscopy, 190/196B7:26–27
 - sediment volume, 103B39:708–709
 - seismic structure, 118A6:183, 185
 - semblance velocity logs, 118A6:183
 - shear zones, 176A1:3–5
 - Southeast Indian Ridge, 118B21:361; 120B(2)51:934
 - spreading rate and plutonic rocks, 118A1:3
 - spreading-ridge segmentation, 118A1:3
 - structure, 176B(narrative):9–11
 - subducting ridges, 141A2:17–20
 - tectonics, 179B(synthesis):5–7
 - transform faults, 177A1:5–6
 - transverse-ridge high vs. low offsets, 118B10:225
 - See also* Clarion Fracture Zone
- fracture zones, brecciated, photograph, 190A8:38
- fractures
 - age, 128A3:92–93
 - alteration, 136A5:79–80; 183A6:50–52; 7:44; 9:33–35; 185A3:20–21; 187A6:5–6; 8:8; 9:7; 10:3–4; 14:4–5; 193A3:39–41; 193B1:21
 - apparent apertures, 118B14:264, 268
 - azimuth and dip, 148B29:384
 - basalts, 131A6:155–156; 131B16:198–199; 135A(1)5:203; 163B4:37–38; 165B14:227–232; 169A5:213–214; 187A6:7–8; 7:9; 11:10; 197A3:19–20
 - basement, 127A5:217; 127/128B(2)75:1181–1184; 128A3:69, 88–92; 149A4:108–112; 7:238–240; 149B38:607–608; 161A6:217; 173A1:10; 183A6:30, 33; 7:15, 22–23, 26–37
 - borehole televiewer data, 127A6:307; 7:399, 409
 - breccia, 149A6:189; 173A6:132; 190/196B9:3
 - brittle structures, 179A4:54–56; 179B3:8–9
 - Cagayan Ridge, 124A14:402
 - calcite, 127A5:188; 149B34:565–567
 - carbonates, 133B34:506; 156B5:81–82
 - categories, 123B24:477–478, 482–483
 - causes, 124B1:3
 - clasts, 180A12:26
 - claystone, 159B1:6–7
 - compressional velocity, 118A6:206
 - computed tomography, 146B(1)11:196–199
 - control of late-stage melt transport, 147B6:130–131
 - crack fillings, 123B24:477
 - décollement zone, 170B3:6–7, 11; 190A5:59

- deformation, 141B2:19; 160A8:239–241; 173A7:193;
209A5:27
- density, 118A6:105; 118B1:337; 205B13:1–21
- depth vs. strike, 148B16:240
- diabases, 148B23:317–329; 180B3:4–7
- dikes, 137/140B24:274–275
- dilation, 193B1:28–29
- dip, 118A6:206–209; 118B14:269; 148B16:236;
160A7:185; 180A1:56; 6:142; 8:22–27, 111–117;
180B24:23–31; 25:32, 59, 87; 209A10:107
- discharge, 139B44:704
- domains, 190A5:12
- elastic moduli, 147B25:427–428
- electrical imaging, 147B18:335–336; 148B22:307–315
- electrofacies, 176A3:246
- electron micrograph, 170B3:24
- faults, 146B(1)18:295; 148B34:430; 180A6:145
- fillings, 127/128B(2)75:1181; 128A3:91–92;
129B4:123, 125; 145A5:136–137; 6:224
- fluid flow, 193B1:29–30
- fluid migration, 180B(synthesis):17
- folds, 159A8:279
- Formation MicroScanner imagery, 140A2:120;
147B18:329–345; 148B16:237–240; 22:310–312;
159B21:217–218; 160B40:521; 49:662–623;
169A3:134–135; 180A6:213; 8:110; 180B24:5–6;
25:19–20; 183A5:164; 186A4:148; 193A3:260–
261; 4:65, 221–224; 197A1:81; 209A7:116, 118;
10:151–153
- frequency vs. depth, 160A7:183; 186A5:39; 196A4:44
- gabbros, 147B28:466–467, 470; 205A4:27–28
- gas hydrates, 201A11:36; 204B3:6–8
- geometry, 127/128B(2)75:1181
- granite porphyry, 180A7:13
- greenschist facies, 173A6:144–145
- hydraulic conductivity, 146B(1)17:286–287
- hydrothermal systems, 147B10:205
- igneous rocks, 123A5:319; 163A4:36; 200A4:29;
205A1:60; 4:36; 205B1:13
- image analysis, 148B29:378–379
- intergrowths, 176B4:13–14
- interpretation, 196A1:26
- lava flows, 163A3:27; 5:55
- lithology, 146A(1)5:169, 173; 161B26:347;
163X_A5:5; 6:12; 164A6:110; 166A6:79; 8:178;
10:299; 170A6:195, 197; 184A9:10–11;
185A3:13; 204A3:4–8; 210A1:23; 4:4–8
- Lower Cretaceous, 159B2:17
- magmatic structures, 176A3:61; 176B10:22
- magnetic anisotropy, 146B(1)14:237, 240, 243, 247,
252, 254
- massifs, 179A4:56–57
- massive alteration, 168B10:128–131
- metadiabase, 180A7:15; 8:18
- metamorphism, 195A3:54
- mica schist, 180A7:12
- microbial populations, 187B6:9–10
- morphology, 140A2:117
- negative temperature anomalies, 118B14:266–267
- number, 186A5:122
- olivines, 176A3:39
- orientation, 123A4:216, 331; 147B28:469;
148B16:241; 160B41:529; 176A3:61
- origin, 128A3:91–93
- Owen Ridge, 117A19:591–594
- Pacific Ocean W, 124B8:111–113
- “peachy orange slime,” 204A10:19, 64
- permeability and density, 118B14:266–267; 19:339
- petrography, 168B14:169
- photograph, 139A6:179; 141A6:85; 9:329; 144A4:118;
146A(1)5:150, 175; 149A4:56–57, 61, 63, 89;
6:166; 150A8:221; 158A7:85, 93; 10:183, 185;
158B15:197; 159A7:233; 8:280; 159B2:21;
160A6:132; 8:239, 248; 12:429; 161B25:341;
164A4:62; 8:259; 166A6:81; 168A5:118;
169A3:61; 169B9:17; 170A4:112–113; 6:199;
173A9:280; 179A4:147–149; 179B3:17–18;
180A7:38; 8:58, 64; 11:28–29; 12:89, 103;
183A4:41; 6:119; 7:77, 79, 83, 91; 8:49;
186A4:80; 186B17:10; 187A5:14; 6:24; 7:23;
11:22; 12:37, 39; 14:19, 24; 15:27; 190A1:63;
190/196B10:13; 193A1:48; 3:109–110, 153, 159;
4:70; 194A4:42; 195A4:101; 200A4:98–99, 102;
201A11:81; 205A4:102–103; 209A3:130;
210A4:18, 20
- photomicrograph, 160B38:506; 169A3:71;
179A4:145; 180A8:66, 77; 183A5:114; 7:80;
185A1:57–58; 187A7:24; 187B5:20; 193B9:14;
197A4:49; 5:50, 63–64; 6:56, 62; 200A4:106
- physical properties, 186A4:48
- porosity, 137/140B24:287; 146B(1)20:326–332;
148B16:241
- propagation, 137/140B20:237
- reducing alteration, 168B10:131–133
- relative ages, 128A3:93
- reorientation, 137/140B21:247; 147A3:88–89
- resistivity-at-the-bit images, 196A3:57; 4:18–19, 45;
209A10:144
- scaly fabric, 156B4:63–66; 22:287
- seamounts, 160B51:688–689
- sedimentary wedges, 170A4:109–113; 170B3:4–6
- sediments, 138A(1)12:367; 146A(1)6:258;
146B(1)12:205–206; 159A8:279; 186A4:61;
190A7:7; 190/196B7:8; 196A1:9–10
- serpentinites, 149A4:88–90; 149B31:530–531
- sills, 169A3:90–94
- Site 504, 137/140B27:313–319
- Site 737, 119A6:170
- Site 786, 125A14:331
- Site 794, 127/128B(2)75:1182–1184
- Site 798, 128A4:143
- Site 892, 146A(1)7:326
- stereographic projections, 140A2:119, 142;
146A(1)5:175; 186A4:170; 190A5:53; 190/
196B1:18; 196B4:47; 209A9:81
- strain recovery, 123B24:489
- stress, 123A4:214, 248; 5:330–331; 123B22:488–489;
124B8:117; 127/128B(2)75:1181; 131B18:225
- structural data, 147A3:83–87; 148B16:234–235;
18:265–266; 156A6:117; 160B40:520;
169A5:216–217; 6:272–273; 170A4:115–116;

- 5:162; 7:223–227; 180A5:20–23; 6:39–43;
187A13:12; 14:5–6; 190A8:10; 196A1:6–7
stylolites, 130B26:445
sulfides, 169A3:39; 169B9:6–9
Sulu Sea, 124A11:222–223, 257, 274; 124B1:7
tectonics, 179B(synthesis):6
textures, 158B15:195
thin sections, 148A2:64–65
triaxial shear strength, 186B17:5
true dip histograms, 148A2:69
types and geometry, 206A3:76–78
unconformities, 159B1:5
upper oceanic crust, 148B17:246–250
veins, 135B20:322; 148A3:157–158; 159B8:73–76;
183A5:44; 192A4:18; 193A3:59–65; 206A3:75–
76
vs. depth, 118B28:556; 137/140B28:316; 159B21:219;
160A8:244; 186A4:168; 190A5:59; 190/
196B9:12; 205A4:73, 87–88, 93–104; 5:64;
205B1:48; 13:20
vs. magnetic declination, 147B28:470
well-logging, 139B36:577; 176A3:245; 196A3:22–23
See also cracks; experimental petrology; hydrofractures;
joints; microfractures
- fractures, brittle
lithology, 179A2:6
orientation, 209A6:26; 7:19
tephra fall deposits, 183B9:7–8
vs. depth, 190A9:37
- fractures, calcite-filled, photograph, 210A4:24
fractures, conchoidal, andesite, 135A(1)6:267–268
- fractures, conjugate
photograph, 180A8:81
sediments, 161A5:141
structures, 180A6:39; 10:14
- fractures, dilational, photograph, 161A8:380–381
- fractures, en echelon, photograph, 163A5:57
- fractures, hairlike, photograph, 149A7:239
- fractures, healed
contour diagrams, 186A4:173; 5:94
definition, 112B1:3
frequency, 186A5:92
histograms, 186A4:171
orientation, 186A4:208; 5:39–40, 123
sediments, 186A4:63–65
- fractures, high-angle
photograph, 190A8:39
structure, 190A4:10
- fractures, horizontal
Pigafetta Basin, 129B4:119
scanning electron microscopy, 129B4:122, 135
Site 800, 129A2:68
Site 801, 129A3:136
Site 802, 129B4:123
- fractures, inclined
lithology, 190A9:6–9
photograph, 190A5:52, 54
- fractures, iron-coated, 159B3:25–26
- fractures, late subvertical, 118B26:505
- fractures, oblique
Formation MicroScanner imagery, 134A12:452
photograph, 134A9:215; 190A9:43
tectonics, 134A9:210
vs. depth, 134A12:453
- fractures, open
accretion, 141B1:5; 2:15
contour diagrams, 186A4:174; 5:95
dips, 148A2:66–68
number vs. depth, 186A5:91
orientation, 186A4:209; 5:40, 124
sediments, 186A4:65
sheeted dikes, 140A2:97–99, 102
- fractures, perlitic
photograph, 183A7:77, 79, 83
photomicrograph, 183A7:80, 88
- fractures, postkinematic, 118B8:159
- fractures, sediment-filled, 141B2:14–15
- fractures, shear
deformation bands, 141B2:19–21
dip, 209A3:118, 119
formation, 126B13:205
igneous rocks, 209A3:26
intensity vs. depth, 209A7:92
Site 793, 126B13:201–202
stereo plots, 209A7:91
- fractures, shear anastomosing, 209A10:105
- fractures, smectite-lined, 118B27:546
- fractures, spaced, lithology, 190A9:9
- fractures, stylolitic, photograph, 161A5:146
- fractures, tectonic, photograph, 159A7:231
- fractures, tensile wall, stress, 159B21:213–214
- fractures, tension, photograph, 170A7:224
- fractures, vein-filled, brittle structures, 179A4:54–56
- fractures, vertical
borehole wall, 159B21:216
structures, 180A6:40
- fractures/faults ratio, histograms, 180A5:69
- fracturing
alteration, 149B22:402–404
basement/sediment contact, 161B25:335–336
brittle deformation, 139A6:177; 161B44:568
cataclastics, 149B36:583
clasts, 158B18:243–244
Miocene/Eocene boundary, 112B2:21
Peru margin, 112B2:21, 25
porosity, 146B(1)20:331–334
Yaquina Basin, 112B2:21, 25
See also experimental petrology; hydraulic fracturing;
hydrofracturing
- fragmentation
carbonates, 160A6:136
cores, 180A5:71–72
diagenesis, 160B33:427
foraminifers, 130B29:492, 495, 497; 134B13:293–308;
138B33:685–686; 175B1:16; 177B(synthesis):53
lithology, 194A5:5
mudstone, 160B45:588; 46:598
percentage, 134B13:297, 299
Vanuatu, 134B13:293–308
volcaniclastics, 157B12:161–165
vs. age, 175B19:15
vs. planktonic foraminifers, 134B13:297, 299

- See also* composite fragmentation index
 fragmentation index
 Neogene, 181B1:96
See also composite fragmentation index
 fragmentograms
 hydrocarbons, 135B41:667–676
 sediments, 164B5:50
 fragments, trapezoidal, photograph, 190A9:43
 framboids
 accretionary prisms, 141B2:16
 diagenesis, 168A4:80
 lithology, 146A(2)2:31; 160A4:59; 165A7:365;
 171B_A6:257–258
 opal-CT, 150B20:369
 pyrite, 127/128B(1)2:36; 141B2:20; 8:108
 framestone
 dolomitization, 133B45:685; 194A7:14
 lithology, 143A8:278
 rhodolith-bearing, 133A(1)9:311
 francolite
 hardgrounds, 144B22:421
 Lima Basin C, 112A11:183–184
 lithology, 207A5:8; 6:9
 occurrence, 127/128B(1)5:65, 67
 Salaverry Basin, 112A12:267
 Site 765, 123B3:79–80
 free-air gravity anomalies. *See* gravity anomalies
 free-air gravity maps
 Atlantis II Fracture Zone, 179A4:73; 179B(synthe-
 sis):57
 Broken Ridge, 183A1:56
 Kerguelen Plateau, 183A1:53–54; 3:23–24; 4:34–35;
 5:62–63
 Ninetyeast Ridge, 179A5:19
 free gas saturation
 cementation model, 204B24:14–15
 vs. depth, 204B22:22–23
 free gas zone
 gas hydrates, 204A1:10–11, 45
 velocity logs, 204B22:1–25
 frequency
 vs. attenuation, 178B19:26
 vs. depth, 164B27:270
 vs. formation factor, 169B8:5–6, 27
 frequency domain analysis
 carbonate content, 138B14:330–332
 planktonic foraminifers, 161B37:472–475
 sediments, 135B8:131–146
 frequency spectra
 planktonic isotope records, 161B37:474
 stratigraphy, 145B19:285–287
 freshwater
 input, 175B(synthesis):18–19
 sedimentation, 180A1:6; 186A1:15
 sediments, 186A1:15
 freshwater lens, chloride, 112A11:183
 freshwater species, diatoms, 175A3:69; 4:98; 5:126; 6:159
 Fresnel zones, hydrothermal vents, 139B37:589
 friction
 crust, 161B24:325
 faults, 159B5:46
 transform faults, 159B6:51–52
 vs. stress, 161B24:329
 friction, basal, accretionary wedges, 134B1:13–18
 friction, internal, stress, 131B21:265
 friction angle
 internal, 204B12:49–67
 sediment fabric and composition, 160B49:659–660
 vs. water content, 160B49:660
 friction coefficient, permeability, 190/196B10:1–16
 frictional heating. *See* heating, frictional
 friedelan-3-one, organic-rich layers, 161B30:396
 fringing reefs. *See* reefs
 frontal movements, lithology, 189A7:19
 frontal systems, Antarctic Circumpolar Current, 177A1:8
 fronts. *See* ocean fronts
 frost heave, clasts, 158B18:243–244
 fructose, molar percentage, 112B36:564
 frustules
 backscattered electron imagery, 167B15:210
 diatom mats, 177A1:22
 rhizosolenids, 160B27:342, 346
 See also diatom frustules
 fucosterol, organic-rich layers, 161B30:397
 fucoxanthin, sediments, 175B10:10
 fugacity
 hydrothermal alteration, 209B1:10–11
 sulfides, 209B3:4
 Fugro percussion corer
 methods, 201A1:48–49
 summary, 201A1:81
 tools, 204A3:32–33; 4:26; 8:25–26; 9:22; 10:29–30
 fungal hyphae, 180B10:35; 200A1:54; 4:129–131;
 200B1:39
 fungal tissues
 photomicrograph, 180B10:35
 sediments, 180B10:11
 fungi
 aerobiology, 209B1:18
 spores, 127/128B(1)28:485
 See also *Granularia*; sclerotia
 funginite
 coal, 180B10:10–11
 organic matter, 180B10:7
 furans, alkylated, sapropels, 160B23:288
 furfural + acetic acid/pyrrol ratio
 biomarkers, 159B43:598–599
 vs. depth, 159B43:599
 fusinite
 abundance, 180B10:7, 9
- G**
- gabbro clasts. *See* clasts, gabbro
 gabbro clots, photomicrograph, 200A4:107
 gabbro grains
 lithology, 180A10:11–12
 photograph, 210A4:24
 gabbro pebbles. *See* pebbles, gabbro
 gabbro sills. *See* sills, gabbro
 gabbrodiorites, miarolytic, photograph, 209A7:67
 gabbrodiorites, petrology, 176A3:31–33

- gabbroic rocks
 alteration, 147B14:264–267; 15:296–298; 153A3:81–85; 4:152, 154–158; 5:195–201; 6:235–238; 7:265–267
 aluminum vs. sodium + potassium, 153B13:282
 aluminum vs. titanium, 153B13:282
 amphiboles, 147B3:59–75
 anorthite, 153B27:480
 bulk chemistry, 153B10:215–222
 calcium-magnesium-iron plot, 153B27:484–487
 calcium number vs. depth, 153B10:220
 chromium oxide, 153B27:488–489
 CIPW norms, 153B28:494
 composition, 153B28:495; 176B3:1–13; 6:82; 8:1–60; 209B1:7
 compressional wave velocity, 153B25:447, 453–454
 cores, 153B10:186
 cumulate vs. liquid composition, 147B1:9–10
 deformation, 147B14:267–271; 153A4:158–167; 5:204–209; 6:244–251; 7:267–271
 density vs. porosity, 153B25:446
 digital images, 209A6:90
 electron microprobe data, 209B2:1–13
 exposure, 179A4:76
 fluid inclusions, 153A3:86–88; 5:202; 153B22:404–406
 forsterite, 153B27:481
 geochemistry, 123A5:323; 153A4:141–151; 5:191–193; 6:231–235; 153B6:99–121; 8:491–504; 209A6:29–31
 grain size, 123A15:318–319; 179B(synthesis):7–8
 hybridization, 209B4:1–23
 hydrogen and oxygen isotopes, 147B14:280–281
 igneous contacts, 147A4:126–127
 index properties, 153A7:272–274
 iron-titanium oxides, 153B7:123–141
 isotopes, 153B15:306, 308, 310
 lithology, 147A1:5; 153B10:186–198; 209A7:2–3
 magmatic evolution, 153B5:77–98
 magnesium number, 153B10:210–211, 218, 220; 17:339
 mantle, 209B1:15
 melting, 147B2:21–58; 6:120; 11:213–226
 metamorphism, 147A4:129–133; 153A5:197–201; 6:238–241
 Mid-Atlantic Ridge, 209A1:1–139
 mineralogy, 153B27:471–490; 176B4:45; 8:1–60
 modal composition, 153A5:191; 179A4:107; 179B(synthesis):66–67
 modal layering and cyclicity, 153A6:229–231
 Mohorovicic discontinuity, 209B1:15
 nickel oxide, 153B27:482–483
 paleomagnetism, 147B22:383–391
 petrogenesis, 147B1:16; 176B8:5–14; 209A1:59–61
 petrography, 153A5:192
 petrology, 147A1:10–11; 4:114–122; 147B1:3–19; 7:135–155; 153A4:124–141, 152; 5:181–187; 6:218–230; 179A4:30–42
 phosphorus oxide vs. zirconium, 153B17:347
 photograph, 147B15:296; 153A4:126, 128–129; 6:246, 250; 153B9:167, 170; 209A3:58; 6:50, 55; 10:53
 photomicrograph, 209A6:61
 porosity, 153B25:446
 proportions, 209A1:98
 recrystallization, 153B8:143–153
 rotation, 179A4:56
 seismic velocity, 147B25:426
 sodium oxide, 153B10:232–233
 spreading centers, 209B1:4–6
 strontium vs. zirconium, 153B17:347
 structural data, 147B20:357–370; 176A3:67–69; 179A4:48–50
 sulfides, 147B5:92; 176B7:1–29
 tectonics, 153A1:11; 153B4:61–76
 thin sections and textures, 153A4:165
 titanium vs. chromium, 153B28:496
 trace elements, 153A5:192; 153B10:221
 transform valleys, 179A4:7
 upper mantle, 153B11:243–264
 veins, 147A4:136; 153A3:85–86; 5:201–202; 6:241–242; 153B9:155–178
 vs. depth, 153A6:226–229; 7:263–264
 whole-rock geochemistry, 147B29:481
See also intrusions, gabbroic; shear zones, gabbroic; veins, gabbroic
 gabbroic rocks, coarse-grained
 chemical interactions, 153B11:251–260
 mineralogy and texture, 153B11:244–251
 photograph, 153B11:245
 vs. depth, 153B11:244
 gabbroic rocks, gneissic, photomicrograph, 179A4:133
 gabbroic rocks, impregnated, vs. depth, 209A6:54, 66
 gabbroic rocks, olivine-bearing, petrology, 153A7:261–265
 gabbroic rocks, oxide-bearing, photograph, 147B2:45
 gabbroic segregations, composition, 147B6:121, 123–131
 gabbromylonites, photomicrograph, 209A6:85
 gabbromylonites, troctolitic, photograph, 209A6:82
 gabbronorites
 abundance, 176A3:256–259; 176B8:13–14
 alteration, 147B10:192–193; 153A4:154–155; 209A3:12–13
 Atlantis Bank, 118B8:155
 Atlantis II Fracture Zone, 118B26:449, 456–457
 clinopyroxenes, 176B10:11–12
 composition, 176B3:4; 179A4:9
 deformation, 209A1:102
 dikelets, 153B11:246
 gabbro genetic link, 118A4:71
 geochemistry, 153B28:491–495; 209A10:24–25
 lithology, 147B2:24, 27–28; 176A3:14; 176B(synthesis):11; 6:5–6, 11; 179A2:4–6; 209A3:5, 8–9; 10:8–9
 localization, 153B5:93–94
 magnesium oxide, 209A7:24
 mineralogy, 118B2:25–27; 3:71; 153B5:78–93
 olivine gabbro contact, 118B3:71; 26:456, 458
 olivines, 176B10:14
 orthopyroxenes, 176B10:13–14
 oxide petrography, 147A3:62
 petrography, 118B3:44; 26:445; 147A3:57–59; 147B1:4; 153B27:472; 179B2:8–9

- petrology, 147A1:10–11; 153A5:187–190; 176A1:12–14; 179A4:30–42; 179B(synthesis):8
 photograph, 153A4:137; 5:190, 205; 6:234; 153B11:245; 176A3:143
 photomicrograph, 147B17:320; 209A1:99–100; 5:62–63, 65
 plagioclase, 118B26:477; 176B10:9–11
 protoliths, 118A4:66
 rare earths, 147B2:74; 153B17:345, 347
 rift valleys, 147A1:9
 shear zones, 176A1:8–10
 static and dynamic metamorphism, 153A5:200–201
 textures, 118B2:25–27; 147A3:86–87
See also gabbros; leucogabbronorites; microgabbronorites; norites
 gabbronorites, equigranular, photograph, 147A3:59
 gabbronorites, intrusive, petrogenesis, 209A1:16–18
 gabbronorites, leucocratic, Site 733, 118A4:66
 gabbronorites, micropegmatitic
 composition, 147B11:215
 photograph, 147B11:215
 gabbronorites, mylonitic, photograph, 153B5:84
 gabbronorites, olivine
 geochemistry, 153B28:491–495
 lithology, 147B2:24, 27–28
 mineralogy, 118B3:71
 petrography, 118B3:47; 147A3:59–60; 209B4:3
 petrology and geochemistry, 147A1:10–11
 photograph, 147A3:63
 photomicrograph, 179A4:117
See also gabbros; norites
 gabbronorites, oxide
 lithology, 176A3:14; 176B6:5, 12–13; 209A5:6–8
 magnetic susceptibility, 176B11:11–12
 mineralogy, 153B5:78–93
 petrography, 118B26:448; 179A4:38–41
 photograph, 153A5:188; 153B5:79; 11:248; 209A5:115–116
 photomicrograph, 209A5:62–65, 112, 114, 117–118; 7:54
 rare earths, 153B17:345
 static and dynamic metamorphism, 153A5:200–201
 strain localization, 209A5:26
 gabbronorites, oxide-free, geochemistry, 118B26:478–479
 gabbronorites, oxide-rich, photomicrograph, 147B2:46
 gabbronorites, poikilitic
 Atlantis Bank, 118B3:44
 photograph, 147A3:58
 gabbronorites, tonalite-veined, oxide-rich, 147B2:44
 gabbros
 abundance, 118B21:361; 176A3:256–259
 age, 180B(synthesis):6
 alteration, 118A3:56; 6:129–132; 118B5:113–114; 14:261–262; 134A9:236; 147B13:235–254; 176A1:14–16; 176B1:3–6; 180B1:4–5; 183A9:23–24, 30; 187A1:11; 209A5:12, 15–16; 6:10–11; 10:12–17
 anorthite vs. mafic minerals, 118B3:42, 49–51
 average compressional wave velocity, 209A3:148
 basement, 149B38:613; 173A1:10–11, 19; 180B(synthesis):5–7; 183A9:12, 14
 calcium metasomatism, 209A3:19–20
 chemical stratigraphy, 176B(synthesis):14–17, 33–45; 10:16–21
 clasts, 173A9:279, 282–283
 clinopyroxenes, 176B10:11–12
 composition, 134B16:339; 149B26:462; 176A1:70; 3:268–280; 176B(synthesis):46, 67, 68; 8:60
 contamination, 205A4:183
 correlation, 176B(synthesis):43–45; 180B1:3
 crustal fluid interaction, 118B9:186
 crystallization, 118A6:110; 118B21:396; 140A2:57–58; 153B17:333–350; 179B2:14–16; 180B(synthesis):5
 cumulates 118A4:72; 118B26:473; 149A7:235–236; 163B7:74
 cumulative curved thickness, 147A4:128
 deformation, 118A3:51–52; 6:136; 24:426–427; 118B8:174–175; 11:231; 22:400, 403; 24:418–419, 422–426; 147A4:140–141; 147B20:367–369; 209A3:26–27; 5:123; 10:18–19
 density, 153B25:442–444
 dikelets, 153B11:246
 diopsidic olivine petrography, 118B26:447
 dredge hauls, 118B21:381, 385; 176B(narrative):18
 emplacement, 205B1:10–12; 9:12–13; 209A3:19
 europium/samarium vs. samarium, 153B18:359
 fabric, 147B17:317–328
 finite strain intensity and texture, 118B24:418–419
 fluid flow, 176B4:1–56
 fluid inclusions, 153B22:410
 foliation, 176B5:30
 formation location, 118B26:441
 forsterite, 153B17:338
 fractionation trends, 118B1:12–13
 fracture density, 118A6:105
 gabbronorite, 118A4:71
 geochemistry, 118A4:71–73; 118B26:470–488; 134A9:200–201; 147A3:89–91; 153A4:144–148; 153B18:351–362; 28:491–495; 170A4:134, 137, 140–141; 176B(synthesis):1–69; 12:1–18; 180A11:6; 209A5:36–38, 154–158; 6:106–108; 10:24–25, 114–124
 geochronology, 149B28:489–495; 180B2:1–35
 grain size vs. depth, 176A3:114
 hydration source, 118B9:209
 ilmenite replacement, 118A6:135
 interaction with seawater, 147B12:227–234
 interstitial olivine-bearing titanium oxide and inverted pigeonite, 118B3:49, 72
 intrinsic rock properties, 118B28:556
 intrusions, 180B3:8–11
 ion probe data, 153B17:339–346
 isotopes, 153B15:315–316
 lanthanum/scandium vs. ytterbium/scandium, 153B18:359
 lanthanum/ytterbium vs. ytterbium, 153B18:359
 late intrusives, 118B26:445
 layering, 118A6:121–122
 lead isotopes vs. strontium isotopes, 153B15:314

- lithology, 147B16:117; 149A6:167–175; 153B10:186–198; 163A3:26; 5:52; 163X_A5:4; 176A3:14; 176B6:6, 10–11; 179A2:4–6; 4:31–34; 179B(synthesis):8; 180A7:9–10; 209A3:4–5, 8–9; 5:4–9; 6:3–8
- magmatism, 118B1:6, 12; 26:460; 149B1:15–16; 153B11:261
- magnesium number, 118B4:77–80, 82; 153B11:254; 17:338, 340, 349; 18:354; 31:538
- magnesium oxide vs. calcium oxide, 153B17:349
- magnetic anomalies, 118B17:320
- magnetic properties, 118A4:73; 6:197, 209; 118B16:283–303; 17:318–319; 153A5:199–200; 6:240; 153B24:429–436; 170A3:70–71; 176B11:1–69; 205A4:42–43, 143
- median destructive field, 209A3:151
- melts, 179B2:14–16
- metamorphism, 118A3:51–53; 4:67–71; 147B10:189–212; 31:497–513; 153B31:531–546; 209A5:17
- microgabbro contact, 118A6:122
- mineralogy, 118B1:12–13; 26:460, 470–488; 153B5:78–93; 176B(synthesis):17–18
- minor elements, 170A3:77; 4:138
- modal proportions, 153A4:150; 179B2:28
- neodymium isotopes vs. strontium isotopes, 153B15:311
- ophiolites, 179A4:12
- oxide and sulfide mineralogy, 118A6:122–129
- parental magma, 118B4:85–86, 98–101; 6:139–141
- permeability, 118A6:200–205; 118B19:333–339
- petrography, 118A3:50; 4:65–67; 5:85; 118B3:47; 6:143; 26:445, 448; 147A3:6; 179A4:40–41; 179B2:9; 153A4:145; 6:235; 153B25:445; 179A4:38–41; 179B2:6–9; 205A4:31–32
- petrology, 118B8:154–155; 147A1:10–11; 4:114–122; 153A3:62–64; 153B4:68–71; 176A1:12–14; 179A4:30–42; 179B2:1–76; 180A1:22–23; 11:5; 205A4:28–35
- phase assemblages, 118B2:26, 33
- phase layering, 118A6:128
- photograph, 147B6:122; 15:297–298; 149B28:491; 153A3:82, 84, 91; 6:220–224; 7:269–270; 153B7:137–141; 9:170; 176A3:111, 209; 179A4:101–102; 180A1:52; 11:18, 26, 28; 209A3:84, 107; 9:56; 10:49–53, 56, 110
- photomicrograph, 179A4:120–121; 180A11:19–21; 180B3:28; 209A5:122; 6:56
- physical properties, 118A4:73–75; 6:90, 209–210; 118B18:323; 209A3:142; 10:125–126
- plagioclase neoblasts, 118A6:131
- platinum group elements, 147B4:84, 86
- porosity, 118B14:261–262
- protoliths, 118A4:67; 209A5:18
- pseudostratigraphy, 179B(synthesis):7–11
- quantitative model, 179B2:14–16
- rare earths, 147B4:87
- recrystallization, 118A6:104, 108; 118B26:441
- reintrusion of migrating melt, 118B26:442–443
- replacement minerals, 118A3:51–52; 4:65–66
- residual models, 137/140B5:60
- rift valleys, 147A1:6, 9
- scan, 176A3:123–125
- seawater interaction isotopic effects, 118B8:170, 174
- serpentinized porphyroclasts, 118A3:51
- sills, 139A7:337–338
- slow-spreading center cooling, 118B7:175
- sources, 149A7:258
- Southwest Indian Ridge transforms, 118B21:361
- stratigraphy, 176B(synthesis):1–69
- structural data, 176A1:3–5; 176B(synthesis):25–26; 205A4:36
- synthesis, 179B(synthesis):1–125
- tectonics, 118B24:427–428; 176A1:6–8; 176B10:25–27; 179B2:3–4
- textures, 118A6:119–121; 118B24:418, 421; 147A3:86; 176A3:109
- thermal conductivity, 209A3:146; 5:160–161; 7:103
- thin sections, 153A6:247; 170A3:61; 4:109
- trace elements, 153A4:142–143; 6:233; 170A3:78; 4:139
- transform volcano, 118B21:366
- trapped liquid, 118A5:72
- upward evolution, 118B6:130–131
- uranium-lead dating, 180B2:24
- veins, 209A3:16
- xenoliths, 142B1:5–6
- X-ray fluorescence data, 170A3:76–79; 4:137–141
- See also* ferrogabbros; harzburgite/gabbro contact; leucogabbros; metagabbros; metatroctolite; microgabbros; norites; troctolites
- gabbros, altered**
- alteration intensity, 209A5:81
- lithology, 210A4:5–6
- photograph, 209A3:84–85; 9:40; 10:80–81, 88; 210A4:21; 210B9:46
- photomicrograph, 209A3:86, 89; 5:82
- sulfides, 209B3:1–18
- X-ray diffraction data, 209A10:80
- gabbros, amphibole, photograph, 173A9:281**
- gabbros, amphibolitized flaser, photograph, 149B26:453**
- gabbros, augen gneissic**
- Atlantis Bank, 118A6:130, 132
- anisotropy and shear-wave splitting, 118B11:236
- gabbros, brecciated**
- magnetic anisotropy, 180B21:1–7
- photomicrograph, 180A11:29
- gabbros, brown amphibole**
- hydrothermal alteration, 209A6:12–13
- petrography, 209B4:4
- photograph, 209A1:113
- photomicrograph, 209A6:72–73
- gabbros, brown clinopyroxene, 153A6:219–223**
- gabbros, calcitized, shearing, 180B3:5–6**
- gabbros, cataclastic**
- alteration, 153A4:156–157
- photograph, 153A4:156–157
- gabbros, chromium-rich, Atlantis Bank, 118B6:130**
- gabbros, coarse-grained**
- diallage, 147B14:274
- lithology, 179A4:31–34
- olivine, 179A4:111
- oxide, 179A4:104

- photograph, 153A4:128; 6:221, 224–226; 179A4:130
 photomicrograph, 179A4:132
 gabbros, compound olivine, 176A3:13–14
 gabbros, crenulate contacts, photograph, 209A1:135
 gabbros, crosscutting, lithology, 209A10:5–10
 gabbros, cumulate synrift, 149B47:729
 gabbros, deformed
 photograph, 153B9:165; 209A3:120
 photomicrograph, 180B3:28; 209A3:100; 9:76
 pyroxene porphyroclasts, 118B8:161–162
 recrystallized grains, 118B22:403–407
 gabbros, diallage, deformation texture, 147B14:290
 gabbros, disseminated iron-titanium oxide, 118B3:47
 gabbros, disseminated iron-titanium oxide olivine, 118B3:71
 gabbros, disseminated oxide, 118B4:90
 gabbros, disseminated oxide olivine
 Atlantis Bank, 118B2:32
 contacts, 118B26:459, 461
 crystallization, 118B2:35, 37
 low-calcium pyroxene formation, 118B2:33
 mineralogy, 118B2:26
 modality, 118B2:31
 origin, 118B26:461
 petrography, 118B26:448
 textures, 118B2:26, 38; 26:459–460
 vs. olivine gabbro, 118B26:459
 gabbros, equigranular, Atlantis Bank, 118A6:109
 gabbros, evolved oxide-bearing, chemistry, 118B1:5
 gabbros, fine-grained
 lithology, 205A4:26–28
 olivine, 179A1:20, 24; 4:99, 105, 108, 116
 oxide olivine, 179A4:104
 petrology, 179A4:30–42; 179B(synthesis):8
 photomicrograph, 205A4:106
 gabbros, flaser
 composition, 149B26:451, 466
 ocean–continent transition, 149B47:723, 728
 photograph, 149A7:234; 149B26:454, 459, 462
 gabbros, foliated
 orientation, 118B21:396
 oxide, 179A4:144
 photograph, 147A3:85; 147B13:243; 176A1:54; 210A4:21
 physical properties, 118A6:157
 seismic data, 118B10:224
 gabbros, glomeroporphyritic pyroxene, 170A3:60, 62
 gabbros, gneissic
 alteration, 153A4:156
 magnetic susceptibility, 176B11:61, 63
 petrology, 153A3:48–50, 63–64
 photograph, 153A3:53; 6:224, 243
 gabbros, granular, Atlantis Bank, 118A6:109–110, 117
 gabbros, holocrystalline
 photograph, 205A1:57; 4:86
 photomicrograph, 205A1:57
 gabbros, interstitial olivine-bearing iron-titanium oxide, 118B3:72
 gabbros, iron-titanium oxide
 alteration, 176A3:142
 anorthite vs. mafic mineral content, 118B3:64
 Atlantis Bank, 118A6:100, 102, 209
 Atlantis II Fracture Zone, 118B26:448
 crosscutting relationships, 118B4:83, 98
 deformation, 118A6:121; 118B4:90
 density, 118B11:232
 distribution, 118A6:113–115
 electrical conductivity, 118B18:330
 euohedral crystals, 118B3:44
 geochemistry, 118A6:146–147; 118B15:276
 grain size variation, 118B3:48
 Layer 3, 118B17:319
 magmatic foliation, 118A6:121
 magmatic lamination, 118B3:44, 48
 magnetic properties, 118B16:288–289, 292–293; 17:312–315, 318
 metamorphism, 118A5:116
 mineralogy, 118B3:41, 44, 49, 71, 72
 modal abundance, 118B3:48
 olivine gabbro contact, 118A6:119; 118B3:56, 59, 73
 permeability, 118A6:205
 petrography, 118A6:112–117; 118B3:43
 phase equilibria, 153B31:536, 540
 photomicrograph, 179B2:33; 180B8:43
 pyroxene-rich layer, 118A6:116
 seismic reflection profiling, 118B10:224
 textures, 118B3:41, 44
 unimodal distribution, 118B3:61
 variations, 118B3:59, 61–62
 velocity, 118B11:233–234, 238
 viscous flow, 118B22:401–403
 well-logging, 118A6:178
 gabbros, leucocratic
 basement, 173A1:13
 lithology, 179A2:5–6
 photograph, 179A4:146
 veins, 179A4:55; 179B(synthesis):8
 See also leucogabbros
 gabbros, lineated
 alteration, 153A4:156
 petrology, 153A4:127–129; 7:261–265
 photograph, 153A4:127, 130, 138, 140, 159, 161
 gabbros, magnesian, normative, 118B1:5
 gabbros, magnesium-aluminum, phase equilibria, 153B31:536, 540
 gabbros, magnetite-ilmenite
 magnetic susceptibility, 118A6:151–152, 154
 magnetometer logs, 118A6:198
 metasomatic gabbro, 118A6:119
 oxygen isotopes, 118B6:139
 gabbros, massive, photograph, 179A1:17–18
 gabbros, medium-grained
 granular, 179A4:115
 olivine, 179A1:19–20, 23; 4:105, 112–113
 oxide, 179A4:119
 petrology, 179A4:30–42; 179B(synthesis):8; 205A4:28–35
 photograph, 179A4:103
 photomicrograph, 205A4:106
 gabbros, meta-oxide, photograph, 179A4:134–136
 gabbros, metamorphosed, mineralogy, 118B8:167

- gabbros, metamorphosed cumulate, geochemistry, 149B27:471–488
- gabbros, metasomatized, Atlantis Bank, 118A6:119
- gabbros, miarolitic, geochemistry, 209A1:118
- gabbros, microcrystalline
 lithology, 205A4:26–28
 petrology, 205A4:28–35
 photograph, 205A4:88, 91, 94, 96, 98, 101, 103
 photomicrograph, 205A1:57–58; 4:89–90, 92, 106–110, 113
- gabbros, mixed grain sizes, photograph, 209A1:134
- gabbros, mylonitic
 Atlantis Bank, 118A6:130, 132
 deformation, 118A6:103
 density, 118B11:232
 physical properties, 118A6:157
 plagioclase composition, 118B9:199
- gabbros, mylonitized, 153B6:117; 176A3:147
- gabbros, noncumulate quartz-magnetite, 180A1:13–14
- gabbros, oceanic
 empirical velocity relations, 176B2:4
 hydrothermal alteration, 153B21:389–398
- gabbros, oikocrystic olivine, lithology, 209A6:6–7
- gabbros, olivine
 abundance, 176A3:256–259
 alteration, 147B14:264–267; 153A4:154; 209A5:13; 10:14–17
 Atlantis Bank, 118A6:89, 90, 100, 102, 208, 209
 bimodal distribution, 118B4:103–104
 chemical stratigraphy, 176B(synthesis):35–37, 41–45
 clinopyroxenes, 176B10:11–12
 composition, 147B14:274; 176A1:70; 176B3:2–13; 8:13–14, 22
 contacts, 118B2:28
 crosscutting veins and lenses, 118B26:457
 crystallization, 118B2:35, 37
 deformation, 118B1:3; 24:426; 26:457, 467, 501–502, 534; 147A4:141; 147B20:367–369; 179A4:54
 differentiation, 176B10:16–21
 elevated oxide percentages, 118A2:31, 33
 folded contacts, 118B26:469
 formation, 118A6:110–111
 gabbro-norite relationship, 118B26:509–510
 geochemistry, 118A6:146; 118B15:276; 147A4:144; 153A4:144–148; 153B28:491–495; 179A4:8–9
 grain size, 118B2:29; 176B(synthesis):12–14
 high-temperature microscopic veins, 176B4:6–7
 hornblende, 176B10:14
 hydrodynamic crystal sorting, 118B2:29
 igneous laminations, 118A6:125
 ilmenite/magnetite ratio, 118A6:124
 intercumulus phases, 118A6:111
 iron-titanium oxide/gabbro contact, 118A6:119; 118B3:56, 59, 73
 lithology, 118B2:34; 26:265, 267; 147B16:117; 153B10:186–198; 176A3:14–15; 176B(synthesis):7–14; 6:3–7, 9; 179A2:4–6; 4:31–34; 209A6:6–7; 10:6–10
 lower oceanic crust, 176B(synthesis):18–22; 10:22–25
 magnetic properties, 118B16:287–290; 17:311–313; 153B24:431; 176B11:8, 18–20, 47, 53
 metamorphism, 153A5:198–199; 6:240
 microgabbro contacts, 118B26:457–458
 mineralogy, 118B2:25, 30; 3:41; 153B5:78–93
 modal layering, 118B26:442; 153A6:231
 modality, 118B2:29, 31
 nickel-rich composition, 118B1:6
 olivine gabbro vs. olivine-free gabbros, 118B26:459
 olivines, 176B10:14
 oxide gabbro contacts, 118B2:27, 34; 4:79; 26:457, 459
 oxide-rich intervals, 118B26:465–466
 patchy olivine gabbro relationship, 118B26:458
 pegmatitic patches, 118B26:468
 permeability vs. log porosity, 118B14:267
 petrogenesis, 118B26:459
 petrography, 118A6:107–111; 118B26:445; 147A3:60; 147B7:139; 8:159–160; 153B27:471; 179A4:38–41; 179B2:7–8; 209B4:3
 petrology, 147A1:10–11; 4:114–122; 153A5:182–186; 7:261–265; 153B4:68–71; 176A1:12–14; 179A4:30–42; 179B(synthesis):8
 photograph, 147A3:63; 4:132, 142; 147B15:297; 153A4:134–135, 138; 5:183, 185, 188–189, 203; 6:220, 223, 225, 227, 231–232, 237, 244; 7:264–266, 270; 153B5:79, 84; 9:161, 165–167; 22:401, 403; 176A1:53–56; 209A10:60–61
 photomicrograph, 147B14:290; 176B4:23–24, 28–32, 39–40; 11:66–67; 209A6:59; 10:64
 plagioclases, 176B10:9–11
 rare earths, 153B17:345, 347
 relation to oxide gabbro and norite, 153B5:82
 rift valleys, 147A1:9
 scan, 176A3:125
 size grading, 118A6:129
 structure, 176A1:3–5, 8–10
 sulfides, 118B4:90
 tectonics, 153A1:11
 textures, 118A6:121; 118B2:25; 38, 41
 thickness, 147A4:128; 176B(synthesis):50, 54–56
 titanium oxide, 118B3:51
 troctolite, 118B2:27
 velocity, 118B11:233, 238
See also veins
- gabbros, olivine-bearing oxide, 179A4:120
- gabbros, olivine iron-titanium oxide, 118B3:48
- gabbros, olivine oxide
 fine- and coarse-grained contacts, 118B2:32
 modality, 118B2:33
- gabbros, olivine pigeonite
 crystallization temperature, 118B3:49
 petrography, 118B3:47
- gabbros, olivine poikilitic, 118A6:109
- gabbros, orthopyroxene-bearing, 176A3:256–259
- gabbros, oxide
 absence of olivine, 118B26:448
 abundance, 176A3:258–259
 alteration, 153A3:76–78; 4:155; 209A9:9
 chemical stratigraphy, 176B(synthesis):39–43
 clinopyroxenes, 176B10:11–12
 composition, 118B5:120, 123; 26:483, 486; 176A1:70; 176B3:2–13; 8:13–14; 12:3–5; 179A4:9

- cross-foliated contacts, 118B26:460
deformation, 118B26:469, 486; 153B6:105;
 176B11:18–20; 179A4:54
differentiation, 176B(synthesis):23–24
distribution, 153A4:133; 6:228
emplacement, 118B2:33
felsic veins, 176B11:17
formation, 118B26:486
Formation MicroScanner imagery, 176A3:238–239;
 209A7:88, 115
geochemistry, 118B26:456, 479–483; 209A10:24–25
igneous sulfides, 118B5:114
lanthanum/scandium vs. ytterbium/scandium,
 153B18:359–360
lithology, 118B2:34; 153B10:186–198; 176A3:14–15;
 176B(synthesis):7–11; 6:4, 11–12; 179A2:4–6;
 4:31–34; 209A9:3–7; 10:3–10
magmatic foliation, 118B24:427
magnetic properties, 176B11:12–13, 45–51, 54;
 209A10:66–67
melts, 176B8:8–9; 10:22
metamorphism, 153A5:200–201; 6:239–240
mineralogy, 118B4:90; 26:479–480, 482–483
modal layering, 179A4:36–37
nickel-rich composition, 118B5:120, 123
olivines, 118B2:27, 31, 34; 4:79; 176B10:14
orientation, 179B3:27–28
oxide-free gabbro contact, 118B26:480, 482, 488
penetrative foliation, 118B26:460
petrography, 118B26:448; 153B27:472; 179A4:38–41;
 179B2:8
petrology, 153A4:132–134; 6:226; 153B4:68–71;
 176A1:12–14; 3:31–33; 179A4:30–42; 179B(syn-
 thesis):8, 34–37
photograph, 153A3:54, 89; 4:135, 137–138; 5:201;
 153B22:403; 179B3:19; 209A10:51
photomicrograph, 179A4:100, 118, 122, 137;
 209A7:82; 10:65
plagioclases, 176B10:9–11
protoliths, 118B26:469–470
recrystallization, 118B4:91
structure, 179B3:9
sulfur-rich composition, 118B5:120, 123
textures, 118B26:461, 498; 153A6:231
troctolite relationship, 118B2:27, 29
trondhjemitic intrusion breccia, 118B26:503
undeformed olivine gabbros, 118B26:470
gabbros, oxide-bearing vs. oxide-free, 118B26:456
gabbros, oxide foliated, 118B26:498–499
gabbros, oxide olivine
 clinopyroxenes, 176B10:11–12
 clothespin structure, 118B26:538
 composition, 176B3:2–13
 contact relations, 118B26:462, 464
 crystallization, 118B2:35, 37
 deformation, 118B26:469
 differentiation, 176B10:16–21
 lithology, 179A4:31–34
 mineralogy, 118B2:26–27
 olivines, 176B10:14
 origin, 118B26:464–465
 oxides, 118B26:462
 petrography, 179A4:38–41
 petrology, 179A4:30–42
 plagioclases, 176B10:9–11
 textures, 118B2:26–27; 26:464, 475
 weakly ductile deformed shear zones, 118B26:468
gabbros, oxide-free
 deformation resistance, 118B26:462
 geochemistry, 118B26:475–479
 hypersolidus vs. subsolidus texture, 118B26:498
 mineralogy, 118B26:476–477
 origin, 118B26:473
gabbros, patchy olivine
 Atlantis II Fracture Zone, 118B26:443–445
 intrusive contacts, 118B26:462
 petrogenesis, 118B26:458
 petrography, 118B26:447
 protoliths, 118B26:470
 textures, 118B26:467–468, 507–508
gabbros, patchy oxide olivine, 118B26:448
gabbros, pegmatitic
 alteration, 153A4:156
 deformation, 173A9:288–290
 lithology, 209A5:6
 magnetic susceptibility, 176B11:16
 petrology, 153A3:63; 4:129, 131; 173A9:279–280
 photograph, 153A3:55; 4:133, 137, 144; 5:183;
 173A9:280; 209A1:92; 3:71
 photomicrograph, 173A9:283
 textures, 209A3:8
gabbros, pegmatoidal olivine, photograph, 176A1:55
gabbros, pigeonite
 Atlantis Bank, 118A6:116, 120
 crystallization, 118B3:49
 petrography, 118B3:47
gabbros, pigeonite-oxide, Atlantis Bank, 118B2:32
gabbros, plagioclase-clinopyroxene-olivine, 183A9:23–
 24, 30
gabbros, plagioclase-pyroxene, 205A4:26–28
gabbros, poikilitic, Atlantis Bank, 118A6:110, 116
gabbros, poikilitic olivine
 composition, 153B17:336–337
 petrology, 153A4:131–132; 5:186–187; 6:223–226;
 7:263
 photograph, 153A4:127, 131–132, 139–140, 144;
 6:221, 225, 228; 7:262
gabbros, porphyroblastic oxide, 176B11:61
gabbros, porphyroclastic
 amphibole replacement, 118B6:134
 Atlantis Bank, 118A6:130
 foliation, 118A6:131; 118B6:134
 ilmenite-magnetite intergrowths, 118A6:134–135
 photograph, 153B9:164
 primary petrography, 118A6:107
 protoliths, 118A6:107
gabbros, primary, Atlantis Bank, 118B26:445
gabbros, primitive and evolved, 118B3:44
gabbros, pyroxene
 deformation, 118A3:63
 distribution, 153A4:133
 geochemistry, 118A3:54

- lithology, 170A3:58–60; 4:108
 photograph, 170A4:108
 vs. depth, 170A3:61
 gabbros, quartz-olivine
 lithology, 209A7:4–7
 photograph, 209A7:49–50
 gabbros, rodingitized
 lithology, 209A9:3–7
 photograph, 153A3:53; 209A9:66
 photomicrograph, 209A9:66
 gabbros, sheared, photograph, 180A1:54
 gabbros, tectonized, lithology, 210A4:6–7
 gabbros, troctolitic
 abundance and composition, 176A3:256–259
 aluminum vs. magnesium/(magnesium + iron + man-
 ganese) ratio, 153B21:394
 aluminum vs. (sodium + potassium), 153B21:394
 aluminum vs. titanium, 153B21:394
 Atlantis Bank, 118A6:90, 209
 chemical composition, 176A1:70
 geochemistry, 118B26:478
 lithology, 118B26:468–469; 176A3:13–15; 176B6:9–
 10; 179A2:4–6
 metamorphism, 153A5:197–198; 6:241
 mineralogy, 153B21:393
 olivines, 176B10:14
 petrography, 118B26:447
 petrology, 179A4:30–42; 179B(synthesis):8
 photograph, 153A5:198; 179A4:130
 photomicrograph, 179A4:114; 209A6:84, 87
 gabbros, troctolitic oxide, petrography, 118B26:448
 gabbros, trondhjemitic, photograph, 176A3:147
 gabbros, undeformed
 alteration, 118A6:138
 magnetic anisotropy, 180B21:1–7
 photomicrograph, 180B3:28
 troctolites, 118B26:469
 gabbros, varie-textured olivine, photograph, 176A1:55
 gabbros, veined mylonitic
 geochemical logs, 154A5:217
 hydrous and anhydrous composition, 118B9:187
 petrography, 118B9:215
 gadolinium
 Atlantis Bank, 118A6:175, 178; 118B15:280
 clay, 180B17:6
 Costa Rica Rift, 111B11:121–122; 137/140B30:345–
 346
 fresh and altered dacite, 193B12:4
 Ontong Java Plateau, 130B48:777
 Paleocene/Eocene boundary, 199B16:3
 sediments, 192B4:1–6
 Site 794, 127/128B(2)89:1416, 1420–1421
 Site 796, 127/128B(2)89:1423
 Site 797, 127/128B(2)89:1426–1427
 vs. depth, 146A(1)6:287; 150A10:342–343;
 160A8:285–287
 vs. europium, 158B12:158
 vs. phosphorus, 144B44:758
 galena
 chemical composition, 193B3:19
 gabbros, 176B7:5–7
 groundmass, 193B3:3
 massive sulfides, 193A4:36; 193B10:5–7
 mineralization, 169A3:69
 parageneses, 193A4:159
 photomicrograph, 169B5:19; 193A4:152–153
 veins, 169A3:75
 gallium
 gabbros, 176B8:4–14
 mineral separates, 158B2:32
 veins, 176B9:16
 volcanic rocks, 135B30:533–542; 183B17:2
 vs. depth, 131B28:350, 356–357; 158B4:54, 58, 60, 62
 vs. loss on ignition, 148B10:140
 vs. silica, 151B19:360
 gallium/aluminum oxide ratio, vs. depth, 131B35:444
 gamma Proteobacteria, 187B1:6; 6:6–10, 14–19
 gamma ray attenuation bulk density power, vs. fre-
 quency, 202A9:56
 gamma ray attenuation porosity evaluator
 composite sections, 138A(1)5:79–85
 headspace gases, 138A(1)9:152–153; 10:229–230;
 11:302; 12:357, 359; (2)13:704; 14:753–754;
 15:843; 16:921–922
 Milankovitch cycles, 130B37:623–639
 Ontong Java Plateau, 130A10:531–532, 536; 13:553–
 556; 130B44:729–730
 gamma ray-density-porosity logs
 Site 931, 155A7:174
 Site 933, 155A9:236–237
 Site 935, 155A11:317–318
 Site 936, 155A12:377–378
 Site 940, 155A16:498–499
 Site 944, 155A20:632–633
 Site 946, 155A22:692–693
 Site 950, 157A4:99–100
 Site 953, 157A7:391–394
 Site 966, 160A7:208–210
 Site 967, 160A8:274–277
 Site 968, 160A9:330–331
 Site 970, 160A11:410–411
 Site 971, 160A12:449
 Site 974, 161A4:109
 Site 975, 161A5:172–173
 Site 976, 161A6:286–290, 297
 Site 977, 161A7:351–353
 Site 982, 162A4:135–138
 Site 984, 162A6:217–219
 Site 986, 162A9:337–339, 342–343
 Site 987, 162A10:385–387
 Site 994, 164A6:158–160, 167–170
 Site 995, 164A7:230–233
 Site 999, 165A4:214–220
 Site 1000, 165A5:284–286
 Site 1001, 165A6:352–354
 Site 1003, 166A6:130–136
 Site 1005, 166A8:212–214, 223–227
 Site 1006, 166A9:278–282
 Site 1007, 166A10:339–345
 Site 1011, 167A(1)5:122–123
 Site 1014, 167A(1)8:214–216
 Site 1016, 167A(1)10:276–277

- Site 1020, 167A(1)14:424–425
 Site 1022, 167A(1)16:487–489
 Site 1017, 167A(1)11:280–281
 Site 1018, 167A(1)12:347–348, 351
 Site 1019, 167A(1)13:382–383
 Site 1035, 169A3:147–149
 Site 1037, 169A5:244–247
 vs. depth, 156A6:180–183, 185–188; 157A9:486–489;
 10:549–551; 159A5:140–144; 6:211–212;
 160A6:150–151; 164A9:323–326; 165A3:114–
 119
- gamma ray logs
 basalts, 127/128B(2)54:873; 185A3:42; 185B1:24
 black shale, 198A3:43
 calibrated by strip samples, 127/128B(2)86:1367
 carbonate content proxy, 154A9:422
 carbonates, 144B17:339
 Cenomanian/Turonian boundary, 198A3:111
 clay content, 127/128B(1)1:6; 138A(2)17:1001–1002
 clay minerals, 127A7:393
 composite section, 154A7:296–297; 8:354
 comparison with caliper logs, 151A9:304
 core-log depth correlation, 127/128B(2)65:1024–1025
 core loggers, 151B20:369–376
 cores, 150A5:51–59
 correlation, 133A(1)14:603; 172A6:303–304;
 174AXS_A5:63; 181A7:46
 cycles, 127/128B(1)32:569; 143B20:320–326;
 174A_A5:183–184
 debrite, 157B3:36
 décollement zone comparison, 171A_A5:69
 depositional history, 144B18:363
 depth corrections, 127/128B(2)66:1038–1040;
 150A10:356–357; 29:461–468
 depth shifting of logs, 127/128B(2)88:1398; 89:1415
 factor logs, 171A_A3:22, 26
 filtered vs. unprocessed logs, 129B30:536
 fractionation models, 127/128B(2)54:881
 gabbros, 179A4:63
 gouge, 161B25:334
 high-quality methods, 154B6:117–134; 23:351
 igneous rocks, 209A10:40
 linear regression, 154A9:423; 154B31:470–472
 lithology, 127/128B(2)89:1416–1417; 152B37:440–
 441; 160B38:485, 487; 173A3:51–61; 185A4:44;
 191A1:17–18; 191B6:1–21; 205A4:60–61
 lithoporosity, 146A(1)7:364–365
 logging-while-drilling, 204A3:90–93, 100; 4:92; 6:64;
 9:70
 measurements, 193A3:93; 4:60–61, 64
 Nankai Trough, 131A6:218–219, 231–232, 234
 natural gamma rays, 129A3:148; 4:224; 147A3:108;
 150X_B6:67–68
 oceanic anoxic events, 198A3:110
 Olduvai Subchron, 127/128B(1)23:403
 Ontong Java Plateau, 130A9:453, 455, 468–493
 opal-A/opal-CT transition, 127/128B(1)1:22
 oxygen isotopes, 127/128B(1)23:403, 405
 paleoclimatology, 128A4:188–192
 peaks, 207A4:33–34
 power spectra, 127/128B(1)23:407; 128A4:217; 5:369;
 189A5:112
 processed data, 133B57:803–817; 135B59:936–937,
 939, 942–943, 946–947
 reprocessing, 129B34:639
 responses, 128A3:103–104
 sediments, 135B8:140; 144B6:235–236; 154A4:111;
 7:313; 177A8:20–22; 190A4:31–32, 81
 seismic stratigraphy, 146A(1)7:364–365
 signal filtering, 129B30:534–535
 Site 504, 148A2:76–77, 99–109
 Site 735, 176A3:81–84
 Site 747, 120A6:139; 120B(2)58:1053
 Site 750, 120A9:325
 Site 754, 121A8:210
 Site 792, 126A8:289
 Site 793, 126A8:389
 Site 794, 127A4:142, 147, 156–159, 164–167; 127/
 128B(2)56:893; 68:1069; 85:1362; 89:1416,
 1418–1419; 128A3:103–104, 107–108, 119–120
 Site 795, 127A5:244–245; 127/128B(2)85:1365
 Site 796, 127A6:303–306, 319–322; 127/
 128B(2)89:1416, 1422
 Site 797, 127A7:393–395, 400–402, 416–421; 127/
 128B(1)1:7; (2)56:893; 58:920; 85:1366;
 89:1417, 1424
 Site 798, 127/128B(1)23:399, 401; (2)88:1398–1400;
 128A4:185–187, 212, 215–216, 225–232
 Site 799, 127/128B(2)88:1399, 1403, 1406–1407;
 128A5:332–338, 362–364, 367, 369, 380–385,
 389–397
 Site 800, 129B34:640–641
 Site 801, 129B32:646–647
 Site 802, 129B34:650
 Site 835, 135A(1)5:231, 234
 Site 838, 135A(1)8:381–383
 Site 839, 135A(1)9:464
 Site 840, 135A(1)10:552–553
 Site 841, 135A(1)11:658
 Site 843, 136B13:153–154, 156
 Site 848, 138A(2)13:734
 Site 852, 138A(2)17:1020
 Site 856, 139A6:252, 254
 Site 858, 139A7:566–567
 Site 859, 141B36:432–433
 Site 863, 141B36:436–438
 Site 869, 143A4:78–79
 Site 873, 144A5:189
 Site 874, 144A6:238–239
 Site 896, 148A3:180–182
 Site 900, 149A7:262
 Site 907, 151A5:111
 Site 908, 151A6:150
 Site 911, 151A9:315–316
 Site 931, 155A7:171
 Site 936, 155A12:381–382
 Site 974, 161A4:110
 Site 975, 161A5:174–175
 Site 976, 161A6:291–292
 Site 995, 164A7:227–229
 Site 999, 165A4:190, 192–194, 211–213

- Sites 676 and 1047 comparison, 171A_A6:87
sources of artifacts, 129B30:537-539
spectrometry tools, 102A3:95-97, 110, 112; 102B2:19;
123A4:218, 222; 5:334
statistical analysis, 159B17:167
summary, 130A7:264-265; 130B48:776-778;
131A6:257-262; 137/140B30:343-344;
140A2:113-114, 198-200
terrigenous content, 127/128B(2)65:1024-1025, 1028
time-series analysis, 129B30:535
turbidites, 166B5:49
uranium accumulation, 138A(2)15:847
volcanic ash-flow tuff, 127/128B(2)48:793
vs. age, 154A6:267; 7:327; 9:440; 154B6:118
vs. aluminum yield, 138A(2)13:726
vs. bulk density logs, 194A6:65
vs. carbonate content, 154A9:424
vs. composite depth, 208A6:77
vs. deep resistivity, 174A_A4:151
vs. density logs, 128A4:215; 189A6:123
vs. depth, 134B33:581; 36:632-633, 636, 638-639,
642; 135A(1)4:167; 9:474-475; 10:554;
134B7:129; 136A5:88-91; 138A(1)9:174; 10:249;
11:319; (2)14:793; 15:876; 16:949, 955;
17:1016; 139B36:577, 579; 143A6:125, 165,
168; 7:243, 247; 8:294; 9:355-356; 143B20:325;
144A6:246-247; 144B40:666; 145A3:76; 5:184;
6:279; 8:381; 149A6:199; 7:254, 256;
150A6:111; 7:177, 179, 183-184; 8:237-238,
240; 9:292, 295; 10:335, 337, 339-341;
150X_B6:69-74; 151A5:105; 6:149; 7:205;
8:258, 260; 9:302, 304; 151B20:370, 372-376;
152A6:69; 7:85; 8:104; 9:127, 143, 150; 11:240-
241; 12:273; 152B37:442; 154A4:62-66, 122,
129, 132-133; 5:158-160, 211-217; 6:236-237,
261, 263, 266; 7:286-288, 298-299; 324-325;
8:342-345, 360-361, 364-365, 398-399, 401;
9:439-440; 154B10:179; 155A7:159; 9:226-227;
10:267; 11:305-306; 12:363, 365-366; 16:490,
492; 20:622-623; 22:683-684; 26:423-424;
156A5:74, 79-86; 6:115, 162, 165; 156B22:286;
157A4:88, 96-102; 6:167, 169, 175-178; 7:377;
9:472, 490-493; 10:539, 552-554; 159A5:148-
150; 6:202-204; 8:290; 160A7:200-213; 8:264-
271, 274-284; 9:323-324, 327; 11:404-408;
12:446-447; 14:491; 161A4:101-104, 107-110;
6:267-270, 273-275; 7:340-344; 9:415-416,
421-426; 162A4:123, 125; 6:204, 214-216;
9:326; 10:378; 164A6:139-140; 7:156-157;
8:210-211, 227-229; 9:308, 320-322;
165A3:92-95, 104, 109-113; 5:272-273; 6:338-
339; 165B11:195, 199; 166A6:102-108, 124-
129, 137-143, 148-151; 8:197-200, 215-217,
221-222, 228-232; 9:261-263, 274-277, 283-
287; 10:322-323; 167A(1)5:117-119; 8:209, 211;
10:271-272; 12:343; 13:377, 379, 386-387;
14:419; 16:484; 168A6:198, 203-210;
169A3:132, 150-152; 5:230-231, 241-243, 248-
251; 170A3:48; 4:86, 98; 5:143-144; 6:212;
7:241-242; 171A_A3:25; 4:44, 46, 49; 5:56, 59,
65, 67, 70, 74; 6:83, 85; 7:95, 99, 101;
171A_B2:13-17; 171B_A4:164-165; 5:233-234;
6:313, 315; 172A5:244; 6:301, 303; 173A4:96-
97; 7:213-215; 8:260-262; 174A_A3:89, 92-95;
4:138, 143; 174AXS_A4:36; 175A5:141; 9:271-
272; 10:311-312; 12:383-384; 13:427-428;
15:483-484; 16:494; 176A3:233; 8:63-64;
178A4:89; 5:82-83, 88; 9:66-67; 178B32:19;
179A4:155, 157; 179B1:16; 180A5:95, 100, 102;
6:176, 179, 182-185, 190-200; 8:97-100, 103-
105; 9:131-134, 139-141; 12:132-136, 142-146;
181A3:69; 8:82, 86-87; 9:54-56, 59; 182A4:75-
78; 5:53-55; 6:79-81; 7:61-64; 8:61-64; 9:51-
55; 10:63-65; 12:51-53; 183A5:159-162; 7:175-
178; 8:92-94; 184A1:74; 4:75-78; 5:68-71; 7:68,
70; 9:81-83; 185A1:45, 48, 54; 3:70; 4:138;
188A3:160-163; 4:89-90; 5:82-83; 188B1:39;
14:31; 189A1:87; 3:109, 111; 5:105, 107; 6:119,
125; 7:96, 98; 190A4:81-82; 191A4:110, 115-
116; 191B6:13-14; 192A1:65-66; 6:88, 90;
193A3:250, 256; 4:217; 194A5:76-80; 6:64-65;
7:105, 112; 9:53-54; 195A1:54; 4:153-155;
196A1:24; 3:47, 50, 52-54, 83; 4:32, 38-42;
197A1:41-42; 3:55-56, 131-133; 198A1:135;
3:108-111; 9:86-89; 199A11:78-84; 12:84, 86,
90; 200A4:54, 150; 200B1:30; 201A6:71-72;
7:76-77; 9:57-58; 10:61-62; 11:77; 202A9:67,
69; 10:21, 62, 67; 12:18, 66, 69; 203A1:27; 3:69,
73, 75; 204A4:89-92; 5:51, 53; 6:61-64, 68;
7:58, 60; 8:72, 74; 9:68-70, 72, 75; 10:82-85, 89;
11:48-49, 51; 205A4:161; 206A3:161, 322-323;
207A4:68-72, 74; 5:75, 78-81; 7:71-77; 8:68-73;
207B14:11, 14-22; 208A4:62-64; 6:74-81;
209A7:120; 10:146, 148
vs. gamma rays, 184A4:77; 202A9:44, 70; 10:44, 65
vs. lithology, 178A4:91
vs. magnetic susceptibility, 138A(2)13:727
vs. photoelectric effect logs, 155A9:227; 196A3:20,
49; 4:17, 43
vs. potassium logs, 203A3:70
vs. resistivity-at-the-bit logs, 193A3:252
vs. resistivity logs, 203A3:70; 209A7:120
vs. time, 135B8:144
vs. uranium or thorium logs, 138A(2)15:876
wavenumber, 178B32:30
See also density-caliper-gamma ray logs; density-natu-
ral gamma ray logs; density-porosity-natural
gamma ray logs; gamma ray logs; potassium
logs; resistivity-gamma ray logs; resistivity-
sonic-gamma ray logs; resistivity-velocity-
gamma ray logs; Schlumberger logs; total spec-
tral gamma ray logs; thorium logs; uranium
logs; velocity-natural gamma ray logs
gamma ray logs, computed, 147A3:103
gamma ray logs, corrected, 167A(1)8:196-198;
209A10:148
gamma ray logs, processed
Ceara Rise, 154A8:412-414
Site 844, 138B44:861
Site 845, 138B44:863
Site 846, 138B44:866-867
Site 847, 138B44:870

- Site 848, 138B44:873
- Site 849, 138B44:874–875
- Site 850, 138B44:878–879
- Site 851, 138B44:882
- Site 852, 138B44:884
- vs. depth, 149A6:204
- See also Schlumberger tools
- gamma ray logs, smoothed, 146A(1)4:106
- gamma ray logs, spectral
 - Cretaceous/Tertiary boundary, 165A4:186
 - Gauss Chron, 130A5:128
 - lithology, 150B23:412–415
 - Northeast Providence Channel, 101B28:447–448
 - sequence stratigraphy, 150B23:411–422
 - Site 814, 133A(1)7:234
 - Site 815, 133A(1)8:287
 - Site 816, 133A(1)9:337
 - Site 843, 136B13:153–154
 - vs. deep-shallow resistivity, 174A_A4:142
 - vs. density logs, 174A_A4:149
 - vs. depth, 133A(1)12:498; 174A_A4:141, 144–146, 148–149; 186B15:14
 - vs. shallow resistivity, 174A_A4:149
 - well-logging, 130B48:776–778
 - See also geochemical logging
- gamma ray logs, spliced, 174A_A5:184–185
- gamma ray logs, standard, 147A3:103
- gamma ray logs, total natural
 - basalts, 144A8:321
 - vs. depth, 144A3:91, 94; 10:384–385, 388–389
- gamma ray-porosity logs, 161A9:424–426
- gamma ray-resistivity-rate of penetration logs, 156A6:176–179
- gamma ray-tension-velocity logs, 156A6:189–192
- gamma ray wire logs, 204A4:92; 6:64; 9:70; 10:85
- gamma rays
 - altered volcanic rocks, 193A3:75; 4:53–54
 - attenuation, 131A6:235; 170A5:141; 182A5:82
 - basalts, 185A3:36–37; 206A3:89
 - black shale, 198A9:33
 - bulk density data, 170A5:141; 172B8:3
 - clasts, 195A3:43
 - composite depths, 177A4:8–9; 181A3:20–21; 4:16–17; 202A3:4–5; 207A5:21–22; 6:25–26; 7:22–23; 8:22
 - composite digital images, 208A3:40
 - core-core integration, 171B_A6:282–283
 - core-log comparison, 186B15:1–42; 188A3:64–65; 202A1:82
 - cores, 170A6:211; 7:244
 - correlation, 169A3:128–130; 184A5:30–32; 6:21–22; 7:31–34; 8:12; 9:36–40
 - depth shift, 186B15:23
 - discrete samples, 183A5:58
 - Eocene, 150X_B6:68
 - grain density, 186B15:22
 - hydrothermal minerals, 139B47:737–738
 - igneous rocks, 209A3:37; 5:40; 6:32; 7:25–26, 36; 9:21; 10:28
 - interhole correlation, 180A9:52
 - lithofacies, 129B30:531–532
 - lithology, 168A4:88, 90, 92; 5:148, 150; 6:186, 188; 170A3:87–88; 4:151; 5:180–181; 6:207; 7:240, 242; 183A3:16; 4:27; 6:57–58; 7:51–52; 8:26; 9:39–40; 185A4:39–40; 186A1:14; 5:34; 197A3:38, 165; 4:31–32, 121; 5:26, 108; 6:22–23, 113; 199A8:20; 9:8–9, 13; 10:20; 11:31; 12:32; 13:28; 14:22; 15:15–16; 200A3:44; 205A4:40
 - magnetic susceptibility, 161B9:114
 - measurement, 191A4:42
 - metasediments, 173A8:252
 - multisensor track data, 159A5:113; 162B18:249–251, 254; 182A4:33–34, 104; 5:22–23, 84; 6:30–32, 107; 7:24–25, 80; 8:92; 9:22, 76; 10:81; 11:45, 47; 12:74; 183A5:50
 - paleoceanographic proxies, 184A1:13
 - pass-through core measurements, 150X_B6:65–74
 - pelagic muds, 195A4:38
 - physical properties, 182A1:18–19
 - potassium budget, 185A3:55–60
 - rhodocites, 193A6:10
 - sedimentation rates, 129B30:542
 - sediment cores, 156B14:183–195; 16:225
 - sediments, 150A8:238–239; 10:336; 156A6:158; 7:244; 157A7:359; 10:527; 160A4:73; 5:118; 6:139; 7:191; 8:254; 9:316; 10:372; 13:461; 14:488; 162A3:83; 165A4:187; 169A3:126; 4:186–188; 5:225–227; 6:289–292; 171B_A3:78; 4:146, 152; 5:210; 6:289; 172A4:129, 132; 173A6:151, 153; 7:206–207; 9:291–292; 174A_A3:80; 4:130; 5:177; 178A4:25–26; 5:22; 6:16; 7:18; 8:17; 9:16; 180A5:40; 6:67–68; 7:25; 8:37; 9:51–52; 10:20; 12:45; 181A7:42; 8:34–35; 182A1:21; 8:26–27; 10:27; 11:15; 12:21–22; 184A4:25; 186A4:42, 52–53; 190A4:28–29, 79; 6:23–24, 56; 7:20, 48; 8:23–24; 191A4:39; 194A3:22; 4:27; 5:22; 6:20–21; 7:28–29, 31; 8:21–22; 9:21; 198A3:39; 4:30; 6:28; 9:31; 201A6:28; 7:31; 8:25; 9:21–22; 10:25; 11:28–29; 12:23–24; 202A9:22; 205A5:24; 6:12; 206A3:48; 207A6:34–35; 7:32; 210A1:21; 3:105–106
 - Site 907, 151A5:103
 - spectra, 195B12:1–33
 - spliced records, 202A4:5, 27; 5:26; 6:27; 9:41; 10:41; 11:34; 12:44; 13:33
 - summary, 189A1:38–40; 189B1:30
 - time shift variation, 186B15:24–25
 - upper Paleocene, 207A4:53
 - vs. aluminum oxide, 186B15:21
 - vs. composite depth, 178A7:64–65
 - vs. density, 157A8:425; 9:466; 10:533
 - vs. depth, 139A7:405; 8:551–552; 150X_B6:69–74; 151A5:89–90; 6:136; 7:195–196; 8:247–248, 257; 9:293–294, 302, 304; 10:337; 11:372; 151B21:379–381, 384; 156A7:250; 157A7:367; 8:424–425; 9:464–466; 10:529–533; 158A7:136, 138; 8:165; 9:172; 11:222; 159A5:112, 118–119; 6:196; 7:246; 8:286; 160A4:84; 5:123; 6:140, 148; 7:198–206; 8:262–270, 274–284; 9:320; 10:373; 13:463; 14:490; 161A4:99–104; 5:156–160; 6:221, 223, 262–270, 273–275; 7:333;

- 8:388; 9:413; 161B9:112; 24:322, 328;
162A3:59–60, 64–65; 4:104, 120–121; 5:147–
153; 6:179–185, 198, 204; 7:232–238, 250;
8:262, 264–265, 272, 282; 9:297–300, 322, 326;
10:357; 162B9:143; 165A3:87, 89; 4:185, 187;
5:266, 268; 6:332–333, 336; 8:381; 166A6:96–
98; 7:157, 165; 8:180, 187, 193–194; 9:248, 250,
256–257; 10:318–319; 11:366–367; 167A(1)4:81;
5:113; 6:151; 7:172; 8:206; 10:268; 11:306;
12:341; 13:374; 14:417; 15:457; 16:482;
168A5:154; 6:190–192; 169A3:125, 127, 129;
4:187, 190; 5:229; 6:291–294; 170A5:184; 6:211;
7:217; 171B_A3:86; 4:149, 159; 5:220; 6:298;
172A3:64–65; 4:138–140; 5:229–231; 6:289;
173A6:151; 7:206, 210; 8:254; 9:291;
174A_A3:78–79; 4:129; 5:179; 175A5:138;
6:169, 175; 7:193, 197; 8:216, 220; 9:269;
10:309; 12:380, 382; 13:424–425; 177A1:51;
3:36; 4:50; 5:55–56; 6:46–47; 7:36; 8:53; 9:43;
178A4:81–83; 5:72–74; 6:51; 7:50–55; 9:58–59;
178B32:20, 33; 180A1:69; 7:62; 9:128, 130;
10:63; 12:131; 181A3:50, 52, 60; 4:36–37, 39,
43; 5:49; 6:71, 79–80; 7:100–101; 8:79;
182A4:58–59, 71–72; 5:50; 6:61–63, 72–73;
7:56–57; 8:47–49, 56–57; 9:47; 10:58; 11:32;
12:47–48; 182B14:7–8; 15:9; 183A3:39–41; 4:76;
5:98, 151, 162; 6:157–161; 7:167; 8:84; 9:114,
116; 184A4:35–37, 65; 5:56, 59; 6:41; 7:58; 8:25;
9:71; 185A4:135–136; 186A4:91–92, 132, 141–
142; 5:77; 186B15:16–20; 188A3:142, 144; 4:80;
5:68–70; 189A5:97; 190A4:79; 6:56; 7:48; 8:55;
192A3:37, 138; 4:25, 106; 5:24, 103–104; 6:25,
39–40, 86; 7:12, 50; 193A3:229; 4:201; 6:28;
194A3:55–56; 4:88–89; 5:74; 6:60–62; 7:97–98,
104; 8:61; 9:52; 194B8:13; 195A1:52–53; 3:120,
124–126; 4:73, 136–143; 5:34; 197A1:33–34;
3:125, 127; 4:95–97; 5:85; 6:89; 198A3:100;
4:69, 71; 5:71; 6:64; 8:59; 9:84; 199A8:42; 9:23–
24, 32; 10:33–35, 45; 11:75; 12:81; 13:66; 14:47;
15:34, 38; 200A3:129; 4:132, 136, 140–141;
201A1:72; 6:67; 7:70; 8:31, 51; 9:51; 10:55;
11:72; 12:46; 202A1:118, 121, 124–134, 137–
141; 3:26; 121; 4:29; 5:28; 6:29; 7:39; 8:44; 9:45;
10:45; 11:37; 12:47; 13:36–37; 205A6:39;
206A3:156, 203, 312–313; 206B13:8–10;
207A4:53, 63–65; 5:61, 63, 72–74; 6:74–75;
7:67–68; 8:65; 208A3:31–32; 4:34–35, 44–45, 47;
5:29, 38; 6:41; 7:32–33; 8:33–34, 41; 209A3:143;
5:73; 210A1:74; 3:299–303; 210B7:16
- vs. distance from basement, 168A6:193
vs. gamma ray logs, 150X_B6:67–68; 184A4:77;
202A9:44; 10:44
vs. grain size, 180A5:98–99
vs. lithology, 150X_B6:67–68
vs. magnetic susceptibility, 157A8:422, 425; 9:466;
10:533; 178A6:53; 9:60
vs. photoelectric factor, 173A8:51
vs. porosity, 186B15:22
vs. potassium oxide, 186B15:21
vs. reflectance, 194A6:62
vs. silica/aluminum oxide ratio, 186B15:22
- vs. traveltime, 174A_A4:143
vs. velocity, 157A8:422; 9:466; 10:533
wavenumber, 178B32:34
wireline logs vs. natural, 186B15:15
See also density, gamma ray attenuation; density,
gamma ray attenuation bulk; gamma ray logs
gamma rays, corrected natural, 205A4:135; 5:74;
209A7:102; 9:91; 10:127
gamma rays, multisensor spectral
calibration, 191B6:3
comparison with conventional logs, 191B6:1–21
tool specifications, 191B6:2–3
gamma rays, spectral
vs. depth, 171A_A6:79
vs. shallow resistivity, 186A4:152
gammacerane
maturation, 139B24:458
sediments, 139B15:339
gangue minerals, massive sulfides, 169A6:270
Gargasian, biostratigraphy, 171B_B3:2
garnets
amphibolites, 173A6:130–131
Baffin Bay, 105B3:41, 44, 52
basement/sediment contact, 161A6:215
Bengal Fan, 116B6:60, 67
breccia clasts and matrix, 173A7:195
calc-silicate rock, 161B18:254–255
composition, 155B7:150, 152, 162–163; 161B18:256;
183B16:1–8
crust, 152B28:344
gneisses, 161B19:267; 183B1:9
heavy minerals, 150X_B7:75–79; 174A_B6:2–4
ice-rafted debris, 120B(1)12:167
lithology, 177A8:8; 182A4:10
mineral chemistry, 153B30:528; 161B19:267–269
mineral/melt partition, 153B10:219
occurrence, 114B40:739
petrography, 119B3:51–52
photomicrograph, 161A6:239, 244; 161B18:260;
19:277–278; 20:285–287; 23:313; 183A5:107,
111
Pliocene–Pleistocene interval, 188B13:8
porphyroblasts, 161B18:254
pressure-temperature conditions, 161B44:566–567
schists, 161B19:264–266; 20:282–283; 23:312
sediments, 146A(1)6:253
serpentinized peridotites, 173A7:192–193
Site 740, 119B3:56
Site 779, 125B25:419, 425
textures, 161A6:223, 225; 161B20:284; 23:287–288
thermobarometry, 161B20:288, 290–293
veins, 173A7:203
volcanic siltstone, 183A5:32
vs. depth, 150X_B7:78
See also andradite; grossular; hydrogarnet; hydrogros-
sular; hydroschorlomite; melanite; pyralspite
field; pyrope; spessartine; ugrandite
garnets, andraditic, with celadonite, 206B1:7
garnets, idiomorphic, photomicrograph, 161A6:244
garnets, poikiloblastic, photomicrograph, 183A1:100
garnets, porphyroblastic, photomicrograph, 183A1:100

- garnierite, Bonin-Mariana region, 125B17:316
- gas chromatography
 geochemistry, 139A7:490–491
 hydrocarbons, 143B12:190
 See also pyrolysis-gas chromatography
- gas composition
 collection chambers, 164A9:301
 pressure core sampler, 164A9:296
- gas content, lava flows, 183B14:3–8
- gas disruption, photograph, 155A21:645
- gas escape structures
 pressure, 150B21:384
 Salaverry Basin, 112A13:308, 310
- gas expansion
 Chile triple junction, 141A8:282; 10:409
 compressional wave velocity, 146B(2)13:193–197
 lithology, 155A12:328; 204A3:4–8; 4:6
 photograph, 141A6:82; 146A(1)5:150; 204A8:41–42;
 204B8:15
 remnant magnetization, 172A6:263
 subbottom depth, 155B:1–2
- gas fields, gas hydrate detection, 164B16:169
- gas hydrate dissociation
 boron, 204A7:11
 photograph, 204A3:57; 7:28; 8:41–42, 46, 51
 physical properties, 204A7:17–18; 8:19–20
 resistivity, 204A7:54
 uncalibrated electrical conductivity, 204A8:61
- gas hydrate occurrence zone
 correlation with grain size, 204B10:4, 19–20
 gas composition, 164B5:55–56
 isothermal remanent magnetization, 204B18:13
- gas hydrate proxies
 intercalibration, 204B1:10–13
 occurrence, 204A1:42–43
- gas hydrate saturation
 cementation model, 204B24:14–15
 density porosity logs, 204B27:17–22
 nuclear magnetic resonance logs, 204B27:8–9
 vs. depth and shear wave velocity, 204B22:21
- gas hydrate stability zone
 acetate and hydrogen, 204B17:4–6
 chloride concentration, 204A3:13–16
 depth, 188A3:62
 discrete chloride excursions, 204B13:16
 fractures, 204B3:6–8
 gas transport, 204B15:7–8
 Hydrate Ridge S, 204B1:18–19
 infrared scanning, 204A7:16
 lateral heterogeneity, 204B1:9–10
 seafloor observations, 204A1:5–6
 sediments, 189A3:42–43, 51–52; 7:44
 seismic profiles, 204A11:25; 204B4:11
 summary, 189A1:43
 tectonic controls, 204B2:11–12
 transport-dominated regime, 204B1:7–8
 velocity logs, 204B22:12–13
 See also methane-seawater-hydrate stability zone
- gas hydrates
 accretionary wedges, 146A(1)9:396
 acetate and hydrogen, 204B17:1–20
- acoustic velocity, 164A6:144
- biogeochemistry, 201A1:45–47; 11:107
- boron, 127/128B(1)36:639
- bottom-simulating reflector (BSR), 127/
 128B(2)73:1145, 1147; 141B18:243–252;
 24:311–312; 146A(1)1:7–9; 10:411, 414–417;
 146B(1)10:175–187
- carbon dioxide, 172B3:3; 198B9:7
- carbonate hydroxide, 125B19:354
- carbonate nodules, 164B1:9; 30:309–310
- Carolina Rise, 164A1:5–12
- Cascadia margin, 146B(1)8:152
- catwalk temperature, 164A9:288
- chloride, 112A1:18; 112B25:435; 125B21:381, 383;
 160B50:669; 164A5:89–90; 7:200; 9:317;
 167A(1)13:372; 201A11:14–15; 202A1:25;
 204A3:13–16; 4:13–14; 5:7; 6:10; 7:10; 8:11–12;
 9:10–11; 10:13–14; 11:11–12
- composition, 146B(1)8:151–161; 164A8:255, 257;
 9:287–288, 297; 164B2:13–28; 3:30–46
- continental margin, 146A(1)10:412–417; 164B3:29–
 36
- cores, 164A7:184; 201A11:35–37
- crystal structure, 164A1:8; 164B1:9; 4:39, 41–42
- decomposition, 112B32:523; 131A6:140, 143;
 141A8:274; 164B29:285–300; 202A4:14;
 204A3:117
- defining zone of occurrence, 164A6:151
- degassing, 204B23:10
- depth to base, 164A6:151; 9:315–315
- detection and indications, 164A6:149–152; 7:221–
 222; 9:314–317; 164B16:169; 19:179–191
- diagenesis, 146B(1)25:382–383; 188B1:20
- direct sampling, 164A9:314
- dissociation, 164A6:130–132; 172A4:126–129; 5:228–
 229; 189A5:46; 6:51; 7:44
- dissolution, 208B1:20
- distribution, 141B20:259–275; 164A8:275; 9:316;
 204B1:1–40
- dynamics, 204B1:5–10; 15:6
- elastic properties, 204B24:4
- equilibrium dissociation, 164B2:22–26
- estimates, 164A6:151–152; 9:315–316; 164B20:195–
 197; 21:214–215; 22:221–224; 25:247–249;
 28:277–278; 204A3:63–64; 204B1:35; 22:11
- ethane fractionation, 204B15:17–19
- evidence, 155B6:128
- fault zones, 146A(1)7:374–375
- fluid flow, 146A(1)11:423–424
- forearc regions, 141A1:6
- gas-collection chambers, 164A7:185; 9:288–289
- genesis, 146A(1)5:225
- geochemistry, 112A20:913–914; 184B13:5–6;
 204A3:118
- geographic extent, 172A7:320–321
- geology, 190A1:31–32; 204A1:44–46
- geothermal gradient, 146B(1)19:302–306; 188A5:31
- habit, 164A7:223; 9:317
- high-resolution study, 175A5:130–131
- hydration number, 164B2:16–20
- hydrocarbons, 112A14:385–386; 204A5:10; 7:13–14

- identification, 201A4:3–4; 11:106
 in situ alteration, 125B19:355
 in situ fabric, 164B1:8
 infrared camera imagery, 201A4:1–20; 11:36;
 204A4:120–121; 5:62; 6:79; 7:61, 72; 8:92; 9:92–
 93; 10:20–22, 110; 11:58
 iodine and bromine, 204B14:1–25
 isothermal decompression analysis, 164B43:437–438
 isotopes, 112B25:434; 204B13:4
 Japan Sea, 127A1:24
 lateral variability, 164B1:8
 lithofacies, 155B40:616
 lithology, 146A(1)7:308–309; 164A6:111–114;
 164B23:229–236; 170A5:159, 162; 204A10:7;
 204B1:8–9
 low temperature, 146A(1)5:183–184
 magnetic properties, 112A17:625; 204B18:1–33
 maps, 172A1:11
 mass transport deposits, 155B6:142–143; 12:362–365
 methane formation, 146A(1)10:413–414; 151A12:391
 microbiology, 164B36:387–388; 204B1:16–18
 microscale distribution, 164B26:261–262
 mobility, 164B1:8–9; 175A21:559–560
 mud domes, 160A18:522–524
 near-offset vertical seismic profiles, 204B25:7
 noble gases, 164B16:165–170
 nodules, 164A9:305
 nuclear magnetic resonance logs, 204B27:1–22
 occurrence, 164A7:222; 8:270–271; 9:289–290, 315;
 164B2:13–15; 19:183–185; 201A11:36
 Oman margin, 117A4:49
 Oregon continental margin, 204A1:1–75
 organic geochemistry, 146B(1)26:385–397
 organic matter, 146B(2)10:217
 origin of fresher pore water, 164A9:317
 overview, 164B1:3–10
 oxygen isotopes, 127/128B(1)4:52
 past presence, 204B1:16
 pellets, 146B(1)2:41
 Peru margin, 112A1:17–18, 20; 14:387; 112B25:433–
 434
 photograph, 155A11:278; 21:645; 164B1:5; 2:15;
 4:41; 201A11:81–82
 photomicrograph, 164A8:257–258
 physical properties, 146A(1)5:206–208;
 146B(1)34:462; 155B28:473; 29:491–492;
 164A7:213–215; 164B1:8; 27:265–272;
 201A11:38; 204B22:1–25
 pore water, 112A14:387; 112B32:520–523;
 129B14:274; 141A6:114–118; 146A(1)5:191;
 146B(1)30:431–432; 150A9:286–288;
 155A22:674; 160A7:187; 160B45:569–574;
 162A8:276, 310; 164B6:59–66; 167B32:350,
 352–354; 172A1:9–11; 201A11:37–38; 201B5:5
 preservation, 207A5:26
 pressure cores, 204A3:20; 4:17; 6:13–14; 8:15; 9:13–
 14, 19–21; 10:17
 pressure-temperature conditions, 112B32:517–518,
 525; 164B2:22–26
 pressure-temperature stability, 146A(1)10:412–413
 proxy measurements, 164A6:150–151; 7:221–222;
 9:314–315
 resistivity-at-the-bit, 204A3:95; 8:75
 saturation, 164B6:61–63; 19:187–189; 21:210–212
 seafloor pockmarks, 164A8:271
 sedimentary evidence, 204A3:8–9; 4:10; 5:4–5; 7:6–7;
 8:8–9; 9:7–8; 10:9; 11:7
 sediments, 112A1:17–18; 141B21:279–286;
 146A(1)5:151–153; 7:315–319, 341–343;
 146B(1)27:406; 151A8:241–242; 162A8:273;
 10:359–361; 172A3:63; 6:288; 186A4:40;
 189A3:41, 51–52; 190A9:17–18; 204B10:1–30
 seismic Horizon A, 204B1:32
 seismic data, 112A14:386; 20:906; 112B44:657;
 131A6:250; 141A6:78; 146B(1)9:163–174;
 164B1:8; 26:253–264; 28:273–281; 175A16:500,
 503; 178A2:19–20; 204B1:27–28; 9:15
 shape and structure, 204B21:1–11
 Site 682, 112A14:385–386, 398–399
 Site 685, 112A17:600, 624–627, 646; 112B32:523–525
 Site 688, 112A20:905–907, 927; 112B32:524
 Site 796, 127A6:260, 288–289, 315
 Site 889, 146A(1)5:183–184
 Site 890, 146A(1)5:183–184
 Site 892, 146A(1)7:341–343
 Site 996, 164A8:249–255
 Site 997, 164A9:286–290
 Site 1230, 201A11:35–39
 slope stability, 204A1:10
 sonic velocity, 204B24:1–38
 sources, 164A1:7; 164B16:168–170
 South Orkney microcontinent, 113B3:33–35
 stability fields, 127A6:288, 299–300; 131B37:461–473;
 141A7:226; 8:291–292; 146A(1)5:229;
 146B(1)10:183, 185; 164A7:193, 222; 9:294
 stratigraphic and structural controls, 204B2:11–12
 structure, 164B2:16–20; 204B1:14–15
 sulfate/methane interface, 204A3:16–17
 sulfur isotopes, 204B19:4–6
 temperature, 146A(1)5:199; 164A6:144; 8:255
 thermal anomalies, 204A5:40; 10:65
 volume, 164A7:194–195, 222–223; 164B19:189–191;
 20:193–198
 vs. depth, 146B(1)34:463; 164A6:154; 7:224; 9:317;
 164B6:66; 204A4:104; 204B1:32, 34
 vs. hydrogen sulfide, 146A(1)7:342–343
 vs. impedance ratio, 146A(1)10:416
 vs. Poisson's ratio, 146A(1)10:416
 vs. temperature, 146A(1)7:354–355
 vs. velocity, 146A(1)10:416
 well-logging, 112A17:644–645; 164A6:142–144;
 9:309–310; 164B20:193–198; 189A3:51–52;
 204A3:39–40; 4:32; 5:18–19; 6:24–25; 7:22–23;
 8:32–33; 9:28–29; 10:36; 11:20; 207A5:38
 X-ray computed tomography, 164B2:14–15
 Yaquina Basin, 112A1:17–18; 15:461, 462, 476
 See also clathrates; methane; natural gas
 gas hydrates, disseminated, 146B(1)10:185; 204B21:2–3
 gas hydrates, dissociating, 146B(1)8:157–158, 160–161
 gas hydrates, layer, 204B21:3, 8
 gas hydrates, massive, 164A9:287; 204B21:3, 10

- gas hydrates, methane
 Peru margin, 112B32:523
 stability fields, 146B(1)10:185–186
- gas hydrates, nodule, 204B21:3, 9
- gas hydrates, pore space, 204A4:63; 5:30; 6:41; 7:38; 9:48
- gas hydrates, reaction-dominated, 204B1:6–7; 15:9–19
- gas hydrates, transport-dominated, 204B1:7–8
- gas hydrates, veinlets, 204B21:3, 6
- gas hydrates, veins, 164A8:259; 204A1:54; 204B21:3, 7
- gas hydrates, visible, sediments, 146A(1)7:333
- gas pockets
 mobility, 175A21:559
 sediments, 182A1:20–21, 32; 5:18
- gas pipe structures
 lithology, 200A3:10
 photograph, 200A3:62; 4:96
 photomicrograph, 200A4:96
- gas release
 pressure core sampler, 201A3:7–8
 sediment recovery, 164B11:125–126
 See also degassing
- gas saturation, porosity, 161B10:125–127
- gas transport
 bottom-simulating reflector, 204B15:8–9
 gas hydrate stability zone, 204B15:7–8
 shallow sediments, 204B15:1–52
- gas venting
 effects on bacteria, 146B(1)27:399–411
 seafloor hydrogen sulfide, 164B1:6
- gas vesicles. *See* vesicles
- gas voids, sediments, 146B(2)11:154–155; 164A5:87;
 172A4:116, 118; 5:209–221
- gas volume
 collection chambers, 164A8:255–256
 vs. depth, 164A6:116; 7:187; 8:260; 9:289
 vs. methane/ethane ratio, 164A8:266
- gases
 carbon isotopes, 172B3:1–16
 chromatographs, 180B16:5–9
 collection chambers, 164A6:125, 127; 7:197, 201;
 8:268; 9:297
 composite section, 175A3:70–71; 4:99
 composition, 131A6:186–187, 191; 146A(1)4:82–83;
 5:179; 6:265; 7:334–335; 146B(1)8:151–161;
 164A5:89–90; 6:124; 164B36:384, 386–387;
 169A3:118; 4:179; 5:222; 6:283–284
 continental margin, 164B3:29–36
 cores, 144A3:68; 4:129, 131; 5:179–180; 6:232–233;
 8:304; 10:367; 11:427
 decomposition, 141A8:277
 gas hydrates, 164B2:20–22
 geochemistry, 139A6:197–200; 164B3:30–46;
 195A3:160
 headspace analyses, 139A5:130; 7:340–341;
 146B(1)31:440–443
 hydrate gas vs. sediment gas, 164B4:43–45
 in situ sampling, 164B1:5
 isotopes, 164B7:67–77
 magnetic properties, 127A6:275
 migration, 131A6:144, 148; 131B15:189–191
 Negros Trench, 124A9:113, 115, 117
 occurrence, 160A12:445
 organic geochemistry, 146B(1)26:385–397
 Pacific Ocean N, 144A3:74
 pressure core sampler, 164A7:194; 8:266; 9:295
 profiles, 175A21:556–558
 purge-trap adsorption gas analysis, 180B18:1–14
 release experiments, 164A7:193–194
 sediment consolidation, 127/128B(2)71:1129
 sediments, 135A(1)5:218–219; 139A5:121; 7:319–320;
 8:479–482; 141A6:115; 7:210; 8:275; 9:334;
 10:399; 141B24:307–312; 143A9:331;
 146A(1)5:177–178; 7:333, 336; 155A6:110;
 7:146; 8:190; 9:217; 10:259; 11:293; 12:350;
 13:400; 14:424; 16:479; 17:526; 18:556; 19:583;
 20:612; 21:649; 22:675; 160A11:394–395;
 171B_A3:73–75; 4:139–141; 5:205; 6:283–284;
 7:330, 332; 184A9:17–18; 186B14:8
 Site 881, 145A3:54, 57
 Site 882, 145A4:98, 107
 Site 883, 145A5:153, 157
 Site 884, 145A6:242, 245
 Site 887, 145A8:357, 362
 Sites 885–886, 145A7:313, 315, 320, 322
 sources, 164B22:224–225; 175A21:558
 stable isotopes, 146B(1)21:439–449
 time-pressure-volume plots, 164A8:265
 trapping, 201B21:7–9, 21
 upwelling, 1751A1:16, 21; 17:511
 Vacutainer analysis, 146A(1)6:264–265
 volume, 164A5:89; 6:114; 7:186
 vs. depth, 141A6:116; 7:211; 8:276; 10:400;
 162A8:274
 vs. sediment carbon, 175A21:559
 Zamboanga Trench, 124A9:117–118
 See also headspace gases; hydrocarbons; methane; mi-
 crobial gases; natural gas; thermogenic gases;
 water/gas molar ratio
- gases, bacterial
 carbon isotopes, 139B25:475–476
 sediments, 146A(1)6:266
- gases, biogenic, acoustic properties, 108B23:402–403
- gases, expansion void
 cores, 141A6:111–112, 117; 7:212; 8:269; 10:400
 gas hydrates, 146B(1)8:152
 hydrocarbons, 141A7:203, 205
 molecular composition, 146A(1)5:181
 sediments, 146A(1)5:180–181; 7:336
 vs. depth, 141A8:277
 See also gas expansion
- gases, free
 chromatograms, 164A7:200; 9:300
 composition, 164A6:126; 7:199; 8:268; 9:299
 negative polarity, 190/196B15:1–16
 samplers, 164A7:197
 sediments, 139B25:469–470; 164A6:125; 9:297
 volume, 164B19:189–191; 28:277–278
- gases, free and sorbed
 bacterial gases, 139B25:467–477
 sediments, 146B(1)31:440–441

gases, headspace

composition, 164A5:88; 6:125; 7:199; 8:267; 9:297–298; 170A3:74; 5:175; 6:206; 7:236; 171B_A3:78; 4:141, 143; 5:211; 6:289; 7:338; 172A3:57; 4:128; 5:217; 6:281; 173A4:92; 7:204–205; 8:252; 9:290; 180A5:123; 6:259–260; 7:82; 8:132; 9:189–190; 10:70; 12:188; 182A6:99; 7:70; 8:84; 9:67; 10:73; 11:40; 12:67; 194A3:72; 4:108; 5:99; 6:86; 8:78; 9:69; 205A4:179; 5:110; 6:52; 208A3:85; 4:81

concentration, 165A7:370

geochemistry, 151A6:132; 7:185–187; 8:244; 9:289; 10:335; 11:369; 184B13:4; 185A3:47; 4:26–30; 195A3:33–34, 161; 207A6:29–30, 103

hydrocarbons, 178A4:157

methane, 185A4:174

methanogenesis, 161A5:144

sediments, 149A4:98; 5:133–134; 6:190–191; 7:243; 150A6:92–93; 7:165; 8:232; 9:284–285; 10:330; 152A11:234; 12:270; 161A4:82; 6:233, 258; 7:318–319, 331; 8:375, 377–378, 386; 9:403, 410; 162A3:76; 4:115; 5:160; 6:193; 7:245; 8:275; 164A6:125–128; 8:262–263; 174A_A5:172, 175–176; 175A3:76; 4:103; 5:132, 134, 136; 6:167; 7:193; 8:216; 9:260–261; 10:299; 11:327–328; 12:375–377; 13:412; 14:446–447; 15:473–474; 182A5:73; 186A4:37; 189A4:59; 5:156–157; 6:165; 7:139; 207A4:105; 5:112–114; 9:3–6; 208A6:99

sources, 149A4:96–97

vs. depth, 149A5:135

gases, interstitial

composition, 207A7:26
geochemistry, 207A6:29–30; 8:25–26
helium isotopes, 127/128B(1)44:747–751
methane, 127/128B(1)44:749–750
sediments, 207A5:25–26
Site 798, 127/128B(1)44:748
Site 799, 127/128B(1)44:748

gases, microbial

black shale, 207A9:1–15
sediments, 175A21:555–560

gases, residual, gas hydrates, 164B3:30–36

gases, sorbed, sediments, 139B25:469

gases, syringe, sediments, 174A_A5:175, 177

gases, thermogenic

Oman margin, 117A4:49
sediments, 146A(1)6:266; 7:338
Site 799, 128A5:322

gases, Vacutainer

composition, 170A5:176; 6:206; 182A7:69; 9:66; 205A5:109; 6:53

sediments, 150A7:164; 9:285; 10:330; 161A6:259; 170A4:131; 172A3:57; 4:129; 5:218; 6:282

gases, volatile, sediments, 141A6:110–111; 7:202–203; 8:268–269; 9:326–327; 10:387–389; 150A6:91–92; 7:163–164; 8:231; 9:282–283; 10:328; 169A3:117, 119; 4:175, 178; 5:221–222; 6:281–282; 170A4:129, 131; 6:203; 174A_A3:74, 76; 4:123, 127; 5:172

gashes

Peru margin, 112B1:3

Salaverry Basin, 112A13:314; 112B1:12

Gassmann's theory, Site 709, 115B42:775–776

gastropod fragments

abundance, 144B6:131; 9:179–185

Albian, 143A6:128

aragonite, 133B36:528–530

biogenic components, 161B6:78–80

Cretaceous, 143B1:11; 10:138–139

dolomite, 103B11:181

lithology, 160A7:162; 166A6:77; 7:154–156; 8:177–178; 11:351–355; 171B_A6:257–258; 180A9:17; 181A3:7; 182A5:6; 7:5–6; 194A3:5; 5:3–7; 6:3; 8:4; 207A6:9

Messinian–Pliocene interval, 160B34:441

nerineids, 144A10:340–341

photograph, 144A3:61; 7:268; 11:426

photomicrograph, 160B44:473; 205A5:55

pyritization, 173A8:249

sediments, 169S_A2:60

Site 639, 103B7:116, 118; 11:191–192

vs. depth, 877, 144B14:281

wackestone, 103B6:67

*See also Cavolinia; Ellicea; nerineids; protoconchs; Tan-
iella; teloconchs; Thecosomata*

gateways

Albian, 159B29:364, 366

closures, 202B1:13–16

continental blocks, 189A1:49–50

Eocene–Oligocene interval, 189B1:12–15

geology, 210A1:12–13

North Atlantic–Arctic gateways, 151B1:3–23

opening, 189A1:53–55; 189B1:11–15; 207A1:13–14

paleoceanography, 181A1:3; 181B1:1–111

transform faults, 159A1:15

tropical, 202B12:1–51

See also oceanic gateways; sea gateways

Gauss Chron

Antarctic regions, 114B5:98

Baffin Bay, 101A4:111

biostratigraphy, 128A4:160; 5:302; 135B54:873–877; 177A5:14; 6:9, 13

Bonin–Mariana region, 125B2:22

carbonate platforms, 166A3:31–32

chron boundaries, 162A8:270

correlation, 132B2:29; 4:51–55; 133A(1)7:214; 15:630

ice-rafted debris, 177B(synthesis):9

ice volume event, 114B23:415

Labrador Sea, 105A6:712, 716

lithology, 181A1:20, 30

long-core data, 189A5:37

magnetic intensity, 151A6:127

magnetic polarity, 131A6:156; 135A(1)5:208–209; 10:531–533; 11:615–619; 177A8:14; 180A5:30; 12:35; 181A5:17; 7:28–32; 9:17; 199A8:11–12

magnetostatigraphy, 104A4:166; 135B54:860–861;

136A4:43–44; 136B3:47–48; 138A(1)10:216;

138B38:781, 788; 145B1:9–13; 37:561;

149A4:73; 152A11:222; 162B9:135; 172A5:263;

7:316–317; 173B11:12–13; 175A10:292;

- 177A8:15; 180A9:37; 181A6:23; 8:25–27;
182A1:23, 37–38; 6:24; 11:11; 191A1:16–17;
194A4:18–19; 9:13; 201B16:4
Oman margin, 117A12:396; 117B7:175
Owen Ridge, 117A10:268
Pacific Ocean E, 138B6:85
paleoclimatology, 157B7:77; 175B(synthesis):43–44
Pliocene–Pleistocene interval, 188B13:7–8, 15
remanent magnetization, 160A5:104; 6:136;
189A6:41; 7:37
sedimentation rates, 162A7:242; 186A4:36; 5:24;
189B10:16, 19
sediments, 135A(1)7:311; 157A4:75–76; 5:122; 6:153;
159A5:94; 190A4:15; 5:19; 8:13; 9:15; 194A3:12;
198A5:23; 8:17; 202A11:14
silicoflagellate and ebridian zones, 128A5:305
Site 699, 114A6:152, 193
Site 701, 114A8:395
Site 704, 114A11:637, 668, 687; 12:802; 114B30:584
Site 744, 119B44:782; 46:820
Site 745, 119B43:753
Site 781, 125A9:189
Site 784, 125B32:551
Site 795, 127/128B(2)62:970; 77:1223
Site 796, 127A6:275
Site 797, 127/128B(2)62:973
Site 798, 127/128B(2)62:974; 128A1:30; 4:124–125,
170
Site 799, 127/128B(2)77:1224; 128A5:303, 314
Site 834, 135A(1)4:117, 119
Site 846, 138B15:342, 344–345, 348
Site 850, 138A(2)15:840–842
Site 851, 138A(2)16:912–916, 924–925, 927
Site 852, 138A(2)17:993
Site 853, 138A(2)18:1041
Site 854, 138A(2)19:1075–1077, 1080
Site 859, 141A6:93
stratigraphy, 151B3:53–54
timescales, 138B6:86–87
Vanatu, 134A12:423
volcaniclastics, 157A8:413
See also Gilbert/Gauss boundary; Mammoth/Gauss
boundary
Gauss coefficient, relative to axial dipole, 197A1:30
Gauss/Matuyama boundary
biohorizons, 167B1:16
biostratigraphy, 113B45:806; 149A7:231; 162B2:27–
28; 3:41; 175B(synthesis):94–95; 177A8:13
Bonin-Mariana region, 125B2:23
Cagayan Ridge, 124A12:319, 324
carbon isotopes, 114B24:446, 449; 26:479
carbonates, 175B(synthesis):86–87
correlation, 133A(1)6:187; 7:214; 133B49:729;
138A(1)6:88; 145B34:494, 498
deposition, 124A11:221
depth tabulations, 117A10:272
ice-rafted debris, 104B9:265; 145B11:185
isotopes, 114B23:411–413, 415–419; 26:475–476, 478
magnetic tie points, 145B21:323
magnetostratigraphy, 104B40:831, 833, 843, 848;
114B19:347; 132B3:42–43; 134B26:468–471;
138B38:794–795; 160B5:67; 162A3:71, 73;
4:112; 7:241; 8:270; 10:358; 162B8:113–114;
173B11:8–10, 12–13; 175A11:323
Oman margin, 117B5:131; 7:167
organic carbon, 104B6:197, 199
oxygen isotopes, 114B26:475–476, 479–480;
121B15:306
paleomagnetism, 104A6:637; 133A(1)8:264; 9:313;
145A4:101; 160A8:233–234; 10:356; 177A6:11–
12
preglacial environment, 104B9:265–267
sand fraction, 175B(synthesis):93
sediments, 145B34:501–503; 149B21:322, 325, 327,
333; 164A7:189; 9:292; 175B(synthesis):92;
177A1:16; 184A6:9; 202A7:16; 8:21
silicoflagellate and ebridian zones, 128A4:162; 5:305
Site 704, 114B21:382; 28:518–519, 524, 529
Site 721, 117A9:218; 117B7:162–163
Site 722, 117B7:165
Site 794, 127A4:109; 127/128B(2)62:970
Site 795, 127/128B(2)62:970
Site 796, 127A6:275
Site 797, 127/128B(2)62:973; 77:1223
Site 798, 127/128B(2)77:1224; 128A1:30; 4:170
Site 799, 127/128B(2)62:974–975; 77:1224;
128A5:314
Site 832, 134A12:423
Site 859, 141A6:93
Site 881, 145A3:51
Site 882, 145A4:95
Site 883, 145A5:147
Sites 1174 and 1173 comparison, 190A5:19–20
Sulu Sea, 124B28:375
geanticlines, tectonic models, 160B54:775
Gelasian
biohorizons, 167B1:15
calcareous plankton, 160B12:155–165
magnetostratigraphy, 188B13:24
See also Piacenzian/Gelasian boundary
Gelasian/Calabrian boundary, 189B10:16
gelification, peat, 180B10:5, 12
gelified tissue, photomicrograph, 180B10:35
general circulation models
coupled, 199A3:1–30
ocean circulation, 138B22:503, 512–513; 199B1:28
paleoceanography, 154B18:279
sea gateways, 165B17:267–269
temperature, 171B_A1:7–8
general purpose inclinometry tool, 209A7:34–35, 113
genes, methanogen-specific
sediments, 205B8:6–11
vs. depth, 205B8:18–19
Geobacillus
biomineralization, 193B1:36
cultured isolates, 201B2:9
geobarometry
gneisses, 161B19:274
intrusions, 180B3:8–11
metamorphic rocks, 161B20:288, 290–293
schist, 161B19:273–274
geobiology, olivine dissolution rate, 209B1:18

- geochemical aging, oceanic crust, 144B39:657–659
geochemical anomalies, proxies, 204B1:11–12
geochemical controls in pore water
 barium, 166B9:108–109
 iron, 166B9:109–110
 lithium, 166B9:105–108
 manganese, 166B9:109–110
 rubidium, 166B9:108
geochemical cycling
 fluid-rock interactions, 195B6:1–23
 halogens, 195B6:1–23
 nitrogen, 148B1:6
 organic carbon, 199B20:20
geochemical facies, summary, 189A1:40–43
geochemical flux
 hydrothermal circulation, 148B35:447–448
 sedimentation, 185B1:8–13
geochemical gradients
 data, 190A1:30–31
 fluid circulation, 166A2:21–22; 190A1:8–9
geochemical indicators
 geochemical logs, 161A6:271
 sediments, 151A13:411–412
geochemical logs
 accretionary prisms, 141B36:427–441
 aluminum, 127/128B(2)88:1398; 89:1415
 Atlantis Bank, 118A6:169, 174–175, 177–178
 basalts, 130B1:7–10, 14–20
 basement, 123B35:644, 650, 652
 borehole diameter effect, 127/128B(2)65:1029–1030
 boron sleeve, 127/128B(2)65:1023, 1030
 calibration by strip samples, 127/128B(2)86:1367
 Celebes Sea, 124B42:541–552
 Cenozoic sediments, 133B57:795–817
 core-log comparison, 121B42:908; 127/
 128B(2)65:1024–1025; 88:1398–1399;
 130B48:779; 134B36:629–630; 138B44:860–869
 Cretaceous/Tertiary boundary, 130B45:747–748
 data reduction, 123B35:638–639; 125B39:664–666;
 127/128B(2)88:1395–1399; 89:1411–1427;
 129B34:635; 130B48:775–788; 137/
 140B26:307–308; 30:339–346; 140A2:113–114,
 192–197
 depositional history, 144B18:363
 depth shifting, 127/128B(2)88:1398; 89:1415
 drill pipe iron effect, 127/128B(2)89:1415
 elemental weight fraction, 127/128B(2)88:1398;
 89:1415–1416
 elements not measured, 127/128B(2)88:1395;
 89:1415
 errors, 127/128B(2)65:1028–1030
 evaluation, 159B17:171–179
 felsic sediments, 157B3:30–31
 first two principal components, 133A(1)15:668
 formation evaluation, 164B21:199, 215; 193A3:95–96
 gypsum, 160A8:263
 igneous rocks, 117B29:482
 industry and ODP data, 127/128B(2)65:1021
 interpretation, 138B2:26–27
 Izu-Bonin forearc, 125B39:663–673
 Juan de Fuca Ridge, 139A6:280
 Kleiner-Hartigan diagrams, 127/128B(2)65:1030
 Lau Basin, 135B59:931–949
 lithology, 125A9:215–217, 222; 14:373; 185A4:46–47;
 185B1:11–13
 lithospheric plates, 138B44:857–884
 lithology, 118B15:276–280; 125A14:335;
 133A(1)15:676–677
 major oxide estimates, 125B39:669, 672–673
 neutron absorption cross section, 148B30:389–394;
 149B37:595–599
 normalization factors, 127/128B(2)65:1029–1030,
 1034–1035; 129B34:638
 Ocean Seismic Network, 136B13:153–157
 onshore processing, 149A6:200–202
 Ontong Java Plateau, 130A7:265–266; 8:333
 opal-A/opal-CT transition, 127A7:396, 399
 open-hole logs, 133A(1)16:745–746
 operations, 127/128B(2)89:1411–1412
 orbital obliquity cycles, 127/128B(2)65:1021
 oxide factors, 127/128B(2)88:1402
 oxides, 123B35:641, 644; 127/128B(2)88:1398;
 89:1416
 Pacific Ocean N, 143A4:80–81; 9:371–372
 Pigafetta Basin, 129B29:514–515
 porosity effect, 127/128B(2)65:1022–1024, 1029
 postcruise processing schematic, 127/128B(2)88:1397
 potassium, thorium, and uranium, 127/
 128B(2)88:1398; 89:1415
 problems, 127/128B(2)65:1022–1024
 processed logs, 143A9:373–374; 150A10:354–356
 relative elemental yield, 127/128B(2)88:1396;
 89:1415
 replicability of logging passes, 133A(1)15:663
 sediments, 144B12:235
 silica, 129B29:514–515
 siliceous rocks, 129B2:57; 198B17:8–9
 Site 752, 121A6:148–151, 154–162, 167–169; 8:219,
 221, 224, 230–232; 121B41:895–901; 42:902–
 905
 Site 754, 121A8:219, 221, 232–233
 Site 758, 121A12:363–367, 408–410, 414, 438–442;
 121B42:906–908, 910–912
 Site 765, 123A3:53–54; 123B8:183; 35:637–649
 Site 766, 123A3:53–54; 5:270; 123B35:638, 654, 656
 Site 782, 125A10:213–215, 233–240
 Site 786, 125A14:336, 338
 Site 794, 127A4:142, 150–153, 160–163; 127/
 128B(2)89:1416, 1420–1421
 Site 796, 127A6:306–309, 317–318; 127/
 128B(2)89:1416, 1423
 Site 797, 127A7:396–399, 404–407, 412–415; 127/
 128B(2)89:1417, 1426–1427
 Site 798, 127/128B(2)65:1021–1035; 88:1398–1399,
 1401–1402; 128A4:187, 233–236
 Site 799, 127/128B(2)88:1399, 1404, 1408–1409;
 128A5:366, 386–388, 398–402
 Site 800, 129A2:88–89; 129B34:639
 Site 801, 129A3:165–167; 129B34:639, 648–649;
 36:673; 144A9:328–329
 Site 802, 129A4:242–243; 129B34:639
 Site 817, 133A(1)10:400, 412–416

- Site 820, 133A(1)13:553, 557, 565–567; 133B23:320
 Site 823, 133A(1)16:763–768
 Site 829, 134A9:258–260
 Site 830, 134A10:290, 314–315
 Site 831, 134A11:383–386
 Site 833, 134A13:556–557
 Site 834, 135A(1)4:178–180
 Site 838, 135A(1)8:384, 394–395
 Site 839, 135A(1)9:464–465, 485–487
 Site 840, 135A(1)10:553, 567–570
 Site 843, 136A5:99
 Site 844, 138A(1)9:187–188
 Site 845, 138A(1)10:262–263
 Site 846, 138A(1)11:331–333
 Site 847, 138A(1)12:392–393
 Site 848, 138A(2)13:733
 Site 849, 138A(2)14:806–807
 Site 850, 138A(2)15:887–889
 Site 851, 138A(2)16:964–965
 Site 852, 138A(2)17:1021
 Site 859, 141A6:155–157; 141B36:434–435
 Site 863, 141A10:442–446; 141B36:439–441
 Site 871, 144A3:102–103
 Site 873, 144A5:206–207
 Site 874, 144A6:252–253
 Site 878, 144A10:409–412
 Site 883, 145A5:204–208
 Site 884, 145A6:294–297
 Site 896, 148A3:172, 183
 Site 906, 150A10:338
 Site 907, 151A5:110
 Site 911, 151A9:317–318
 Site 926, 154A5:230–232
 Site 929, 154A8:415–417
 Site 931, 155A7:170
 Site 936, 155A12:375–376
 Site 974, 161A4:111
 Site 975, 161A5:176–177
 Site 976, 161A6:293–294
 Site 984, 162A6:220–222
 Site 995, 164A7:238–240
 Site 997, 164A9:331–334
 Site 999, 165A4:228–230
 solid phases, 112B29:484
 statistical analysis, 159B16:159–170
 summary, 125A10:244–252; 14:349–363; 130A7:287–
 290; 8:364–367; 131A6:263–268; 145B46:680–
 688
 systems, 124E_A17:105, 108–109
 techniques, 112B29:484
 Tonga Ridge, 135B59:931–949
 tool components, 127/128B(2)65:1022; 88:1395–
 1396; 89:1412–1415; 149A6:203
 uses, 127/128B(2)65:1021
 Vanuatu, 134B36:625–643
 volcanic ash, 128A5:339
 vs. depth, 134B33:581; 135A(1)4:168; 8:385; 9:476–
 477; 10:555; 144B39:660; 146A(1)6:287; 7:364;
 148A1:22; 3:173; 150A10:342–343; 152A9:128;
 154A5:217; 8:401; 155A7:160; 11:227; 14:267;
 20:364, 366; 156A5:86; 157A4:90, 103–104;
 7:377; 9:472, 494–496; 10:539, 555–557;
 159A5:145–147; 159B23:249; 160A6:144–147,
 150–151; 7:200–202, 208–210; 8:260–261, 264–
 271, 274–277, 282–287; 9:323–324; 11:404–408;
 12:446–447; 14:491; 161A4:101–104, 109–110;
 5:162–166; 6:271; 164A6:140, 156–157, 164–
 165; 7:211; 165A3:93–94, 104, 126–130, 4:194;
 5:273; 6:336, 339; 166A6:103, 144–147; 10:323;
 168A6:211–212; 174A_A4:137, 139; 5:185;
 185A4:140–141; 198A3:109; 9:87
 well-logging, 115A12:942, 944–945
 X-ray fluorescence data, 118A6:178–179; 127/
 128B(2)65:1025–1029; 88:1402; 89:1416–1417,
 1420–1421, 1426
See also aluminum logs; calcium logs; calcium yield
 logs; gadolinium logs; geochemical logs; geo-
 chemical tool string natural gamma ray logs;
 potassium logs; potassium oxide logs; potas-
 sium yield logs; silica logs; sulfur logs; thorium
 logs; uranium logs
 geochemical observatories
 configuration, 195A1:39–40; 3:171–173
 seafloors, 195A1:5, 10–14
 geochemical rain, organic carbon, 167B11:180
 geochemical sections, 158B27:363–387
 geochemical sediments, 152B2:20, 23, 26
 geochemical signals, 187B1:16–19
 geochemical sinks, 185B1:13–17
 geochemical spectral tool logs
 calcium variations, 130A8:335
 Site 805, 130A7:265–266
 geochemical stratigraphy
 lithology, 185B1:11–13
 trace elements, 164B15:155–163
 geochemical tool string logs
 Atlantis Bank, 118B15:271
 centroid compositions, 118B15:277
 chemostratigraphic zones, 118B15:276–280
 components, 129B34:636
 data analysis, 118B15:272–281
 iterative nonhierarchical cluster analysis (INCA),
 118B15:273–282
 methods, 130B48:776–778
 natural gamma ray, 135A(1)8:383
 onshore procedures, 143A4:75–77
 principal component analysis, 118B15:273, 283
 schematic drawing, 129B34:637; 136B13:154
 Site 843, 136B13:153–154
 vs. depth, 135A(1)9:474–475
See also aluminum activation clay tool; gamma ray
 spectrometry tool; neutron logs
 geochemical zoning
 calcium, 189A4:22
 potassium, 189A4:22
 geochemistry
 active ridge sediments, 118B7:148
 along-strike variability, 195A1:6
 alteration, 118B6:136–138; 27:546–547; 193B8:1–18
 Amsterdam-St. Paul hotspot, 121B39:802
 anhydrite, 193B7:1–23
 Atlantic Ocean E tropical, 108B17:298–302

- Atlantis Bank, 118A6:169, 174–175, 177–178
 basalts, 115B2:11–13; 3:31, 37–40; 10:104;
 129B21:405–413; 132A3:59–60; 136B9:107–118;
 151A5:79–80; 158B17:213–229; 163B7:63–93;
 168A4:70; 5:123–124, 126; 169A3:96;
 183A1:19–22, 59–63; 187B1:10–19; 191A4:32–
 33; 192A6:17; 7:8; 195A4:22–23; 196A3:32, 96
 basement, 158B19:255–276; 161B28:375–379;
 183A1:35–36; 5:34–38; 185A4:23–24; 200B1:8
 bimodal distribution, 118B26:473, 475
 black shales, 210B10:1–16
 Bonin Trough, 125B9:169
 bulk marine sediments, 127/128B(1)34:610–619;
 199A7:1–14
 bulk rock composition, 118B26:483–485
 Campanian interval, 108B17:306–308
 carbonates, 115B36:663–666; 127/128B(1)34:611–
 612, 615; 144B25:447–457; 48:846–869;
 160B35:447–451; 162B14:197–207;
 164B29:291–294; 182B12:1–11; 198B13:1–17
 changes in time, 184B12:4–5
 chemical stratigraphy, 118A6:147–150
 Chile triple junction, 141B29:363–372
 chilled margins, 137/140B3:38–42
 clasts, 129B5:137–152
 clay mineralogy, 156B1:3–30; 169B6:1–24
 clay-size fraction, 127/128B(1)34:611, 613, 620–621;
 168B12:149–157
 computer models, 137/140B5:53–61
 Conical Seamount, 125B20:371
 correlation with shipboard units, 203B2:5–8
 Cretaceous siliceous rocks, 198B17:1–45
 crust, 137/140B29:327–337; 195B2:8–9
 cyclic variations, 118B1:5
 dacites, 193B2:1–31
 database, 176B6:80
 décollement zone, 156B1:10
 deep-sea sediments, 185B7:5
 detrital component, 112B30:495–498, 502
 diabases, 180B1:1–18
 diagenesis, 146B(1)25:375–384; 210B8:1–63
 dredged vs. drilled gabbros, 118B26:471
 element depletion, 139B11:231–247
 element mobility, 127/128B(2)58:916; 137/
 140B17:202–204
 enrichment factors, 115B2:18
 extensional tectonics, 161B44:575
 extracted sediment, 154B31:470–471
 factor loading, 112B30:494–497
 ferromanganese micronodules, 199B14:1–20
 fluids, 125A2:28–29; 139A5:114–118, 120–121;
 156B25:311–319; 29:353–356; 158A7:123–124,
 126–127; 8:168–169; 9:173–174; 166A9:267–
 268; 186B14:8–13; 193B1:26–27; 194A1:55–57
 foraminifer tests, 144B57:993–995; 202B1:9
 forearcs, 125B10:169; 186B1:4
 fractional crystallization, 121B30:572; 125B9:164–
 165; 15:280
 gabbros, 118A4:71; 5:86; 147B1:3–19; 176B(synthe-
 sis):1–69; 6:14–20; 7:27–29; 8:1–60; 11:1–18;
 179A2:5; 4:8–9, 179–182; 205A4:174–175;
 209A1:5
 garnet-biotite gneiss, 183A5:37
 gas hydrates, 204A1:10
 gases, 164B3:30–35; 4:40–45
 geochemical stratigraphy and lithology, 123A1:8
 glass shards, 186B9:5–7
 high- and low-magnesian groups, 125A14:327
 hydrothermal alteration, 139A5:128–129;
 139B11:207–289; 15:313–328; 148B10:119–150
 hydrothermal circulation, 139B12:291–305; 20:395–
 410
 hydrothermal clays, 158B17:215, 217–220
 hydrothermal mounds, 158B4:47–70
 igneous rocks, 125B9:149–154; 12:222–223; 13:246;
 129B35:653–669; 143B15:245–261; 148B35:439;
 158A8:163; 10:199–200; 168A4:59–77;
 169A3:95–102; 183A1:7–11; 4:17–20; 7:39;
 192A1:28–30; 6:108; 7:58
 igneous vs. biogenic components, 118B7:147
 incoming plate, 205B1:26–28
 incompatible elements, 115B2:13, 18–19; 3:41; 7:73,
 75; 13:126; 121A11:332; 12:393, 403
 interlaboratory comparison, 152B7:85–91
 interlayer water, 129B16:295–302
 intersite variation, 115B2:19–20
 Izu-Bonin-Mariana forearc, 125B9:162, 167
 jasperoids, 193B9:1–30
 Jurassic, 129B19:361–388; 185A1:16–19
 Kerguelen Plateau, 119B50:926–928; 121B32:639–
 642, 644–645
 lava, 130B1:3–22; 148B2:9–19
 limestone, 144B23:429–437
 lithofacies, 161B2:21–36
 lithology, 115A12:945, 948; 118A6:147; 118B1:4–5;
 15:276–280; 26:471; 200A1:23
 loss-on-ignition data, 118A6:139
 lower sheeted dike complexes, 148B36:455–466
 magmas, 152B40:479–501; 192B1:5–7
 Mascarene Plateau, 115B3:26, 35–36
 massive sulfides, 158B3:41–46; 193B10:1–22
 meta-igneous rocks, 125B24:404–405
 methods, 118A6:139
 microbial activity, 201A1:11–13
 mid-ocean-ridge basalt-like composition,
 118B26:485–486
 modal gap, 118B26:480, 482, 488
 Nazareth Bank, 115B3:26
 Neogene, 115B38:700–706
 neutron activation analysis, 119B39:721
 Ninetyeast Ridge, 121B30:561
 noncarbonated fraction, 115B32:616–617
 oceanic pelagic sediments, 118B7:147
 onshore log processing, 143A4:75–81; 145B46:677–
 688; 149A6:200–202
 Ontong Java Plateau basalts, 192A3:28–29
 organic matter, 149B13:295–300; 157B21:361–372;
 159A9:310
 oxic conditions, 115B39:710, 712–713
 oxide-bearing vs. oxide-free gabbros, 118B26:486
 oxides, 115B38:701–703, 705

- Pacific Ocean E, 138A(1)1:9–10
 Paleocene/Eocene boundary profiles, 199A1:26
 peridotites, 149B23:413–424; 209A1:10–11
 periplatform carbonate sediments, 115B35:647–658
 permeability, 118B26:502
 Peru margin, 112B30:491–492; 48:683
 plate motion, 197B1:1–39
 pore fillings, 159B8:71–79
 pore water, 136B6:77–83; 145B45:671–675;
 146B(2)25:331; 152B25:293–305; 26:307–31;
 155B28:469; 157B38:628–632; 161B32:413–421;
 33:423–432; 165A8:396–398; 165B19:287–298;
 166B9:99–111; 17:179–195; 167B32:343, 346–
 347; 168A4:81–82; 5:142–144; 6:183–184;
 169B1:1–16; 170B4:5–6; 174A_B(synopsis):10;
 175A20:547–553; 180B22:17; 185A3:47;
 191A4:20–22; 193B4:1–15; 198A5:94; 6:83;
 7:23–25, 77; 8:76; 9:108; 204A3:13–19; 4:13–15,
 106–108; 5:7–8, 56; 6:9–12, 72; 7:9–12, 66;
 8:11–13, 83; 9:10–12, 81–82; 10:13–16, 97–99;
 11:11–12, 55
 postcumulus exchange, 118B26:487
 primary and secondary variations, 137/140B6:65–80
 principal results, 188A1:14–15, 18, 22
 rare earths, 115B39:710
 redox, 149B14:301–304
 reefs, 144B24:439–446
 reference sample, 137/140B32:353–355
 review, 189B1:5
 rock standards, 205B3:16
 rock types, 118B26:474
 sample storage effects, 164A7:199
 sand- vs. clay-sized fraction, 118B7:148–149
 sapropels, 160B16:199–217
 secondary minerals, 148B6:71–86
 sediment analytical methods, 125A2:26–27
 sedimentary rocks, 169A3:101
 sedimented rift, 139B44:695–717
 sediments, 135B7:108, 112–116, 127; 139B13:307–
 312; 141B21:279–286; 147B26:443–450;
 152B2:19–28; 155A6:111; 7:141, 147–148;
 8:191; 156B13:171–179; 157B12:150–157;
 164B14:147–149; 165A8:394, 396; 166B13:137–
 143; 14:145–152; 17:179–195; 167B23:263–271;
 169B10:19–20; 174A_B(synopsis):9; 177B1:1–
 14; 178B4:1–12; 180B(synthesis):15; 6:1–53;
 182A1:14–15; 182B14:1–17; 184B12:1–25;
 185A1:24; 189B12:1–13; 191B1:4; 198A4:86;
 205B1:16–17; 206B3:1–26; 207B9:1–23
 serpentinite mud, 195B4:1–49
 shale composite, 210B8:59
 shallow-level processes, 125B12:223, 226–227
 sheeted dike complexes, 137/140B7:81–97; 15:167–
 189; 148B4:39–55
 shipboard samples, 158B2:27–39
 shipboard vs. laboratory results, 125B9:149–151, 158–
 161; 10:170–173
 sideromelane, 157B25:421–428
 sills and lava flows, 129B18:345–359
 Site 504, 137A2:27–28; 140A2:78–82, 121; 148A2:53–
 60; 3:150–151; 148B9:111–118
 Site 680, 112B48:683
 Site 709, 115B37:685
 Site 711, 115B37:686
 Site 713, 115B3:26
 Site 715, 115B3:26
 Site 716, 115B35:650–653
 Site 735, 176A1:16–18; 3:21–22, 47–54; 176B3:1–13
 Site 738, 119B16:301–302
 Site 739, 119B50:927–928
 Site 778, 125A6:102–106
 Site 779, 125A7:122–127
 Site 780, 125A8:155–164
 Site 781, 125A8:184–185; 9:186–187
 Site 782, 125A10:207–211, 222
 Site 783, 125A11:257–260
 Site 784, 125A12:280–281, 284–285
 Site 785, 125A13:310
 Site 786, 125A14:327–331; 125B9:149–151, 154–157,
 162–163; 12:212–213, 217, 222
 Site 795, 127/128B(1)41:705–717
 Site 798, 127/128B(1)34:610–612; 42:719–737
 Site 799, 127/128B(1)34:610–612; 42:719–737
 Site 801, 129A3:136, 144; 185A3:15–18
 Site 802, 129A4:218–219
 Site 807, 130A9:456
 Site 827, 134A7:110–114
 Site 828, 134A8:154–158
 Site 829, 134A9:199–206
 Site 830, 134A10:277–281
 Site 831, 134A11:341–344
 Site 832, 134A12:414–419
 Site 833, 134A13:502–508
 Site 855, 139A5:128–140
 Site 856, 139A6:189, 191–238
 Site 857, 139A7:313–348
 Site 869, 143B16:263–276
 Site 871, 144A3:76–77
 Site 881, 145A3:58–60
 Site 882, 145A4:108
 Site 883, 145A5:158–160
 Site 884, 145A6:246–247
 Site 887, 145A8:366–367
 Site 894, 147A3:88–90
 Site 895, 147A4:143–144
 Site 897, 149A4:73–83
 Site 900, 149A7:231–236
 Site 925, 154A4:87, 89, 91–98
 Site 926, 154A5:178–179, 181, 183–189
 Site 927, 154A6:248–249, 251, 256–257, 261
 Site 928, 154A7:300, 302, 304–309
 Site 929, 154A8:355, 359, 361–363, 369–371
 Site 1037, 169A5:215–216
 Site 1039, 170A3:71–79
 Site 1040, 170A4:127–141
 Site 1041, 170A5:170–178
 Site 1042, 170A6:201–206
 Site 1043, 170A7:233–238
 Site 1088, 177A3:12–13
 Site 1089, 177A4:15–18; 177B1:1–14
 Site 1090, 177A5:19–23
 Site 1091, 177A6:13–15

- Site 1092, 177A7:14–15
 Site 1093, 177A8:15–18
 Site 1094, 177A9:12–14
 Site 1105, 179A4:45–48
 Site 1150, 186A4:37–41
 Site 1151, 186A5:25–27
 Site 1152, 187A3:9–11
 Site 1153, 187A4:6–7
 Site 1154, 187A5:6–7
 Site 1155, 187A6:9–12
 Site 1156, 187A7:10–12
 Site 1157, 187A8:10–12
 Site 1158, 187A9:8–10
 Site 1159, 187A10:5–6
 Site 1160, 187A11:12–13
 Site 1161, 187A12:10–11
 Site 1162, 187A13:14
 Site 1163, 187A14:7–8
 Site 1164, 187A15:11–12
 Site 1179, 191A4:20–23
 Site 1188, 193A1:16; 3:65–71
 Site 1189, 193A1:20; 4:46–48
 Site 1190, 193A5:6
 Site 1191, 193A1:23; 6:8
 Site 1192, 194A3:14–18
 Site 1193, 194A4:20–24
 Site 1194, 194A5:16–19
 Site 1195, 194A6:12–16
 Site 1196, 194A7:24–26
 Site 1197, 194A8:17–19
 Site 1198, 194A9:15–18
 Site 1199, 194A7:26–27
 Site 1200, 195A3:29–40
 Site 1201, 195A4:33–36
 Site 1215, 199A8:15–18
 Site 1216, 199A9:10–12
 Site 1217, 199A10:16–18
 Site 1218, 199A11:25–27
 Site 1219, 199A12:25–28
 Site 1220, 199A13:21–24
 Site 1221, 199A14:18–20
 Site 1222, 199A15:12–13
 Site 1223, 200A3:30–34
 Site 1224, 200A4:4–6, 36–40; 200B1:44
 Site 1232, 202A3:12–14
 Site 1233, 202A4:13–16
 Site 1234, 202A5:12–15
 Site 1235, 202A6:13–16
 Site 1236, 202A7:17–19
 Site 1237, 202A8:22–25; 202B8:1–19
 Site 1238, 202A9:17–21
 Site 1239, 202A10:16–20
 Site 1240, 202A11:14–17
 Site 1241, 202A12:15–17
 Site 1242, 202A13:13–15
 Site 1243, 203A3:13–17
 Site 1258, 207A1:21–22
 Site 1262, 208A3:19–23
 Site 1263, 208A4:17–21
 Site 1264, 208A5:14–19
 Site 1265, 208A6:22–25
 Site 1266, 208A7:21–24
 Site 1267, 208A8:21–25
 Site 1268, 209A3:33–37, 159–160
 Site 1270, 209A5:34–39
 Site 1271, 209A6:27–31
 Site 1272, 209A7:20–25
 Site 1274, 209A9:17–20
 Site 1275, 209A10:22–27
 Site 1276, 210A1:20–21; 3:95–98
 Site 1277, 210B9:68–69
 Sites 794–797, 127/128B(1)39:677–695
 Sites 885–886, 145A7:322
 Sites 949 and 1046 comparison, 171A_A5:74
 source provinces, 118B7:149
 statistical analysis, 158B27:376–381
 stratigraphic logs, 118B1:13
 subduction, 125B38:643–645; 170A1:13–14; 185A1:1–63; 205B1:23–24
 sulfides, 158A7:93–94, 97–98; 8:155–159; 9:172; 10:189–191; 11:216–219; 158B1:19–20; 169A3:87–89
 sulfur, 129B15:283–294
 summary, 179B(synthesis):1–125; 189A1:40–43; 198A1:61–63; 202A1:145; 206A1:25–26
 tephra, 119B17:335; 152B8:97–99; 186B9:8–9
 terrigenous component, 154B31:467–469; 36:507–526; 168B7:87–94
 transform vs. ridge axis samples, 118B26:472
 trends in deposits, 129B1:3–30
 Trujillo Basin stratigraphy, 112A16:558
 turbidites, 149B10:286–287
 ultramafics, 195A3:150–151
 volcanics, 125B15:279–286, 292; 134B16:337–352; 135B24:385–425; 136B4:55, 57, 59; 141A9:316; 145B44:661–669; 151B17:309–331; 152B6:67–84; 157B18:315–328; 161B27:357–373; 44:568–569; 162B16:217–230; 163B7:63–75; 165A3:81–82, 103; 201B19:11–12; 203B2:3–8
 volcanoclastics, 134B9:144–155; 157A7:354–355; 8:414–415; 9:456–457; 10:521, 523
 volcanism, 193B1:9–11
 water as alteration index, 119B16:307
 weathered clasts, 149B29:497–515
 whole rocks, 118B26:527–530; 192A3:159; 4:120
 xenoliths, 193B6:3–4
 X-ray fluorescence data, 118A6:178–179
 zirconium as differentiation index, 119B16:303, 313
See also biogeochemical cycling; chemical composition; elemental yields; immobile element ratios; incompatible element ratios; Kleiner-Hartigan diagrams
 geochemistry, bulk
 altered rocks, 193B1:18–20
 dacite lava, 193B2:26–29, 31
 hydrothermal mounds, 158B27:367, 370–376; 28:395–397
 geochemistry, fluid
 Sites 1026–1027, 168A5:134–138
 Sites 1028–1032, 168A6:176–177
 geochemistry, high-resolution inorganic, 199B16:1–12

- geochemistry, igneous
 basement, 206A3:52–65
 Site 1138, 183A6:59
 Site 1139, 183A7:39
 Site 1140, 183A8:16–19
 Site 1141, 183A9:26–30
 Site 1142, 183A9:26–30
- geochemistry, inorganic
 alkali basalts, 113A6:201–202
 alteration effects, 121A15:531
 aluminosilicate detritus factor, 117B23:412–414
 Atlantic Ocean E tropical, 108A2:45, 48; 3:123–124;
 4:235, 241; 5:342, 344; 6:422, 425; 7:497–498;
 8:565–566; 9:628–629, 635
 basalts, 120A6:136; 8:268; 9:322; 121A10:275, 277,
 279; 11:326–331; 121B29:567–572
 basement, 123A4:194–200; 127A1:23; 5:205; 127/
 128B(2)79:1265–1267
 bentonites, 123B4:100
 biogenic component, 117B23:414–417
 bottom water salinity, 117B30:499
 Broken Ridge, 121A2:56–57; 6:135–136, 138; 7:181,
 183; 8:212–213; 9:247, 250; 13:491–492
 bulk composition, 123B8:182–183
 Bunbury basalts, 120B(1)2:39
 calcite dilution, 117B29:497
 carbonates, 127A1:22–23; 5:205; 127/
 128B(2)79:1263–1267; 128A5:276–277
 Cenozoic vs. Cretaceous, 123B8:188
 clathrates, 127A6:278
 compositional end-members, 121B20:424–430;
 21:439–444
 correlation matrix, 117B23:411–412
 cotectic control, 123A4:200
 Cretaceous/Tertiary boundary, 171B_B4:1–26
 crystal-melt segregation, 121A15:529
 crystallization, 153B17:333–350
 dark-light cycles, 127/128B(1)32:569
 data, 127/128B(2)79:1261–1274; 129A1:18–19
 diagenesis, 119A13:254–255; 127A1:23; 127/
 128B(2)79:1262–1263, 1267
 dissolution gradients, 133B49:729, 731–733
 dolomite layers, 117A11:369–370
 factor analysis, 121B20:424–425, 428–429, 432;
 21:439–440
 freshening spike, 112A20:909, 929–930
 gabbros, 153B6:99–121; 28:491–504
 geochemical intervals, 128A5:244, 318–321
 glauconite, 120B(1)9:122
 gradient uniformity, 121A10:283
 Gran Canary, 157B38:630–631
 hydrothermal end-members, 121B21:442–443
 hydrothermal sediments, 199B15:1–11
 igneous rocks, 123A5:322–324
 in situ water samples, 112A13:319–320
 incompatible elements, 121A11:327, 329, 331; 15:525
 Indus Fan, 117A8:177, 179–183
 intersite differences, 121A11:329; 15:525–526;
 121B33:633–638
 Jane Basin, 113A12:729–730, 735–737
 Japan Sea, 127A1:22–23, 128A1:31–32
 Kerguelen-Heard Plateau N, 119A2:35; 5:137–140;
 6:185–188, 219
 Kerguelen Plateau, 120B(1)2:38
 Kerguelen sediment ridge, 119A2:35; 13:493; 14:516–
 518; 15:544–545
 lateral gradient variations, 121A13:491–492
 Lau Basin, 135A(1)1:31–32
 lava, 121B31:594–595; 32:616–620
 Lima Basin, 112A11:184; 19:823–824; 112B1:18
 lithology, 117A14:449; 123A4:152; 5:322–324;
 123B8:169–182; 207B8:1–37
 long-term trends, 121A15:525–529
 low-salinity water source, 119A9:360
 Mascarene Plateau, 115A5:259–260
 mature ocean mid-ocean-ridge basalt/mid-Indian
 ocean ridge basalt, 123B42:794–797
 metal-free squeezer, 127/128B(1)36:635, 648–650
 methods, 117B29:474–475
 Mid-Indian Ocean Ridge (MIOR), 121B32:265
 minerals, 117B29:473
 Nankai Trough, 131A6:128–138
 Naturalist Plateau, 120B(1)2:39, 42
 Nazareth Bank, 115A4:143–145
 Ninetyeast Ridge, 121A2:56–57; 10:283–284; 11:333–
 336; 12:398–400; 121B30:586–588
 Oman margin, 117A2:28
 Ontong Java Plateau, 130A2:34
 Owen Ridge, 117A2:28
 oxygen deficiency effects, 117B30:499
 peridotites and mafic rocks, 153B10:181–241
 Peru margin, 112A2:40–41
 phosphatic factor, 117B23:418–419
 Pisco Basin W, 112A18:725–727; 112B27:457
 Pleistocene intervals, 117B23:410
 pore water, 133B48:705–721; 49:729, 731–733, 734
 principal component analysis, 117B23:413; 29:493–
 498
 Rajmahal Volcanic Formation, 120B(1)2:39
 Red Sea basalts, 123B42:794–797
 reference standards, 121B30:585; 32:614; 41:891–893
 rift lavas compared, 123B42:794–797
 rifting mechanisms, 121B21:444
 safety considerations, 128A5:322–323
 sediment source detrital phase, 123B8:181–182
 sediments, 117A14:462; 151A13:411–412; 206A3:36–
 41
 shore-based analyses, 127/128B(1)36:635–650
 short-term trends, 121A15:529–530
 Sierra Leone Rise, 108A10:751; 11:799, 803; 12:845–
 846, 848; 13:936–937
 Site 680, 112B26:449; 27:457
 Site 681, 112A13:319–320
 Site 682, 112A14:386–391
 Site 685, 112A17:625–629
 Site 688, 112A20:907–914; 112B26:449
 Site 689, 113A5:128–130
 Site 690, 113A6:199–200, 227, 230–231; 113B1:7–8
 Site 693, 113A8:372–377, 380
 Site 694, 113A9:478, 481, 484–486
 Site 695, 113A10:559–562
 Site 696, 113A11:643, 646–651

- Site 708, 115A6:414, 416
 Site 709, 115A7:479-481
 Site 710, 115A8:609
 Site 712, 115A10:749-751
 Site 713, 115A10:749-751
 Site 714, 115A11:857-858
 Site 715, 115A12:928
 Site 716, 115A13:1012-1013
 Site 721, 117A9:239
 Site 722, 117A10:294; 117B23:421-424
 Site 723, 117A11:346-352
 Site 724, 117A12:410; 117B23:425-429
 Site 725, 117A13:431-432, 434
 Site 726, 117A14:458-462
 Site 728, 117A16:520-524
 Site 729, 117A17:552-553
 Site 730, 117A18:578-579
 Site 731, 117A19:616-619
 Site 738, 119A2:35; 7:254-257
 Site 739, 119A2:35; 8:310-313
 Site 740, 119A2:35; 9:360-362, 374; 119B3:53
 Site 741, 119A2:35; 10:385, 395
 Site 742, 119A2:35; 11:415, 418-420
 Site 743, 119A2:35; 12:465-466, 475
 Site 744, 119A2:35; 13:490-491
 Site 747, 120A6:116-119
 Site 748, 120A7:208-209, 224-225
 Site 749, 120A8:259-262
 Site 750, 120A9:308
 Site 751, 120A9:356-358
 Site 758, 121A12:398-400
 Site 765, 123A4:64, 142-158, 247; 123B8:174-175
 Site 766, 123A5:302-304
 Site 794, 127A4:72-73, 107
 Site 795, 127A5:174, 204
 Site 796, 127A6:251, 278-285
 Site 797, 127A7:324-325, 362
 Site 798, 127/128B(1)34:605-621; 128A1:31-32;
 4:125, 171
 Site 799, 127/128B(1)34:605-621; 128A1:31-32;
 5:244, 316, 326-327
 Site 800, 129A2:57-60
 Site 801, 129A3:123-124
 Site 802, 129A4:205-207
 Site 803, 130A5:132-139
 Site 804, 130A6:200-202
 Site 805, 130A7:248-254
 Site 806, 130A8:320, 324-326
 Site 807, 130A9:417-419
 Site 811, 133A(1)4:101-104
 Site 812, 133A(1)5:154-155
 Site 813, 133A(1)6:188, 190-191
 Site 814, 133A(1)7:215-218
 Site 815, 133A(1)8:265-268
 Site 816, 133A(1)9:316-317
 Site 817, 133A(1)10:369-370
 Site 818, 133A(1)11:429-433
 Site 819, 133A(1)12:466-469
 Site 820, 133A(1)13:520-525
 Site 821, 133A(1)14:581-585
 Site 822, 133A(1)15:632-639
 Site 823, 133A(1)16:707-710
 Site 824, 133A(1)17:781-784
 Site 825, 133A(1)4:105
 Site 834, 135A(1)4:126-128
 Site 835, 135A(1)5:213, 216
 Site 836, 135A(1)6:265-266
 Site 837, 135A(1)7:316-318
 Site 838, 135A(1)8:365-367
 Site 839, 135A(1)9:428-431
 Site 840, 135A(1)10:534-535, 537
 Site 841, 135A(1)11:621-625
 Site 842, 136A4:46-48, 55-56
 Site 843, 136A5:69, 71
 Site 844, 138A(1)9:148-153
 Site 845, 138A(1)10:221-225, 228-230
 Site 846, 138A(1)11:295-304
 Site 847, 138A(1)12:353, 355-359
 Site 848, 138A(2)13:698-701, 703-704
 Site 849, 138A(2)14:749, 752-754
 Site 850, 138A(2)15:830-831, 833-834, 836-843
 Site 851, 138A(2)16:917, 919-922
 Site 852, 138A(2)17:990-992, 994, 996-997
 Site 853, 138A(2)18:1036-1037, 1042
 Site 854, 138A(2)19:1081-1083
 Site 859, 141A6:114-118
 Site 860, 141A7:208-211
 Site 861, 141A8:272-274
 Site 862, 141A9:331
 Site 863, 141A10:392-394, 396-398, 400
 Site 865, 143A6:135-136
 Site 866, 143A7:215
 Site 869, 143A9:330-331
 Site 871, 144A3:67-68
 Site 872, 144A4:128-129
 Site 873, 144A5:178-179
 Site 874, 144A6:231-232
 Site 877, 144A8:302-303
 Site 878, 144A10:366
 Site 879, 144A11:427
 Site 880, 144A12:445-446
 Site 881, 145A3:52-54
 Site 882, 145A4:96-98
 Site 883, 145A5:148-153
 Site 884, 145A6:235, 237-242
 Site 887, 145A8:351-354
 Site 888, 146A(1)4:83-86
 Site 891, 146A(1)6:267, 269-273
 Site 892, 146A(1)7:343-346
 Site 897, 149A4:97-100
 Site 898, 149A5:134-137
 Site 899, 149A6:190-192
 Site 900, 149A:244-245
 Site 902, 150A6:98-101
 Site 903, 150A7:167-173
 Site 904, 150A8:233-235
 Site 905, 150A9:286-291
 Site 906, 150A10:330-334
 Site 907, 151A5:80-84; 162A7:245-248
 Site 908, 151A6:129-131
 Site 909, 151A7:181-183
 Site 910, 151A8:239-241

- Site 911, 151A9:285–288
 Site 912, 151A10:332–333
 Site 913, 151A11:366–368
 Site 914, 152A6:67
 Site 915, 152A7:83
 Site 916, 152A8:97–101
 Site 918, 152A11:231–237
 Site 919, 152A12:269–272
 Site 920, 153A3:64–72
 Site 921, 153A4:141–151
 Site 922, 153A5:191–193
 Site 923, 153A6:231–235
 Site 930, 155A6:104–106, 108
 Site 931, 155A7:140–141
 Site 932, 155A8:190–193
 Site 933, 155A9:217–219
 Site 934, 155A10:260–261
 Site 935, 155A11:295–297
 Site 936, 155A12:347–350
 Site 937, 155A13:398–400
 Site 938, 155A14:424
 Site 939, 155A15:449–453
 Site 940, 155A16:475–476, 478
 Site 941, 155A17:520–521
 Site 942, 155A18:557–558
 Site 943, 155A19:583–584
 Site 944, 155A20:610–612
 Site 945, 155A21:650–651
 Site 946, 155A22:674–675
 Site 948, 156A6:137–150
 Site 949, 156A7:221, 225–227, 229–235, 237
 Site 950, 157A4:77–78
 Site 951, 157A5:123–125
 Site 952, 157A6:154–156
 Site 953, 157A7:355–358
 Site 954, 157A8:415, 417–419
 Site 955, 157A9:457–459
 Site 956, 157A10:523
 Site 959, 159A5:108–112; 9:310–311
 Site 960, 159A6:192–195
 Site 961, 159A7:243–245
 Site 962, 159A8:284–286
 Site 963, 160A4:67, 69; 5:108, 110, 113
 Site 966, 160A7:185–188
 Site 967, 160A8:246–247, 249–250
 Site 968, 160A9:310–313
 Site 969, 160A10:363, 366–367
 Site 970, 160A11:390–394
 Site 971, 160A12:435–437
 Site 973, 160A14:484–485
 Site 974, 161A4:82–83, 85, 87–89
 Site 975, 161A5:144–146, 149–150
 Site 976, 161A6:233–238
 Site 977, 161A7:319–323
 Site 978, 161A8:378–381
 Site 979, 161A9:403–408
 Site 982, 162A4:115–116
 Site 983, 162A5:157–158
 Site 984, 162A6:192–193, 195
 Site 985, 162A8:274–276
 Site 986, 162A9:308–310, 312
 Site 987, 162A10:361–363
 Site 994, 164A6:128–132
 Site 995, 164A7:198–200
 Site 996, 164A8:264–266
 Site 997, 164A9:298–301; 164B14:147–149; 15:151–163
 Site 998, 165A3:73–79
 Site 999, 165A4:165–174
 Site 1000, 165A5:258–263
 Site 1001, 165A6:316–323, 348
 Site 1002, 165A7:369–370
 Site 1003, 166A6:91–95
 Site 1004, 166A7:160–164
 Site 1005, 166A8:188–192
 Site 1006, 166A9:251–255
 Site 1007, 166A10:312–317
 Site 1010, 167A(1)4:73–75
 Site 1011, 167A(1)5:104–105
 Site 1012, 167A(1)6:143–145
 Site 1013, 167A(1)7:165–166
 Site 1014, 167A(1)8:191, 193
 Site 1015, 167A(1)9:230, 232
 Site 1016, 167A(1)10:259–261
 Site 1017, 167A(1)11:295–296
 Site 1018, 167A(1)12:328–329
 Site 1019, 167A(1)13:367–368
 Site 1020, 167A(1)14:405–406
 Site 1021, 167A(1)15:447
 Site 1022, 167A(1)16:473, 475
 Site 1033, 169S_A2:39–40
 Site 1034, 169S_A2:40
 Site 1035, 169A3:112–117
 Site 1036, 169A4:169–175
 Site 1037, 169A5:217–221
 Site 1038, 169A6:273–281
 Site 1049, 171B_A3:77
 Site 1050, 171B_A4:141, 143–145
 Site 1051, 171B_A5:206–210
 Site 1052, 171B_A6:285–287
 Site 1053, 171B_A7:333–334
 Site 1065, 173A4:87–88, 90
 Site 1067, 173A6:151
 Site 1068, 173A7:205
 Site 1069, 173A8:252
 Site 1070, 173A9:290
 Site 1071, 174A_A3:71–74
 Site 1072, 174A_A4:122–123
 Site 1073, 174A_A5:170–172
 Site 1095, 178A4:21–24
 Site 1096, 178A5:18–21
 Site 1097, 178A6:14–15
 Site 1098, 178A7:13–15
 Site 1099, 178A7:15–16
 Site 1100, 178A9:15
 Site 1101, 178A8:13–15
 Site 1108, 180A5:30–33; 180B6:14–15
 Site 1109, 180A6:54–59; 180B6:9–12
 Site 1114, 180A8:30–31
 Site 1115, 180A9:38–45; 180B6:5–9
 Site 1116, 180A10:17; 180B6:16
 Site 1118, 180A12:36–39; 180B6:12–14

- Site 1119, 181A3:21–24
 Site 1120, 181A4:18–20
 Site 1121, 181A5:19–21
 Site 1122, 181A6:27–30
 Site 1123, 181A7:37–40; 181B9:1–10
 Site 1124, 181A8:30–32
 Site 1125, 181A9:19–21
 Site 1126, 182A4:30–33
 Site 1127, 182A5:19–21
 Site 1128, 182A6:27–30
 Site 1129, 182A7:20–23
 Site 1130, 182A8:23–25
 Site 1131, 182A9:18–21
 Site 1132, 182A10:23–25
 Site 1133, 182A11:13–14
 Site 1134, 182A12:20–21
 Site 1135, 183A3:17–18
 Site 1136, 183A4:29
 Site 1137, 183A5:51–52
 Site 1138, 183A6:59
 Site 1139, 183A7:54
 Site 1140, 183A8:27
 Site 1141, 183A9:41
 Site 1143, 184A4:20–23
 Site 1144, 184A5:17–19
 Site 1145, 184A6:13–15
 Site 1146, 184A7:17–19
 Site 1147, 184A8:7–9
 Site 1148, 184A9:21–23
 Site 1165, 188A3:43–47
 Site 1166, 188A4:29–30
 Site 1167, 188A5:23–24
 Site 1168, 189A3:42–45
 Site 1169, 189A4:20–22
 Site 1170, 189A5:46–49
 Site 1171, 189A6:50–54
 Site 1172, 189A7:43–45
 Site 1173, 190A4:16–19, 64, 131
 Site 1174, 190A5:20–24, 70, 133
 Site 1175, 190A6:15–18, 46, 83
 Site 1176, 190A7:11–15, 38, 73
 Site 1177, 190A8:14–17
 Site 1178, 190A9:15–19
 Site 1207, 198A3:33–37, 134
 Site 1208, 198A4:25–28
 Site 1209, 198A5:26–29
 Site 1210, 198A6:23–26
 Site 1211, 198A7:23–25
 Site 1212, 198A8:20–23
 Site 1213, 198A9:29–30
 Site 1253, 205A1:20–21; 4:6, 45–48
 Site 1254, 205A1:30–32; 5:5–7, 27–33
 Site 1255, 205A1:35; 6:3, 14–17
 Site 1257, 207A4:24–27
 Site 1258, 207A5:26–30
 Site 1259, 207A6:31–32
 Site 1260, 207A7:26–30
 Site 1261, 207A8:26–29
 Sites 867–868, 143A8:284
 Sites 875–876, 144A7:275–276
 Sites 885–886, 145A7:312–313
- Sites 980–981, 162A3:74–76, 79–81
 Sites 991–993, 164A5:88–90
 Sites 1008–1009, 166A11:361–365
 Sites 1054–1055, 172A3:59–63
 Sites 1056–1059, 172A4:122–129
 Sites 1060–1062, 172A5:217–229
 Sites 1063–1064, 172A6:281–288
 Sites 1110–1113, 180A7:21
 southern ridge sites, 121A10:279
 sulfur geochemical cycles, 129B15:292–293
 summary, 130A12:549–551
 tephra layers, 121B14:27–284
 trace elements, 113A6:201, 203; 117B23:429;
 121A13:474, 476–477
 Trujillo Basin, 112A16:549–554
 tungsten carbide vs. crushed agate, 121B32:615
 turbiditic–pelagic transition, 117B29:483
 ultramafic rocks, 153B26:457–470
 upper Pliocene, 184B12:25
 upward fluid migration effects, 117B30:507, 511
 variability and calcite dilution, 117B29:496
 volcanic ash, 121A13:472–475; 127A1:22; 127/
 128B(2)79:1265; 165A4:202
 Weddell Sea, 113B5:52
 well-logging, 121B42:895–905, 908, 910–912
 X-ray fluorescence data, 117B29:476–481, 483–493
 Yaquina Basin, 112A15:461–464
See also geochemical logs; geochemistry
- geochemistry, organic
 accretionary prisms, 131A1:13
 alkenones, 186B13:1–12
 Atlantic Ocean E tropical, 108A2:45–47; 3:124–127;
 4:235–236; 5:342–344; 6:422–423; 7:497, 499;
 8:565–566; 9:629
 bacterial degradation of organic matter, 127A1:22
 basement, 131A6:150–159
 Bengal Fan, 116A4:57–61, 80; 5:104–108; 6:164–166,
 186; 116B12:141–144, 14:155–160
 biogeochemical stratigraphy, 112A16:545–549
 Broken Ridge, 121A2:57; 13:492–495
 bulk composition, 121A13:493–494
 carbon, 112A11:179–181; 13:318–319
 climate optimum, 178B34:5–6
 Demerara Rise, 207A1:45–46
 depositional environment, 151A13:412–414
 gas hydrates, 112A15:461
 gases, 146B(1)26:385–397
 Gran Canary, 157B38:631–632
 hydrocarbons, 112A13:317–318; 128A4:175–176;
 5:321–322
 Jane Basin, 113A12:736, 738–740
 Japan Sea, 127A1:23–24, 128A1:32
 Juan de Fuca Ridge, 139A5:121, 124–128; 6:197–203;
 8:479–493; 139B25:467–468
 Kerguelen–Heard Plateau N, 119A2:34–35; 5:140, 156;
 6:188–191, 219
 Kerguelen sediment ridge, 119A2:34–35; 14:518–519;
 15:545
 Lau Basin, 135A(1)1:32
 Lima Basin, 112A11:178–181; 19:820–824;
 112B39:593

- lithology, 117B36:589
Mascarene Plateau, 115A5:260–261
microbial activity depth, 112A12:250
Mid-Pacific Mountains, 143B12:173–196
Nazareth Bank, 115A4:143–146
Neogene interval, 113B50:881
Ninetyeast Ridge, 121A2:57; 10:286–287; 11:336–337;
12:400–402
Oman margin, 117A2:26–28
Owen Ridge, 117A2:26–28
Peru margin, 112A2:37–39
pigments, 112A12:265–266, 268; 16:547
Pisco Basin W, 112A18:724–725; 112B27:457
Rock-Eval pyrolysis data, 108A2:46, 50; 3:125–126;
5:343, 346; 9:635; 10:755; 11:803; 117A2:27–28;
8:184; 9:242; 10:295; 11:352–355; 13:411, 438;
14:463; 15:488; 16:524; 18:580; 117B34:562–
564; 119A5:140–143; 6:189–190, 196–198;
10:386–387; 14:519, 523–524; 119B22:409;
127A4:114–119; 5:213; 6:285; 7:367, 128A4:177
sediments, 117B32:531; 131A7:279; 186B11:16–17;
190A1:34–36, 85
Sierra Leone Rise, 108A10:751; 11:799–800; 12:846–
847; 13:937
Site 680, 112A12:264–265; 112B26:445, 449; 27:457
Site 681, 112B36:558; 39:593
Site 682, 112A14:383–387
Site 685, 112A17:622–625, 627
Site 688, 112A20:904–908; 112B26:446, 449
Site 689, 113B1:9; 8:129, 131
Site 690, 113A6:231, 234–236, 238; 113B1:9
Site 692, 113A7:312–316; 113B16:199–207
Site 693, 113A8:377–378, 381–383; 113B16:199–207
Site 694, 113A9:485, 487–488; 113B16:199–207
Site 695, 113A10:563–565
Site 696, 113A11:650, 652–655
Site 709, 115A7:481
Site 710, 115A8:609
Site 712, 115A10:751
Site 713, 115A10:751
Site 714, 115A11:858–859
Site 715, 115A12:928
Site 716, 115A13:1013
Site 723, 117A11:352–353
Site 725, 117A13:433
Site 727, 117A15:481
Site 729, 117A16:553
Site 730, 117A18:579–581
Site 731, 117A19:618
Site 738, 119A2:34–35; 7:257
Site 739, 119A2:34–35; 8:313
Site 740, 119A2:34–35; 9:362, 374–375
Site 741, 119A2:34–35; 10:385–387
Site 742, 119A2:34–35; 11:420–422; 119B46:838
Site 743, 119A2:34–35; 12:466, 475
Site 744, 119A2:34–35; 13:491
Site 747, 120A6:119
Site 748, 120A7:210–213
Site 749, 120A8:263
Site 750, 120A9:313–316
Site 751, 120A10:358–359
Site 752, 121A6:136–138, 141–143
Site 753, 121A7:181
Site 754, 121A8:212–216
Site 755, 121A9:250–251
Site 756, 121A10:286–287, 290–291
Site 757, 121A11:336–337, 343–344
Site 758, 121A12:400–402, 420–421
Site 765, 123A4:158–164, 247
Site 766, 123A5:304–306, 343–344
Site 794, 127A4:72–73, 111–119, 121
Site 795, 127A5:174, 209–217
Site 796, 127A6:251, 283–290
Site 797, 127A7:324–325, 365
Site 798, 127/128B(1)25:423–437; 38:667–675;
128A1:32; 4:125; 5:175
Site 799, 127/128B(1)25:423–437; 35:623–633;
38:667–675; 128A1:32; 5:244–245, 321
Site 805, 130A7:254, 256
Site 806, 130A8:326
Site 807, 130A9:419–420
Site 808, 131B35:427–450
Site 811, 133A(1)4:105–106
Site 812, 133A(1)5:155–157
Site 813, 133A(1)6:191, 193
Site 814, 133A(1)7:218–219
Site 815, 133A(1)8:268–269
Site 816, 133A(1)9:317–318
Site 817, 133A(1)10:371
Site 818, 133A(1)11:433
Site 819, 133A(1)12:469
Site 820, 133A(1)13:525–527
Site 821, 133A(1)14:585–587
Site 822, 133A(1)15:639–641
Site 823, 133A(1)16:710–711, 713, 715
Site 824, 133A(1)17:784–785
Site 825, 133A(1)4:107–108
Site 835, 135A(1)5:216, 218–219
Site 836, 135A(1)6:266–267
Site 837, 135A(1)7:318
Site 838, 135A(1)8:367–368
Site 839, 135A(1)9:431–433
Site 840, 135A(1)10:537–538
Site 841, 135A(1)11:625–628
Site 859, 141A6:110–114
Site 860, 141A7:202–203, 205–208
Site 861, 141A8:268–272
Site 862, 141A9:326–329
Site 863, 141A10:387–392
Site 865, 143A6:136–137
Site 866, 143A7:216–220
Site 869, 143A9:331–332
Site 871, 144A3:68–71
Site 872, 144A4:129, 131–132
Site 873, 144A5:179–182
Site 874, 144A6:232–236
Site 877, 144A8:303–308
Site 878, 144A10:366–368
Site 879, 144A11:427–430
Site 881, 145A3:54–55
Site 882, 145A4:98–99
Site 883, 145A5:153–154

- Site 884, 145A6:242
Site 887, 145A8:354, 357
Site 888, 146A(1)4:78–83
Site 889, 146A(1)5:176–184, 186–191
Site 890, 146A(1)5:176–184, 186–191
Site 891, 146A(1)6:263–266
Site 892, 146A(1)7:331, 333–346
Site 897, 149A4:93–97
Site 898, 149A5:131–134
Site 899, 149A6:189–190
Site 900, 149A7:241–244
Site 902, 150A6:91–98
Site 903, 150A7:163–167
Site 904, 150A8:231–233
Site 905, 150A9:282–286
Site 906, 150A10:328–330
Site 907, 162A7:243–245
Site 914, 152A6:66–67
Site 915, 152A7:82–83
Site 916, 152A8:97
Site 918, 152A11:229–231
Site 919, 152A12:267–269
Site 930, 155A6:103–104
Site 931, 155A7:138, 140
Site 932, 155A8:189–190
Site 933, 155A9:215–217
Site 934, 155A10:256, 259–260
Site 935, 155A11:293–295
Site 936, 155A12:345–347
Site 937, 155A13:398
Site 938, 155A14:423–424
Site 939, 155A15:448–449
Site 940, 155A16:475
Site 941, 155A17:519–520
Site 942, 155A18:555–557
Site 943, 155A19:579, 582–583
Site 944, 155A20:608, 610
Site 945, 155A21:649–650
Site 946, 155A22:671, 673
Site 950, 157A4:78–80
Site 951, 157A5:125–126
Site 952, 157A6:156–157
Site 953, 157A7:358–359
Site 954, 157A8:419–420
Site 955, 157A9:459–461
Site 956, 157A10:523, 525
Site 959, 159A5:102–103, 105–108; 9:310
Site 960, 159A6:188–192
Site 961, 159A7:241–243
Site 962, 159A8:281–284
Site 963, 160A4:69–71
Site 964, 160A5:113, 115–117
Site 965, 160A6:136–137
Site 966, 160A7:188–190
Site 967, 160A8:250–252
Site 968, 160A9:313
Site 969, 160A10:367–371
Site 970, 160A11:394–396
Site 971, 160A12:437–439
Site 972, 160A13:459–460
Site 973, 160A14:485–487
Site 974, 161A4:81–82; 161B31:401–411
Site 975, 161A5:142–144
Site 976, 161A6:230, 232–233
Site 977, 161A7:318–319; 161B30:391–400
Site 978, 161A8:374–375, 377–378
Site 979, 161A9:401, 403
Site 982, 162A4:113–115
Site 983, 162A5:156–157
Site 984, 162A6:191–192
Site 985, 162A8:271–274; 162B15:209–216
Site 986, 162A9:306–308
Site 987, 162A10:358–361
Site 994, 164A6:124–128; 164B5:49
Site 995, 164A7:197; 164B5:49
Site 996, 164A8:262–264
Site 997, 164A9:297–298; 164B5:49
Site 998, 165A3:71–73
Site 999, 165A4:163–165
Site 1000, 165A5:254–258
Site 1001, 165A6:315–316
Site 1002, 165A7:369
Site 1003, 166A6:90–91
Site 1004, 166A7:159–160
Site 1005, 166A8:187–188
Site 1006, 166A9:250–251
Site 1007, 166A10:311–312
Site 1010, 167A(1)4:75–76
Site 1011, 167A(1)5:105–107
Site 1012, 167A(1)6:145–146
Site 1013, 167A(1)7:166–168
Site 1014, 167A(1)8:193
Site 1015, 167A(1)9:232–233
Site 1016, 167A(1)10:261–263
Site 1017, 167A(1)11:296–297
Site 1018, 167A(1)12:329, 332–333
Site 1019, 167A(1)13:368–370
Site 1020, 167A(1)14:406, 408–410
Site 1021, 167A(1)15:447, 449–450
Site 1022, 167A(1)16:475–477
Site 1033, 169S_A2:32–39
Site 1035, 169A3:117–123
Site 1036, 169A4:175, 178–183
Site 1037, 169A5:221–225
Site 1038, 169A6:281–288
Site 1049, 171B_A3:73–77
Site 1050, 171B_A4:139–141
Site 1051, 171B_A5:205–206
Site 1052, 171B_A6:283–285
Site 1053, 171B_A7:330–333
Site 1063, 172B1:1–9
Site 1065, 173A4:87–88, 90
Site 1067, 173A6:148, 150–151
Site 1068, 173A7:203–205
Site 1069, 173A8:251–252
Site 1070, 173A9:290
Site 1071, 174A_A3:74, 76–77
Site 1072, 174A_A4:123, 127–128
Site 1073, 174A_A5:172, 175
Site 1075, 175A3:72–76
Site 1076, 175A4:99–103
Site 1077, 175A5:129–132, 134–136

Site 1078, 175A6:161, 163–167
 Site 1079, 175A7:188–190, 192–193
 Site 1080, 175A8:211–216
 Site 1081, 175A9:255–258, 260–261
 Site 1082, 175A10:294–295, 297–299
 Site 1083, 175A11:324–328
 Site 1084, 175A12:367–368, 370–377
 Site 1085, 175A13:408–412
 Site 1086, 175A14:443–447
 Site 1087, 175A15:472–474
 Site 1095, 178A4:20–21
 Site 1096, 178A5:16–18
 Site 1097, 178A6:13–14
 Site 1098, 178A7:12–13
 Site 1099, 178A7:12–13
 Site 1101, 178A8:12–13
 Site 1103, 178A9:15
 Site 1108, 180A5:33–34; 180B16:1–21
 Site 1109, 180A6:59–60; 180B16:1–21
 Site 1114, 180A8:31–32
 Site 1115, 180A9:45
 Site 1116, 180A10:17
 Site 1117, 180A11:10
 Site 1118, 180A12:40
 Site 1119, 181A3:24–25
 Site 1120, 181A4:20–21
 Site 1121, 181A5:22
 Site 1122, 181A6:30–31
 Site 1123, 181A7:40–41
 Site 1124, 181A8:33
 Site 1126, 182A4:29–30
 Site 1127, 182A5:17–18
 Site 1128, 182A6:27
 Site 1129, 182A7:19–20
 Site 1130, 182A8:23
 Site 1131, 182A9:17–18
 Site 1132, 182A10:22–23
 Site 1133, 182A11:13
 Site 1134, 182A12:19
 Site 1135, 183A3:17–18
 Site 1136, 183A4:29
 Site 1137, 183A5:51–52
 Site 1138, 183A6:59
 Site 1139, 183A7:54
 Site 1140, 183A8:27
 Site 1141, 183A9:41
 Site 1143, 184A4:18–20
 Site 1144, 184A5:13–17
 Site 1145, 184A6:11–13
 Site 1146, 184A7:14–17
 Site 1147, 184A8:7
 Site 1148, 184A9:16–21
 Site 1165, 188A3:47–50
 Site 1166, 188A4:31–32
 Site 1167, 188A5:24–25
 Site 1168, 189A3:37–42
 Site 1169, 189A4:19–20
 Site 1170, 189A5:40–45
 Site 1171, 189A6:44–50
 Site 1172, 189A7:40–43
 Site 1173, 190A4:19–22, 65–67, 133, 135

Site 1174, 190A5:24–27, 71–72, 135, 137
 Site 1175, 190A6:18–19, 47, 84–85
 Site 1176, 190A7:15–16, 39–40, 74–75
 Site 1177, 190A8:17–19
 Site 1178, 190A9:19–22
 Site 1207, 198A3:27–32
 Site 1208, 198A4:24–25
 Site 1209, 198A5:25–26
 Site 1210, 198A6:23
 Site 1211, 198A7:22
 Site 1212, 198A8:20
 Site 1213, 198A9:26–29
 Site 1214, 198A10:13–14
 Site 1244, 204A3:19–21
 Site 1245, 204A4:15–18
 Site 1246, 204A5:8–10
 Site 1247, 204A6:12–14
 Site 1248, 204A7:12–14
 Site 1249, 204A8:14–15
 Site 1250, 204A9:12–14
 Site 1251, 204A10:16–18
 Site 1252, 204A11:12–14
 Site 1253, 205A1:21; 4:6, 48–49
 Site 1254, 205A1:32; 5:7, 33–37
 Site 1255, 205A1:34–35; 6:2–3, 18–19
 Site 1257, 207A4:22–24
 Site 1258, 207A5:24–26
 Site 1259, 207A6:28–30
 Site 1260, 207A7:25–26
 Site 1261, 207A8:24–26
 Sites 867–868, 143A8:284
 Sites 875–876, 144A7:276–277
 Sites 885–886, 145A7:313, 315
 Sites 980–981, 162A3:73–74
 Sites 991–993, 164A5:87–88
 Sites 1008–1009, 166A11:360–361
 Sites 1023–1025, 168A4:85–86
 Sites 1026–1027, 168A5:138–140
 Sites 1028–1032, 168A6:177
 Sites 1054–1055, 172A3:49, 51–59
 Sites 1056–1059, 172A4:116–122
 Sites 1060–1062, 172A5:207–217
 Sites 1063–1064, 172A6:271–281
 Sites 1110–1113, 180A7:22
 summary, 152A7:84
 Trujillo Basin, 112A16:544–553, 560; 112B39:593
 Type III kerogen, 119A4:113; 10:386–387, 395;
 11:422–425; 12:466–468; 119B6:113
 van Krevelen plot, 127A4:121; 5:219; 6:288; 7:367;
 127/128B(1)35:629; 128A4:196
 Yaquina Basin, 112A15:458–461
See also hydrocarbons; gases; molecular organic fossils
 geochemistry, sediment, overburden, 206A3:41–46
 geochemistry, whole-rock
 amphibolites and metagabbros, 173B10:1–20
 basalts, 169A3:95–96; 5:216
 gabbros, 153B6:108–110; 18:351–362; 28:491;
 179B(synthesis):11–21
 hydrothermal alteration, 153B21:393–394
 ultramafic rocks, 153B26:457–459

- geochronology
 abyssal plains, 157A1:7
 age, 134B13:296; 155B38:581
 aminostratigraphy, 150X_B26:355–357
 argon isotopes, 149B28:489–495; 163X_A1:14;
 185B13:1–20
 barnacle fragments, 178B27:1–8
 basalts, 134B22:413–414; 136B10:120–123
 basement, 161B21:295–300
 carbonates, 154B12:190; 18:271
 Cenozoic, 135B13:191–192
 Cretaceous, 130B5:64–65
 cyclicity, 154B4:83–99; 5:114
 depths and ages of criteria, 183B7:30
 diabases, 180B2:1–35
 Eocene–Holocene interval, 183B8:14–16
 fission track data, 159B4:35–41
 foraminifers, 184B11:3–4; 195B3:6
 hydrothermal fields, 158A1:8
 igneous basement, 165B15:233–236
 interglacial deposits, 155B20:361–365
 islands, 157A2:14
 lava, 130B1:3–22; 144B32:547–557
 lead isotopes, 144B31:542
 lithology, 174AXS_A7:24–29
 magmatism, 183A1:9, 34; 183B1:3–4
 minerals, 139B47:737–738
 nannofossils, 183B7:7, 30
 Newfoundland margin, 210B4:1–13
 Oligocene, 150X_B15:194–198
 Oligocene–Neogene interval, 144B21:411–417
 osmium isotopes, 159B18:181–186
 paleoceanography, 155A2:17–18
 paleoclimatology, 167B21:249–254
 phytoliths, 155B25:413
 Pleistocene, 157B19:329–341
 Quaternary, 130B22:392, 394–395; 146B(2)1:3–18
 racemization, 155B22:375–378
 radiolarians, 199B3:1–76
 sediments, 154B3:69–82; 164B32:325–327; 178B(syn-
 thesis):9; 7:4–5
 strontium isotopes, 180B12:1–5
 subsurface basalts, 142B5:37–39
 sulfides, 158B9:111–117
 tephra stratigraphy, 183B9:1–53
 thermal history, 159B5:43–48
 tholeiites, 151B19:351–365
 thorium-230/uranium-234 disequilibria, 169B4:1–15
 transform faults, 159A1:10–11
 volcanics, 141B35:421–426; 163B6:53–62; 191B1:5,
 17
 volcanoclastics, 161B12:137–156
 volcanism, 143B17:277–283; 157B11:127–140;
 165B20:299–314
See also absolute age; age; aminostratigraphy; argon-
 argon age; astrochronologic age models; bio-
 chronostratigraphy; carbon-14 age; chronology;
 chronostratigraphy; isochrons; radioactive dat-
 ing; radiometric ages; tephrochronology; times-
 cales; uranium-lead dating
- geochronostratigraphy, Neogene, 182B3:30
- geodesy, Nankai Trough accretionary prism, 190A1:3–4
- geodynamics
 alteration, 147B15:305, 307
 paleomagnetism, 197B1:28
 serpentinization, 153B20:386–387
 transform margins, 159B11:101–110
See also tectonics
- geologic maps
 continental margin, 163A1:6
 Hess Deep, 147A1:8
 Kyrenia Range, 160B54:747
- geological high-sensitivity magnetic tool
 magnetic induction, 165A3:94–95; 5:273–274; 6:340–
 341
 magnetic polarity, 178B31:1–23
- Geological Long Range Inclined ASDIC. *See* GLORIA
 side-scan sonar
- geology
 Alboran Sea, 161A1:5–19
 Cascadia subduction zone, 204B1:3–5
 continental margin, 159A1:5–16
 Costa Rica margin, 170A1:7–17
 Cote d'Ivoire-Ghana transform margin, 159B10:94
 history, 194A1:4–7; 198A1:76–77
 hydrothermal fields, 158A2:16–18
 intersection massif, 153B4:64–69
 ION seismic observatory, 195A1:14–16
 islands, 157A2:14–15
 maps, 188A1:33–34
 Mid-Atlantic Ridge, 209A1:78–79
 New Jersey coastal plain, 174AXS_A(summary):1–38
 Norwegian-Greenland Sea, 151A13:402–408
 Oahu, 200A1:3–4
 Pacific Ocean SW, 181A1:3–4
 physiography, 180B(synthesis):29
 rift systems, 163X_A1:1–19; 210A1:4–6; 210B1:1–55
 sediments, 178B(synthesis):3–5
 Site 920, 153B1:9–10
 Site 963, 160A4:56–58
 Site 964, 160A5:87–88
 Site 965, 160A6:126–127
 Site 966, 160A7:157
 Site 967, 160A8:217–218
 Site 968, 160A9:290–291
 Site 969, 160A10:336–337
 Site 970, 160A11:378–379
 Site 971, 160A12:416–417
 Site 972, 160A13:451
 Site 973, 160A14:466–467
 Site 1035, 169A3:37–38
 Site 1036, 169A4:155–157
 Site 1037, 169A5:206
 Site 1038, 169A6:255–259
 summary, 195A1:3–4; 204A1:4–6
 tectonics, 179B(synthesis):4–7; 191A4:2–3
 Trans-Atlantic Geotraverse, 158A1:6–8
 upwelling, 175A17:506–507
 West Philippine Basin, 195B2:1–27
- geology, seafloor, basins, 193A1:37
- geomagnetic events, record, 155B12:231–243

- geomagnetic excursions
 magnetism, 158B25:349
 record, 155B12:231–243
 sediments, 202B2:6–7, 13, 16, 18–19
 time-depth plots, 202B2:21
See also magnetic excursions
- geomagnetic field
 Atlantis Bank, 118A6:198, 200, 210
 equatorial area, 138B38:779–795
 excursions, 202A4:11–12; 5:40
 Holocene–late Pleistocene behavior, 202A1:13–14
 horizontal and vertical components, 143A6:168;
 7:244; 9:357
 paleointensity, 127/128B(2)61:962–963; 62:977;
 177A1:11
 Pleistocene, 145B31:469–474
 vector orientation, 197B5:14
 vs. age, 177B(synthesis):38
 vs. depth, 177B(synthesis):37
See also geomagnetic paleointensity; paleointensity
- geomagnetic paleointensity, age vs. depth, 202A4:52
- geomagnetic polarity timescale
 Argo Abyssal Plain-Exmouth Plateau, 123B36:660,
 667
 Cenozoic, 151A13:416–417
 chron boundaries, 162A8:270
 comparison with biostratigraphy, 151A10:331–332;
 11:366
 correlation, 150A8:227–228; 151A5:76–77; 6:127–
 129; 7:179–181; 9:284–285; 166A8:185; 10:309;
 197A3:31–32; 4:25
 Mid Atlantic Ridge SW, 114B20:364
 Pacific Ocean NW, 144B21:412–413
 sand, 150B8:137
 sediments, 190A4:14; 202A7:16; 8:21–22
 volcanic ash, 165A8:385
 vs. depth, 133A(1)17:782
 vs. magnetostratigraphy, 194A6:46
See also magnetic polarity; magnetostratigraphy; pa-
 leomagnetism
- geomagnetic polarity transition
 behavioral models, 121B17:377
 directional variation, 121B17:382–383, 386, 391
 Jaramillo Subchronozone, 121B17:377
 looping behavior, 121B17:385
 Site 758, 121B17:388
See also magnetic polarity
- geomagnetic poles, virtual
 Brunhes Chron, 172B(overview):6; 10:4–5
 magnetic excursions, 172B11:3
 paths, 167B28:314–318
 reversals, 136B3:48–49
 transitional, 135B46:745–748
- geomagnetic reversals
 vs. depth, 178A4:156; 5:125; 8:74
See also magnetic reversals
- geomagnetism
 Late Cretaceous–Paleogene interval, 197B1:9–11
 secular variations, 165B9:151, 158
 time series, 181B1:103
- geomechanical constraints, fluid flow, 170B3:1–32
- geomicrobiology
 Cote d’Ivoire-Ghana transform margin, 159A5:72–74
 deep-marine sediments, 164B36:379–391
 Site 994, 164A6:135–136
 Site 995, 164A7:204–207
 Site 997, 164A9:305–307
 tectonics, 160A1:5–6
See also bacteria
- geomorphology
 guyots, 144B33:561–583
 Neogene, 150B14:269–281
 Quaternary, 134A3:33; 155A3:23–45
 sedimentation rates, 150B12:236–237
 serpentinite outcrops, 153B1:7–13
 tectonic windows, 153B4:63–64
- geopetal texture. *See* textures, geopetal
- geopetal structures
 lava flows, 183A6:52–53
 lithology, 166A11:354; 194A7:13
 petrology, 168A4:65
 photograph, 152A9:132; 166B4:355; 173A8:238;
 194A7:68
 photomicrograph, 194A4:41; 8:30
 vesicles, 183A5:40, 45
 vs. depth, 152A9:134
- geophysical anomalies, isochrons, 206A4:9
- geophysical combination logging, 148A1:22; 2:75–76
- geophysical data, marine, 210A5:1–36
- geophysical experiments. *See* downhole seismic experi-
 ment; electrical resistivity experiment
- geophysical logs
 Jurassic–Lower Cretaceous interval, 129B30:543–545
 lithology, 125A10:215–217, 222
 operations, 125A10:213–215
 quad tool string logs, 135A(1)5:239
 siliceous rocks, 198B17:8–9
 Site 780, 125A8:169–174
 Site 782, 125A10:233–240
 Site 786, 125A14:334–335; 125B35:588
 Site 801, 129B36:673
 summary, 125A10:244–252
- Geophysical Ocean Bottom Observatory, 179A1:1–26
- geophysical surveys
 calibration, 204A1:10
 crust, 207A3:1–8; 210A1:6–7
 Hawaiian arch, 136A3:27–34
 lava, 142B1:7
 Mid-Pacific Mountains, 143A3–4:31–74
 New Hebrides island arc, 134A5:55–63
 Ontong Java Plateau, 130A4:77–97
 processed data, 133B58:819–851
 sedimented rift, 139B44:695–717
 shipboard data, 131A3:21–23
 Site 747, 120A6:147
 Site 748, 120A7:160–163, 227
 Site 749, 120A8:238–241, 272–273
 Site 750, 120A8:281
 Transect EG64, 163X_A7:2
 Transect EG65, 163X_A6:3–4
 Transect EG66, 163X_A5:2
 Transect EG68, 163X_A4:2–4

- Woodlark Basin, 180A2:1–20
West Philippine Basin, 195B2:1–27
See also underway geophysics
geophysical well logs. *See* geophysical logs
GEOSCOPE, experiments, 179A5:17
geostandards, precision and accuracy, 142B8:63
geostatistical models
 pore water, 150X_B24:324, 333–335
 vs. depth, 150X_B24:333–335
geostrophic currents
 Baffin Bay, 105B45:849
 productivity, 175A1:11
geostrophic velocity, satellite data, 203A1:21
geosynclines, Japan Sea, 128A1:11
geotechnical properties
 clay, 190/196B6:12–13
 sedimentary rocks, 149B18:343–350
 sediments, 135B48:787–795; 49:797–804;
 139B40:627–647; 145B35:525–556;
 146B(1)15:257–280; 150B21:377–384;
 151A8:251, 255; 164B40:421–429
 See also index properties; physical properties
geotechnical stratigraphy
 sediments, 162A3:84–85; 4:116–121; 5:159–160;
 7:249–252; 9:312–317, 325; 10:363–365
 Site 748, 120A7:213
 Site 751, 120B(1)13:179
geotechnical units
 correlation with lithology, 162A6:198–199
 correlation with seismic units, 162A4:127–129
 physical properties, 162A7:250; 9:321; 10:375
 sediments, 151A6:139; 7:200; 8:249–251; 9:295, 297;
 10:338; 162A3:84–85; 4:116–121; 5:159–160;
 6:197–199; 7:249–252; 8:276–279
 seismic stratigraphy, 162A8:285; 9:332; 10:380
 Site 871, 144A3:75, 77
 Site 872, 144A4:135–137
 Site 873, 144A5:187–188
 Site 910, 151A8:256
 split-core measurements, 151A5:91–92
 statistical properties, 151A7:204
 vs. depth, 162A3:82–83; 4:120–121; 5:164; 6:198–199;
 7:250–251; 8:282; 9:322; 10:376
 vs. seismic stratigraphy, 162A3:88; 4:128; 5:166;
 6:198–199, 207
 See also physical properties
geothermal activity, zeolite assemblages, 120B(1)4:68
geothermal gradient
 alteration, 186B9:7
 Amazon Basin, 155A2:21
 basalts, 168A4:95–96
 basement, 168A4:99; 5:158; 6:198
 bitumens, 139A6:198–200
 bottom-hole temperature, 166B10:117–119
 bottom-simulating reflectors, 141B19:254–257
 clasts, 195A3:44
 clay mineralogy, 156B1:7
 crustal thinning, 180B(synthesis):18–19
 diagenetic minerals, 121B27:522
 ethane, 204B15:38
 extrapolation of near-surface gradients, 139A2:23, 27,
 31
 fluid flow, 133B48:707, 711
 free gases, 164B26:261
 gas hydrates, 146B(1)19:302–306; 189A3:42–43
 heat flow, 164A6:146; 7:219–220
 hydrocarbons, 180B18:5–6; 184A1:32
 hydrothermal alteration, 139B12:298–302
 hydrothermal fields, 193A1:7
 Indus Fan, 117A7:151
 isotopes, 127/128B(1)3:56
 Japan Sea, 127A1:26–27; 127/128B(2)81:1301–1303;
 87:1375
 microbial activity, 190A1:35–36
 middle trench slope, 141A8:292
 mineralogy, 162B17:243–244
 nannofossils, 139B5:65–69
 North Aoba Basin, 134B8:115–116
 ocean basins, 146A(1)1:6–7
 Oman margin, 117A7:151
 opal-A/opal-CT transition, 127A6:268
 organic matter, 139A5:124–125; 141B9:119–296;
 160B26:318–319
 Owen Ridge, 117A7:151
 Paleogene, 208A1:9–10
 Peru margin, 112A2:42–43; 112B32:519
 potassium, 205A5:32–33
 proto-décollement zone, 171A_A3:35
 Salaverry Basin, 112A13:327
 sediment thickness, 119B18:353
 sediments, 127/128B(1)3:56; 146B(1)26:394;
 151A6:138; 7:195; 8:247; 10:337; 156A6:166–
 167; 7:245–246; 164A9:312–313; 166A6:104–
 105; 7:166; 8:201–202; 9:260; 10:324; 11:368;
 168A5:144; 172A6:288; 175A6:170; 9:261;
 12:378; 13:414; 15:475; 184A6:17; 7:22; 9:26;
 188A3:188; 5:31, 95; 189A6:55–56; 7:47;
 190A8:18–19; 195A3:170; 198A5:32
 silica formation, 127/128B(1)3:52–54
 Site 504, 137A2:44–47; 140A2:114–116
 Site 737, 119B18:357
 Site 796, 127A6:247, 251, 297, 299
 Site 797, 127A7:390
 Site 798, 128A4:125; 5:183–184, 213–214
 Site 799, 128A5:338–339, 365
 Site 808, 131A6:248
 Site 823, 133A(1)16:717
 Site 858, 139A7:539
 Sites 794–797, 127/128B(1)3:51
 summary, 204B1:39; 9:7–10, 26
 temperature, 131B32:401; 135A(1)1:41; 180A1:24–25,
 68
 tests, 156B19:249
 thermal diagenesis, 159B7:62–66
 thermophilic bacteria, 139B29:511–515
 thickness of opal-CT zone, 127/128B(1)3:49
 upwelling, 175A1:15
 veins, 159B8:77
 vs. chloride, 162A9:319
 vs. D-alloisoleucine/L-isoleucine, 155B22:377–378

- vs. depth, 133A(1)13:533; 134B8:120; 135A(1)1:44; 7:335; 8:381; 9:461; 137/140B26:308; 27:314–316; 28:322; 139B43:683; 140A2:139–141, 144; 141B20:270–271, 274; 148B20:292–294; 151A6:138; 7:198; 8:249; 9:297; 10:339; 160A6:148; 7:206; 9:321–322; 162A10:377; 164A6:149, 152; 7:216; 169A4:195–196; 5:232–233; 6:295; 169B10:23; 175A4:105; 5:138; 180B10:17; 189A6:114; 206A3:49–50
- water sampler temperature probe (WSTP) tool, 131A6:205; 133A(1)15:645; 18:822
- Yaquina Basin, 112B32:519
- See also* heat flow; temperature
- geothermal gradient, planetary, Pleistocene, 130A10:533
- geothermal regime, bottom-hole temperature, 166B10:113–120
- geothermometry
- carbonates, 139B14:315–322
 - chlorite, 152B10:138
 - fluid inclusions, 139B21:411–428; 148B7:89–94; 168B11:142, 145
 - gneisses, 161B19:274
 - intrusions, 180B3:8–11
 - magmas, 200B3:9
 - metamorphic rocks, 161B20:288–293; 21:296, 299
 - metamorphism, 152B34:422–423
 - oxygen isotopes, 153B26:467–468
 - schists, 161B19:273–274
 - secondary minerals, 148B6:77
 - shear zones, 153B7:130–132
 - sheeted dike complexes, 137/140B15:167–189
 - ultramafic rocks, 149B21:386, 389
 - veins, 176B9:17–19, 37
- See also* microthermometry
- geotherms, dynamic rifting models, 149B40:644–645
- gephyrocapsids
- Bahamas, 101B3:74, 76
 - biohorizons, 167B1:6–8
 - composition vs. depth, 144B1:5, 10–12
 - gateways, 189B1:19
 - Indian Ocean W equatorial, 115B15:214
 - intermittent occurrence, 164B33:333, 336
 - Pacific Ocean E, 138B12:278
 - vs. age, 167B27:307
- gephyrocapsids/total nannoflora ratio
- vs. age, 144B42:696, 698, 700, 712
 - vs. depth, 144B1:5, 10–12
- geriatric core investigation, systems, 124E_A12:69–71
- germanium
- jasperoids, 193B9:6
 - mineral separates, 158B27:370–373
 - vs. depth, 139B17:359–367
- ghost structures
- nodular chert, 133B56:793
 - planktonic foraminifers, 130B5:73
- ghost veins. *See* veins, ghost
- gibbsite
- deltaic sediments, 152B9:119
 - Eocene–Oligocene interval, 152B9:125
 - Kerguelen Plateau Central, 120B(1)8:103–104
 - lithology, 183A6:8–9
- Owen Ridge, 117B8:187
 - paleosols, 144B19:383, 392
 - photograph, 152B9:128
 - sediments, 150X_B4:50; 159B43:590
 - volcaniclastics, 152B9:122–124
 - vs. depth, 159B43:590, 593
 - X-ray diffraction data, 159A8:264; 188A4:16
- Gilbert/C3A boundary
- magnetostratigraphy, 173B11:13
 - sedimentation rates, 162A7:241
 - sediments, 149B16:325
- Gilbert Chron
- biostratigraphy, 135B54:874–877; 177A5:15
 - carbonate platforms, 166A3:31–32
 - chron boundaries, 162A8:270
 - correlation, 132B2:29; 3:43; 4:51–55; 145B34:497
 - deep water, 177B(synthesis):10
 - lithology, 181A1:30
 - magnetic polarity, 131A6:156; 133A(1)9:313; 135A(1)5:209; 10:531–533; 11:615–619; 181A7:28; 9:17
 - magnetostratigraphy, 104A4:166; 134B26:469–471; 135B54:857, 860–861; 138B38:788; 145B1:9–13; 37:560–561; 162A7:240; 9:306; 10:358; 162B9:135; 167A(1)4:71; 173B11:12–13; 175A12:364; 177A8:15; 181A8:25–27; 191A1:16–17; 194A4:18–19
 - Oman margin S, 117A16:507; 117B7:175
 - Owen Ridge, 117B7:165
 - remanent magnetization, 160A7:179
 - sedimentation rates, 162A8:270
 - sediments, 190A4:15; 5:19; 8:13; 9:15; 198A4:22; 5:23; 6:20; 7:19; 202A8:21
 - Site 699, 114A5:101
 - Site 701, 114A8:395
 - Site 704, 114A11:622, 637, 687; 12:802; 114B21:382; 26:479
 - Site 737, 119B43:754
 - Site 745, 119B46:818
 - Site 746, 119A15:544
 - Site 782, 125B32:549
 - Site 796, 127A6:275
 - Site 798, 128A4:30
 - Site 799, 127/128B(2)62:975; 77:1224; 128A5:303, 314, 316
 - Site 832, 134A12:423
 - Site 834, 135A(1)4:118
 - Site 846, 138B15:344–345, 348
 - Site 848, 138A(2)13:695
 - Site 850, 138A(2)15:840–842
 - Site 851, 138A(2)16:912–916, 924–925, 927
 - Site 852, 138A(2)17:993; 138B6:84
 - Site 853, 138A(2)18:1041
 - Site 854, 138A(2)19:1080
 - Site 881, 145A3:51
 - timescales, 138B6:87
- See also* Anomaly 5/Gilbert boundary; pre-Gilbert Chron
- Gilbert Chron/Chron 5 boundary, paleomagnetism, 104A26:485

- Gilbert/Gauss boundary
 biohorizons, 167B1:15–18
 correlation, 145B34:494, 498
 disconformities, 180A1:8
 gamma ray attenuation density, 138A(1)6:88
 magnetic properties, 104A5:485; 133A(1)8:264;
 160A8:234; 10:356–357; 180A6:52; 12:35
 magnetostratigraphy, 132B3:43; 134B26:468–471;
 138B38:794–795; 145B21:323; 149A4:73;
 162A10:358; 175A10:292; 180A1:4; 9:37
 Oman margin S, 117B5:131
 Pacific Ocean E, 138B3:40
 sediments, 149B16:315; 164A7:190
 Site 703, 114B21:382
 Site 704, 114B11:223
 Site 848, 138A(2)13:695
 Site 859, 141A6:93
 Site 881, 145A3:51
 Sites 885–886, 145A7:311
Gilbert/Matuyama boundary, Site 704, 114B30:582–583
Gilsa Subchron
 magnetic excursions, 172A6:266
 Site 745, 119B43:753
 Site 737, 119B43:757
glacial debris
 isotopes, 152B25:294–296
 Lambert Glacier-Amery Ice Shelf system, 119B5:71, 73
 oxygen isotope enrichment zone, 119B38:712
 sources, 119B5:73–74
 transport paths, 119B5:71; 6:115
glacial environment
 foraminifers, 188B16:5
 Pliocene/Pleistocene interval, 188B13:8
 seismic units, 188B8:6–10
 See also fluvio-glacial environment
glacial erosion
 argon isotopes, 178B22:9
 sediments, 178A2:11–13
glacial fan deposits, age models, 162B10:149–166
glacial half-cycles, deposition, 178A1:33; 2:31
glacial history, continental margin, 178B(synthesis):1–40
glacial ice, grounded, climate reversals, 178B34:5
glacial-interglacial cycles
 Africa, 117B19:339
 Antarctic region, 114B12:234; 31:595
 Arabian Sea, 117B6:155
 aragonite cycles, 115A1:13
 Arctic model, 105B33:617
 Atlantic Ocean E tropical, 108B9:147
 average terrigenous component, 167B18:232–233
 Baffin Bay, 105B3:45, 47, 49; 30:568
 biogenic silica, 127/128B(1)33:591
 biostratigraphy, 121B4:130; 133B14:185–186;
 146B(2)21:281–284, 289–292; 162B2:29; 6:92–93;
 175B(synthesis):16–17, 22–23; 7:1–26; 12:3–8;
 19:4–9; 21:5–8; 177A4:11; 5:13; 9:10;
 188B13:11; 16:5
 calcite precipitation, 149B33:555
 carbon isotopes, 117B24:436
 carbonates, 108A5:336, 343; 127/128B(1)33:590;
 138B14:332–333; 165B17:266; 166B6:69–75;
 182B13:8–9
 chronology, 16710:155–156; 11:163–182
 circulation, 154B17:262–266; 18:278–282; 21:323–326;
 22:341–345; 27:397, 400–401, 404
 clay mineralogy, 155B9:179–184; 178B8:10–12
 cyclic sedimentation, 162A3:74; 162B1:15
 deposition, 116B16:204; 32:409; 160A5:102;
 178A1:32; 2:30; 188A4:16–17
 downslope transport, 119B12:230–232
 geochemistry, 167B23:263–271
 grain size, 127/128B(1)33:589
 ice-rafted debris, 178B10:6–8
 Indian Ocean W equatorial, 115B25:475, 478–479
 indicators, 132B3:37, 44
 Indus Fan, 117A8:170–171, 190
 isotopes, 127/128B(1)26:442
 Japan Sea circulation, 127/128B(1)27:457–458; 34:608
 Kerguelen sediment ridge, 119A15:551; 119B12:226–232,
 13:240–244
 lake levels, 117B19:339
 Lake Mundafan, 117B19:339
 laminites, 146B(2)6:81–82
 late Pliocene, 175B(synthesis):80
 lithofacies, 104B6:195–196
 lithology, 164A6:111; 7:184; 177A4:8; 7:5; 8:9; 9:7;
 178A1:6–7; 5:11–12; 181A1:17–18; 3:9–11; 4:6–7;
 7:6–10; 9:5–6, 8–9; 181B1:23, 36; 198A8:10–12;
 208A3:5–6
 magnetic properties, 115B41:743, 760; 130A11:544;
 165B8:144
 marine isotope stages, 177B(synthesis):12
 mass accumulation rates, 121B15:307, 311;
 159B41:571–572
 Mediterranean Sea, 107A9:604
 Meteor Rise, 114B11:224, 227
 millennial cycles, 167B25:277–296; 32:355–358
 Miocene/Pliocene boundary, 138B15:348–349;
 151B31:523–524
 Neogene, 145B17:257–264; 159A9:310; 164B34:358–362;
 198B1:16
 North Atlantic model, 105B33:617
 Northeast Georgia Rise, 114B13:292
 Norwegian Sea, 119A14:514
 oceanographic front oscillations, 127/128B(1)10:167–168
 Oman margin, 117B30:504
 opal flux, 127/128B(1)26:446
 organic carbon, 127/128B(1)33:589
 organic matter, 167B24:275–276; 175B(synthesis):78;
 6:7–8; 201B4:9–11
 oxygen isotopes, 101B16:230–233; 107B1:16;
 146B(2)1:9–15; 151B25:440–442; 154B1:203–205;
 16:241, 243; 161B37:473, 475–477;
 38:485–487; 174A_B(synopsis):7–8, 10–11
 oxygenation, 127/128B(1)33:590–591
 Pacific Ocean carbonates, 115B29:540
 paleoceanography, 104B6:201, 206–207, 212
 paleoclimatology, 145B3:49–50; 146B(2)23:314–320
 paleoenvironment, 104B6:200–203, 211; 9:267–268

- palynomorphs, 155B24:397–409
- pebbles, 178B11:6
- physical properties, 119A8:326
- Pleistocene, 105B35:691, 694; 133B12:169–170;
138B13:300, 305–308
- Pliocene, 138B15:349–352; 175B22:3–5
- Pliocene–Pleistocene palynomorphs, 181B1:22
- pollen indicators, 133B9:109–112; 146B(2)20:275
- pre-Quaternary productivity, 175B(synthesis):25–27
- productivity, 119B12:230; 175B(synthesis):23–25, 42–43
- prograding sequences, 119B1:19
- Prydz Bay, 119B6:118, 122
- Quaternary, 133B22:309–311; 138B17:379–385;
33:685–686; 146B(2)17:238–241; 18:253;
19:257–264; 151B26:449, 451–452; 28:477–482;
161B36:465; 181B1:58
- salinity, 127/128B(1)33:591
- sapropels, 160A2:21, 23–24; 161B31:409–410
- sedimentation, 101B15:215; 113B9:128; 117B6:155–156; 121A12:363; 146A(2)2:34–35, 39;
150A7:161; 8:229–230; 177A1:25–26
- sediments, 117B6:157; 19:338; 127/128B(1)33:588–590; 165B4:96; 16:243–245; 177A1:21;
181B1:54–55
- seismic units, 188B8:3–10
- Site 693, 113B9:127
- Site 701, 114A8:411, 413
- Site 703, 114A10:559
- Site 704, 114A11:622, 637, 687; 114B9:197, 199;
10:207; 23:409, 413, 415–416, 419–420; 24:437;
25:465, 467–468, 470; 26:475, 478; 28:527–531;
30:583; 33:630
- Site 721, 117A9:237
- Site 722, 117B9:202, 204, 208; 12:243–245; 20:346,
348, 353; 23:414–415
- Site 723, 117B19:324, 337, 338
- Site 724, 117B17:293, 295, 299–301
- Site 728, 117B12:244–245
- Site 758, 121A11:400–402, 420–421
- Site 847, 138B34:708–709
- stable isotope stratigraphy, 121B15:304; 22:452;
138B22:510–513; 43:843–844; 154B14:210–211;
178B20:3–4
- sulfur, 127/128B(1)33:589–590
- temperature, 166B2:20
- terrigenous flux, 127/128B(1)26:446
- trough mouth fan, 188A1:30; 3:20
- turbidite frequency, 101B14:203; 15:218
- upper Quaternary, 169A3:38–39
- upwelling, 117B19:339–340
- vegetation, 155B25:414–415; 167B32:361–362
- well-logging, 177A8:20–22
- glacial-interglacial facies, climate signals, 178A8:8
- glacial isotope stages
 - cyclic processes, 178B25:7
 - laminations, 146B(2)3:42
 - vs. age, 175B23:32, 35–36, 39–41
 - See also* marine oxygen isotope events; oxygen isotope stages
- glacial loading, geotechnical surveys, 151A8:251, 255
- glacial maximum
 - age calibration, 146B(2)2:23–26
 - climate cycles, 146B(2)3:32
 - deposition, 166B2:18–21
 - paleoclimatology, 146B(2)23:320
 - Pleistocene, 146B(2)19:259–263
 - Quaternary, 146B(2)11:158–159
 - sea level changes, 146B(2)12:179–180
 - sedimentation, 146B(2)9:133
 - sediments, 146B(2)7:89–90
- glacial meltwater, lithology, 178A5:9, 11–12
- glacial positive oxygen isotopic events
 - foraminifers, 155B17:316
 - See also* glacial isotope stages; marine oxygen isotope events; oxygen isotope events; oxygen isotope stages; oxygen isotopes
- glacial sequences, 178A1:12, 18–19, 2:11–13, 21, 40;
178B(synthesis):5–9, 21
- glacial signals, drift deposits, 178B10:1–22
- glacial stratigraphy
 - cycles, 146B(2)9:131–135
 - seismic units, 119B6:92–101
- glacial striations, seabed morphology, 163X_A8:4
- glaciated shelves, continental margins, 151A1:9–11
- glaciation
 - advances and retreats, 119B6:118; 48:875
 - age, 178A1:4
 - alkenone stratigraphy, 184B17:1–17
 - alpine glaciation, 120B(2)56:1010, 1023
 - Antarctic-Australian continent, 123B15:316
 - Antarctica, 114B32:606; 120B(1)12:161–164; 14:207–208; 138B15:349–352
 - Atlantic Ocean N, 105B35:689
 - Australian continent, 123B39:754
 - biogenic opal supply, 127/128B(1)23:404; 181B1:29
 - biogeochemical effects, 119B19:388
 - biostratigraphy, 120B(2)29:532; 138B13:308;
151B10:188–192; 35:641–642; 167B6:119–120;
181A3:15–18; 184B11:4–5
 - bottom water paleoredox conditions, 124B29:390–391
 - bulk mineralogy, 162B17:239–242, 244
 - Cagayan Ridge, 124A12:301, 315
 - calcium carbonate, 124B29:383; 145B20:297–300
 - carbon isotopes vs. oxygen isotopes, 165B18:281
 - carbonate compensation depth, 157B30:525–529
 - carbonates, 151B32:577; 166B6:66–67
 - Celebes Sea, 124A13:350, 352
 - Cenozoic, 141A6:124; 151A13:411; 189A1:58–59;
208A1:56
 - chloride, 175A3:74; 20:552–553
 - chronology, 167B7:134
 - chronostratigraphy, 188B14:10–11
 - circulation, 161A1:13
 - clay mineralogy, 152B4:44–48; 155B9:189–191;
162B17:257; 178B8:14–15; 184B12:5–7
 - continental shelf, 119B6:79–80, 116–118; 178A9:9
 - Cretaceous sea level, 119B10:200
 - cycles, 121B39:823; 130B30:513–516; 35:593–594;
159B43:589–591; 167B32:354–355; 172B5:6;
202A1:33–37

- deep-sea record, 119B6:78; 185B7:8
 Deep Western Boundary Current, 172B(overview):3
 deposition, 119A8:340; 141B31:391–393;
 149B12:289; 162B17:245; 168B2:52; 172A1:8;
 178A4:10–11; 6:7–8; 188A5:13
 drift deposits, 178B(synthesis):9–14
 Eocene, 119B48:882–883; 120B(2)56:1023
 Eocene/Oligocene boundary, 177B(synthesis):6;
 199B1:12
 erosion and gravel transport, 119A5:131
 gateway history, 189B1:9, 34–35
 geology, 195A1:23–27
 global cycles, 161A1:14–15
 history, 178A2:1–44; 178B(synthesis):18–24
 Holocene readvance, 119B42:749
 ice advances, 119B6:122; 188B14:1–32
 ice expansion events, 119B6:78, 99
 ice-rafted debris, 119B13:202; 145B11:183–185;
 151A1:19–20
 initiation, 121B15:312–313; 145B21:315–329;
 151B36:656–657
 interglacial periods, 127/128B(1)23:403–404
 isotopic stratigraphy, 160B13:178–179
 Japan Sea, 127/128B(1)19:338; 20:342–343; 24:419–
 421
 Kerguelen-Heard Plateau S, 119B10:201–202; 13:248–
 249
 Kerguelen sediment ridge, 119B13:247–249
 lithology, 146A(2)2:32; 151A6:122; 7:171; 8:227–230;
 9:275–277; 152B3:34–36; 157A5:113–114;
 162A9:298, 302; 165A7:368; 165B4:87–89, 92–
 98; 16:243–245; 172A3:39–40; 181A1:13;
 188A4:11; 5:9–11
 loess deposition, 127/128B(1)23:403
 magnetic excursions, 172B11:4
 marine environment, 119A11:397; 161B36:460
 marine isotope Stage 5/4, 167B11:163–182
 mass accumulation rates, 159B43:600–601
 Messinian, 138B15:348
 middle Eocene–lower Oligocene interval, 208A1:8
 Miocene–Pliocene interval, 119B13:248–249
 monsoon systems, 124B29:385
 Neogene, 119B48:885–889; 151B27:461–465;
 162B12:179–190; 178B25:1–25
 Neoglacial, 178B34:7
 Northern Hemisphere, 138B25:575–578; 29:635;
 35:751; 145B38:594; 175B18:1–24
 ocean circulation, 120B(2)46:876; 151B17:310–311;
 28:477–482; 175A1:9–11, 21; 3:51
 oceanography, 154A1:6, 8; 154B12:196; 18:278–282;
 20:311–315
 Oligocene, 119B48:883–885
 Oligocene–Miocene, 119B14:268; 150B24:425–428
 onset, 119A8:290; 119B1:22; 6:120; 152A13:283, 286–
 287; 152B11:154, 156; 162B12:183–185;
 188A1:4
 opal, 127/128B(1)20:350; 23:404; 167A(1)4:78
 organic matter, 113B50:881; 201B4:7–11
 oxygen isotopes, 127/128B(1)23:403; 152B25:301;
 174A_B(synopsis):7–8; 175B11:6; 184B4:1–8
 Pacific Ocean, 127/128B(1)29:528
 paleoceanography, 130B29:500; 145A4:101–102;
 184A1:9
 paleoclimatology, 138B1:16–17, 19; 167B21:253;
 172A7:314, 317–318; 177B(synthesis):23;
 184B19:7–8; 202A1:32–33
 paleoenvironment, 188B1:20–22
 Paleogene, 119B48:885; 120B(2)56:1002, 1111
 paleoproductivity, 127/128B(1)25:430; 138B14:334–
 335
 pebbles, 178B11:3–6
 Pleistocene, 141A6:85–86; 162A3:87–88
 Pliocene, 119B6:119; 120B(1)14:216; 130B20:355–
 356; 151B3:54–55; 162A1:15
 Pliocene–Pleistocene, 151B30:498–503; 185B2:3
 pore water, 175A15:473
 Prydz Bay, 119B6:79–80; 9:180
 Quaternary, 130B24:415; 151B26:449, 451–452;
 154B13:201–206; 15:235; 155A1:12–13;
 161B36:464–466; 166B2:13–22
 reef mounds, 182A2:4; 182B1:9–10
 salt, 181B1:38
 sand and carbonate cycles, 159B41:569–570
 sea ice, 113B45:808; 178B25:9
 sea level changes, 119A6:216; 164A1:6
 sea surface temperature, 167B32:359–360
 sediment flux, 145A3:52; 145B34:502–503
 sedimentation, 141B10:141; 145A3:61–62; 6:274;
 151A5:67–69; 151B12:232–327; 152B3:29–30,
 36–38; 154A8:390, 395; 155B16:303; 23:384–
 388; 160B43:563–564; 165A8:385;
 167A(1)9:234–235; 175B9:5; 23:11–13;
 178A2:4–5, 39
 sediments, 151A9:288, 291; 151B21:385–386;
 172A4:121; 6:288; 188A1:2–3
 shelf, 152A10:174
 signals in shallow interstitial waters, 204B13:4–5
 Site 704, 114A11:687; 114B24:437; 26:479–480
 Site 751, 120A10:370
 Site 796, 127A6:274
 Site 797, 127A7:356
 Site 798, 128A4:164
 Site 799, 128A5:312
 stable isotopes, 152B18:247–248
 stratigraphy, 184B2:6–14
 Subtropical Front, 181B1:37–38
 Sulu Sea, 124A8:111
 Termination II, 177B(synthesis):11
 terrestrial record, 119A1:10
 terrigenous component, 167B18:229, 233
 transitions, 188B1:1–42
 transport, 151B25:438–442
 Tsugaru Strait sill depth, 127/128B(1)20:351
 turbidites, 149B45:701
 upper Eocene, 189B1:12
 upwelling, 127A6:271, 274; 175B23:17–18
 vegetation, 127/128B(1)18:320
 volcanism relationship, 145B38:592
 water masses, 181B1:21
See also datum plane A; deglaciation; Heinrich events;
 ice sheets; interstadials; Kolbe epoch; last gla-
 cial–interglacial transition; Last Glacial Maxi-

- mum; late glacial; Miocene glacial event Mi-1; Oligocene glacial event Oi-1; Pliocene intensification of Northern Hemisphere glaciation; stadials; termination events; tidewater glaciers
- glaciation, continental
ice-rafted debris, 178B25:9–12
Oligocene oxygen isotope record, 119B10:201
vs. mountain, 119B10:201
- glaciers, glaciology, 188A1:6–7
- glaciers, tidewater, ground-line positions, 119A17:339
- glaciers, unroofing, sedimentation, 188B2:11
- glacioeustasy
Antarctic Circumpolar Current, 182B4:10
clay, 150B9:158; 190/196B4:10
Eocene/Oligocene boundary, 199B1:14
hiatuses, 150B6:111–112
Holocene, 133B22:308–310
lower–middle Eocene interval, 189B1:10
mass accumulation rates, 159B43:599
Miocene, 150X_B11:142–144; 14:181–183
Oligocene, 150X_B15:203–205; 183B7:8
Oligocene–Holocene interval, 174AXS_A(summary):3–5
Oligocene–Miocene interval, 150B24:425–428
seismic stratigraphy, 166A1:6–8
sequences, 150X_B1:3–4
uplifts, 160B54:733
See also eustasy; eustatism; isostasy; regressions; sea level changes; transgressions
- glaciofluvial environment, lithology, 152B3:34–36
- glaciology, drainage systems, 188A1:6–7
- glaciomarine environment
biostratigraphy, 178B13:1–22
deposition, 152A13:286–287; 178A6:7–8; 9:9;
188A4:16–17; 188B4:9–10
geology, 188A1:8; 188B1:6
lithology, 151A9:275–277; 152A10:167–168;
163A3:26; 4:35; 169S_A2:24–25
sediments, 169S_B1:40
seismic units, 178A9:25; 188B8:7–10
- glaciotectonics, seismic units, 188B8:7
- glauconites, goethitic, photograph, 144B19:397
- glass inclusions. *See* inclusions, glass
- glass shards
age, 165A5:263–264
alteration, 127A4:95; 129B5:142, 145; 187A15:9;
192A3:31; 4:17–18; 192B6:5; 200A3:22–25
ash fall layers, 157B18:318, 320
backscatter electron imagery, 201B19:23
basalts, 192A4:13–15
basement units, 183A7:26–27
blue tuff, 127/128B(1)8:117, 119, 130
Broken Ridge, 121A13:472–473
chemical composition, 157B15:257–260; 180B8:36;
192A1:17
classification, 157B25:426
clasts, 157B16:268, 270–273
definition, 125B40:675
deformation, 157B14:212–213
deposition, 144A5:163
devitrification, 180B17:6
- eruptions, 192A4:15–16
- geochemistry, 121B14:27, 284; 157B12:175; 18:326–328; 201B19:10
- lithology, 135A(1)6:256; 157A5:112; 9:443, 448;
165A4:138, 147; 177A8:7–8; 180A5:16; 7:10–11;
9:6, 9; 183A5:5, 7, 19; 6:22–23, 35–36;
186A5:13–14; 186B10:19; 192A1:16; 3:7;
200A1:28–30; 3:10, 15–19; 201A8:13; 202A5:8;
10:8–10; 204A3:7–8; 208A3:6–7
- major elements, 121B14:27–283; 186B10:19–20
- morphological categories, 121B14:27; 165A4:176–180
- Ninetyeast Ridge, 121A15:520
- occurrence, 129B5:140
- petrography, 157A10:520–521; 187A8:5; 200A4:35–36
- petrology, 134A11:336; 13:501
- photograph, 135A(1)8:357; 10:515; 153A6:227–228;
157A4:67; 5:118; 9:445; 157B12:178;
158A7:132; 165A6:328; 180A6:89; 185A3:84;
191A4:100; 192A6:59; 201A6:42
- photomicrograph, 157A9:458; 10:524; 157B15:265;
16:289; 165A4:176–180; 168A5:121; 180A1:58;
6:90; 12:69, 74–75; 180B8:41; 183A5:91, 113;
187A15:38–39; 8:21, 38; 192A1:54, 58; 4:57, 74;
6:60; 195A4:84–85, 89–91; 200A3:82, 86, 89–94,
98, 100; 4:108; 204A1:59; 3:52; 205A4:85; 5:51;
206A3:235
- provenance, 200A3:33–34
- pumice, 121A13:472–473
- reflective index, 136B7:89
- replaced by zeolites, 127/128B(1)9:139
- resedimentation, 183A4:12–13
- sand fraction, 157B17:303
- silica content, 135A(1)7:304
- Site 783, 125B40:679
- Site 795, 127A5:190
- tephra, 183B9:7–8, 39; 186B9:5–7, 11; 205A4:20
- tuffs, 183A1:18–19
- volcanics, 127/128B(2)48:791, 793; 151B17:315;
198B18:14–17
- volcaniclastics, 180B8:9
- vs. depth, 135A(1)8:353
- See also* basalts; vitric fragments; volcanic glass
- glass shards, felsic
chemical composition, 157B15:240–243, 255
geochemistry, 157B25:421–428
- glass shards, palagonitized
lithology, 183A4:4–5, 11–13
photograph, 183A4:40
- glass shards, rhyolitic
photomicrograph, 157B15:266; 16:287
photograph, 165A5:241
- glassy basalt. *See* basalt, glassy
- glassy basalt clasts. *See* clasts, glassy basalt
- glassy diabase. *See* diabases, glassy
- glassy matrix. *See* matrix, glassy
- glassy rims, alteration, 168B10:126, 128
- glauconite
accessory component, 188A3:74; 188B4:11, 20
allochthonous source, 127/128B(1)6:67, 74
alteration, 129B22:418–419
authigenic minerals, 149B31:531–532

- autochthonous source, 127/128B(1)2:38; 5:67; 6:74
Baffin Bay, 105A4:91; 105B3:38, 47
biostratigraphy, 151B14:280; 159B43:588; 207A6:14
Broken Ridge, 121A4:73; 9:240; 13:463, 465
carbonates, 144B26:462, 465–466; 194A1:50–54;
194B6:4
Cenozoic, 133B27:401
clasts, 162A4:115
composition, 113A11:622; 146B(1)6:122
Coniacian–Eocene interval, 159B12:118
Cretaceous/Tertiary boundary, 173B6:3
cumulative percentage, 174AXS_A3:73–76
cyclic processes, 189A6:21–22
dating, 113A8:335; 113B5:61
definition, 120B(1)9:115
density, 121A9:252
deposition, 113A11:658; 121A4:89; 13:465;
121B44:939–940; 127/128B(1)5:71
diagenesis, 112A14:371; 15:449; 16:531–532; 17:603;
127/128B(1)2:39; 160B32:408
distribution, 188B4:35
electron microprobe data, 127/128B(1)5:67, 70;
168B12:154
Eocene–Miocene interval, 104B3:51
flooding surfaces, 133B25:358, 360–363
global significance, 120B(1)9:130
green clay, 184B15:4
ice-rafted debris, 120B(1)12:167, 175–176
illite, 150X_B4:54–55
indicators, 167B25:292–293
iron oxide and potassium oxide, 150B20:368
Labrador Sea, 105A5:442
laminated intervals, 119B39:724
lithofacies, 150B10:171–187; 150X_B2:20
lithology, 104A4:74–75; 5:467; 127/128B(2)78:1232;
133B27:393; 146A(1)5:137, 141–142; 7:308–
309; 150A6:71–72; 7:147; 8:216; 10:318–319;
150B22:392; 152A6:62; 11:198, 204–205;
152B1:14; 4:46; 159A5:75–77; 6:163, 166–170;
7:227–231; 8:263; 161A6:193–194; 164A6:108–
110; 9:283–284; 166A10:297; 167A(1)6:134;
7:181, 183; 12:320; 13:358–359; 16:467–468;
170A3:53; 5:161–162; 6:195; 7:219–220;
171B_A5:182; 6:257–258; 172A4:91;
174A_A3:45; 4:104–111, 113–115; 5:163;
174AXS_A:17–29; 2:23–33; 3:24–34; 4:12–15;
175A4:91; 5:119; 6:152; 7:179; 8:205; 9:233;
181A4:5; 9:6–7; 182A1:22, 28, 31, 34, 39; 4:5–6,
9–11; 5:8–9; 6:5, 9; 8:7–9; 9:6–7; 10:6, 9–11;
11:6; 12:4–7; 183A3:5–6; 4:5–6, 11–13; 5:5–6;
6:7–8; 7:5–6; 186A4:16–17; 5:14; 188A3:13–15,
20, 22; 189A5:43; 6:13–19; 7:13–18; 193A4:14;
194A3:6; 4:7–10; 5:5; 6:4; 8:5; 201A8:11; 9:7, 10;
11:11–12; 12:7–11; 204A3:6–8; 4:5–11; 6:4–5;
7:5–6; 9:6–7; 10:8–9; 205A6:8–9; 207A4:8; 6:9;
7:4; 210A3:26–28, 33–34, 37
Mascarene Plateau, 115A5:242–243
mass accumulation rates, 121B44:939
Miocene, 160B33:420, 423
Neogene, 159A9:308–309
Ninetyeast Ridge, 121A11:311
oceanic anoxic events, 198B16:11
ooze, 133A(1)11:427
Paleocene/Eocene boundary, 173B6:3
paleoenvironment, 174AX_A1:20–26, 29, 35;
189A3:20; 6:20–21
paragenesis, 146A(1)5:147
peloids, 112A16:532
percentage vs. depth, 174A_A3:60; 4:116; 5:164
petrography, 150X_B3:27–28, 31–37; 161B3:41
photograph, 133A(1)10:365; 146A(1)5:148; 7:316–
317; 150A6:76; 150B10:185–187; 151A6:121;
152A11:201–203; 157A5:118; 6:149; 159A5:79,
83; 7:229–230; 169S_A2:27; 171B_A5:186;
174A_A4:113; 182A6:47; 183A5:69; 189A6:81,
84–85; 192A6:59; 194A4:56; 6:34, 37; 7:65;
8:39–40; 204A11:31; 207A5:49; 6:48; 7:47; 8:46;
210A3:131, 149
photomicrograph, 161B25:342; 180B3:26, 28;
194A3:33; 4:51, 54–57; 5:52; 6:38; 198B16:20;
204A3:56; 4:46, 58; 7:30; 207A5:50; 7:49;
210A3:152, 182, 223; 210B2:20
physical properties, 194A6:20–21
pore water, 150A10:333–334; 175A5:130
potassium logs vs. photoelectric effect logs, 178A5:85
precipitation, 174A_A5:172
remanent magnetization, 194A6:11
rubidium-strontium isotopes, 104B8:249–252
Salaverry Basin, 112A14:366
sand, 120B(1)9:117–118; 150B11:199–201
sandstone, 161B25:334–335; 210B2:5
Sardinian margin, 107B12:182; 38:642
scanning electron micrograph, 159B16:155;
174A_B7:56–59
sedimentation, 181B1:8; 183A5:8; 189A1:53–54
sediments, 133A(1)10:361; 146A(1)5:147–149, 151;
151A8:241; 151B31:518; 157B20:350–352;
166A10:317; 174A_B(synopsis):8–9;
174AXS_A4:49–50; 5:25–42, 72–76; 6:38, 86–90;
183B7:25; 189A5:69; 192A6:104; 194A3:17;
201A1:34
seismic reflectors, 175A16:500; 18:535
siliciclastics, 133B15:191–193
Site 737, 119A6:165, 167, 173
Site 748, 120A7:172, 228; 120B(1)1:23–24; 8:99;
(2)57:1045
Site 766, 123A5:286
Site 794, 127/128B(2)78:1259
Site 795, 127A5:189
Site 796, 127A6:265
Site 797, 127A7:344
Site 798, 127/128B(1)6:63–74
Site 799, 127/128B(1)2:38; 6:63–74; 128A5:260, 264
spectral data, 164B31:319–322
stratigraphy, 188B1:10
structural formula, 104B3:43
subsidence, 152A13:282–283
tektites, 150B13:247
terrigenous component, 189B11:4–5
textures, 174A_B3:4, 9
thickness, 113A11:615
thorium/potassium ratio, 171B_A4:167; 174A_A4:150

- Tiburon Rise N, 110A5:219; 110B2:12–13
 Trujillo Basin, 112A16:528, 563
 Turonian tuffs, 121A13:464
 upper Eocene, 189B1:12
 volcanic rocks, 141B28:352–355
 volcanoclastics, 152B9:122
 vs. depth, 113A8:335; 11:616; 113B6:76, 84;
 146A(1)5:149; 7:319; 146B(1)2:41; 150A8:219;
 150B20:365; 151B31:556; 161A9:399; 175B1:20;
 186A4:84; 6:75, 77–78; 7:65, 68; 189B9:18;
 204A4:45; 10:47; 11:30
 vs. magnetic susceptibility, 150X_B6:67
 weathering, 120B(1)8:105
 X-ray diffraction data, 120B(1)9:119–122; 159A6:177;
 159B15:145, 147; 186A4:90
See also hardgrounds; pellets
- glauconite, authigenic
 environment, 204A10:9–11
 lithology, 202A7:9
 photograph, 202A7:48
- glauconite, clayey, lithology, 174AX_A1:30
 glauconite, detrital, lithology, 186A1:10
 glauconite, diagenetic, photograph, 183A7:68–69
 glauconite, epigenetic, photomicrograph, 210A3:150
 glauconite abundance index, vs. age, 175A16:502
 glauconite bands, photograph, 206A3:128
 glauconite beds, lithology, 164A9:283
 glauconite grains
 clasts, 160B46:599
 lithology, 189A7:16–18
 glauconite veins. *See* veins, glauconite
 glauconitization
 evolution, 150B10:176–177
 green clay, 184B15:4–8
 green grains, 159B43:594
 illite, 150X_B4:54–55
 Neogene, 159A9:308–309
 See also alteration
- glaucophanes
 lithology, 195A3:13; 195B1:10
 turbidites, 124B32:445
- glaucophanes schist
 mud, 195A3:18–20
 photomicrograph, 195A1:42; 3:98
- Gleicheniaceae, sporomorphs, 183B3:7
- gleying, lithology, 174AXS_A5:38
- global change
 Eocene, 150X_B17:229–242
 North Atlantic-Arctic gateways, 151A1:16–17
 Paleocene–Eocene interval, 150X_B23:305–313
 global climate, Asian monsoon system, 184A1:1–77
 global cooling
 clay mineral sedimentation, 150B9:158
 See also paleoclimatology
 global coupled climate models, lower Paleogene,
 199A3:1–30
- Global Digital Seismic Network
 history, 136A1:4
See also Federation of Digital Seismic Networks
- global ocean, Neogene, 130B16:281–305
 global optimum zonation, 123B33:604
- Global Stratotype Section and Point, 159B32:413, 415
 global warming
 Paleocene–Eocene Antarctic evidence, 113B53:945
 Paleocene/Eocene boundary, 208B1:20
 Paleocene/Eocene Thermal Maximum, 207B1:10
- globigerinoids
 abundance, 160B2:22
 Atlantic Ocean S subantarctic, 114A8:382
 distribution, 123B14:282, 284
 Pliocene–Quaternary interval, 160B12:157, 162
 Site 766, 123B14:277, 280
 Site 787, 126A5:80
 stable isotope stratigraphy, 184B2:1–29; 3:1–8; 19:14–
 15, 18–21
 vs. depth, 161B15:200, 206; 164B34:353–356
- Globotextulariidae, Site 766, 123B14:273
- globotruncanids, Atlantic Ocean S, 114A5:104
- globular habit. *See* habit, globular
- globules
 photomicrograph, 176B7:15
 sulfides, 142A4:57, 61; 176A3:27; 176B7:4–5, 8–9
- Glomar Challenger*, cruises, 102A3:140; 102B2:19, 21, 24;
 7:77
- glomerocrysts
 augite and plagioclase, 163A3:27
 basalts, 139A5:138–139; 148A3:136–137; 183A4:18–
 19; 5:31; 187A1:9; 192A4:14; 5:12–13;
 197A3:19–20
 basement units, 183A6:47
 clinopyroxenes, 201A12:11
 diabase and basalt, 148A2:44–45
 geochemistry, 192A3:28–29
 hyaloclastite, 143B16:265
 lava flows, 197A5:15; 6:12–13
 lithology, 163X_A4:6–7; 5:4–5; 6:17; 170A3:58–60;
 4:108; 187A3:5–6; 6:3–5; 7:5; 9:3–5; 11:3–7; 14:4
 mineralogy, 148A2:115, 188
 olivines, 185A4:23–24
 petrography, 187A8:5–6; 12:3–8; 15:4–6
 photograph, 135A(1)5:225; 148A3:137; 170A3:60;
 4:108
 photomicrograph, 163A3:28; 5:60; 163X_A4:20; 5:10;
 183A5:101; 6:130; 8:54; 185A3:96; 187A1:29;
 7:16; 11:19; 14:12, 16; 15:24; 192A3:87, 92, 105,
 107; 5:52–53; 6:46–48, 68; 7:29; 200A4:104
 plagioclases, 129B17:307; 135A(1)4:145; 163A4:38;
 192A3:27
 volcanic basement, 163X_A8:7–8
 vs. depth, 170A3:61; 183A4:46; 5:99
 See also crystal clots
- glomerocrysts, clinopyroxene-plagioclase
 petrography, 192A3:27
 photomicrograph, 192A3:105, 107
- glomerocrysts, olivine
 basalts, 185A4:23–24
 photomicrograph, 187A9:15; 197A3:78; 5:51; 6:46–48
- glomerocrysts, plagioclase, photomicrograph, 185A3:96;
 187A8:25; 13:19; 197A5:51; 6:46–48, 68;
 206A3:216
- glomerophyric texture. *See* textures, glomerophyric

- glomeroporphyritic clusters
 lithology, 198A9:12–13
 photograph, 198A9:61
 photomicrograph, 198A9:66
glomeroporphyritic textures. *See* textures, glomeroporphyritic
- Glomospira* event, early Eocene, 149B8:206–207
- GLORIA side-scan sonar, 135B23:373–382
- GLT. *See* geochemical tool string
- glucose, molar percentage, 112B36:564
- glucose/fucose ratio, Site 681, 112B36:564
- glutamic acid
 pore water, 201B12:3, 7
 racemization, 174AXS_A7:27–29
- glycine
 Oman margin, 117B32:538
 pore water, 201B12:3, 7
- glycolipids
 sediments, 207B12:4
 vs. phospholipids, 207B12:9
- Glycymeris
 lithology, 166A8:177; 11:354
 photograph, 166A8:178
- gmelinite
 hydrothermal alteration, 157B26:436
 photomicrograph, 192A5:91
 veins, 192A5:17
- gneiss diabase. *See* diabases, gneiss
- gneiss fragments
 glaciomarine sediments, 163X_A8:3
 lithology, 177A8:8; 180A5:8–9
 volcaniclastics, 180B7:7; 8:5–6
- gneiss pebbles. *See* pebbles, gneiss
- gneisses
 actinolite, 183A5:33
 alteration, 118B8:179
 amphibole, 118B27:543, 549
 basement, 161A6:215; 161B44:565–568
 biotite-garnet-orthopyroxene, 119A11:453
 biotite-quartz-feldspar, 119B13:247
 charnockitic granite, 119B7:138
 clinopyroxene-amphibole-garnet, 119A11:453
 contamination, 152B41:508–509
 cordierite-sillimanite, 119A11:454
 felsic, 163X_A6:5–19
 foliated, 118A3:51–52; 118B26:449
 garnet-bearing quartzo-feldspathic, 119A11:453–454
 geology, 188A1:7–8
 Goban Spur inorganic nitrogen, 127A6:285
 gouge, 161B25:333
 high-grade, 161B20:283–284
 leucocratic, 163X_A7:4
 lithology, 163A3:26; 4:35; 163X_A7:3–4
 mafic, 119A11:453; 119B7:138
 melanocratic hornblende-biotite pegmatitic, 163X_A8:6
 mineral composition, 161A6:226
 Oki Islands, 128A4:127
 orthopyroxene, 119A11:453
 photograph, 161A6:241
 photomicrograph, 161A6:246–247; 161B19:278–279; 20:286; 183A5:112
 pressure-temperature conditions, 161B44:566–567
 provenance, 119B3:52; 180B6:20–24
 Prydz Bay extension, 119B3:53–54
 quartzofeldspathic, 119A11:454
 rock magnetism, 161A6:207–209
 sandstone, 161B25:334–335
 structure, 161B23:310
 thin sections, 161A9:1004–1009
 X-ray fluorescence data, 161A6:234
 See also amphibolites; augen gneiss; granite gneiss; leucogneiss; metagabbro; paragneiss; tonalite gneiss
- gneisses, garnet
 mineral assemblages, 161B23:313–314
 photomicrograph, 183A1:100
 trace elements, 183A5:120
- gneisses, garnet-biotite
 basement, 183A1:35; 183B1:26
 clasts, 183A1:18–19; 5:7, 33
 geochemistry, 183A5:37
 lithology, 183A5:7
 photomicrograph, 183A5:111
- gneisses, granite
 foliation planes, 180A7:13
 Prydz Bay, 119B7:138
- gneisses, melanocratic
 igneous units, 163X_A6:22
 photomicrograph, 163X_A6:42
- gneisses, migmatitic
 basement/sediment contact, 161A6:215
 melting, 161A6:228, 230
 mineral composition, 161A6:226
 photograph, 161A6:231
 photomicrograph, 161A6:247
 structure, 161B20:283–284
 textures, 161B19:266–267
- gneisses, pelitic
 composition, 161B19:264–265
 fission tracks, 161B21:295–300
 textures, 161B19:266–267
- gneissic texture. *See* textures, gneissic
- godlevskite, breccia clasts and matrix, 173A7:195
- goethite
 abundance, 107B20:328
 alteration, 129B19:367–368; 168B10:122–123; 183B15:8; 192A7:9; 197A3:28–30; 4:21
 amorphous, 197A5:15
 Aptian, 192A3:13–14
 artifacts in minicores, 207B3:4–5
 authigenic minerals, 149B31:531–532
 basalts, 191A4:34
 Bengal Fan, 116B27:342
 borehole fluids, 137A2:38–39
 carbonates, 144B26:462, 465
 cements, 133B36:531–532
 coercivity, 133B38:555–556
 crystalline, 183A9:85
 deltaic sediments, 152B9:119
 deposition, 202A8:12–13

- diffuse reflectance spectrophotometry, 188B7:9, 11;
 13:10–11
- factor score, 188B7:26–27, 32, 37, 42
- first derivative values, 188B7:24–25
- grain size, 152B9:120
- hardground, 133A(1)5:144, 147
- heat effect, 116B27:342
- hydrothermal alteration, 198A9:49
- hydrothermal fields, 158A1:8
- hydrothermal sequences, 145B27:417–419, 421–424
- jasperoids, 193B9:5
- lithology, 159A8:262, 269; 174AXS_A2:26; 182A8:8–
 9; 183A4:12; 5:16; 193A6:5; 210A3:38
- magnetic susceptibility, 132B3:43
- magnetostratigraphy, 188B13:7–8
- massive alteration, 168B10:129
- massive sulfides, 139B18:377
- Neogene, 159A9:308–309
- nucleotides, 158B26:357, 359
- paleosols, 144B19:383–388
- photograph, 159A8:264; 180A6:113; 192A3:63; 7:41
- photomicrograph, 129B3:108–110; 192A3:120–121,
 125–126, 129; 5:86; 6:76; 197A4:49, 63; 5:59
- Pigafetta Basin, 129B1:16
- reddish brown zone, 168B10:130
- reflectance spectra, 202A6:38
- remanent magnetization, 175B16:1–10; 194A4:77
- secondary minerals, 148B12:173, 189
- sediments, 129B1:8; 172B2:4–6; 192A6:104; 194A4:19
 Site 747, 120A6:135
- Site 765, 123A4:101
- spectral data, 164B31:319–320
- thermal demagnetization, 195A4:122
- thermomagnetic curves, 183B13:5
- veins, 163A3:28
- volcaniclastics, 152B9:122–124
- vs. depth, 155B10:202–213
- weathering, 152B9:117
- X-ray diffraction data, 159A8:264
- See also* veins
- goethite concretions. *See* concretions, goethite
- Goettingen Borehole Magnetometer, 197B5:7
- gold
- chemical composition, 193B3:20–23
- Cretaceous/Tertiary boundary, 121B20:425, 429
- diabases, 137/140B10:117–120
- element correlations, 158B4:65; 28:395
- hydrothermal circulation, 169A1:9
- Mascarene Plateau, 115B7:77
- melting calculations, 137/140B17:204
- mineral separates, 158B2:33, 36, 39
- mineralization, 193B3:4
- Nazareth Bank, 115B7:77
- pyrite inclusions, 193B3:22
- serpentinite seamounts, 125B29:509–513
- serpentinized peridotites, 153B29:514
- silicic rocks, 135B40:656
- Site 699, 114B37:692–693
- Site 713, 115B7:77
- Site 713, 115B7:77
- Site 798, 127/128B(2)86:1368–1369
- sphalerite inclusions, 193B3:20
- sulfides, 128A1:21; 158A8:158–159; 158B3:46
- upper oceanic crust, 148B36:453–454
- void fillings or vesicle linings in quartz, 193B3:21
- vs. copper, 135B35:600
- vs. depth, 137/140B10:119; 139B17:359–367;
 148B36:454; 158B4:54–55, 58–62
- vs. palladium, 135B35:602
- zoning, 158B28:397
- gold, native
- hydrothermal fields, 158B1:14
- massive sulfides, 193B10:6
- “golden spike”
- Paleocene/Eocene Thermal Maximum, 198B8:4
- stratigraphic marker, 138A(2)13:714
- gonyaulacoid/peridinoid ratio, dinoflagellates, 162B6:91
- gonyaulacoid species
- paleoecology, 189B4:14
- See also* peridinoid/gonyaulacoid ratio
- goodness-of-fit test. *See* Kolmogorov-Smirnov test
- gossan
- alteration, 129B19:367–368
- development, 158B28:409–410
- hydrothermal fields, 158A1:7
- structural data, 169A3:108
- gouge. *See* fault gouge
- goyazite. *See also* spherules, goyazite
- GPIT. *See* inclinometers
- GRA density. *See* density, GRA
- grabens
- blocks, 159B1:6
- Brunhes/Matuyama boundary, 193A1:4–5
- carbonates, 130B3:46
- continental margins, 166A1:6
- deformation, 190/196B1:19
- evolution, 135B28:509
- faults, 161B26:349
- geometry, 186B1:8
- Islas Orcadas Rise, 114B1:6
- photograph, 210A3:258
- plate motion, 134A2:22
- Pliocene–Pleistocene interval, 180A3:5–6
- sedimentary basins, 134A1:13
- sedimentary cover, 161B44:563
- seismic data, 130B2:27; 135B2:17–20; 161B25:338–
 339; 165A6:295; 207A3:4
- Site 747, 120A6:145; 120B(2)47:884–885
- Site 748, 120A7:230
- terrains, 135B51:819
- turbidites, 133B27:408–445
- uplifts, 160B54:733
- See also* half-grabens; horst-graben structures; rift val-
 leys
- grabens, axial, active zones, 158B27:380–381
- grabens, axial-summit, topography, 147A1:5
- grabens, quadrilateral, seamounts, 160B51:691–692
- gradational contacts
- lithology, 176A3:16
- petrology, 179A4:34–35
- thickness, 161A8:367
- vs. depth, 161A8:366

- See also* lithologic contacts
- grade
zoning, 158B28:397–398, 409
See also tonnage
- graded bedding
Aptian, 123A4:105–106
Baffin Bay, 105B1:12; 2:24–25; 4:55–56; 7:89–90
calcareous sediments, 123A5:283; 123B1:19
claystone, 130A9:396
cross laminations, 123A4:88
deformation, 160A8:238–239
deposition, 123A4:87–88, 108, 111; 161B7:95–96
foraminiferal assemblages, 129B12:234
lithology, 134A10:266, 268–270; 135A(1)4:99, 101;
144A5:159; 160A4:75–76, 78; 174A_A3:57;
177A4:7; 180A9:10–11, 14, 21–22, 25–26; 10:5;
194A8:8; 201A7:10–11; 204A5:3–4; 10:4–5;
210A3:26–60
Markov chain analysis, 123A4:106–107
photograph, 141A7:169; 8:246, 249; 146A(1)5:140;
159A5:79; 162A10:359; 164A6:107; 169A3:61;
177A4:37; 180A9:71; 180B9:20; 183A5:70, 134;
188A4:56; 190A1:59; 195A5:21; 207A5:52;
210A1:65; 3:131–132
Pigafetta Basin, 129B6:155–156, 159
sediments, 141A9:315; 149A4:111–112; 202A3:8–9
Site 765, 123A4:77–81, 83–84
Site 784, 125A15:375
Sulu Sea, 124A11:214–216, 230
turbidite facies, 180B9:5–9
vs. depth, 134A7:105; 177A4:33
- graded bedding, inverse-to-normal, 180A8:49; 9:85
- graded bedding, normal
petrography, 180B8:4
photograph, 180A12:73
- graded conglomerate. *See* conglomerate, graded
- graded diamict facies, lithofacies, 178A6:6
- gradients, sea-surface, sedimentation, 162B12:185–189
- grading
lithofacies, 155B40:613–615
petrography, 160B45:580
photograph, 194A7:69
sediments, 160B47:612, 614
- grain boundaries
hydrothermal alteration, 209B4:3–4
lithology, 209A9:5–7
photograph, 137/140B19:225
photomicrograph, 209A7:57; 9:57; 209B1:27
See also crenulate contacts; olivine triple junctions
- grain counts, vs. depth, 182B9:13
- grain density
vs. depth, 171A_A3:34
See also density, grain
- grain diameter
histograms, 178B12:15
sediments, 178B12:21–22, 27–28, 33–34
vs. age, 178B12:10, 14
- grain fabric
diamict, 178A9:18–19
sediments, Site 1178, 190A9:11
- grain flow deposits
core photograph, 129B6:162
Nazareth Bank, 115A4:131
Pigafetta Basin, 129B4:129; 6:155, 157, 159–160
- grain mode
histograms, 178B12:15
sediments, 178B12:21–22, 27–28, 33–34
vs. age, 178B12:10, 14
- grain orientation
Prydz Bay, 119B6:99–100, 105–107
rose diagram, 131B3:41
- grain shape, siliceous claystone, 127/128B(1)2:38
- grain size
alteration, 148B12:180
analysis, 116B33:417–420
apparent overconsolidation, 204B8:9
Atlantic Ocean E tropical, 108B4:262; 15:263–277;
17:300
Atlantis Bank, 118A5:124
average variations, 174A_B4:10, 12
Baffin Bay, 105B1:12; 7:90
basalts, 118A5:117; 121B29:549
Bengal Fan, 116B3:28, 30–31; 26:322, 324, 331–334;
32:406; 33:417–420
biogenic sediments, 117B11:228; 201B14:3–4, 10–11,
13–14
bivariant discrimination, 178B24:23
blue tuff, 127/128B(1)8:117
Broken Ridge, 121A2:42; 121B8:217
bulk density, 105B39:779
burial diagenesis, 117B11:237
calcareous turbidites, 123B7:153, 155–157
calcium carbonate, 107B15:235, 237
carbonates, 115B25:485; 133B23:318–324;
162B13:191–194; 166B6:67–73; 182B15:1–13
classes, 178B24:27
clay mineralogy, 156B1:16, 20; 169B6:21; 178B8:12–
14
clayey silt, 146A(1)4:67, 69
clays, 152B4:39–49
climate optimum, 178B34:5–6
coarse fraction, 146B(1)2:33–43; 165B17:257–258;
188B9:10
coarsening and fining cycles, 133B15:190–191
coercivity remanence/coercivity ratio, 184B1:4
coherent materials, 117B21:380, 383–385, 387
columns, 155A6:94–95; 7:129–131; 8:180; 9:206–207;
10:245; 11:282–283; 12:326–327; 13:389;
14:414–415; 16:468; 18:543; 19:572; 20:596–
597; 21:639; 22:660; 155B4:55
compaction, 165B10:186
consolidation, 145B35:526; 194B7:18
continental rise, 178B12:1–34
Cornaglia Terrace, 107B14:215; 18:297
cumulative curves, 149B40:750
De Marchi Seamount, 107B14:220
deformation bands, 141B2:19
density, 190/196B8:8
detrital quartz and fluvial environments, 119B3:50,
52

- diabases, 128A3:90–91; 137/140B19:220, 223;
 148A2:43–44; 180A12:26
 diamictite, 119A8:296, 299
 disseminated oxide olivine gabbro, 118B26:459
 dissolution effects, 121B8:214
 distribution, 105B1:8, 15; 6:72–76; 8:103;
 162B17:239; 167B18:232; 208B1:47; 2:1–13
 Eocene, 105B8:101–102
 errors in analysis, 105B39:778
 ferrobasalts, 168A4:67
 fine fraction, 178B12:17–20, 24–26, 30–32; 24:1–27
 fining-upward sequence, 105B1:8, 14; 117B10:218–
 219
 foraminifers, 198B10:6
 frequency curve, 174A_B4:7–9, 11; 201B14:17–18
 gabbros, 123A5:318–319; 179B(synthesis):7–8;
 205A4:29
 gas hydrates, 204B10:4–7
 glacial–interglacial variations, 127/128B(1)33:589
 glauconite, 150B10:174; 13:253
 global ice volume association, 117B21:371
 Gortani Ridge, 107B18:297
 green clay, 184B15:4, 20–21
 groundmass, 187A9:5
 gypsum, 161A5:131
 histograms, 178B12:15
 igneous layering, 176A3:29–30
 igneous rocks, 169A5:212
 indicators, 167B25:291
 interlaboratory comparison, 155B11:217–228
 iron-titanium oxide gabbro, 118B3:48
 Kerguelen Plateau S, 119B10:195
 Labrador Sea, 105B1:13–14
 Lima Basin C, 112B22:374–375
 lithofacies, 119B6:89–91, 94; 12:227–228;
 146B(2)22:298; 155B2:29–30; 161B4:62
 lithology, 116B31:381; 117B21:368–372; 121A11:311;
 12:373–374; 121B8:214; 134B5:80; 166A11:355–
 356; 172A4:84; 176A3:16–17; 179A4:31–34;
 185A3:12; 201B14:19
 Lowrie–Fuller tests, 206A3:141
 macroscopic description, 192A5:12–14; 6:16
 mafic rocks, 209A7:2–8
 magmatic origin and variations, 118B1:3
 magnetic properties, 125B33:566; 127/
 128B(2)60:949–951; 61:962; 145B33:487–489
 magnetite, 153B7:130–131; 154B10:173–174
 major elements, 167B25:288–289
 Marsili Basin, 107B17:257; 38:650
 Mascarene Plateau, 115A5:235, 244
 mean size, 155B5:106; 167B18:233; 178B24:23;
 206A3:373–374; 206B5:26–28
 median destructive field, 148B15:223–224
 method of moments, 178B24:19–22
 microfabrics, 185B9:7, 19
 Milankovitch periodicities, 117B21:380, 382–383, 387
 mineralogical correlation, 121B17:379, 382
 Miocene, 107B27:415, 418–420
 Miocene/Pliocene boundary, 105B6:76
 mixed sediments, 165B10:180
 modal diameter, 105B1:10
 monsoonal upwelling, 117B9:205; 21:371, 373, 386
 mud, 195A3:18–20
 mud volcanoes, 160B48:628–630, 638
 Ninetyeast Ridge, 121A2:42
 nonbiogenic sediment, 119B10:190–191, 193, 206–
 208
 normal faults, 160B49:650, 657
 oceanic circulation effects, 121A13:470
 olivine-bearing ultramafic rocks, 153A3:57
 olivine gabbros, 118A6:107; 176A1:12
 orbital insolation forcing, 117B21:383
 orthopyroxenes and clinopyroxenes, 209A9:51
 oxide olivine gabbros, 118B26:464
 paleoceanography, 172A1:8–9
 pelagic ooze, 121A4:84, 86; 13:458, 460, 462;
 121B8:211–215
 peridotites, 153A3:58–62
 permeability, 119B8:154; 127/128B(2)71:1127–1128;
 191B5:5–6, 12; 205B11:13
 petrography, 161B7:87; 179A4:41
 photograph, 168A4:64; 176A3:133; 179A4:103;
 205A4:87–88
 physical properties, 117A12:400–401; 190/196B8:1–
 25
 Pisco Basin W, 112B21:359–360, 365–366
 plastically deformed gabbros, 118B22:400, 403–406
 Pliocene–Pleistocene interval, 105B3:36; 188B13:8
 populations, 178B24:6–8, 24; 25:8
 porosity, 133B41:619–621; 164B41:434
 porphyroclastic textures, 179A4:52–53
 profiles, 135B7:125–126
 Prydz Bay, 119A11:405; 119B6:81
 quartz, 150B13:252
 range, 116A4:49; 5:98; 116B14:161–162
 remanent magnetization, 134B27:481–484
 reproducibility, 172B5:12
 rock magnetism, 154B11:185; 208A3:19
 sand fraction, 105B1:10
 sand provenance, 149B11:270, 272
 sandstone, 127/128B(1)7:100, 104
 sapropels, 160B19:235, 241
 sea level induced changes, 112B22:374–375
 sedimentary layers, 107B17:263–267, 272–275, 277,
 280
 sedimentary regimes, 195B3:9
 sediments, 130A9:385–386; 130B38:642–652; 47:761–
 773; 141B2:18; 6:79–94; 146A(1)6:247–248;
 7:315; 146B(1)1:3–31; (2)7:90–91; 149B40:746;
 150B12:229–239; 151B26:450–451; 31:515–567;
 152A10:173; 155B3:35–52; 156B27:337–341;
 157B20:357–358; 160B2:13–15; 164B24:237–
 245; 37:395–396; 167B22:256–260; 168B6:69–
 71; 172B5:5, 16; 174A_B(synopsis):10; 4:1–18;
 177B13:3–4; 15:1–19; 183B7:3–5, 7–11, 24; 8:6,
 19–24; 9:4–7; 14:10–16; 184B19:4–5; 188B9:1–
 16; 204B11:1–19; 210B7:18, 20
 seismic correlation, 121A9:254; 10:294, 303; 11:348,
 357; 150B16:304
 sequential deposits, 108B18:315
 shallow sediments, 194B7:1–28
 silicates, 137/140B1:4

- siliceous claystone, 127/128B(1)2:38
- siliciclastics, 184B19:8–9
- Site 680, 112B21:363
- Site 681, 112B22:374–375
- Site 682, 112B22:375
- Site 731, 117B10:217–218
- Site 734, 118A5:84
- Site 753, 121A7:176
- Site 754, 121A8:194, 198
- Site 755, 121A9:242
- Site 756, 121A10:267
- Site 757, 121A11:348
- Site 758, 121A12:373–374
- Site 794, 127A4:94, 96, 127
- Site 795, 127A5:189, 192
- Site 797, 127A7:346; 127/128B(1)33:593
- Site 798, 127/128B(2)71:1132
- Site 799, 127/128B(2)71:1132
- soils, 204B12:20
- sonication, 201B14:16
- sorting, 119B6:90
- sources, 117B21:373; 119B6:114
- Southern Hemispheric ice buildup, 121B44:943
- spectra, 117B21:387
- standard deviation, 178B24:23; 184B19:17
- standard error, 146B(1)1:9
- statistical correlation, 178B12:9, 13; 24:18–22; 25:18; 204B10:19, 30
- tectonics, 107B15:242; 112B22:375
- tektites, 150B13:248, 252–253
- tephra, 119B17:328; 152B5:54–56; 183B9:7–8; 205A5:15–16
- terrigenous component, 108A1:14; 119B12:236, 240–244; 121B24:472, 476, 481; 167B18:229
- textures, 159B43:594
- time lag factor, 117B24:435
- transport distance, 119B6:121; 19:388; 121B24:481
- turbidites, 108B5:333; 124B32:431–434; 135B7:105, 107; 149B12:285–286, 288–289; 155B55:84–88
- turbidity currents, 155B4:57, 59–61
- unconsolidated sediments, 121A6:116, 120; 12:368
- variations of groundmass crystals, 206B5:22–23
- volcanic ash, 121B14:27; 127/128B(2)48:791; 128A4:150; 151B17:313–316; 165B5:101–113
- volcaniclastics, 135B4:53; 136B7:87–88; 157B17:297, 300–302
- volume percent of grain size classes, 184B19:16
- volume ratio, 167B25:289–290
- volume vs. diameter, 172B5:11
- vs. age, 138B28:618; 151B27:464; 154B7:145–146; 18:271; 165B17:259; 167B18:230; 22:258; 184B19:15; 188B13:25
- vs. anhysteretic remanent magnetization, 121B17:379, 382
- vs. biogenic silica, 177B13:6
- vs. carbonate content, 133B16:206–207; 161B4:63, 65; 183B7:15
- vs. chlorinity, 164B24:238–245
- vs. corrected depth, 167B22:260
- vs. deformation, 118A6:130
- vs. density, 105B39:775–779; 117B12:242, 249; 121A13:495
- vs. depth, 114B36:675–682; 116A4:54; 7:102; 116B14:162; 32:403, 406; 130A9:461; 130B16:284–292; 38:645; 133B11:150–153; 22:305; 23:321; 42:625–628; 134A7:105; 135A(1)7:298, 301; 137/140B2:19–33; 141B6:86–90; 146A(1)4:69; 5:141; 6:251–252; 7:314; 146B(1)15:262–264; (2)7:93; 22:302; 149B12:289; 150A8:215; 152A12:262; 153A3:62; 153B2:25; 154B7:141–142; 155A6:94–95; 7:129–131; 8:180; 9:206–207; 10:245; 11:282–283; 155B3:39–40; 159B43:596; 160B48:628–629; 162A10:360; 162B12:183, 185, 192; 164B24:238–245; 166B6:69–71; 167B22:258, 260; 178B25:19–25; 179A4:95–96; 179B2:26; 180A5:65; 6:117–118, 170, 175; 9:66–67; 12:56; 182A5:34; 182B7:7, 9–10; 8:11–16; 9:12; 183A5:86; 188B13:25; 190/196B8:15–17; 201B14:7–11, 22–23; 205A4:87–88, 93–104; 206A3:187–191; 206B5:4–5; 209A10:54, 59
- vs. gamma rays, 180A5:98–99
- vs. gas hydrate occurrence, 204B10:20
- vs. lithological evolution, 105B7:87–90
- vs. magnetic susceptibility, 180A5:96–97
- vs. oxygen isotopes, 117B21:383, 386
- vs. paleolatitude, 138B28:618
- vs. physical properties, 119A19:392; 24:431, 434; 119B8:149–150, 156–157
- vs. porosity, 105B38:767; 40:788; 117B12:247–248; 14:282; 19:385
- vs. rock magnetism, 150B19:353
- vs. sea level changes, 121B44:943
- vs. sediment color, 117B10:219; 150B12:235
- vs. sedimentation rates, 117B21:373; 121A10:265
- vs. seismic stratigraphy, 121A6:153; 7:185; 8:152
- vs. siliceous microfossils, 114B33:616–624
- vs. skewness, 141B6:86, 88–91
- vs. sorting coefficient, 141B6:86, 88–91; 151B17:315
- weight percentages vs. depth, 188B9:7
- wind velocity interpretations, 108B6:467–468
- winnowing, 121B8:212; 130B37:629–630, 636–639
- See also* coarse fraction; crystal size; diameter; fine fraction; granulometry; laser particle counter; particle size analyzer; roundness; sand fraction; sphericity; standard deviation; zero field cooled curves
- grain size, magnetic, vs. depth, 188B13:23
- grain size, mean
 - sand and clay, 130A8:306
 - sediments, 130A7:237–238; 8:303–304; 9:383
 - Sites 805, 806, and 807 comparison, 130A9:397
 - vs. age, 144B42:710, 720, 722; 184B19:21
 - vs. depth, 130A7:257; 8:330; 146B(1)1:7–8; 182B7:7, 9–10; 8:11–16; 168B6:69, 73–84
- grain size banding, petrography, 192A3:27
- grain size layering, petrology, 179A4:37
- grains
 - photomicrograph, 176B7:16
 - turbidites, 166B5:48
 - volcanic ash, 201B19:8–10

- grains, blackened, lithology, 166A9:239–241; 10:297, 303; 11:352–355
- grains, coated, lithofacies, 143B30:486–488
- grains, ilmenite-magnetite, Site 756, 121B28:545
- grains, lithic, vs. depth, 146A(1)5:142
- grains, ribboned, fabrics, 153B8:148–149
- grainstone
- alteration, 166A3:34
 - Barremian, 143A7:209
 - basalt contact, 143A7:206
 - biostratigraphy, 120A7:197–198
 - Campanian, 101B17:246–252
 - carbonate platforms, 194A1:50–54
 - Cenomanian–Coniacian interval, 159B12:116–118
 - Coniacian–Eocene interval, 159B12:119
 - Cretaceous, 143B10:136–140
 - cross laminations, 101A11:440–442
 - deep marine environment, 101B17:247–250
 - depositional history, 144B18:361–380
 - Exuma Sound, 101A10:389–390
 - faults, 159A6:186–187
 - Formation MicroScanner imagery, 143B21:332–333; 160B38:493
 - geochemistry, 144B59:1002
 - lithofacies, 143B30:473–475, 486–488; 144B14:282–283; 17:340–359; 160B37:476–477; 38:495
 - lithology, 143A10:377; 144A5:158–159; 8:291–292; 10:341; 144B13:267–268; 160A6:143; 7:196; 166A6:78–80; 8:178; 10:295–296; 11:353–355; 173A8:234, 238; 180A6:23–24; 12:18–19; 180B6:11, 13; 182A1:19–20, 28, 33; 5:5–7; 6:4–5; 8:7; 9:4–7; 10:7–10; 11:6; 183A7:7–8; 194A4:6–10; 6:5; 7:6–10; 9:3; 202A7:7–10; 210A3:21–28, 33–34, 48–49, 60–61
 - Miocene, 160B33:420–436
 - Northeast Providence Channel, 101B17:247
 - Northwest Providence Channel, 101A12:492
 - oolites, 143B8:111–113
 - outer perimeter ridges, 144B15:296, 299
 - petrography, 144B48:846–847; 210B2:4–5
 - petrology, 210B2:1–47
 - petrophysics, 143B18:301
 - photograph, 134A11:331; 143B9:131; 144A10:354; 144B14:291, 293; 159B12:119; 160B33:422; 171B_A6:260–262; 173A4:76; 8:239; 180A12:79, 84; 183A7:72–74; 194A4:36, 52; 7:48; 8:36; 9:32; 210A3:131, 154–156, 165
 - photomicrograph, 160B38:508; 173B6:8; 180A12:83; 182B9:11; 210A3:133, 149–151, 171, 209
 - porosity, 143B29:453
 - reef mounds, 182B13:1–29
 - rock magnetism, 166B4:35–43
 - Sardinian margin, 107B2:33
 - sedimentation, 183A1:37, 39
 - seismic velocity, 101B21:312; 120A7:216
 - shallow marine environment, 101B17:247–250
 - Site 715, 115A12:917, 922
 - Site 747, 120A6:104–105
 - Site 748, 120A7:172
 - Site 798, 127/128B(1)31:551
 - Straits of Florida, 101A5:57–58, 60
 - structures, 159B2:14, 16
 - textures, 144B16:317–319
 - thickness, 101A10:390
 - X-ray diffraction data, 160B33:427–428
 - See also* packstone-grainstone series
- grainstone, algal, molluscan, photograph, 144A5:166
- grainstone, algal-rudist
- lithofacies, 144B14:277–278, 281–282
 - lithology, 144A9:292–293
- grainstone, bioclastic
- Eocene–Miocene interval, 133B21:293–294, 297–298
 - lithofacies, 143B30:472–473, 483–484
 - lithology, 133A(1)4:93–94; 133B27:384–385; 134A11:326; 166A10:298; 171B_A6:258–259; 182A1:25–26; 7:5, 7–8, 10–11; 8:7; 10:9–10; 182B12:3–5
 - photograph, 133A(1)10:364; 134A11:332–333; 182A10:42
 - photomicrograph, 182B12:
- grainstone, bivalve, lithology, 182A8:8–9
- grainstone, bryozoan
- lithology, 182A8:8–9
 - photograph, 182A7:38
- grainstone, calcareous, Mascarene Plateau, 115A5:243
- grainstone, carbonate
- photograph, 210A3:142–145, 163, 166
 - photomicrograph, 210A3:149, 151
- grainstone, coralline, photograph, 144A3:57–58
- grainstone, dolomitized
- carbonates, 144B26:463
 - photograph, 194A5:47
 - photomicrograph, 182B12:8; 194A5:48
- grainstone, foraminiferal
- lithology, 134A11:330–331; 144A8:293–295; 182A8:7; 194A3:5–7
 - photograph, 144A8:294; 173A8:231; 194A6:33–34; 8:29
 - photomicrograph, 182B12:8
- grainstone, foraminiferal micritic
- Eocene–Miocene interval, 133B21:296–299
 - lithofacies, 133A(1)4:91
 - lithology, 133A(1)10:357; 16:700
 - microfacies, 133B21:294–296, 298–299
 - paleoenvironment, 133B4:60
- grainstone, graded, photograph, 210A3:138–146, 176, 178
- grainstone, intraclast/peloidal
- photograph, 173A6:119
 - photomicrograph, 173A4:78
- grainstone, laminated
- photograph, 194A4:56; 210A3:131, 141–142
 - photomicrograph, 194A4:57
- grainstone, lithic, lithology, 171B_A6:258–259
- grainstone, lithified, photograph, 144A7:268
- grainstone, massive poorly sorted, 210A1:63
- grainstone, middle-grained, inclusions, 210B5:11–12
- grainstone, miliolid-intraclast, lithology, 144A3:49
- grainstone, muddy matrix, 210A3:149–150
- grainstone, oncolite-skeletal-peloid, 144B16:334
- grainstone, oolitic
- lithology, 143A7:196–197, 199, 202–203; 8:278

- photograph, 144B16:331
- grainstone, peloidal
 - lithologic motifs, 173A7:173–174
 - lithology, 143A7:199–201; 171B_A6:258–259
 - photograph, 144B16:331; 173A8:233, 238, 240
- grainstone, planar-laminated carbonate, 210A1:66; 3:163, 169
- grainstone, porous skeletal
 - lithology, 144A7:260–261, 266–267; 10:341
 - photograph, 144A7:263
- grainstone, recrystallized, petrology, 210A3:65–66
- grainstone, redeposited graded, photograph, 210A3:132
- grainstone, rhodolith, photograph, 144A3:59
- grainstone, shelly foraminiferal, 121A9:238
- grainstone, skeletal
 - biostratigraphy, 144A7:273–274
 - lithology, 144A5:155–158; 6:214, 216, 218–220; 10:341, 350–351, 353; 11:417–420; 159A6:168–170; 194A4:9; 5:3, 6; 6:3–4; 7:14; 8:4–9; 9:5–8
 - photograph, 144B16:331, 333; 159A6:169, 172; 194A4:53; 5:35; 7:74; 8:29, 33, 35, 39
 - photomicrograph, 194A4:46, 54–55
- grainstone facies
 - orbitolinid, carbonates, 144B16:322
 - well-logging, 144A7:282, 284
- grainstone-floatstone series, lithology, 143A8:278; 194A9:5–8
- grainstone matrix
 - lithology, 194A7:12–15
 - photograph, 194A7:52
 - photomicrograph, 194A7:53
- grainstone-packstone series, lithology, 144A3:52; 194A4:7–8; 8:5–9
- grainstone-rudstone-packstone series, coralline, 144A3:50, 52
- grainstone/rudstone ratio, photograph, 166A10:299, 301
- grainstone-sandstone unit, lithology, 194A4:11
- Gramineae
 - seasonal variations, 117B15:278
 - Site 717, 116B21:249, 256
 - Site 720, 117B16:287
 - Site 721, 117B15:279
 - Site 723, 117B16:280
 - Site 794, 127/128B(1)28:491
- granite clasts. *See* clasts, granite
- granite dikes. *See* dikes, granite
- granite-gneiss rock, sandstone, 119B3:50
- granite pebbles. *See* pebbles, granite
- granite porphyry. *See* porphyry, granite
- granites
 - basement, 173A1:10
 - basement/sediment contact, 161A6:215
 - bulk chemistry, 161A6:215–216
 - Caldas de Reis (Portugal N), 103B1:4
 - geology, 188A1:7–8
 - Kita-Oki Bank, 128A4:127
 - Korea, 127/128B(1)7:111
 - lithology, 163A3:26; 163X_A5:4; 180A5:8–9
 - Mesozoic, 103B4:41–42
 - metamorphism, 161B23:310
 - mineral composition, 161A6:227
 - Oki Islands, 128A4:127
 - petrology, 176A1:13
 - photomicrograph, 161B23:313; 180B8:41
 - sandstone provenance, 127/128B(1)7:108
 - Site 699, 114A6:159, 193
 - Site 703, 114A10:557
 - thin sections, 161A9:1001, 1006, 1008
 - veins, 176A3:29; 176B8:9–10
 - volcaniclastics, 180B8:6
 - X-ray fluorescence data, 161A6:234
 - Yamato Rise, 128A5:248–249
 - See also* granophyre; microgranites; plagiogranite; resite
- granites, leucocratic
 - basement/sediment contact, 161A6:215; 161B20:283
 - metamorphism, 161B44:571
 - photograph, 161A6:233; 161B23:310
- granitic rocks
 - classification, 161A6:235
 - ice-rafted debris, 163B14:160, 165
- granitoids
 - basement, 183A1:35
 - clasts, 183A1:18–19; 5:33
- granoblastic texture. *See* textures, granoblastic
- granodiorites
 - basement, 173A:10
 - lithology, 180A5:8–9
 - Mesozoic, 103B4:41–42
 - radionuclides, 149B44:678–684
 - Variscan basement, 149B1:8
 - waveforms, 102A3:115–116
- granophyres
 - geochemistry, 209A10:24–25
 - lithology, 209A10:3–10
 - petrology, 179B(synthesis):8; 180A11:5
 - photograph, 209A10:55–56, 58, 61, 64
 - photomicrograph, 180A11:20
 - See also* melanogranophyres
- Grant plots, alteration patches vs. diabase, 148B4:53
- granular texture. *See* textures, granular
- Granularia*, lithology, 191A4:11–14
- granularity, alteration, 148B12:180
- granule breccia. *See* breccia, granule
- granule grade base, photograph, 210A3:200
- granules
 - basement, 183A1:17–19
 - lithology, 155A12:331–332; 169S_A2:21–22, 24; 170A5:164; 7:223; 173A4:71–74; 174A_A4:104–111; 174AXS_A4:14–15; 5:17; 6:19–20; 178A4:9–10, 122; 5:5, 10; 178B25:4–6; 180A6:12, 23–24, 30–31; 7:8; 10:7–8; 12:20–21; 183A3:4; 4:3–4; 5:16; 6:8–9; 7:8; 186A4:15–16, 22; 188A3:13–14, 18–19; 4:9–12; 5:9–11; 200A3:15–19
 - number, 186A4:182–183
 - photograph, 178A5:46; 8:34; 180A5:57, 64; 9:83; 183A6:77; 9:72–73; 190A5:40; 200A3:58–59, 69
 - photomicrograph, 180A9:73; 193A4:123; 200A3:82
 - sedimentology, 200A4:25
 - vs. depth, 178A4:49; 186A4:78
 - X-ray diffraction data, 200A3:19–20, 95

- See also* rock granules
- granules, carbonate, photograph, 210A3:134–135, 145, 234
- granules, clay-rich, lithology, 204A10:5
- granules, claystone, photomicrograph, 200A3:79
- granules, quartz
- lithology, 174A_A3:54–57
 - photograph, 155A12:329; 174A_A3:57
- granulestone
- lithology, 210B9:8
 - photograph, 210B9:49
- granulite facies
- basement, 173A1:17
 - breccia, 173A7:193
 - contamination, 152B41:508–509
 - cumulate gabbros, 149B27:479, 481
 - deformation, 209A5:103; 6:20
 - geology, 188A1:7–8
 - internal structures, 173A4:199–201
 - metamorphism, 161A6:230; 176A3:45–47
 - peridotites, 149B22:406, 409–410
 - petrology, 153A5:196; 176A1:15
 - Prydz Bay, 119A11:453–454
 - shear zones, 176A1:5; 209A3:11–12
 - veins, 176B9:17–19
- granulometry
- Pliocene–Pleistocene interval, 188B13:8
 - vs. depth, 188B13:25
 - See also* grain size
- grapestone, photomicrograph, 129B6:164
- graphic logs, lithofacies, 188A3:85–88
- graphite
- metasedimentary rocks, 152B10:132–133
 - photograph, 152B10:144
 - photomicrograph, 161A6:239, 241, 245; 161B19:276–277; 20:285
 - schists, 161B19:265; 20:283
 - Site 765, 123A4:101
 - temperature, 152B10:138
- grasses
- phytoliths, 188B5:3–4
 - Pleistocene–Holocene interval, 201B4:21
 - Quaternary, 161B36:465
- gravel
- abundance vs. calibrated age, 178B34:14
 - Atlantis II Fracture Zone, 118B25:431–438
 - Broken Ridge, 121A1:5; 4:71
 - composition, 119A8:299–300
 - deposition, 118B25:436
 - distribution, 119B8:149
 - gases, 160B45:588
 - graded beds, 118B25:432–433
 - grain size distribution, 119B6:81–83; 10:190–192
 - gravity-driven transport, 118B25:431–432
 - high-temperature metamorphism, 118B25:435
 - ice-rafted origin, 119B10:201; 12:231; 13:248–249
 - length measurements, 118B25:435
 - lithofacies, 155B2:13; 40:613
 - lithology, 141A7:167, 169–170; 8:246–247; 143A10:377; 150X_A1:13–14; 152A6:57–62; 8:92; 9:113–114; 10:167–168; 161A7:305–307; 162A10:353; 163X_A7:4; 174A_A4:111–113; 174AX_A1:15; 174AXS_A2:16–18; 4:12, 19; 5:17; 6:19–20, 38–42; 190A7:6; 8:6; 197A6:5
 - Messinian, 161B44:568
 - origin, 118B25:434–435; 119A6:131
 - photograph, 141A7:171; 8:250; 152A9:115; 11:206; 162A10:360; 180A6:88; 190A1:68; 9:33
 - Pleistocene, 118B21:373; 174AXS_A1:14
 - Prydz Bay, 119A11:405
 - sea level control, 119B13:249
 - sedimentation, 141B31:380–388
 - sediments, 155A12:338
 - shape, 118B25:434, 437
 - Site 699, 114A6:156, 160; 114B2:24
 - Site 701, 114A8:377
 - size distribution, 118B25:436
 - sorting, 118B25:432–433
 - Straits of Florida, 101A5:57, 59
 - temperature, 119A5:152
 - volcanic ash, 190/196B2:4
 - vs. depth, 182B7:7–12; 8:11–16; 188B13:25
 - well-logging, 121A6:149
 - See also* clasts; conglomerate; pebbles
- gravel, andesitic, petrography, 135A(1)6:267–268
- gravel, basaltic
- lithology, 163X_A4:6–11
 - petrography, 157A10:520–521
- gravel, carbonate, photograph, 161B6:79
- gravel, extraformational, lithology, 161A6:193–194
- gravel, glauconitic granule- and fine-pebble, 174A_A3:56
- gravel, granitic, Site 699, 114A6:161, 193
- gravel, lithic, basement units, 183A6:24–25, 36–37
- gravel, mud-supported, photograph, 190A9:32
- gravel, muddy, lithology, 190A6:7
- gravel, pebbly, lithology, 174AXS_A2:16; 7:11–12, 16
- gravel, phosphate-feldspar, 112A12:252; 13:311
- gravel, polymictic
- Formation MicroScanner imagery, 160B47:614–615
 - lithology, 135A(1)8:349; 160A11:381–383
 - photograph, 160A11:388
- gravel, pumice
- lithology, 134A8:148; 135A(1)10:503, 507
 - manganese coating, 126B7:114
 - petrography, 126B8:126; 135A(1)8:354–355
 - Sumisu Rift, 126B19:285
- gravel, sandy
- lithofacies, 155B40:613
 - lithology, 174AXS_A1:26–27
- gravel, volcanic, lithology, 135A(1)8:350–351; 9:414
- gravel, volcanoclastic, photograph, 177A8:37
- gravel beds
- lithology, 188A5:9–11
 - photograph, 188A5:47
- gravel clasts. *See* clasts, gravel
- gravimetry, transform faults, 159A3:48–49
- gravitational sliding, serpentinite breccia, 149B36:584
- gravity anomalies
- Baffin Bay, 105B52:993–994
 - bathymetric map, 105B52:992
 - Bengal Fan, 116B22:263, 273, 275–277; 24:301, 305
 - Broken Ridge, 121A4:84–86; 121B34:682

- Davis Strait, 105B52:994
 geoid anomalies, 116B22:263
 geophysical surveys, 180A2:5–6, 15
 Indian Ocean SW, 121B30:561; 34:682
 Izu-Bonin forearc, 125A5:88, 93–94
 Labrador Sea, 105B48:899, 902, 904, 910
 magnetic response, 121B34:682, 685
 maps, 210A5:35
 new ocean/old ocean boundary, 121B34:691
 seamounts, 160A1:8–10
 Site 866, 143B31:529–530
 stress, 116B22:270–273, 275–277
 structure, 143B28:419–429
 topographic effects, 121B34:684, 690–692
- gravity anomalies, free-air
 Bengal Fan, 116B23:285–286
 Celebes Sea, 124B5:67–68
 Hovgård Ridge, 151A6:115
 Japan Basin, 127A5:176, 179; 6:253, 255–256;
 128A3:74
 Japan Sea E, 128A5:252
 Kita-Yamato Trough, 128A5:247
 maps, 192A1:37; 3:45; 4:30; 5:29; 6:33; 7:16
 Oki Ridge, 128A4:127, 133
 Oki Trough, 128A4:127
 Site 463, 143B28:421, 426–427
 Site 794, 127A4:81
 Site 866, 143B28:420, 426–427
 Sulu Sea, 124A12:300; 124B5:71
 Yamato Basin, 127A4:77; 7:330–331; 128A3:73; 4:127
 Yamato Rise, 128A5:247
- gravity anomalies, residual
 deformation, 186B1:8
 guyots, 143B28:425, 428
- gravity cores, sedimentation, 194B4:1–13
- gravity currents
 deposition, 161B7:95–96
 lithology, 202A7:10
- gravity flow deposits
 age distribution, 133A(1)16:700, 702
 Baffin Bay, 105B1:12, 16; 2:25; 4:56
 biostratigraphy, 210B13:24–25
 calcareous bioclasts, 126B15:233
 carbonates, 166A2:18
 Cenozoic, 123B41:788; 135B52:841
 clay, 190/196B4:10
 color-banded bedding, 127A7:349
 composition, 135B53:846
 core-log integration, 166A6:100, 104
 deposition, 126B4:87; 157A7:339–341; 178A9:8–9;
 178B25:4–6; 180A10:11–12; 188B14:12–13;
 192A4:9–10
 diamictites, 119B6:112
 dissolution, 101B17:249–250
 environment, 170A4:104
 forearcs, 135B11:168
 Georgia Rise NE, 114B2:28
 Izu-Bonin forearc, 126B41:612
 lithification, 101B17:249B
 lithofacies, 178A6:6–7
- lithology, 133B27:384–393; 135B7:111–113;
 149B45:690–691; 150A6:69–75; 163A5:53–54;
 165A5:242; 168A5:110; 178A4:8; 180A6:33; 7:8;
 182A1:22; 6:5–7; 190A6:8; 207A4:5–9; 208A6:6–
 10; 7:6–9; 210A1:14; 3:37–38, 42, 61–64
- Little Bahama Bank, 101B19:272
 magnetic properties, 133B39:570–571
 matrix strength, 101B12:183
 mechanism and conditions, 101B12:183; 126B4:91
 mud breccia, 160B46:600
 Neogene, 123A4:111–112
 Northeast Providence Channel, 101B17:245–252
 Oligocene, 126B4:94
 Pacific Ocean W, 124B34:462
 passive margins, 210B2:1–47
 photograph, 182A6:48; 207A4:41, 44; 5:49; 208A3:39;
 6:47; 210A1:67; 3:217, 219, 230
 postrift sedimentation, 210B1:29–31
 pumice deposition, 126B1:9–10
 recurrence intervals, 126B4:89–90
 sand, 150B11:201
 sedimentary succession, 166A10:304–305
 sedimentation, 157B13:184
 sediments, 133A(1)16:688
 seismic reflection profiling, 123B31:570, 578
 Site 790, 126B14:213
 Site 796, 127A6:247, 268, 315; 127/128B(1)7:100, 110
 Site 797, 127A7:347; 127/128B(1)7:100
 sources, 127A6:267
 Straits of Florida, 101B12:179
 Sumisu Rift, 126B14:228
 tectonic influence, 123B7:158
 ternary diagrams, 157B13:190
 thickness, 133A(1)16:694, 702; 157B13:186
 triggering processes, 126B4:90–91
 turbidites, 101B14:211; 160B51:687
 Upper Cretaceous and lower Tertiary, 149B45:695
 upper Miocene, 182A6:10–11
 volcanoclastics, 157B13:193–194
 vs. depth, 133A(1)16:691–692
See also debris flows; density flows; mass flow depos-
 its; mass transport deposits; mass wasting;
 slump deposits; turbidites; turbidity currents;
 unfite deposits
- gravity flow facies
 lithofacies, 161B2:28
 Pliocene–Pleistocene interval, 161B4:63
 sedimentary cover, 161B44:562
See also debris flows
- gravity gliding
 faults, 159B9:91
 photograph, 159B2:21–22
 sedimentation, 159B11:104
- gravity maps, satellite, mantle, 187B1:26
 gravity modeling, geology, 152B39:472–473
 gravity surveys
 location, 192A3:46; 4:31; 5:30; 6:34; 7:17
 maps, 178A2:36
 profile maps, 206A4:13, 25, 37, 49
 SCREECH transect 2, 210A5:1–36
- gravity tectonics. *See* tectonics, gravity

- gray clay layer. *See* clay, gray layers
- gray facies
 composite section, 188B12:15
 models, 188B12:13
 normalization, 188B12:20
 photograph, 188B12:11–12
- gray smokers, hydrothermal fields, 193A1:5–7
- gray value. *See* clay, gray layers
- graywacke
 dropstones, 145A3:45
 Galicia margin W, 103A9:223
 photograph, 173A4:76
 thrust sheets, 134B2:21, 28
- graywacke, arkosic
 petrography, 119B3:50–52; 45:797
 Site 740, 119B3:56
- green bands, diagenesis, 198A1:131
- green facies
 composite section, 188B12:15
 models, 188B12:13
 normalization, 188B12:20
 photograph, 188B12:11–12
- green grains
 clays, 159B43:593–594
 sediments, 159B43:593–594
 vs. depth, 159B43:590–591
 X-ray diffraction data, 159B43:595
- green layers, photograph, 177A4:32
- greenalite, Site 779, 125B19:358; 36:605
- greenhouse effect sequences
 Cretaceous, 174AXS_A(summary):9–10
 latest Maastrichtian, 174AXS_A(summary):11–12
- greenhouse forcing, oxygen isotopes, 207A1:8–11
- greenhouse mode, paleoclimatology, 177B(synthesis):5
- greenhouse warming
 biotic turnover, 207A1:6–8
 Late Cretaceous–Cenozoic interval, 189B1:4, 20
 lower Cenozoic, 199B1:2–3
 Paleocene/Eocene boundary, 199A1:5
 upper Eocene, 189A1:16, 30
 Valanginian, 198A1:15
- greenish red to green zone, oxidation halos, 168B10:130–131
- greenish to light gray zone, oxidation halos, 168B10:130–131
- greensand
 photograph, 152A11:208–209
 sedimentation, 152A13:281–282
- greenschist-amphibolite facies, alteration, 147B10:201–202
- greenschist facies
 absence of alteration, 118B17:319; 118B26:489
 alteration, 118B8:172; 21:381; 26:489, 491, 505; 137/140B24:279; 141B28:356–358; 147A3:71; 4:137; 147B15:305, 307; 153B21:389–398; 179A4:44; 187A1:11; 13:7–8; 187B5:8; 209A6:17, 95
 amphiboles, 180B3:8–9
 Atlantis Bank, 118B8:165
 basement, 173A1:13, 19
 breccia, 173A6:131–132; 7:193
 clasts, 173A7:189–190
 deformation, 147A3:74–76; 147B20:361
 faulting, 180A1:23–24; 3:6–7
 felsic veins, 118B26:504
 gabbros, 153B9:159–161; 209A3:19
 hydrothermal veins, 153B9:171–172
 lithology, 147A3:55–56; 180A5:8–9; 7:8; 8:14–16; 187A13:3–4; 195A3:14
 mafic rocks, 147B14:283–284
 meta-anorthosite, 173A6:131
 metadiabase, 180A1:14–15; 7:15; 8:19–20
 metamorphism, 147B10:203; 13:238–239; 173A6:136
 metasediments, 173A8:246–249
 mica schist, 180A7:12
 microfabric, 147B14:281–284
 mid-crustal levels, 147B28:472
 olivine gabbro cumulates, 147A1:9
 petrography, 147A1:11–12
 petrology, 152A7:80–81; 153A5:196; 173A7:215–217
 photograph, 153A3:53
 photomicrograph, 209A6:74–75]
 pressure-temperature conditions, 152B10:137–138; 41:520
 protoliths, 180A1:13
 shear zones, 209A6:23–24
 Site 699, 114A6:160
 Site 739, 119A11:453
 structures, 180A11:7–8
 talc, 180B(synthesis):17
 textures, 209A5:139
 variolitic basalt, 135A(1)11:644
 veins, 176B9:18–19
 See also metamorphic facies; subgreenschist facies
- greenstone, altered basalt, 135B40:653
- greigite
 alteration, 193A6:6
 anisotropy, 178B14:4
 coercivity, 146A(1)4:77; 164A7:191; 8:261; 164B38:403–404
 demagnetization, 204B18:5–7
 environmental magnetism, 155B14:252
 fault planes, 180A6:41
 genesis, 141B29:367
 hardpan, 155B13:246–247
 limestone, 133A(1)9:313
 magnetic properties, 130B31:535; 141B5:67–72, 74; 146A(1)5:163; 152B23:273; 201B17:4; 208A5:13
 magnetostratigraphy, 201B16:5
 magnetotactic bacteria, 182A1:20
 oxidation, 178B14:3
 photomicrograph, 180A6:129
 rock magnetism, 164A6:120–122; 186A4:32–35
 sediments, 141A10:361; 155B37:573; 41:672; 170A5:167
 Site 685, 112A17:606
 Site 688, 112A20:884
 veins, 180A6:143
- greigite, ferromagnetic, saturation remanence, 182A1:20
- greigite, superparamagnetic, sediments, 182A1:31
- Gresen's calculation, mass balance, 137/140B17:200–202
- greywacke. *See* graywacke

- GRIND. *See* ground rock interstitial normative determination
- grossular
 garnet composition, 161B19:267–268; 20:287
 veins, 153B30:524
 See also hydrogrossular
- ground rock interstitial normative determination, 139B22:429–438
- ground truth investigations, physical properties, 151B34:598
- ground water
 accretionary prisms, 156A1:4
 chemistry, 150X_B25:344–354
 lithology, 174AXS_A5:20–21
 advection, 172A6:288
- groundmass
 alteration, 127/128B(2)55:885–886; 187A1:9–10; 187B5:7
 basalt and diabase, 128A3:88–91
 basaltic basement, 127/128B(2)56:892
 basalts, 168A5:116–119; 187A1:9; 191A4:27; 192A7:7–8; 206A3:57–59
 chemical composition, 127/128B(2)55:886
 diabases, 140A2:54–55
 grain size, 187A9:5; 206A1:71–72; 3:162–163, 190–191
 lava ponds, 206B5:2–3
 lithology, 168A4:60–70; 187A3:5–7
 microcrysts, 193A5:5
 microphotograph, 127/128B(2)52:859
 petrography, 192A3:27; 200A4:29–36
 petrology, 193A6:4
 phases, 185A3:101
 photomicrograph, 169A3:100; 185A3:90–91; 192A3:94; 5:80; 193B2:16–17; 206B5:19–21
 pillow basalts, 168A6:170, 172–173; 187A4:3
 reequilibrium of spinel, 163B11:123–124
 textures, 206A3:58–59
 volcanic glass, 192A1:12; 5:83, 85; 193B2:5–8
 vs. depth, 163B13:152–153
- groundmass, carbonate, photomicrograph, 185A4:83
- groundmass, cryptocrystalline, photomicrograph, 169A6:271; 192A5:63
- groundmass, dendritic, photomicrograph, 192A5:61, 65
- groundmass, fine-grained, photomicrograph, 192A5:68
- groundmass, intersertal, photomicrograph, 187A5:13
- groundmass, microcrystalline, photomicrograph, 169A5:215
- groundmass, quartz-clay, photomicrograph, 193A4:127
- groundmass, quartz-illite, photomicrograph, 193A3:129, 162
- groundmass, siliceous, photomicrograph, 193A3:127
- groundmass, subtrachytic, photomicrograph, 183A6:125
- groundmass, subvariolic, photomicrograph, 192A5:77
- groundmass, titanomagnetite, photomicrograph, 183A6:128–129
- groundmass texture. *See* textures, groundmass
- growth bands, photograph, 158B15:197–199
- growth models, hydrothermal mounds, 158B28:405–406, 408
- growth rates, mineralization, 158B28:411
- growth strata, thrust folding, 204B2:19
- grunerite, lithology, 138A(1)10:199
- GST data. *See* geochemical spectral tool logs
- Guralp compressed format, instruments, 191A3:9–11, 51
- guyots
 basalt alteration, 144B28:475–491
 bathymetry, 143B29:434–437
 bioherms, 144A8:311
 biostratigraphy, 143B4:75–86; 144B1:3–20; 11:221–230
 carbonates, 134A11:333; 134B33:585; 143B9:126
 Cenozoic, 144B41:675–689
 collision zones, 134A1:11–12
 Cretaceous interval, 144B10:211–213
 Cretaceous–late Tertiary composition, 144B44:745–769
 dating, 134B6:89–95
 deposition, 144A5:159, 163–164; 144B18:361–380; 47:819–840
 development, 144A3:41–144; 144B16:311–335
 diagenesis, 134B8:112, 114–116, 119–120
 dredge samples, 143B30:477, 480–482
 drill hole data, 134A14:576; 143A2:16
 evolution, 143B31:532–533; 144A3:86, 88–89
 Formation MicroScanner imagery, 143B21:329–372
 geologic history, 144B45:769–787
 geomorphology, 144B14:274
 hardgrounds, 144B5:97–126
 interpretation, 143B31:497–535
 isotope geochemistry, 144B31:535–545
 lava petrology, 144B29:495–512
 magnetic properties, 144B36:615–630
 morphology, 143A6:118–120; 143B13:223
 Neogene, 144B3:61–85
 organic acid assemblages, 144B27:471
 origin and evolution, 144B53:935–949
 paleolatitude, 144B34:593–594
 pelagic caps, 144B2:21–59
 physiography, 144B33:561–583
 platform drowning, 143A1:7–8; 143B2:23
 sedimentation history, 143A7:203–207; 143B2:20–21
 stratigraphy, 143B5:89–97; 144B52:915–933
 strontium isotopes, 144B25:451–453
 structure, 143B28:421–425
 subduction, 134A2:22–24
 submergence, 134B3:47–57
 subsidence, 144A5:199; 144B7:148, 152
 surface topography, 144B48:864–867
 synthetic seismograms, 143B19:305–315
 transgressive phase, 144B51:895–913
 vertical motions, 143A2:26–28
 See also atolls; carbonate platforms; reefs; seamounts; volcanic islands
- gymnosperms
 biostratigraphy, 183A6:22
 palynomorphs, 188B2:4, 6; 3:5–9, 11
 pollen, 133B9:109; 10:116; 183B3:8
 See also Cupressaceae
- gypsarenite
 fibrous structure, 107B7:190
 photograph, 160A9:300

- Sardinian margin, 107B12:181
 gypsum
 alteration, 107B13:190; 139A7:498, 500–510;
 144B28:479–480, 484–487
 anhydrite relationship, 107B13:194–195
 carbonates, 107B13:189; 144B26:461–463
 clasts, 107B15:239
 Cornaglia Terrace, 107A9:612, 632
 correlation, 161B44:560
 crystals, 107B13:190; 14:213
 cycles, 107B14:215–216
 deposition, 160A8:224
 diagenesis, 107A10:761
 diagenetic facies, 107B13:189
 dissolution, 101B24:365–366; 161B32:414–416;
 182A4:32
 electron microscopy, 160B34:445
 Exuma Sound, 101A1:7–8
 flux, 161A4:83; 5:145
 Formation MicroScanner imagery, 160B38:496
 geology, 160A9:290; 160B36:459–460; 54:746
 heat flow contours, 139B36574
 indicators, 160A8:250; 9:311, 324–326
 Juan de Fuca Ridge, 139A2:20–31; 6:174–175;
 139B9:134
 laminations, 107A9:612
 lava flows, 163A5:55, 62
 lenticular crystals, 107A8:417; 9:612, 632;
 107B13:189, 194
 lithology, 160A4:59; 14:471, 474; 160B34:440;
 36:454; 161A5:125–126, 128, 131; 177A4:6;
 193A4:34; 204A4:9
 Little Bahama Bank, 101A1:7–8; 6:142, 152, 175, 197
 magnetic properties, 107B2:339
 maps, 139A7:441–442
 Messinian, 160A17:515–516; 160B36:458–462;
 38:491; 51:686; 161B33:425–426; 43:544–548
 Messinian–Pliocene interval, 160B36:458
 models, 139B44:704
 morphology, 107B13:194
 nongypsum laminae, 107B13:189
 organic matter, 107B13:190
 paleoclimatology, 184A1:6–7
 petrography, 107B13:194–195; 161B1:5–7
 photograph, 160A14:476–477, 483; 161A5:129–132;
 161B1:9–11; 165A6:329
 photomicrograph, 160B9:122; 161A5:131; 193A1:68;
 4:129; 195A4:92
 pore water, 161A7:322–323; 8:381; 9:405; 195A4:34–
 36
 precipitation, 107B38:649; 112B25:424
 recrystallization, 107B38:666
 reworking, 107B13:190, 206
 rubble, 169A4:168
 Sardinian margin, 107A8:417; 107B1:13
 secondary growth, 107A9:612
 sedimentology, 160B1:3–8; 29:366, 368; 54:774
 sediments, 139B8:115–116; 146B(2)16:225
 seismic stratigraphy, 107A10:780
 siliciclastics, 189B11:3–6
 Site 855, 139A5:109, 144–145
 Site 856, 139A6:255–259
 Site 857, 139A7:296, 368–369
 Site 858, 139A7:528–532
 Straits of Florida, 101A1:8
 strontium/calcium ratio, 160A8:263
 structural data, 160A14:483
 succession, 107B38:650
 Sulu Sea, 124A11:222–223, 274
 supersaturation, 121A11:335, 399; 121B22:448
 surficial alteration, 107B13:190
 veins, 163A3:28
 velocity, 107A10:772
 vent fields, 139A2:40
 volcaniclastics, 134B9:133–144
 vs. age, 189B11:9–12
 vs. depth, 139B44:707; 197A4:40
 vs. two-way traveltime, 139A2:34–35
 X-ray diffraction data, 195A4:16–17
 See also selenite
 gypsum, alabastrine
 photograph, 160A9:300
 Sardinian margin, 107A10:761; 107B12:181
 gypsum, authigenic, formation, 160B29:368–370
 gypsum, balatino-type
 Cornaglia Terrace, 107A9:632–633; 107B31:505
 cyclicality, 107A10:759
 deposition, 107B38:647, 649
 genesis, 107B13:189
 layers, 107B38:649
 magnetic properties, 107B8:117–118, 122
 mineralogy, 107B13:188–189
 petrography, 107B13:188–189
 reversed magnetic polarity, 107B21:339
 Sardinian margin, 107A10:754, 761, 785; 107B13:181;
 38:664
 gypsum, crenulated, photograph, 161B1:11
 gypsum, detrital, photomicrograph, 161B1:20
 gypsum, laminated
 petrography, 161B1:5–7
 photograph, 161A5:129–130; 161B1:10
 Sardinian margin, 107B38:649
 gypsum, lenticular, photomicrograph, 161B1:19
 gypsum, nodular, photograph, 161A5:129–130
 gypsum, pinch-and-swell
 petrography, 161B1:7
 photograph, 161B1:13
 photomicrograph, 161B1:20
 gypsum, regular-laminated, 107B13:203–204
 gypsum, selenitic
 Cornaglia Terrace, 107B13:189
 Sardinian margin, 107A10:762
 gypsum, wavy-laminated
 formation, 107B13:189
 Sardinian margin, 107B13:205
 gypsum-anhydrite series
 Cornaglia Terrace marine origin, 107B13:198
 stable isotopes, 107B13:193
 gypsum crystals, photomicrograph, 161B1:19
 gypsum cycle, lithofacies, 161A5:133; 161B1:12–14, 16–
 17
 gypsum matrix, photomicrograph, 193A4:105

gyre centers, Cenozoic, 144B41:688
gyre-margin/slope-water assemblage, 164B34:357–358
gyres
 circulation, 161A1:13–14
 faunal assemblages, 164B34:357–362
 oceanic circulation, 151A1:16–17
 Pliocene, 164B33:339
Gyrolithes, lithology, 181A6:7, 9, 12
Gyrospeumonaceae
 pollen, 133B10:116
 Sites 815 and 823, 133B10:116
 photomicrograph, 180B10:29

H

haapalite, breccia, 173B2:1–9
habit
 botryoidal, 168A4:76
 euhedral, 168B10:121
 globular, 168A4:75–76
habitability, seafloor sediments, 205B8:1–26
habitats
 diatoms, 172B8:35
 paleoecology, 167B17:220–222
 planktonic foraminifers, 154B29:443–444
 pollen, 133B10:116
 See also paleoecology
Hadley Cell, circulation evolution, 108A5:328
haematite. *See* hematite
hafnium
 andesites, 135B25:451
 basalts, 192B1:5
 calcite-free data, 119B39:728–729
 chondrite-normalized composition, 136B9:112
 diabases, 180B1:4
 gabbros, 153B17:341–342
 igneous rocks, 205B9:9–11
 Kerguelen Plateau central, 120B(1)3:58
 metasedimentary rocks, 152B10:136–137
 mineral separates, 158B2:32
 mobility during alteration, 127/128B(2)58:911
 Paleocene/Eocene boundary, 199B16:3
 percent change from protolith, 137/140B17:203
 saponite, 168B12:154
 scandium-normalized distribution, 119B39:725, 726
 Site 795, 127/128B(1)41:707
 Site 798, 127/128B(2)86:1368–1369
 Site 799, 127/128B(1)42:724
 vs. depth, 148B37:464; 164B15:161; 206B6:6
 vs. distance, 187B3:17
 vs. lead isotopes, 187B3:19
 vs. loss on ignition, 148B10:141
 vs. silica, 151B19:360
 See also cobalt/hafnium ratio; zirconium-hafnium enrichment; zirconium/hafnium ratio
hafnium isotopes
 depth anomalies, 187B3:6–7
 mantle domains, 187B1:13, 38
 volcanism, 197B1:16
 vs. lead isotopes, 187B1:33
 vs. neodymium isotopes, 187B1:34

 vs. seamount age, 197B1:39
hafnium/lanthanum ratio
 basalts, 129B19:387
 vs. samarium/lanthanum ratio, 121B32:642, 644
hafnium/lutetium ratio
 basalts, 152B40:493
 geochemical signals, 187B1:18–19
 vs. depth, 152B31:378
 vs. lanthanum/samarium ratio, 152B31:382
hafnium/samarium ratio, lava, 135B24:410
hafnium/tantalum ratio
 vs. lanthanum/samarium ratio, 205B1:11–12; 9:30–31
 vs. magnesium number, 205B9:26–27
 vs. yttrium/zirconium ratio, 142B2:13
hafnium/thorium ratio
 basalts, 129B18:374; 19:386
 vs. depth, 148B37:464
hafnium-thorium-tantalum diagram
 basalts, 210B9:61
 normalized mid-ocean-ridge basalts, 129B18:349
half-grabens, Site 747, 120B(2)47:885
halides
 pore water, 169B1:1–4
 See also halite
Halimeda
 abundance in carbonates, 144B6:130
 gravity deposits, 133B27:405
 lithology, 133A(1)14:574–575; 166A6:77–82; 7:156;
 8:177; 10:295, 299; 11:352, 354–355; 180A6:9;
 194A7:6, 14
 mounds, 133A(1)13:513, 516, 518
 paleoenvironment, 194B2:9–10
 photograph, 166A7:158; 11:351; 194A7:74
 photomicrograph, 194A7:49
 rudstone, 133A(1)14:579
 tropical environment, 133A(1)14:578
 Vanuatu, 134A11:327
halite
 clasts, 160A12:431; 160B47:613; 50:669
 dissolution, 134B8:116; 153B22:408; 161A6:235;
 182A1:27, 32
 fluid inclusions, 147B11:218–219; 153B22:405–406
 fluxes, 161A4:83; 5:145
 halos, 145B25:392
 Hatteras Formation “black shales,” 113B15:194
 mud matrix, 160B45:587–588
 paleoclimatology, 184A1:6–7
 peak areas and heights, 113B3:29
 photograph, 153A3:91; 160A12:429
 photomicrograph, 179A4:121
 Pisco Basin W, 112B25:424
 pore water, 161A8:378; 9:405
 precipitation, 112B25:424; 162A4:116
 rubble, 169A4:168
 Salaverry Basin, 112B25:424
 Sardinian margin, 107B13:195
 sediments, 160B45:581; 172B5:4
 Trujillo Basin, 112B25:424
 volcanic ash, 131A6:173–184
 vs. depth, 186A4:93; 195A3:76–78

- X-ray diffraction data, 113B3:31; 129B1:12–15;
172B5:21; 185A4:66, 71, 79, 92
See also evaporites; salt
- halite-water system, pressure vs. temperature,
153B22:412
- halloysite
lithology, 193A3:30
photograph, 150X_B4:57
photomicrograph, 193A3:161
Pigafetta Basin, 129B1:13
sediments, 150X_B4:50
transmission electron microscope data, 129B1:29
See also clay mineralogy
- halmyrolysis
halos, 192A6:18; 192B6:5
low-temperature alteration, 192A3:30
- halogens
geochemical cycling, 195B6:1–23
hydrated minerals, 118B9:208
pore water, 195B5:17; 204B14:1–25
serpentinites, 195B6:8–10
- Halomonas boliviensis*, cultivation, 201B3:5
- Halomonas* spp.
cultured isolates, 201B1:16; 2:9
microbial community, 201B3:6–9
- halos
alteration, 123A4:105, 183, 185, 190, 193, 196–197;
123B1:15; 9:196–197; 185A1:25–26, 29–31;
3:26–27; 4:25–26; 187A1:9–10; 6:5–6; 7:5–8; 8:8;
11:7–10; 12:8–9; 14:5; 15:8–9; 192A1:20–21;
3:29–32; 4:19; 6:18
atacamite, 145B25:391–392
basalts, 187A10:3–4; 191A4:29; 200A4:28–30
chemical composition, 185A3:126–127
iron oxide, 200B2:13
lithology, 167A(1)15:436–438; 187A7:4–5; 192A1:16
petrography, 187A15:6–7; 200A4:33–36
photograph, 166A10:304; 167A(1)15:438; 169A3:88,
92; 5:218; 185A3:113, 115; 4:110; 187A1:40;
5:14; 7:17, 20, 23; 8:19, 39; 10:12; 11:20, 22, 26,
30; 12:29, 38; 14:18–24; 200A4:97, 100, 103;
207A6:44
photomicrograph, 185A4:84; 187A1:37; 7:26; 11:28;
12:27; 187B1:27; 5:19; 192A5:86
pillow basalts, 187A5:3–4
Site 744, 119A13:484; 119B44:771–772
Site 745, 119A14:510
Site 780, 125A8:164
Site 783, 125A11:263
Site 784, 125A12:291
veins, 176A3:29, 42
vs. depth, 185A1:48, 54; 3:122; 4:111
See also Liesegang reduction halos; redox patches
- halos, black
alteration, 192A3:30; 7:9
lithology, 192A1:13
normal gray basalt, 192A6:19
photomicrograph, 192A3:115, 117–118
- halos, brown
alteration, 192A6:18; 192B6:4–5
photograph, 192A7:41
photomicrograph, 192A5:93; 6:79; 7:43
halos, concentric, photograph, 187A1:36; 3:20
halos, dusky green
alteration, 192A6:18; 7:9; 192B6:4
photomicrograph, 192A6:76–78
halos, green, alteration, 192A6:18
halos, olive
alteration, 192A3:30; 192B6:4–5
photograph, 192A5:84, 94
photomicrograph, 192A3:120
halos, yellow-brown, photomicrograph, 192A5:77, 79–
80, 88
- hammer-drilling system
casing, 179A4:2–4, 80–86
drilling, 179A1:2–3; 4:1–183
objectives, 179A4:4–5, 28–29, 165–178
photograph, 179A4:87–92
testing, 191A5:6–7
- Hamilton Frame data, compressional wave velocity,
144A3:87; 4:139; 5:195; 6:244; 7:282; 8:310;
10:377; 11:436
- hanging wall
hydraulic conductivity, 146B(1)17:283–289
rift basins, 180A1:17–21
structural analysis, 146B(1)13:219–220
- hanging-wall margins
continental crust, 180B3:3
textures, 180B3:4–5
- Haplophragmoides* acme correlation level, 129B13:248
- haptophyte algae
concentration, 175B10:30
lower Aptian, 198A9:3–4
paleoproductivity, 167B10:158–160
sediments, 167B12:186; 175B5:8–9; 184B18:5
See also Lapideacassaceae
- hard rock guidebase (HRGB)
assembly and deployment, 118A2:28–30
hard rock reentry system, 191A1:7–8; 5:5–47
mechanical design evacuation, 118A2:30–31
- hardgrounds
age models, 194A5:15–16
alteration, 166A3:34, 39–40
anhysteretic remanent/isothermal remanent magneti-
zation, 194A5:61
Cenozoic, 194A3:7
Coniacian–Eocene interval, 159B12:117–119
deposition, 159B8:73; 166A2:16
geochemistry, 194A9:18
image facies, 166B7:81–82
lithology, 152A11:198, 204–205; 152B4:46;
159A6:164; 166A6:82; 9:238–241; 10:295–296;
11:350–355; 182A1:9–10, 34; 10:10;
171B_A3:55; 4:100–112; 5:246, 250; 194A4:10–
11; 5:4, 6; 8:9
marine omission surfaces, 133B25:360
paleomagnetism, 159B20:204
photograph, 166B4:355; 181A4:30; 10:43, 45;
171B_A3:57; 4:104, 110, 112; 5:251; 192A3:61;
5:38; 9:31, 34
photomicrograph, 194A5:39, 41
sediments, 166A8:192

- Site 747, 120A6:98
 subsidence, 152A13:282–283
 upper slope, 166A8:205
 X-ray diffraction data, 194A5:18
See also firmgrounds
- hardgrounds, glauconitic
 Albian, 159A9:307
 photograph, 152A11:202–203; 159A8:265
- hardgrounds, iron-manganese, photograph, 144A3:53
- hardgrounds, iron-phosphate, sediments, 171B_A4:107
- hardgrounds, manganese-encrusted
 Cretaceous and Paleogene, 144B5:97–126
 genesis, 144B22:419–428
 photograph, 144B22:426; 152A11:207
 well-logging, 144B17:348–349
- hardgrounds, phosphatic
 Coniacian–Santonian interval, 159A5:81; 9:306–307
 laminated crust, 133A(1)5:144, 147
 lithology, 171B_A4:116–118
 origin, 133B36:525–534
 photograph, 159A5:84–85; 201A10:37
 pore water, 133B31:479
 strontium isotopes, 133B33:496
- hardgrounds, submarine ferromanganese, origin and age, 194B8:1–22
- hardness
 basalts, 137/140B31:347–348
 vs. abrasion loss of weight, 137/140B31:349
 vs. compressional velocity, 137/140B31:349
 vs. dry bulk density, 137/140B31:349
 vs. uniaxial compressive strength, 137/140B31:350
See also shore scleroscope method
- hardness, magnetic, remanent magnetization, 137/140B23:269
- hardpan, Amachron, 155B13:245
- harmonic variance, terrigenous river input, 175A3:53
- harmotome, volcanics, 127/128B(2)87:1377–1378, 1393
- harzburgite/gabbro contact, photograph, 209A9:59
- harzburgites
 AFM diagram, 153B10:210
 alteration, 147A4:131; 147B14:257–261, 289; 15:293; 209A3:68, 72; 5:11–12, 15–16; 6:12, 16–17
 aluminum oxide/silica vs. magnesium oxide/silica, 153B10:213
 composition, 106/109B4:36–37; 147B6:119–121
 cumulative curved thickness, 147A4:128
 deformation, 125A12:278; 147A4:138–139; 147B20:367–369; 209A7:13
 electron microprobe data, 209B2:1–13
 enstatite, 147B6:118
 faulting, 106/109A8:217; 147B8:168
 Formation MicroScanner imagery, 209A7:88
 geochemistry, 125A15:280; 147A4:144
 heterogeneity, 173A7:212, 215–217
 igneous contacts, 147A4:126–127
 lattice fabrics, 153B2:23–28
 lithology, 147B16:117; 153B10:186–198; 209A3:4–6; 5:4–9; 6:4–5; 7:3–4; 9:2–7; 10:4–10; 210A1:23
 magmas, 135B55:898–899
 magnetic susceptibility, 147B24:409–411
 magnetite, 106/109A8:270
 melting, 125B27:456; 38:646; 153B10:211, 214
 metamorphic minerals, 125B26:438
 metamorphic veins, 209A5:16–17
 Mid-Atlantic Ridge, 106/109A8:206–207
 mineralogy, 125A5:75; 11:257; 15:368
 modal analyses, 147B6:105
 origin, 147B7:147
 oxides vs. depth, 153B10:212
 oxygen isotopes, 153B26:464–468; 147B16:312
 petrography, 125B27:449; 147B6:111–114; 7:136; 8:158–160; 209B4:3
 petrology, 125A11:267; 147A1:13; 4:114–122, 127; 153B1:14–16
 photograph, 147A4:135, 138–139; 147B7:154–155; 15:296; 153A3:56, 87; 153B1:15; 11:248; 20:384; 29:520–521; 195A3:90; 209A1:117; 3:83, 102, 107, 127–130; 5:54, 69, 74, 95, 110; 7:44–47, 77; 9:36–38, 78–79
 photomicrograph, 195A3:80; 209A5:56–59, 75, 130–131, 145; 6:81; 7:82; 9:69–71
 plagioclases, 173A1:10, 12
 platinum-group elements, 147B4:84
 positive europium anomaly, 125B28:491
 proportions, 209A1:98
 replacement, 153B12:266
 rift valleys, 147A1:7, 9
 serpentines, 195A1:13; 195B1:9–10
 Site 778, 125A6:102
 Site 779, 125A7:121, 128
 Site 780, 125A8:153–154; 125B19:349
 Site 783, 125A11:256–257
 Site 784, 125A12:278–279; 125B19:354; 33:576–577
 size, 106/109B4:29
 sulfides, 147B5:93
 supra-subduction zone ophiolites, 125B28:501, 505
 textures, 106/109B4:29; 147B19:349, 351; 209A7:5–6
 thin section sketch, 147A4:136
 trace elements, 125A11:258
 veins, 147A4:133–136
 websterite, 153B16:321–331
See also dunites; peridotites
- harzburgites, basement, photograph, 209A7:76
- harzburgites, coarse-grained, photograph, 195A3:82
- harzburgites, depleted, photograph, 153A3:54
- harzburgites, metamorphic, primary minerals, 147A4:128–129
- harzburgites, mylonitic, photograph, 153A3:94; 153B11:248; 209A9:38
- harzburgites, orthopyroxene-rich, lithology, 209A5:4
- harzburgites, plagioclase-free, occurrence, 103B17:255
- harzburgites, porphyroclastic
 alteration, 153A3:73–75
 photograph, 153A3:83
- harzburgites, protogranular, photograph, 209A3:101; 7:80
- harzburgites, protomylonitic, photomicrograph, 209A5:130
- harzburgites, residual
 photograph, 153A3:84
 trace elements, 209B1:31
 uranium, 209B1:32

- harzburgites, serpentized
 Atlantis II Fracture Zone, 118A3:53–54
 Bonin-Mariana region, 125A11:257, 263; 125B26:438
 density vs. serpentized fraction, 153B25:447
 dikelets, 153B11:249
 hydrothermal alteration, 153A3:75–76
 lithology, 210B9:5–6
 mesoscopic character, 153B2:33–34
 petrography, 147A1:11–12
 petrology, 153A3:48–62; 209A8:2–3
 photograph, 153A3:51–55, 58–60, 64, 70–72, 81–84,
 87, 92–94, 97, 100, 105; 153B3:39; 11:245, 248;
 209A1:86–87; 3:73, 76, 82, 84; 5:78–79, 89–90,
 96–101, 107, 142; 9:61, 64
 photomicrograph, 209A3:74–75, 99; 5:79; 8:9; 9:61,
 77
 tectonic models, 210B9:25–26
 X-ray diffraction data, 209A9:61
- harzburgites, serpentized and tectonized, 195A3:16–17
- harzburgites, serpentized brecciated, 210B9:46
- harzburgites, serpentized “popcorn,” 209A5:104
- harzburgites, serpentized spinel, 210B1:14–15
- harzburgites, soft clayey serpentized, 209A7:8–9
- harzburgites, spinel
 chromium number, 153B12:273
 magnesium number, 153B12:269–270, 272
 nickel oxide vs. forsterite, 153B12:269, 273
 photograph, 149B21:379
- harzburgites–dunitites transition, photograph, 195A3:81
- Haslea* sp., sediments, 175B10:13
- hastingsite, sand fraction, 157B17:302
- Haumurian, foraminifers, 181A8:19–20
- Hauterivian
 age vs. depth, 198A10:23
 biostratigraphy, 129B10:205; 11:221; 143B32:547;
 185A4:21; 185B5:4–5; 6:3–6
 carbonates, 143B9:126
 deposition, 171B_A6:260
 lithology, 129B14:268; 149A4:59–62; 198A9:11; 10:5–
 9
 open-marine environment, 143B10:140–141
 paleolatitude, 171B_A1:9
 plate tectonics, 149B1:4
 quartz-potassium feldspar-plagioclase system,
 210B2:29
 rifting, 149B1:9–11; 210B1:8
 sedimentation rates, 185A1:53
 Site 800, 129A2:33
 stratigraphy, 143B6:100
 subtidal to supratidal environment, 143B10:141, 147–
 148
 synrift sedimentation, 210B1:25–27
 tectonics, 149B25:439
 unconformities, 185B5:5
 Unitary Association zones, 198A9:24
See also Valanginian/Hauterivian boundary
- Hauterivian, lower, biostratigraphy, 198B7:8
- Hauterivian, upper
 lithology, 185A4:15–16
 nannofossils, 198B7:8–9
- Hauterivian–Albian interval, correlation, 198B1:38
- Hauterivian/Barremian boundary
 radiometric ages, 143B17:282
 Site 766, 123A5:299; 123B38:735
 stratigraphy, 143B8:111
- Hauterivian–Barremian interval, sediments, 198A9:4
- hayne
 geochemistry, 157B18:316, 318
 geochronology, 157B11:134, 137
 photomicrograph, 157A8:416
 Site 766, 123A5:284
- hawaiite cobbles. *See* cobbles, hawaiiite
- hawaiiites
 basalts, 144B29:497–502
 eruptive setting, 129B19:379
 genesis, 143B16:269–270
 hyaloclastite, 143B16:268
 lava, 197A5:16
 Meteor Rise, 114B1:7
 Northeast Georgia Rise, 114B2:23, 37
 petrography, 144A10:369
 photograph, 197A1:60; 5:43
 volcanic substrate, 144B53:942
- Haweran
 biostratigraphy, 181A4:10
 Site 1124, 181A8:19
 Site 1125, 181A9:12, 14
- headspace gases. *See* gases, headspace
- heat advection, deformation, 190/196B1:4
- heat capacity, vs. temperature, 148B31:399
- heat flow
 accretionary systems, 141B29:363–364; 146A(1)9:395;
 10:402, 405–406; 156B18:240–241
 acoustic basement, 149B44:675–682
 across different intervals, 133A(1)13:550
 active mounds, 158A2:19–20, 23–29; 158B22:307
 advection, 141B29:367; 202B1:5
 anomalies, 116A1:5, 7, 9–10; 7:208–210; 116B22:268–
 269; 170A1:10–11
 asthenospheric temperatures, 105B49:929–930
 Atlantic Ocean, 152A11:249–251
 authigenesis, 190/196B6:12
 Barbados Ridge, 110A1:24; 4:120–123; 6:344–348,
 363; 7:428–434; 9:533–534, 539–542; 10:591;
 110B1:5; 10:591; 23:363
 basalts, 123B27:519; 168A4:95–96
 basement, 168A1:11–12; 4:51–52, 99; 5:158; 6:198
 Bengal Fan, 116A3:74, 78, 80–81, 87–88; 6:177–181;
 7:208–210; 116B7:78, 80–81; 8:99, 102–112;
 9:117–118; 10:129–132; 22:266; 28:347–348,
 350–358
 biomarkers, 151B23:412
 bottom-simulating reflectors, 127/128B(2)73:1148,
 1154; 141B19:253–258; 146A(1)10:406
 Broken Ridge, 121A6:143–144; 7:171; 13:498–499,
 506
 Bullard plot, 123B27:517–519; 168A4:99; 5:157
 calculated curves, 131A6:244; 131B5:62–63
 Celebes Sea, 124A10:179; 124B5:65
 clay mineralogy, 107B11:161, 163
 conduction, 102A3:137; 158A3:23–29
 contours, 161A7:346; 9:419

cooling models, 105B49:927–928
 core conductivities vs. depth, 105B49:928
 Cornaglia Terrace, 107A9:623–628, 633–635, 637
 Costa Rica Rift, 111A3:37; 4:265, 292; 111B2:26–28, 31; 8:89–95
 crustal radiogenic heat, 127/128B(2)81:1302–1303
 decrease with depth, 107A11:896
 deformation, 160A8:242; 171A_B3:7; 186B1:8; 205A1:49; 205B1:4
 depth anomaly, 105B49:928–929; 52:1004–1005, 1007
 diagenesis, 124B31:427–428
 distribution, 105B48:902; 112B44:658–660
 drilling objectives, 149A1:9–10
 elevated values, 105B48:906; 49:923
 evaporites, 160A10:366–367
 extensional basins, 161A1:10
 extrapolated temperatures, 105B49:928–929
 fault zones, 116B28:346–347
 fluid flow, 123B27:520; 127/128B(2)73:1148; 131B37:475–486
 fracture zones, 148B35:437
 gas hydrates, 141B20:272; 146B(1)19:302–306
 geology, 169A1:12, 14
 geothermal gradient, 107A6:163; 164A6:146; 7:219–220
 Gortani Ridge, 107A11:895–896, 899, 901–903
 helium isotopes, 127/128B(1)44:747
 Horizon A^c, 102B1:6–9, 10, 12–14; 2:24
 Horizon Beta, 102B1:6–7, 9–10, 12
 Horizon Red, 102B1:9–11, 15; 2:24
 Hydrate Ridge S, 204B1:15–16
 illite-smectite reaction, 190/196B6:9–10
 Indus Fan, 117A7:151
 intersite correlation, 107B33:541
 Japan Basin, 127A5:174, 6:252–253; 127/128B(2)81:1302; 83:1345; 128A3:71–74; 5:246
 Japan Sea, 127A1:26–27; 127/128B(2)81:1297–1298, 1301–1304; 87:1375; 128A1:14
 Kita-Oki Bank, 128A4:127, 131
 Kita-Yamato Trough, 128A5:246
 Labrador Sea, 105B48:894, 900, 903
 Lau Basin, 112A11:190–191; 12:273; 19:830–831; 112B44:657, 660; 135A(1)1:44; 4:95–96
 lithosphere, 116B28:355–357; 127/128B(2)81:1304–1305
 locations along seismic section, 149B44:681
 Marsili Basin, 107A6:135, 155, 163, 165–167
 Maud Rise, 113B2:17, 24
 measurement, 102A3:97–98
 Messinian, 107B1:13
 metagabbro, 149B47:721
 Meteor Rise, 114B3:39–45
 middle trench slope, 141A8:292
 models, 116B28:350–358
 negative anomaly, 107A11:895
 ocean basins, 146A(1)1:6–7
 oceanic crust, 137/140B28:321–324
 Oki Ridge, 127/128B(2)81:1302; 128A4:125, 131
 Oki Trough, 128A4:131

Okushiri Ridge, 127A1:30; 6:300–301; 127/128B(2)81:1303, 1307
 Oman continental margin, 117A7:151
 opal-A/opal-CT transition, 127/128B73:1147–1148, 1150, 1156
 organic matter, 141B9:119–132
 Owen Ridge, 117A7:151
 permeability, 116B28:353–356
 Peru margin, 112A2:43; 112B44:653–660
 Pisco Basin W, 112A12:273; 18:732–734; 112B44:657
 plate tectonics, 205A1:10–11
 Pliocene–Quaternary interval, 107A9:608
 Rockall Plateau, 105B52:1005, 1007
 Salaverry Basin, 112A12:272–273; 13:325, 327; 112B44:657
 Sardinian margin, 107A8:452–454; 10:782–783; 107B1:24; 13:193
 seafloor data, 146A(1)10:406
 sediment models, 129B7:171
 sedimentation rates, 105B49:929; 127/128B(2)73:1147–1148; 81:1302
 sediments, 131A7:280; 131B5:57; 28:355; 37:457–458; 133A(1)13:531; 151A8:247; 154A5:195, 202; 162A3:84; 6:199–201; 9:317; 10:365; 164A9:312–313; 166A6:105; 7:166; 8:202; 9:260; 10:324; 11:368–369; 166B10:116; 167A(1)4:77; 5:108; 6:147; 7:169; 8:195; 10:263; 11:298; 12:333; 13:370; 14:410; 15:451; 16:477; 168A6:180; 170A3:86; 4:149, 151; 5:182; 171B_A5:232; 172A5:235; 6:293; 177A3:15; 4:20; 8:19–20; 9:16; 181A8:35; 9:22; 184A4:26; 5:22; 6:17; 7:22; 9:26; 186A1:11; 188A3:188; 5:30–31, 95; 189A3:46–47; 5:51; 6:55–56; 7:47; 191A4:38; 195A3:170; 198A5:32; 199A11:31; 12:32; 13:28
 seismic data, 135A(1)1:9; 168A4:52; 178A2:19–20
 serpentines, 195A1:13
 silica diagenesis, 121B13:266
 Site 102, 102A3:418, 146–147
 Site 504, 137A2:46–47
 Site 682, 112A14:396–397
 Site 685, 112A17:637–641; 112B25:435–436; 44:657
 Site 688, 112A20:927–928; 112B44:657
 Site 695, 113B2:17–20, 25
 Site 696, 113B2:20–21
 Site 709, 115A7:489–490, 493
 Site 736, 119A5:153, 156
 Site 737, 119A6:198
 Site 744, 119A13:499
 Site 747, 120A6:126, 150
 Site 748, 120A7:218, 228–229
 Site 752, 121A6:143–144
 Site 765, 123A4:241–244; 123B27:515–521
 Site 766, 123A5:342
 Site 780, 125A8:174
 Site 782, 125A10:221
 Site 794, 127A4:73, 137
 Site 795, 127A5:174, 230–232
 Site 796, 127A6:247, 251, 299–300, 314
 Site 797, 127A7:325, 390
 Site 798, 128A4:125, 213–214

- Site 799, 128A5:338, 365
 Site 808, 131A6:203–213
 Site 831, 134A11:354
 Site 832, 134A12:433, 435
 Site 833, 134A13:525–526
 Site 888, 146A(1)4:95
 Site 948, 156A6:164–167
 Site 949, 156A7:244–246
 Site 968, 160A9:317–320
 Site 969, 160A10:373–374
 Site 972, 160A13:461
 Site 976, 161A6:277
 Site 1051, 171B_A5:216–217
 Site 1053, 171B_A7:339
 Sites 889–890, 146A(1)5:198–199; 10:410
 sources, 127A6:251
 stress, 135B48:792, 794
 strontium isotopes, 138B41:815
 Sulu Sea, 124B5:70–71
 summary, 204B1:39; 9:7–10, 26; 206A1:26; 3:366
 temperature, 105B49:925–928; 131A6:139;
 134A9:228–229; 146A(1)7:354; 168B4:47
 thermal conductivity, 105B48:903, 906; 49:926;
 123A3:56; 141B29:363–372; 170B4:5–6
 thermal models, 131A6:210; 141B20:259; 166B10:119
 Tiburon Rise N, 110A10:591; 110B23:363
 topography effect, 127A5:300
 Trujillo Basin, 112A16:561; 112B44:657
 Tyrrhenian Sea, 107A2:14, 16; 7:296, 323–325
 underlying mechanisms, 116A1:7
 Vancouver Island margin, 146A(1)10:412–414
 variations, 135A(1)1:41; 149B44:682
 vs. basement age, 127/128B(2)81:1305
 vs. basement depth, 105B49:930
 vs. crustal age, 135B48:794
 vs. deformation front, 170A1:14; 204B9:24
 vs. depth, 134A9:243; 135A(1)5:237; 7:334; 137/
 140B28:323; 146A(1)10:401; 146B(1)19:305;
 148B20:291–296; 189A6:114; 206A1:70; 3:160;
 3:49–50
 vs. distance from ridge axis, 168A1:11; 2:33; 4:99
 vs. distance from toe, 141B20:274
 vs. opal-A/opal-CT bottom simulating reflector two-
 way traveltime, 127/128B(2)73:1152–1153
 vs. temperature, 135A(1)8:381; 9:460
 water sampling temperature probe (WSTP) data,
 135A(1)4:163
 Yamato Basin, 127A4:73, 82; 7:330, 332; 127/
 128B(2)73:1147–1148, 1150; 81:1302; 83:1345;
 128A3:71–73, 75; 4:127, 138; 5:246, 250
 Yamato Rise, 127/128B(2)81:1302–1303; 128A5:246,
 250
 Yaquina Basin, 112A15:472, 474; 112B44:657
See also conduction; deformation; fluid flow; geother-
 mal gradient; radiogenic heat; temperature;
 thermal conductivity; thermal structure
- heat flow, geothermal
 sediments, 178A5:25–26; 7:20
 split cores, 178A8:18–19
 heat flow, radiogenic, basement, 173B3:1–4
- heat flow, seafloor, FrankFlux studies, 168A2:23–33
 heat flow maps, Galapagos spreading center, 148A3:127
 heat flux
 alteration, 186B9:7
 Atlantis Bank, 118B20:350–351
 long-term measurements, 205B12:4–6, 9
 ocean temperature warming, 118B20:354
 heat sources, fluid circulation, 159B6:51–52
 heat transfer
 convection, 137/140B28:323
 hydrothermal systems, 147B10:205, 207
 massive sulfides, 158B24:332–334
 models, 201B21:11; 204B23:15
 ocean circulation, 175A1:11, 13
 Site 504, 137A2:46–47
 heat transport
 gateway opening, 207A1:13–14
 sills, 139B35:568–569
 heath, palynomorphs, 188B3:12
 heating
 frictional, 127A6:247
 hydrothermal circulation, 159B5:46
 incremented mineral separates, 129B20:394–397
 heave, acceleration, 191A4:119
 heave-compensation hardware systems
 Celebes and Sulu seas, 124E_A2:19–22; 11:65–67
 experiment, 196A3:85–86
 Lamont-Doherty Geophysical Observatory wireline
 logging tools (LDGO), 124E_A17:107, 109
 Westech, 124E_A2:32
 heavy minerals
 associations, 174A_B6:2–4
 exotic sandstone, 157B12:168–169
 heavy minerals/light minerals ratio, 136B7:91
 heavy rare earth elemental ratios, 127/128B(1)39:693;
 42:730–732
 lithology, 150B22:391; 171B_A4:114–116; 6:258;
 174AXS_A6:19–20; 174AXS_A3:22–23
 photograph, 157B12:177; 171B_A6:257
 provenance, 155B7:154, 156
 rare earths, 127/128B(1)39:691
 sand, 146B(1)2:34–37, 40–42
 scatter plots, 207B8:20, 22
 sediments, 141B7:97, 102; 150X_B7:75–79;
 174A_B(synopsis):10; 6:1–11; 174AXS_A7:12
 vs. depth, 150X_B7:76
See also individual minerals
- heazlewoodite
 breccia clasts and matrix, 173A7:195
 iron-nickel-sulfur-oxygen system, 209A3:97
 hectorite, Site 778, 125B19:354
 Hedbergellidae, Site 766, 123B14:282
 hedenbergite
 composition, 135B3:39
 hydrothermal veins, 153B30:525
 quadrilateral plot, 179B(synthesis):86
See also diopside-enstatite-ferrosilite-hedenbergite sy-
 stem
- Heinrich events
 core-log integration, 186B15:9–10
 millennial-scale climate change, 202A1:33–37

- oxygen isotopes, 155B17:316
Helicobacter pylori. See coccoid cells
Helicodromites?, lithology, 210A3:22–25
 helicoliths
 Indian Ocean W equatorial, 115B15:217
 Pacific Ocean E, 138B12:280
 helioliths, nannofossils, 207A6:14
 helium
 hydrothermal fields, 193A1:6–7
 pore water, 141B26:326; 156B25:318; 204B17:20
 primordial helium vs. depth, 141B26:328
 time-pressure-volume plots, 164A8:265
 types, 127/128B(1)44:748–749
 vs. nitrogen, 142B3:26
 helium-3. See carbon/helium-3 ratio; helium isotopes
 helium isotopes
 basalt glasses, 142B4:31–36
 gas hydrates, 164B16:169
 heat flow, 127/128B(1)44:747
 helium-3/helium-4 ratio, 131B32:405–406, 410
 hydrothermal alteration, 169A3:39
 Japan Sea, 127/128B(1)44:748
 Japan Trench, 127/128B(1)44:748–749
 mid-ocean-ridge basalt, 127/128B(1)44:747
 Nankai Trough, 127/128B(1)44:748–749
 pore gas, 127/128B(1)44:747–751
 pore water, 141B26:321–329; 156B25:316–317
 Site 799, 127/128B(1)34:614
 sulfides, 139B19:387–392
 volcanism, 197B1:16
 vs. helium/neon ratio, 127/128B(1)44:749–750
 vs. neon isotope/helium isotope ratios, 139B19:389
 vs. seamount age, 197B1:39
 vs. sulfur isotopes, 139B19:390–391
 vs. total carbon/helium ratio, 127/128B(1)44:750
 helium/neon ratio, vs. helium isotopes, 141B26:327
Helminthoida, lithology, 181A8:7
 Helminthopsis
 lithology, 174A_A5:159; 191A4:11
 sediments, 174A_B3:6, 9
 hematite
 alteration, 129B19:367; 158A8:161; 168B10:122–123,
 129; 176A3:138; 183A7:45; 8:33–35; 187A12:9;
 192A4:19; 193A3:50; 4:37; 193B1:15; 206A3:66
 amphibolite clasts, 173A7:190–191
 anhysteretic remanent/isothermal remanent magneti-
 zation ratio, 194A5:61
 basalts, 191A4:34
 basement, 131A6:155; 183A7:39
 Bengal Fan, 116B26:326, 331–332, 335
 Brunhes/Matuyama boundary, 127/128B(2)62:972
 chemical composition, 155B7:152
 coercivity, 133B38:555–556; 164A7:191–192
 deformation, 153B7:133
 deposition, 202A8:12–13; 202B1:51
 diffuse reflectance spectrophotometry, 188B7:10–11;
 13:10–11
 factor score vs. depth, 188B7:31, 36, 41, 46
 first derivative values, 188B7:24–25
 flood basalts, 163B2:26
 hydrothermal circulation, 169A1:11
 hydrothermal fields, 158A1:8; 158B1:9–11, 14;
 27:368–369
 hysteresis loop, 173B11:33
 in volcanic rocks, 183B17:1, 2
 iron-nickel-sulfur-oxygen system, 209A3:97
 Kerguelen Plateau central, 120B(1)15:239
 lithology, 174AXS_A6:43–46; 180B6:8; 183A1:25;
 4:12; 5:16; 186A5:14; 193A6:5; 197A5:5;
 208A8:5–7
 low-temperature minerals, 176A3:38
 magnetic properties, 132B3:43; 139B31:539–540;
 144B36:621, 625; 152B23:279; 160A7:177, 179;
 173B8:8–9; 175B16:1–10; 181A4:15–16; 5:15–
 17; 7:27; 194A4:76–78; 5:15; 208B4:16
 magnetostratigraphy, 188B13:8
 Messinian preconglomerate, 107B14:227
 mineralization, 193B3:4
 paleosols, 144B19:383–386, 388
 parageneses, 193A4:159
 Perkin-Elmer data vs. depth, 164B31:317–318
 petrography, 161B27:357–359; 193A3:55
 phase equilibria, 179B2:41
 photograph, 153B3:56; 158A7:101; 8:156,
 158B18:246; 160A10:344; 183A7:144, 147; 9:76;
 193A4:96, 138; 209A5:101; 10:80
 photomicrograph, 169A3:79; 183A7:120; 187A12:40;
 193A3:169, 180, 183, 186–187, 191, 193, 205–
 206; 4:83, 130, 158, 167; 193B9:12–13, 18–21
 quartz inclusions, 193B9:4–7
 reddish brown zone, 168B10:130
 reflectance spectra, 202A6:38
 rock magnetism, 186A4:32–35
 sandstone, 127/128B(1)9:144
 schists, 161B19:265
 secondary minerals, 121B28:542; 148A2:45–53;
 149A4:80
 sediments, 164B31:316–317; 167B28:314–315;
 172B2:4–6; 194A8:15
 Site 698, 114A5:96, 111, 117
 Site 778, 125B25:420
 Site 786, 125B14:265
 Site 801, 129A3:107; 129B2:36
 spectral data, 164B31:319–320
 stability fields, 111B3:33
 sulfide mineralization, 169A3:70
 Sulu Sea, 124A11:260
 Upper Jurassic–Lower Cretaceous, 129B32:604
 veins, 169A3:75–76; 209A3:13–14
 volcanic sandstones, 125B14:267
 vs. age, 202A8:58
 vs. depth, 155B10:202–213; 169B5:15; 183A7:139;
 186A4:84
 weathering, 152B9:117
 zoning, 139B17:356
 See also ilmenite-hematite-magnetite solid solution;
 ilmenite-hematite solid solution; titanohema-
 tite
 hematite, bladed, photomicrograph, 193A4:166
 hematite, collomorphic, photomicrograph, 191A4:108
 hematite flakes, photomicrograph, 193B9:18, 22
 hematite fronds, photomicrograph, 193B9:22–23

- hemipelagic. *See* layers; sediments
- hemipelagic beds. *See* bedding, hemipelagic
- hemipelagic environment
 biomarkers, 155B34:551
 deposition, 133B27:389; 135A(1)6:259–260;
 156A7:203; 170A4:104; 171B_A6:262
 grain-size distribution, 208B2:5–6
 indicators, 134A9:194
 lithology, 150B11:206–207; 159A8:267–270;
 171B_A4:112, 116–118; 178A5:5–6; 8:3–4, 6;
 190A4:6–7; 194A5:7–8; 6:6
 paleoenvironment, 159A6:176
 passive margins, 159A7:234
 photograph, 205A5:47–48
 stratigraphy, 155B38:591, 594
See also highstands; interglacial hemipelagic interval;
 paleoenvironment
- hemipelagic facies
 deposition, 178A5:11–12
 lithology, 149A4:47–51; 149B40:745; 161A7:304–305,
 307–309; 9:393–397; 182A11:6; 183A7:25
 paleoceanography, 183A3:6–7
 Pliocene–Pleistocene interval, 161B4:58–59
 sediments, 178A1:8–9
- hemipelagic sedimentation. *See* sedimentation, hemipe-
 lagic
- hemipelagic sediments. *See* sediments, hemipelagic
- hemipelagite
 backscattered electronic images, 161B8:104–105
 composition, 131A6:91, 93; 135B10:154–161; 52:832–
 833; 139A6:208–209
 cycles, 146B(2)8:106–108
 deformation, 173A6:136–138
 deposition, 149A4:49–50, 52, 56–59
 dolomite, 175B15:1–17
 lithology, 135B7:120–121; 146A(2)2:24, 26–27, 30–
 32; 146B(2)27:349; 149A5:119; 6:152–155, 159;
 7:218–220; 161B2:28; 169A4:166–168; 5:209;
 6:265–266; 173A4:73–77; 8:228–234, 236;
 190A4:8
 logging-while-drilling sonic data, 190/196B17:1–15
 magnetic susceptibility, 161B9:111–116; 190A1:26
 mineralogy, 161B8:101–104
 mud, 146B(2)22:296–299
 paleoenvironment, 184A1:30–31
 photograph, 169A5:211
 photomicrograph, 161B2:36
 properties, 135B52:835
 sedimentary cover, 161B44:562
 sediments, 184A1:8
 sonic logs, 190/196B16:1–15
 stratigraphy, 196A1:4
 thermal alteration, 131B5:61
 thrust zones, 190A1:6
 trenches, 190A1:4–5
See also marl
- hemipelagite, nannofossil clayey, 135B7:101–130
- hemipelagite, phyllosilicate clay, 173A9:269–272
- hemipelagite, tephra-rich, Lima Basin, 112B28:468
- hemispheroids. *See* microhemispheroids
- hemiturbidites
 Bengal Fan, 116A5:94; 6:159; 116B1:8, 13; 5:49;
 31:388–389
 biogenic components, 116B3:26–28, 30
 density, 116B3:28, 31
 depositional process, 116B3:30–33
 grain size, 116B3:28, 30
 magnetic properties, 116B3:29–30
 sedimentation, 116B31:393, 394
 sonic velocity, 116B3:28–29, 31
 structural and textural characteristics, 116B1:8, 13;
 3:25–26
 X-ray diffraction data, 116B3:28
- hemlock
 vs. age, 167B20:242–243
 vs. depth, 167B17:220–222
- hentriacontane
 sediments, 141B9:128
See also *n*-hentriacontane
- heptadecanoic acid, gas chromatograms, 205B8:17
- heptanes
 sediments, 141A6:110–111; 7:202–203
See also *iso*-heptane; *n*-heptane
- heptatriaconta-8(E),15(E),22(E)-triene, 161B30:395–396
- heptatriaconta-15(E),22(E)-diene, 161B30:395–396
- herbs
 pollen, 167B20:240–244
 vs. age, 167B17:223, 225–226
 vs. depth, 167B17:220–222
See also shrubs/herbs ratio
- hercynite
 chemical composition, 193B3:29
 hydrothermal alteration, 193B1:15–16
 mineralization, 193B3:4
 photomicrograph, 161B20:285; 193A3:168
 schists, 161B19:266; 20:283
 textures, 161A6:223
 xenoliths, 193B6:2
- herschelite, photomicrograph, 129B4:135
- heteradcumulate, fractional crystallization, 179A4:47
- heterogeneity, lateral, gas hydrate, 204B1:9–10
- Hettangian, rifting, 149B1:9–11; 210B1:6
- heulandite
 alteration, 135A(1)10:517; 11:596; 137/140B15:176,
 184–186; 152B35:426; 163A4:42; 183B15:6, 8
 Kerguelen Plateau central, 120B(1)4:64
 lithology, 180B6:8; 183A4:5, 12–13
 mineral chemistry, 152B34:419–420
 phase equilibria, 152B34:420
 sediments, 141B11:158
 Site 797, 127/128B(1)9:139
 spectra, 134B9:147
 turbidites, 131A6:95–97
 volcanoclastics, 134B9:137–144
 X-ray diffraction data, 159A7:228; 198B16:5
- heulandite, pyroclastic sequences, 124B13:184, 186–187
- heulandite-clinoptilolite series
 photomicrograph, 195A4:90
 sediments, 195A1:20
- hexacosenoic acid, sediments, 157B21:368
- hexadecanoic acid, gas chromatograms, 205B8:17
- hexahydrate, calcium carbonate, 169S_A2:27

- hexane eluates
 chromatograms, 208A6:25
 mass spectra, 208A6:71
- hexanes
 biomarkers, 160B28:352
 chromatograms, 156A6:145; 7:238
 core void gas, 204A9:51
 decomposed gas hydrates, 204A4:114
 fluorescence data, 141A8:269–272; 9:327–329
 headspace data, 138A(1)9:152–153
 sediments, 139A5:124; 141A6:112; 10:390–392;
 150A6:101; 159A5:108; 169A4:179–181; 5:222–
 223, 225; 180B18:4–14; 189A5:45, 156–157;
 6:49; 190A9:20–21; 210A3:95
 vs. depth, 146A(1)7:337–338; 180B18:11–12
See also cyclohexane; *iso*-hexanes; methylcyclo-
 hexane; *n*-hexanes; *neo*-hexane; *nona*-hexane
- HFSE. *See* high-field strength elements
- hiatuses
 age models, 177A7:31; 189B9:8; 194A9:14
 Albian/Aptian boundary, 143B21:351
 Aptian–Maastrichtian interval, 149B8:205–206;
 192A3:16
 biogenic productivity, 120B(1)13:189
 biostratigraphy, 133B2:29–33; 144B1:12;
 146B(1)4:74–75; 24:373; 151B14:257–283;
 177A5:11, 13–14; 7:11; 8:13; 181A8:18; 9:12;
 182A1:10–12; 6:11–12; 8:16, 18; 10:15; 11:8;
 12:12–13, 16–17; 182B3:10, 12, 14–19; 4:8;
 183A6:11; 186B2:7; 188A3:39; 189A1:35–37,
 53–55; 5:20, 23–25, 32; 192A6:12; 194A8:11;
 198B2:4–5; 202A9:12; 13:10–12; 210B13:24–25
 calcium carbonate, 120B(2)61:1074
 Campanian, 171B_A1:6
 Campanian/Maastrichtian boundary, 174AXS_A(sum-
 mary):11
 carbonates, 133B25:354; 134B6:94; 138A(2)19:1090;
 138B35:732–735, 743–745
 Cenomanian–Campanian interval, 192A3:12
 Cenozoic, 132B2:30; 135B53:846; 145B13:214–217;
 181B1:11
 chronology, 167B7:134
 chronostratigraphy, 207B1:11
 clay mineralogy, 189A5:18–19
 composite section, 154A6:245
 correlation, 133B49:733–737; 150B6:110; 166A9:265;
 182A6:86
 Cretaceous–Cenozoic interval, 132B2:15–36
 Cretaceous/Paleogene boundary, 192A3:16–17
 Cretaceous–Quaternary interval, 149B6:184–189
 Cretaceous/Tertiary boundary, 120B(2)54:965;
 143A2:24; 160B30:384; 189B3:8; 207A4:28–29;
 7:24
 cyclostratigraphy, 166B7:84–85
 Danian, 189B1:3
 deposition, 149A6:204; 158A10:514–515; 166A2:16;
 180A9:27–28; 202A10:10
 diagenesis, 144B48:867
 earliest Paleocene, 207A5:24
 early Campanian–Coniacian interval, 207A7:24
 early Eocene, 207A7:24
 early Oligocene, 207A7:24
 Eocene/Oligocene boundary, 181A7:27; 181B1:42–45;
 2:1–2, 6–7
 grain size, 178B24:4
 ice-rafted debris, 120B(1)14:211
 islands, 157A2:14–15; 157B9:98–114; 20:349–354
 Kerguelen Plateau evolution, 120B(2)47:888
 late Albian, 207A7:24
 late Albian–early Campanian interval, 207B1:5–6
 late Miocene–Pleistocene, 207A5:24
 late Paleocene, 207A7:24
 lithology, 152A11:198; 157A8:406; 174AX_A1:26;
 174AXS_A1:19, 22; 2:20–23; 177A5:6; 8:7–8;
 181A1:25; 8:9; 181B1:15; 182A1:26; 5:5–9; 7:10–
 11; 9:7; 183A5:8, 29–30; 7:6; 189A4:8; 194A5:4;
 198A9:13–14; 201A9:9; 11:10; 202A13:7–9;
 210A1:14–15
 lower/middle Eocene boundary, Site 1172, 189A7:36
 lower Eocene–lower Miocene interval, 177A5:18
 lower Pliocene/upper Miocene boundary, 189A6:30
 magnetic minerals, 166B4:41–42
 magnetostratigraphy, 171B_A4:134; 173B11:13, 19–
 22; 178A4:18; 178B37:8, 10; 181A8:27;
 194A6:12
 Marshall Paraconformity, 182B4:10
 mass accumulation rates, 144B2:39, 42–44;
 159B43:600–601; 171B_A5:196; 6:273–274
 middle Eocene–lower Miocene interval, 192A4:11
 middle–upper Eocene interval, 192A5:10
 Miocene, 145B37:573; 149A5:145; 149B45:696;
 157A2:21–22; 157B30:529–531; 159B37:519–
 521; 194A7:16; 202A9:15
 Miocene–Pleistocene interval, 150A6:115–116
 Miocene/Pliocene boundary, 157B17:293–313;
 183B9:11; 189A6:25
 Miocene–Pliocene interval, 150A7:189; 150B4:58–61
 mud breccia, 160A1:11–14; 17:516–517
 nannofossils, 168B4:43–44; 183A6:15; 189A4:11;
 5:21–22; 6:29
 Neogene, 133B1:15–16; 150B14:269–281; 165B2:29
 Oligocene, 174AXS_A(summary):8; 181B1:41–42;
 189B1:3
 Oligocene and Miocene, 149B45:695–696
 Oligocene/Miocene boundary, 183B9:11–12; 189B1:6
 origin of 60-m.y. hiatus, 198A3:4–5
 Paleocene/Eocene boundary, 199B23:5
 Paleocene–Miocene interval, 197B4:5
 paleoclimatology, 188B13:15
 paleoenvironment, 189A3:19; 5:16; 195A4:18–19
 Paleogene, 135B16:256, 258; 159B32:421–423, 429
 paleolatitude, 192A5:21–22
 paleomagnetic units, 192A5:21–22
 passive margins, 159A7:234
 pelagic caps, 144B27:470
 photograph, 171B_A4:110; 182A7:38; 195A4:75;
 202A13:45; 208A4:42
 Pleistocene, 189B6:11
 Pliocene, 135B17:267; 22:367–368
 Pliocene–Pleistocene interval, 188B13:7–8, 14
 preconsolidation, 165B10:179–181
 Quaternary, 133B11:129–161; 168A6:175

- radiolarians, 177A7:12; 8:14; 199A15:8; 199B3:17
 remanent magnetization, 160A6:136; 189A7:37
 Santonian/Campanian boundary, 192A3:23
 sedimentation, 120A7:205; 120B(2)57:1040;
 143B2:20–24; 150A9:280–282; 166A10:309;
 167A(1)14:415; 177A3:11; 7:13–14; 177B6:2–3;
 180A1:3; 186A5:24; 189A4:16–17; 6:40;
 189B10:19; 207A6:27; 8:23; 210A1:13
 sediments, 175A16:493; 177A1:13–14, 16–17, 21, 29;
 190A9:15; 192A1:20; 3:9–11; 207A4:7, 22; 5:23–
 24
 seismic data, 133B24:334–340; 165B12:211;
 166A8:206; 10:327; 174A_A5:180, 182, 187;
 178A4:34–35; 182A1:25
 Site 747, 120A6:146–147; 120B(2)47:882–883
 Site 748, 120A7:229–230; 120B(2)48:900; 57:1038
 Site 750, 120B(2)57:1038
 Sites 1276 and 398 comparison, 210A1:27–28
 stratigraphy, 177B(synthesis):4; 184B2:9–10
 submarine ferromanganese hardgrounds, 194B8:6–7
 subsidence, 152A13:282–283
 tectonics, 160A4:56–58; 173A7:216–217
 timing, 157B9:114
 turbidites, 173B6:2
 upper Campanian–middle Miocene, 198A1:19–20
 Upper Cretaceous–Holocene, 160B40:517–526;
 51:683–688
 upper Eocene, 189B1:11
 Valanginian–Campanian interval, 173A8:256–258
 volcanoclastics, 144B53:943–945; 157A9:454, 456
 volcanism, 152B41:514
 vs. age, 149B12:292; 207A1:65
 well-logging, 166A10:324
 zoning, 166A8:183–185
See also disconformities; erosional events; hiatuses;
 Marshall Paraconformity; Miocene, middle–up-
 per interval; paraconformities; Pliocene, lower/
 upper interval; unconformities
 hiatuses, biostratigraphic, vs. seismic sequences,
 182A4:84; 8:70
 hiatuses, dissolution, Paleogene, 130B25:426, 429–430
 hiatuses, erosional
 bulk isotope stratigraphy, 130B17:310
 carbonates, 130B3:46
 Cretaceous, 130B5:75–76
 Neogene, 130B10:143; 25:429–430
 Paleogene, 130B14:260–261; 25:423–444
 Site 803, 130A5:109, 164
 Site 804, 130A6:198
 tephrochronology, 130B9:437
 high-energy environment, lithology, 181A9:7–8
 high-field strength elements (HFSE)
 alteration, 127/128B(2)58:911; 134A8:155–156
 andesites, 135B24:392–406
 basalts, 135A(1)5:224; 135B26:471–485; 29:523–526;
 38:629–630
 Bonin-Mariana region, 125B28:487
 heterogeneity, 153B13:282–283
 hopanes, 123B11:222
 igneous rocks, 135B55:890–894
 magmas, 135B25:446–454
 mobilization, 125B12:230, 233; 127/128B(2)58:911
 peridotites, 153B14:289, 291
 recycling tracers, 123B8:185
 Site 781, 125B16:303–304
 Site 795, 127A5:213
 volcanoclastics, 135B52:838
 volcanics, 134B19:387; 135B53:851–853
 high gain long period network, history, 136A1:3
 high-latitude sites, correlation, 130B5:120–121
 high-magnesium particles, photomicrograph, 194A5:41
 high-potassium volcanism. *See* volcanism, high-potas-
 sium
 high-pressure, fractional crystallization, 209B1:4–6
 high-resolution methods
 biostratigraphy, 144B1:12
 calcium carbonate stratigraphy, 138B2:25–30
 compressional wave velocity, 154B7:135–149
 data refinement, 138B3:31–46
 diffuse spectral reflectance, 172B6:1–12
 rock magnetism, 154B11:181–186
 sedimentation, 145B20:293–314
 stratigraphy, 145B7:133–140; 19:283–292; 38:593–
 594
 terrigenous flux, 154B31:471–472
 high-temperature minerals, secondary, 176A3:34–35
 highstand progradation, cyclic bundling, 133B15:199
 highstand shedding
 deposition, 166A3:35; 166B5:50–53
 lithology, 166A8:179–180
 Pliocene, 133B17:237
 Quaternary, 133B17:236
 highstands
 biostratigraphy, 181A3:15–18
 calcareous clay, 155A12:366
 carbonates, 166B2:18; 6:73
 flooding surfaces, 133B25:358
 hemipelagic deposits, 155A12:364–366
 Holocene, 133B22:310–311; 23:324–325
 image facies, 166B7:78–81
 interglacial oscillations, 133B49:745–746
 lithology, 174AXS_A1:17–20, 25–27; 2:17–18, 20–23,
 25–27; 3:28, 31
 Miocene, 133B27:405
 Miocene–Pliocene interval, 182A1:4
 Oligocene, 174AXS_A(summary):8
 palynomorphs, 174AXS_A2:35
 Pleistocene, 166B3:23–31
 productivity, 133B52:766–767
 sea level changes, 166A3:38; 166B16:170–175
 seismic stratigraphy, 166A10:329–330; 166B5:46–47
 sequence stratigraphy, 174A_B(synopsis):2–5
 temperature, 166B2:20
 Quaternary, 167B22:260
 See also hemipelagic environment; lowstands; sea
 level changes
 histograms, sediments, 186A4:77
Hoegisporis superzone, assemblages, 183B3:11
 hole-to-hole correlation, stratigraphy, 174A_A4:141–143
 holmium
 fresh and altered dacite, 193B12:4
 Paleocene/Eocene boundary, 199B16:3

- See also* cerium/holmium ratio; yttrium/holmium ratio
- holmium/lanthanum ratio
volcanic ash, 152B6:79–80
vs. age, 152B6:84
- Holocene
biostratigraphy, 134A13:499; 135B13:191–229;
17:267–284; 139B2:39–58; 155A12:343;
161B35:447; 172A3:40–44; 4:93–97; 5:178–184;
6:260–262; 7:319–321; 175A9:241–251; 10:283–
291; 11:317–320; 12:351–363; 13:398–406;
178A4:13–16; 182A4:21; 186B4:4–7; 189B5:42;
198B2:3; 202A8:19; 202B1:6
carbon isotopes, 177B(synthesis):49; 182B15:3
chronology, 178A7:12
clay mineralogy, 155B9:179–180, 191
climate, 146B(2)3:31–44; 169S_A2:14–15; 178B34:4
cores, 169S_A2:13
correlation, 155B39:605
deposition, 166B2:18–21
glaciation, 146B(2)11:159
high-potassium volcanism, 180B6:19
ice sheets, 188B1:11–12
intrusions, 139A2:36
lithology, 133A(1)14:574; 134A13:490–492;
135A(1)7:295–297; 10:500–501; 139A5:109–
110; 6:173, 177, 179; 7:297; 8:446–447, 457;
146A(1)4:60–61; 5:135–137, 140–141, 144;
150A7:135–141; 150X_A1:13–14; 150X_B2:22;
155A6:91–93; 7:127–128; 8:178–180; 9:204–
205; 10:245–246; 11:277–278; 12:324–325, 328;
155B13:386–387; 15:442–444; 16:466; 17:506–
507; 18:541–542; 19:571–572, 574–575; 20:594;
21:637; 22:661; 162A8:261; 9:296; 164A5:69,
75–78, 94–96; 6:105–108; 7:179; 8:245–246;
9:281–283; 165A5:237–238; 7:363; 169A4:163–
169; 5:207–208; 6:263, 265; 171B_A3:51;
172A3:37–38; 4:83–92; 5:164–165, 168, 170–
174; 6:255, 258–259; 174A_A3:43–45; 4:104–
105; 5:157–158; 174AX_A1:15–16;
174AXS_A1:52; 2:48; 4:12; 6:19–20; 175A9:231;
10:276; 11:315–317; 12:344–345; 13:390, 392–
395; 177A8:7–8; 9:6–7; 178A4:4–5, 10–11; 5:4–
6, 11–12; 7:4–10; 8:3–4; 180A6:7–11; 181A6:5–
6; 186A4:15–16; 5:8–9; 188A4:9–10; 5:8–11;
189A5:10–11; 6:12; 7:11–12; 9:9–10; 194A3:5;
8:4, 9; 198A3:12–13; 5:10–12; 6:7–9; 7:8–10;
8:7–8; 10:5, 7; 201A9:7–9; 10:8–10; 11:8–10;
202A8:7–9; 9:7–11; 13:6–7; 204A4:4; 5:3; 6:3–4;
7:3–4; 8:6–7; 9:4; 10:4–5; 11:2–5
magnetic intensity, 195B3:11
mass accumulation rates, 178B3:1–20
millennial cycles, 167B25:277–296; 32:355–356;
202A1:116
mud, 169S_A2:26–27
oxygen isotope chronostratigraphy, 184B2:5
paleoceanography, 151B1:4; 154B16:239–253;
27:395–431
paleoclimatology, 146B(2)23:321–323; 167B7:136;
21:251–254; 178B7:1–45
Peru margin, 201B15:4–5
plate tectonics, 160B52:706; 53:716–718
radiocarbon dating, 201B15:1–15
seawater signal, 152B25:304
sedimentation, 133B22:303–313; 155B16:289–290;
169A6:268; 182B8:1–24; 194B4:1–13
sediments, 139B7:105–111; 146B(2)6:77–87;
150X_B4:53
seismic stratigraphy, 149B39:619
silty turbidites, 134B7:106
Stage 1 paleomagnetic interval, 202B14:3–5
tectonics, 134B2:38–43; 160B54:775
temperature, 202B13:7
volcanic ash, 201B19:8–10
See also Campanian–Holocene interval; Cretaceous–
Holocene interval; Flandrian Transgression;
Miocene–Holocene interval; Miocene, upper–
Holocene interval; Oligocene–Holocene inter-
val; Pleistocene; Pleistocene/Holocene bound-
ary; Pleistocene–Holocene interval; Pliocene–
Holocene interval; Pliocene–Quaternary inter-
val; Quaternary; termination Event I–IV; Ter-
tiary–Holocene interval
Holocene, lower. *See* Younger Dryas
Holocene, lower–middle, mass accumulation rates,
201B15:6
Holocene climate optimum, sedimentation, 178B34:4–6
Holocene/Preboreal summer monsoon maximum,
184A1:9
holococcoliths
Campanian, 144B7:146
Indian Ocean W equatorial, 115B14:156
holocrystalline texture. *See* textures, holocrystalline
holotypes, image analysis, 161B17:239–247
homo-hopanes
sediments, 175B10:11
thermal maturity, 207A10:11
homogenization temperature, 137/140B16:194–195
honeycomb texture. *See* textures, honeycomb
hopane-diol, sediments, 175B10:11
hopane-keto-diol, sediments, 175B10:11
hopane/moretane ratio, Site 739, 119B22:408
hopanes
biomarkers, 207A10:6–7
chromatograms, 175B10:29
maturation, 139B24:458
organic-rich sediments, 198A9:104
paleoenvironment, 207A10:10
sediments, 135B41:672–673; 139B15:339; 141B9:127–
128; 22:294; 146B(2)14:205–206; 151B23:409;
155B35:564; 157B21:367; 167B12:188
vs. depth, 164B5:50; 167B12:190; 190/196B14:5
See also bacteriohopanepolyols; *beta*-hopanes; dinor-
hopane; homo-hopane index; homo-hopanes;
hopane-diol; hopane-keto-diol; hopane/more-
tane ratio; hopanoids; hopenes/hopanes ratio;
methylhopanes; moretanes; pentakisomo-
hopane-keto-diol; trihomo-hopane-32,33-diol
hopanoic acid, Sites 798–799, 127/128B(1)38:669, 671
hopanoid thiophene, biomarkers, 207A10:7
hopanoids
Atlantic Ocean E tropical, 108B20:352, 354

- biomarkers, 149B13:298–299
Broken Ridge, 121B24:481
chromatograms, 207A10:18
oceanic anoxic events, 198A3:29–30; 9:29
sediments, 141B22:290–291, 294–295; 175B10:11;
196B14:1–10
vs. depth, 190/196B14:6
See also ketones, steroidal/hopanoidal; lupanes; methylhopanoids
- hopanoids, bacterial, sediments, 151B23:412
hopanone, organic-rich, sediments, 198A9:104
hopenes
biomarkers, 207A10:6–7
organic-rich sediments, 198A9:104
sediments, 141B9:127–128; 22:291, 294; 151B23:409;
164B5:48–51, 54; 167B12:188; 190/196B14:3, 7,
10
vs. depth, 190/196B14:7, 10
See also diploptene; *neo*-hopenes
- hopenes/hopanes ratio, sediments, 141B22:294
Horizon C
sediments, 207A6:36
structural evolution, 207B1:4–12
surface map, 207A1:88
vs. two-way traveltime, 207A6:77
- horizontal acceleration logs, vs. depth, 208A6:73
horizontal vesicular zones. *See* vesicular zones, horizontal
- hornblende
alteration, 139A7:498, 500–510; 147B13:237–238;
176A3:40, 138
Amsterdam-Saint Paul Zone, 120B(2)51:933
basalts, 120B(2)50:921; 143B16:264; 169A5:213
breccia matrix, 173B1:3–5
Broken Ridge, 120A5:82; 120B(2)50:921–922
Cagayan Ridge, 124A6:93; 12:304, 307
Celebes Sea, 124A10:131, 141–142
chlorine, 118B24:427
clinopyroxene replacement, 118B9:198
composition, 147B15:305; 155B7:151–152
deposition, 124A10:143
episodic growth, 118B8:159
fluid inclusions, 118B9:201–202
gabbros, 176B10:14–15
geochemistry, 176B10:60
granite porphyry, 180A7:13–14
greenschist facies, 180B3:8–9
harzburgites, 125B27:449, 461
isotope geochemistry, 120B(1)2:42
Kerguelen Plateau, 120A5:82; 120B(1)2:34; (2)3:55,
60–61; 50:921–922
lithology, 180A5:8–9, 13; 12:5–6, 8–9, 14–15, 19;
180B6:6, 12–13; 182A4:10; 186A4:19–22; 5:12–
13
mafic rocks, 149A7:234–235
magnesium number, 176B10:44
metadiabase, 180A7:14–15
metagabbro clasts, 173A7:191
metamorphic minerals, 153B31:536
mineral chemistry, 118B9:212; 143B16:268;
153B9:167–170; 176B10:15; 180B3:23; 8:10
Naturalist Plateau, 120B(2)50:921
oscillatory zonation, 118B9:188
oxygen isotopes, 118B9:206
Paleogene–Neogene interval, 104A4:82
peak intensities, 155A9:212, 255
peridotites, 125B27:450–451
petrography, 179A4:38–41
photograph, 153A3:53, 72; 4:139, 146; 5:198, 201;
153B9:158, 166–167; 11:248; 155A12:342
photomicrograph, 180A1:60; 6:94, 102–103, 107;
7:33, 42, 45; 9:70, 72–73, 76–77, 80, 82, 84;
10:31, 34; 12:74–75; 180B3:28; 7:51–52;
183A5:107
rare earths, 147B3:66–68
relict minerals, 125B25:416, 427
secondary minerals, 148B6:77
sediments, 139A6:208–209; 146A(1)6:253;
147B27:452; 155A6:104; 7:137; 8:185
serpentinites, 149B32:543
Seychelles dikes, 115B12:119
Sulu Sea, 124A6:93, 99; 11:209, 212, 260–261, 263
temperature effects, 103B16:247–249
thermal conductivity, 120A7:219
upper Quaternary tephrostratigraphy, 186B10:3–4
vein to foliation-plane mineral phase, 118B8:163
velocity, 118A4:74
volcanic ash, 127/128B(2)87:1379
volcaniclastics, 180B7:6–7; 8:8–9
vs. depth, 146B(1)2:39, 41–42; 155A12:343; 173B1:7,
11; 176B10:46; 186A4:83; 5:53
well logging, 120B(2)58:1059
X-ray diffraction data, 172B5:21; 186A4:88;
188A4:15–16; 209A10:80
See also clinopyroxene/hornblende ratio; magnesio-
hornblende; pyroxene-hornblende-plagioclase
assemblage; veins
- hornblende, actinolitic
amphibolite gneisses, 118B27:544
composition, 137/140B20:238
hydrothermal alteration, 137/140B14:157
mineral chemistry, 180B3:23
photomicrograph, 180B3:28
secondary minerals, 180B3:7–8
temperature of formation, 118B8:172
vs. depth, 137/140B14:160
- hornblende, brown
anhedral relicts and blebs, 118A4:69
clinopyroxene replacement, 118A6:136
hydrothermal alteration, 179A4:43–44; 179B(synthe-
sis):8
photomicrograph, 179A4:108, 114
recrystallization, 118B22:403–405
secondary parasitic minerals, 118B8:160
veins, 179A4:55
- hornblende, brownish green
Site 732, 118A3:51
Site 733, 118A4:67
- hornblende, edenitic, veins, 153B9:171–172
- hornblende, green
Atlantis Bank, 118B8:160
Atlantis II Fracture Zone, 118A4:67

- crosscutting veins, 118A4:71
- hydrothermal alteration, 179A4:43–44
- photomicrograph, 180B8:41
- porphyroclasts, 118A3:52
- hornblende, magnesian
 - silicates, 137/140B18:210–213
 - vs. depth, 137/140B14:160
 - See also* magnesio-hornblende
- hornblende, pargasitic
 - hydrothermal veins, 153B9:171–172
 - magmatic origin, 118B8:170
 - mineral inclusions, 147B7:142
- hornblende, reddish brown
 - Atlantis II Fracture Zone, 118A3:50; 4:67
 - textures, 118A6:117
- hornblende andesite. *See* andesites, hornblende
- hornblende crystals, structures, 169A5:216–217
- hornblende grains
 - photomicrograph, 180A12:62; 180B7:49–50
 - volcaniclastic sand, 180B7:5
- hornblende-plagioclase assemblage, 118B8:160
- Hornera*, lithology, 182A6:5
- hornfels, lithology, 170A3:58–60
- hornwort, sporomorphs, 183B3:7
- horst-graben structure
 - Kerguelen-Heard Plateau, 121A4:89
 - photograph, 159A7:241
- horsts
 - blocks, 159B1:6
 - carbonates, 130B3:46
 - continental margins, 166A1:6
 - deformation, 190/196B1:19
 - evolution, 135B28:509
 - formation, 118B8:153; 26:441
 - irregularly shaped structures, 118B21:368
 - Islas Orcadas Rise, 114B1:6, 17–19
 - sedimentary basins, 134A1:13
 - seismic reflection profiles, 135B2:17–20; 207A3:4
 - terrains, 135B51:819
- Hostile Environment Litho-Density Sonde, vs. depth, 209A10:147
- hot jets. *See* thermal jet
- hotspots
 - activity, 145B22:343
 - age, 121A1:5
 - aseismic ridge distribution, 115A10:736
 - Atlantic Ocean S, 115A4:130; 115B1:5
 - Cretaceous–Oligocene interval, 121B38:769
 - Davis Strait, 105B52:990, 1002–1003
 - distance from spreading axis, 115B1:9; 121A15:528–530, 534; 121B31:591, 599; 32:642
 - duration and fixity, 144B35:610–612
 - emplacement, 152B41:522–528
 - episodic behavior, 121A15:528
 - evolution, 170B7:10
 - exploration, 136A1:7
 - formation, 115A4:129; 121A15:517
 - Galapagos spreading center, 138A(1)12:372
 - geochemistry, 143B15:255
 - geothermal gradient, 115B6:68
 - guyots, 144B31:536; 53:938–942
 - igneous provinces, 192B1:3–4
 - incompatible element association, 121A11:330
 - Indian Ocean, 115A1:5–9; 4:130; 10:736; 115B1:3–5
 - initiation, 115B1:7; 130B1:3–4, 19–20
 - intraplate setting, 115B1:9
 - kinematics, 152A1:6–9
 - lithology, 170A3:60–61
 - Lower Cretaceous, 129B32:578
 - magma output, 183A1:57; 183B1:4–7, 16, 25–26, 38–40
 - magnetic anomalies, 129B27:479
 - Maldives Ridge, 115B1:7
 - mantle material, 115A12:919; 115B1:8; 197B1:9
 - Mascarene Plateau, 115A1:12
 - Meteor Rise, 114B1:20; 2:37
 - motion, 115B1:4–5, 9; 121B38:770–773; 144B33:579; 34:600; 197B1:8–9, 34
 - Nazareth Bank, 115B1:12
 - Northeast Georgia Rise, 114B2:37
 - oceanic crust, 183A1:26–30
 - paleolatitude, 115A12:927; 115B1:8; 129B33:624
 - paleomagnetism, 197A1:17–19
 - paleoproductivity, 199B1:10
 - radiometric ages, 143B17:281–282
 - Réunion Island, 115A1:8; 115B4:43
 - ridge formation, 121A1:13; 15:523–524
 - rotation, 167A(1)3:41–43
 - sill emplacement, 205B9:12–13
 - Site 713, 115A1:12
 - Site 715, 115A1:12
 - source and melting history, 197A1:19–20
 - subsidence rate and proximity, 121A4:89
 - tectonics, 121B26:517; 130B4:52; 143B31:504–508; 183A1:50–51; 197A1:7–8; 198A1:7–8, 92
 - Tertiary, 115B1:5–7
 - tracks, 115A12:920; 129B32:574; 130B43:698; 144B35:605–613; 197B1:33
 - true polar wander, 129B33:628
 - uplifts, 160B51:690
 - uppermost Jurassic, 129B32:578
 - volcanics, 115B1:3; 121A13:474
 - volcanism, 121A10:262; 130B25:429
 - Yamato Basin, 127/128B(2)83:1345
- hotspots, fixed, true polar wander, 129B33:628
- hourglass texture. *See* textures, hourglass
- HREE. *See* rare earths, heavy
- Huang-Meinschein diagram, 161B30:400
- hue, vs. depth, 171B_A5:177–179
- humic compounds. *See* yellow substance
- humic material
 - carbon isotopes, 184B20:6–7, 13
 - photomicrograph, 180B10:22
- humid environment, clay mineralogy, 189A3:16–17
- huminite
 - abundance, 180B10:7–8
 - See also* vitrinite
- humites. *See* clinohumite
- hummocky terrains, deep-tow photography, 153B1:7–13
- HYACE rotary corer, 204A4:25–26; 8:24–25; 9:21–22; 10:28–29

- HYACINTH, pressure coring, 204A3:33, 131; 4:24–25, 130; 8:23, 97; 9:21–22, 99; 10:27–30, 118; 204B1:35–36
- hyalobreccia
 lithology, 134A11:337
 petrology, 134B18:364–367
 photograph, 134A11:342
- hyalobreccia, andesitic, 134A11:335, 340–341
- hyaloclastite breccia. *See* breccia, hyaloclastite
- hyaloclastite flows, petrography, 200A4:33
- hyaloclastite interbeds, lithology, 192A1:25
- hyaloclastite tuff, volcanoclastics, 197A3:19
- hyaloclastites
 alteration, 123B9:193; 157B12:150; 158A8:161; 185A3:21–23, 26; 4:25–26; 187A7:5–8; 10:4; 192A3:29–32; 6:19; 192B6:5; 206A3:70
 Argo Abyssal Plain-Exmouth Plateau, 123A4:184, 193
 basement, 165A8:392–393; 197A6:7
 breccia, 148A3:132; 148B18:268
 brown halos, 192A6:18
 Cagayan Ridge, 124B34:462, 464
 chemical stratigraphy, 157B15:260
 composition, 135B52:835
 deposition, 157A7:339–341; 10:514–515; 157B16:279–282
 fissure fillings, 192B6:6
 geochemistry, 157B12:155–156; 24:416
 grain size, 135A(1)6:259
 igneous units, 200A4:29
 lava flows, 183A8:15–16
 lithology, 129B14:269; 135A(1)6:255–259; 8:350–351; 157A10:513–514; 165A6:308; 185A3:13; 187A14:4; 191A4:27–29; 197A3:12–14; 206A3:54–55; 210A4:4–6
 lower Aptian, 192A6:9
 magmas, 157B24:419–420
 petrography, 135A(1)6:267–268; 157A7:353–355
 petrology, 134B18:364–367; 143B16:263–276; 144B29:500; 148A3:146–148
 photograph, 148A3:149; 149A6:169; 157A7:338–340; 158A7:132; 8:161; 10:193; 165A6:327–328; 169A3:93; 185A3:114; 4:101–102; 187A10:18; 191A4:96, 98; 192A3:66; 5:75; 195A4:97–98, 100–102; 200A1:49; 4:101; 206A1:76; 3:170–171, 234, 282; 210A4:17, 19, 23; 210B9:50–52
 photomicrograph, 157B13:200, 291; 185A1:57–58; 191A4:107; 192A6:60; 200A4:106, 108; 206A3:235, 282; 210B9:54–55
 physical properties, 168A5:152
 Pigafetta Basin, 129B5:145, 147
 pillow lava, 169A3:93–94
 potassium-argon dating, 125B11:207
 reworking, 129B5:145
 sediments, 195A1:22
 seismic reflectors, 157B2:23, 25
 semimassive sulfides, 193B1:22–23
 Site 765, 123A4:173–176
 Site 786, 125A14:326
 source areas, 157B12:166–168
 structural data, 169A3:107–112
 Tyrrhenian Sea, 107B38:652
- See also* breccia; tuffs
- hyaloclastites, altered
 chemical composition, 185A3:125
 photograph, 185A3:84, 86; 192A5:49, 78
- hyaloclastites, basaltic, inclusions, 157B23:403–410; 24:416
- hyaloclastites, calcite-cemented, 192A5:44; 7:26
- hyaloclastites, submarine shield stage, 157B22:375–401
- hybrid rocks
 hydrothermal alteration, 209A6:13–14
 lithology, 209A6:8
- hybridization
 dunites and gabbros, 209B4:1–23
 silicoflagellates, 138B8:142–143, 145–148
 subsurface biosphere, 158B26:356–359
 See also fluorescent in situ hybridization counts
- hydrate gases, molecular composition, 170A5:171–172
- hydrates. *See* gas hydrates
- hydration
 alteration, 148B11:159
 basaltic rocks, 129B19:368
 basement units, 183A7:14, 25
 brines, 137/140B16:196
 clays, 162A5:158
 core spectroscopy, 206B12:11
 deformation degree, 118B9:186
 flood basalts, 163B2:25–26
 fluid inclusions, 147B11:225
 gabbros, 153B9:159–161
 geochemistry, 154A4:87; 5:178; 6:248–249; 7:300; 8:355
 glass shards, 135A(1)5:200; 186B9:5–7, 11
 hyaloclastites, 143B16:266
 hydrothermal veins, 153B9:172
 hydrous fluids, 149B32:547
 igneous rocks, 134A7:114
 major oxides, 186B9:21
 metamorphism, 147A4:137
 peridotites, 209A3:33
 pore water, 162A7:247
 seawater source, 118B9:209, 213
 serpentinization, 147B14:282–283; 153B3:47, 49, 51–52; 22:412
 timing, 209A3:60
 upper mantle, 153B1:17–18
 upper oceanic crust, 206B12:1–13
 volcanic glass, 191A4:33; 200B2:13–14
 vs. depth, 206B12:12–13
 See also methane; organic materials
- hydration, synkinematic, magmatic veins, 209A5:29–30
- hydration number, gas hydrates, 164A1:8; 164B2:16–20
- hydraulic conductivity
 clasts, 195A3:44
 deformation, 131B7:90; 29:371–372
 fault zones, 146B(1)18:291–297; 28:418–419
 measurement, 195A6:1–15
 mud volcanoes, 160B48:638
 open-hole section, 139B39:620–621
 sediments, 141B32:401–405; 146B(1)16:276; 156B7:111–112; 195A3:169; 207B15:27–29
 stresses, 131B23:288

- thrust zones, 146B(1)17:281–289
vs. depth, 141B32:403, 405; 146B(1)17:288; 28:419;
156B7:114; 195A6:14
vs. effective stress, 146B(1)17:284, 286–287
vs. flow velocity, 156B7:112–113
vs. void ratio, 146B(1)16:278; 17:286–288; 28:419;
156B7:114; 204B12:31–47; 207B15:23–26
- hydraulic fracturing
breccia, 148A3:158
photograph, 161A8:374
upper oceanic crust, 148B17:246–250
- hydraulic gradient
vs. applied flow rate, 180B22:13–14
vs. fluid flow, 190/196B18:12–17
- hydraulic head difference, fluid flow, 166A1:9
- hydraulic impedence, cumulative, 139B40:640–641
- hydraulic properties, sediments, 205B1:24–25
- hydraulic top drive, systems, 124E_A2:32
- hydrocarbon index, black shale, 171B_A3:76–77, 81
- hydrocarbon ratio
sediments, 150A10:328
vs. carbon isotopes, 164B2:23
vs. depth, 150A9:286
- hydrocarbon zone, vs. depth, 165A5:259
- hydrocarbons
analysis conditions, 104B14:311
anomalies, 112B31:513
Argo Abyssal Plain-Exmouth Plateau, 123B11:219–
221
assessment, 198A9:27; 10:13–14
bacteria, 180A1:26–27
bacterial gases, 112B33:533
Baffin Bay, 105A4:104–105
biomarkers, 160B28:352; 207A10:5–8
black shale, 207A9:1–15
Broken Ridge, 121A6:137; 8:212; 9:250
Cagayan Ridge, 124A12:330
calculation, 108A3:129
can vs. headspace, 112A2:37–38; 11:178–179
carbon isotopes, 112B33:533–534; 172B3:1–16
carbonate reactions, 165B19:292
Celebes Sea, 124A10:157–159, 161; 13:357
Chile triple junction, 141B21:281–282
chromatograms, 104A6:647; 107A8:442–443; 10:778;
107B34:544; 146A(1)5:185–186; 6:268–269;
7:340; 162B15:214; 167B12:187; 175B5:16;
208A3:89
classification, 104B16:327–334
components, 198A9:106
concentration, 112B31:508; 116A5:104–105; 6:164,
165; 116B5:57, 59; 162A8:276; 190A4:20–21
continental margin, 164B3:29–46
core void gas, 204A4:112–113; 5:58
deposition, 107A8:439–440; 151A13:412–414
diagenesis, 146B(1)25:381–382
Exuma Sound, 101A10:392–393, 398, 400–401, 403
factor analysis, 117B33:553–555
fluid flow, 141B29:364–365
formation, 151A12:391–392; 162A9:307–308
free, sorbed, and headspace samples, 112B33:537–538
Galicia margin W, 103B34:570–572, 574–576
gas hydrates, 204A5:10; 7:13–14
gas pockets, 131B15:185–195
gases, 139A7:487–490; 160A11:397
geochemistry, 112B31:507, 509; 32:519; 130A2:33–
34; 8:326; 139A6:197; 143A7:223; 195A3:160–
161
geothermal gradient, 184A1:32
Groups A and B, 208A6:25
headspace gas vs. Vacutainer data, 151A12:387
headspace gases, 156A6:139; 7:227; 160A4:80; 13:460;
14:487; 168A4:85; 5:146; 6:185; 169S_A2:46, 49;
178A4:157; 5:126–127; 8:75; 9:81; 190A4:65,
133–134; 5:25–27, 135–136; 6:84; 7:74; 8:18, 84;
9:19–21, 99–100; 208A6:61, 64–65; 10:69–71;
11:94–95; 210A3:342–344
high concentrations, 108A3:110, 112, 124, 127
Indus Fan, 117A8:182
isotopes, 112B33:535
Kerguelen-Heard Plateau, 119A2:34; 6:140; 7:257,
259; 10:189
Kerguelen sediment ridge, 119A2:34; 14:519; 15:545
Labrador Sea, 105A5:456; 6:709
Lau Basin, 135A(1)6:266
Leg 76 sites, 112B31:511–512
Leg 84 sites, 112B31:511–512
Leg 104 sites, 112B31:509–510
Lima Basin, 112A11:178–180, 202; 19:820–821;
112B31:509; 33:529–533, 537
Little Bahama Bank, 101A6:113, 135, 142, 145
long-term storage effects, 112B31:511–513
Mascarene Plateau, 115A5:261
mass chromatograms, 172B1:7–8
mass spectra of bicyclic C25 compounds, 160B22:277
methane-pentane series, 107A8:439–440
molecular composition, 112B33:535; 141B24:307–
312; 146A(1)4:82–83
mud domes, 160A18:524
Nankai Trough, 131B15:186–191
Nazareth Bank, 115A4:144
New Hebrides island arc, 134B35:618
Ninetyeast Ridge, 121A10:286; 11:336; 12:400
Northeast Providence Channel, 101B25:381–387
oceanic anoxic events, 198A3:130
oil seeps, 135B41:673–675
Oman margin, 117A2:28
organic matter, 112B33:534, 536–537; 113B16:199;
151B23:407–414
organic-rich sediments, 198A9:26, 104
origin, 151A12:388–389
Owen Ridge, 117A2:28
Peru margin, 112A2:37–38; 112B34:540–541
Pisco Basin W, 112A18:726–727, 736; 112B31:507,
509; 33:532–533, 536
potential deposits, 135A(1)10:491
principal results, 188A1:18, 22
Prydz Bay, 119A2:34; 8:313; 9:363; 10:385–386;
11:420–421; 12:466
pyrograms, 146A(1)5:183–184; 6:267; 7:339, 341
Rock-Eval pyrolysis, 151A7:189; 157B21:365–366;
180B16:3–4; 194A3:75

- Salaverry Basin, 112A12:264–265; 13:317–318;
112B31:507–508; 33:530, 532
- sapropels, 160B21:263–268; 23:289
- Sardinian margin, 107A8:441; 107B34:560
- sediments, 135B41:672–673; 139A5:121, 124–125;
8:479–482; 139B28:503–504; 141A6:110–114;
8:268–269; 9:326–327; 10:387–389; 143A9:341;
143B12:182–183, 187–189; 146A(1)4:79;
146B(1)8:154–155; 151A12:385–395;
151B22:391–405; 156A6:137–138; 7:225;
157A7:358; 164B5:47–58; 7:68–77; 167B12:186–
189; 169A3:117, 119; 4:175, 178; 5:221–222;
6:281–282; 174A_A3:74, 76; 4:123, 127;
175A3:76; 4:103; 5:132, 134, 136; 6:167; 7:193;
8:216; 9:260–261; 10:299; 11:327–328; 12:375–
377; 13:412; 14:446–447; 15:473–474; 175B5:3–
5; 180B(synthesis):15; 10:11; 18:1–14;
184A5:14–15; 7:14–15; 9:17–18; 186B14:8;
188A3:48–49, 180; 4:31; 5:24–25; 189A3:158–
160; 5:154–155; 190A1:34–36, 85; 4:19, 65, 133;
6:18–19, 47, 84; 7:16; 195A3:33–34; 204A3:19–
20; 4:16–17; 5:8–9; 6:12–13; 7:12–13; 8:14–15;
9:12–13; 10:16–17; 11:13; 207A5:114;
210A3:353–355
- Site 642, 104B15:321–326
- Site 643, 104B15:321–326
- Site 644, 104B16:321–326; 32:643, 645; 112B31:513
- Site 680, 112B9:142, 148; 33:533
- Site 681, 112B33:533; 39:597–599
- Site 682, 112A14:399; 112B31:507; 33:530–531, 533
- Site 685, 112B31:508
- Site 688, 112B31:509
- Site 698, 114A5:108–109, 113
- Site 699, 114A6:174, 177
- Site 700, 114A7:276, 280
- Site 701, 114A8:391–392
- Site 702, 114A9:501–502
- Site 703, 114A10:567, 569
- Site 704, 114A11:649, 652
- Site 721, 117A9:235, 237
- Site 722, 117A10:288
- Site 723, 117A11:352–353
- Site 724, 117A12:406
- Site 725, 117A13:433, 439
- Site 726, 117A14:464
- Site 727, 117A15:481, 489–490
- Site 728, 117A16:524–525
- Site 730, 117A18:579, 581
- Site 744, 119A2:34; 13:491
- Site 747, 120A6:119–120
- Site 748, 120A7:213
- Site 749, 120A8:263
- Site 750, 120A9:316
- Site 751, 120A10:358–359
- Site 752, 121A6:137, 140–141
- Site 758, 121A12:419
- Site 765, 123A4:161, 164, 170–171
- Site 766, 123A5:305–306, 312–313
- Site 778, 125A6:105
- Site 779, 125A7:133
- Site 780, 125A8:157–158
- Site 785, 125A13:310
- Site 820, 133A(1)13:525–527
- Site 821, 133A(1)14:585–586
- Site 822, 133A(1)15:639–640
- Site 823, 133A(1)16:710–711, 713
- source rocks, 107A8:440; 151A7:187–189; 12:395
- stable isotopes, 146B(1)21:439–449
- Sulu Sea, 124A8:105; 11:244–247; 124B16:227–231
- Sulu Trench, 124A9:114–115
- summary, 189A1:42
- temperature gradient, 141B20:264–267
- thermal immaturity, 112B26:446
- thermogenesis, 164A9:298; 190A1:85
- total gas samples, 104B16:328–332
- traces, 180B(synthesis):3
- transform faults, 159A1:12
- triaromatics, 155B35:557
- Trujillo Basin, 112B31:507; 33:531, 533; 39:597–599
- Vacutainer samples, 169S_A2:47, 50; 201A11:96
- Vacutainer vs. extracted samples, 112A14:383–385;
17:622–623; 20:904
- vent fluids, 125B1:8
- vs. depth, 133A(1)12:480; 16:720; 146A(1)6:269;
146B(1)26:393; (2)9:130; 150A6:98; 162A8:274;
167B12:191; 184A9:66; 188A1:60; 190A1:85
- vs. retention time, 160A12:439
- vs. total organic carbon, 171B_A3:83
- X-ray fluorescence data, 139A7:321–322, 324–325
- Yaquina Basin, 112A15:458–460; 112B31:507, 509
- See also aliphatic acids; alkanes; alkatrienes; alkenes;
alkenoates; alkenones; alkyl diols; alkyl keto-ols;
alkylbenzenes; aromatic compounds; aromaticity;
bacteriohopanepolyols; benz[a] anthracene;
benzene acetonitrile; benzene/luene ratio; benzenes;
benzofluoranthenes; benzopyrenes; bi-
phytanediols; bitumens; butane; butylene;
cholesterol; chrysene; *cis*-2-butene; clathrates;
coronene; cyclopentane; diasterenes; dichotri-
aenes; dimethylbutane; dinorhopane;
diploptene; esters; ethane; ethane/ethene ratio;
ethane/ethylene ratio; ethene; ethyl ketones;
ethylene; fatty acid methyl esters; fatty acids;
fern-7-ene; ferenes; gas hydrates; gases; hentri-
acontane; heptanes; hexanes; homo-hopane in-
dex; hopanes; hopanoic acid; hopanoid
thiophene; hopanoids; hopanone; hopenes; hy-
drocarbon ratio; indenes; indenopyrene; indole;
iso-butane; *iso*-butylene; *iso*-butylene + 1-
butene; *iso*-hexane; *iso*-pentane; isoprenoids;
kerogen; ketones; Kovats retention indexes;
lignin; lipids; methane; methane/ethane ratio;
methane/higher hydrocarbons ratio; methane/
hydrocarbons ratio; methane/propane ratio;
methanogenesis; methyl; methyl ketones;
methylalkadienone; methylcholesta; methyl-
cholestane; methylcyclohexane; methylcyclo-
pentane; methylhopanes; methylhopanoids;
methyl naphthalene; methylpentane; meth-
ylphenanthrenes; methyl phenanthrene;
methylpropane; methylsteranes; *n*-alcohols; *n*-
alkanes; *n*-alkanols; *n*-alkyls; *n*-butanes; *n*-fatty

- acids; *n*-hexanes; *n*-pentanes; naphthenic envelope; pentacosane; pentakishomo-hopane-ketodiol; pentamethyleicosane; pentane; perylene; petroleum-type compounds; phenanthrenes; phytane; phytene; phytene isomers; polar fraction; polyenes; pristane; pristane/phytane ratio; pristene; propane; propane/propene ratio; propane/propylene ratio; propanotrophy; propene; propylene; propylitization; pyrenes; retene; retention times; stanols; steradienes; steranes; steratriens; sterenes; steroids; sterols; sulfate/methane boundary; taraxerol; terpanes; terpenoids; thianes; thiolanes; thiophenes; toluene; *trans*-2-butene; trimethylbenzene; triterpanes; triterpenoids; unsaturation indexes
- hydrocarbons, aliphatic
 Atlantic Ocean E tropical, 108B20:352
 Baffin Bay, 105B15:234, 237–238, 242
 biomarkers, 207A10:5
 chromatograms, 208A6:25; 7:23–24
 composition, 198A10:32
 compound classes, 108B20:354
 gas chromatograms, 119B23:420
 lower Aptian, 198A3:28–29, 91–92; 10:24
 mass chromatograms, 208A7:59–60; 8:58
 occurrence, 101A10:398, 406
 odd/even carbon number preference, 119B23:419
 organic-rich intervals, 198A9:78–79
 Prydz Bay, 119B22:411–413, 415, 418
 sediments, 146B(2)14:205; 150B18:331; 169A6:284–287
 Site 680, 112B9:142
 steroid/hopanoid elution range, 108B20:359–360
 straight-chain fatty acids, 108B20:354
 Weddell Basin, 113B16:201–203
- hydrocarbons, aromatic
 biomarkers, 207A10:7; 159B43:598
 Lima Basin C, 112B39:598–599
 sapropels, 160B23:287–288
 Site 739, 119B22:409
 vs. depth, 159B43:597
 Weddell Basin, 113B16:202
See also retene; trimethylbenzene
- hydrocarbons, aromatic polynuclear
 maturation, 139B24:458–461
 sediments, 139B15:331–336; 151B23:409
- hydrocarbons, C3+, vs. depth, 178A5:67
- hydrocarbons, cyclic, Baffin Bay, 105B15:233–234
- hydrocarbons, extractable
 chromatograms, 208A3:22–23; 5:16; 6:25; 7:23–24; 8:24–25
 sediments, 208A4:21
- hydrocarbons, free
 chromatograms, 127/128B(1)35:633
 Lima Basin C, 112B33:536–538
 occurrence, 104B16:328
 Site 799, 127/128B(1)35:625, 633
 vs. depth, 166A6:93
 vs. organic carbon, 127/128B(1)35:631
- hydrocarbons, gasoline-range, 141A6:113
- hydrocarbons, generatable, 127/128B(1)35:625
- hydrocarbons, headspace
 Lau Basin, 135A(1)4:127
 occurrence, 104B16:328–329
 Site 891, 146A(1)6:264
 Tyrrhenian Sea, 107A8:444
 vs. depth, 150A7:166; 8:232; 9:283; 10:329; 184A7:54
- hydrocarbons, high-molecular weight
 sediments, 141B22:287–297
 Site 799, 127/128B(1)35:628–629; 128A5:324
- hydrocarbons, hopanoid
 sediments, 162B15:214–215; 175B5:5
 vs. age, 162B15:215
- hydrocarbons, isoprenoid, 162B15:211–214
- hydrocarbons, kerogen-derived, 205A5:112
- hydrocarbons, light
 gas pocket analyses, 186A4:197
 headspace concentration, 186A4:196; 5:114
 sediments, 131B15:185–195
- hydrocarbons, liquid
 Rock-Eval pyrolysis, 165A5:256–257
 sediments, 189A3:41
 Site 799, 128A5:323
- hydrocarbons, long-chain, Lima Basin, 112A11:181–182
- hydrocarbons, low-molecular weight
 age variations, 121B23:461, 465
 Broken Ridge, 121B23:460–462
 hydrogen stripping/thermo vaporization, 121B23:457, 459–460
 intersite variation, 121B23:463, 465
 Ninetyeast Ridge, 121B23:462–465
 sediments, 180B18:5–6
 vs. Broken Ridge sites, 121B23:463
- hydrocarbons, migrated, sediments, 146B(2)14:205–206
- hydrocarbons, nonaromatic
 chromatograms, 157B21:372; 160B22:276
 Lima Basin C, 112B39:597–598
 retention times and Kovats retention indexes, 160B22:274–275
 sediments, 141B9:125–128; 151B23:409; 157B21:369
See also fernenes; hopanes; hopanoids; hopenes; hopenes/hopanes ratio; isoprenoids; moretanes; *n*-alkanes; phytane; pristane; pristane/phytane ratio; steradienes; steranes; sterenes; steroids
- hydrocarbons, nonindigenous, 127/128B(1)35:627
- hydrocarbons, normal, sediments, 162B15:211–214
- hydrocarbons, pentacyclic, 107B34:560–563, 576
- hydrocarbons, polycyclic aromatic
 Norwegian Sea, 104B14:310–311, 314–315, 317
 sediments, 146B(2)14:206; 155B35:555–564; 169A6:284–287
See also alkyl phenanthrenes; alkylbenzenes; amyryns; chrysene; hopanes; lupcol; methylphenanthrenes; perylene; phenanthrenes
- hydrocarbons, pyrolysate, 117B33:549–552
- hydrocarbons, saturated
 biomarkers, 121B24:483
 chromatograms, 121B24:478–480, 484–486; 180B16:14–15
 Peru margin, 112B31:509
 thermal stress characteristics, 121B24:481
- hydrocarbons, saturated C3+, Lima Basin, 112B31:507

- hydrocarbons, sorbed
 occurrence, 104B16:328
 volatile brine association, 112B33:533–534
- hydrocarbons, steroidal
 Baffin Bay, 105B15:235
 Broken Ridge, 121B24:473
 mass fragmentograms, 119B23:422
 occurrence, 103B34:572, 579–582
 sediments, 151B23:410–411
 source and maturity, 119B23:422–423
 Tm/Ts and C31 hopane epimer ratios, 119B23:419
- hydrocarbons, tetracyclic, 107B34:563, 566, 569, 576
- hydrocarbons, thermogenic
 free and sorbed, 139B25:467–477
 gases, 131A6:140, 144, 148
 Lima Basin C, 112B33:533
 microbial divergence indexes, 205B8:10
 molecular composition, 131A6:186–187
 pore water, 131B12:161–162
 ratios, 131A6:192–193
 sediments, 141A6:113, 202–203; 7:341;
 146B(1)26:392–394; 169A6:287–289
- hydrocarbons, total pyrolytic yields, 127/128B(1)35:624
- hydrocarbons, triterpenoid
 mass fragmentograms, 119B23:421
 maturity level, 119B23:419, 422
 Tm/Ts ratio, 119B23:419
 See also fernenes
- hydrocarbons, true sorbed, 112B33:536–538
- hydrocarbons, visible, sediments, 164A9:297–298
- hydrocarbons, volatile
 chromatographs, 159A5:71; 165A5:256; 165B19:293
 cores, 144A3:68; 4:129, 131; 5:179–180; 6:232–233;
 8:304; 10:367; 11:427
 geochemistry, 138A(1)9:152–153; (2)13:704; 14:753–
 754; 15:843; 16:921–922; 143A6:137, 141;
 152A7:82
 headspace analyses, 133A(1)4:115; 5:159; 9:322;
 10:380; 12:478; 13:532; 14:585–586; 15:632–
 640; 16:718; 17:788; 134A9:204; 135A(1)7:318;
 10:537–538; 11:625–628, 630–631; 168A4:85;
 5:137–138; 6:177; 180A11:10
 headspace and Vacutainer analyses, 133A(1)15:644
 opal-A/opal-CT transition, 128A4:323
 sediments, 133A(1)4:105, 110; 5:155–156; 6:191, 193;
 7:219, 222; 8:268, 272; 9:317; 10:371; 12:469;
 13:525–527; 16:710–711, 713; 17:784;
 135A(1)5:218–219; 6:266; 8:367–368; 9:431–
 433; 143A9:331; 151A5:84; 6:131–132; 7:184,
 186; 8:241–242; 9:288; 10:334, 336; 11:368–
 369; 152A8:97; 12:269; 155A6:103; 7:138;
 8:189; 9:215; 10:256, 259; 11:293; 12:345;
 13:398; 14:423; 15:448; 16:475; 17:519; 18:555;
 19:579, 582; 20:608; 21:649; 22:684; 157A4:79;
 5:125–126; 6:156–157; 8:420; 159A5:108;
 160A4:69; 5:113; 6:136; 7:188; 8:250; 9:313;
 10:367; 11:394–395; 12:437–439; 13:459;
 14:485; 162A3:73; 4:113; 5:156; 6:191; 7:243;
 8:271–273; 9:306–308; 10:359–361; 164A5:87–
 88; 6:125; 7:197; 8:262–263; 9:297; 165A3:73;
 4:164–165; 5:256, 258; 6:316; 7:369; 166A6:90;
 7:159–160; 8:187; 9:250; 10:311; 11:360;
 167A(1)4:75; 5:105; 6:146; 7:166; 8:193; 9:232;
 10:261; 11:296; 12:332–333; 13:368; 14:408;
 15:447, 449; 16:475; 170A3:72; 5:171; 7:234–
 235; 172A3:53–55; 4:116, 118; 5:207, 209–211;
 6:272–277; 177A3:12; 4:15–16; 5:19; 6:13; 7:14;
 8:15–16; 9:12; 178A4:20; 5:16–17; 6:13; 7:12;
 8:12; 9:15; 180A5:34; 6:59; 7:22; 8:32; 9:45;
 10:17; 12:40; 181A3:24; 4:20; 5:22; 6:30–31;
 7:40; 8:33; 182A4:29; 5:17–18; 6:27; 7:19–20;
 8:23; 9:17–18; 10:23; 11:13; 12:19; 184A4:18;
 186A5:25, 114; 189A3:40–42; 4:20; 5:44–45;
 6:49–50; 7:42–43; 194A3:14; 4:20–21; 5:16;
 6:12–13; 8:17; 9:15; 198A3:27; 4:24; 6:23; 7:22;
 8:20; 9:26; 205A4:48; 5:34–35, 112; 6:18–19;
 208A3:19–20; 4:17; 5:14; 6:22; 7:21; 8:21;
 210A3:95
 Site 794, 127A4:119
 Site 795, 127A5:213–216
 Site 796, 127A6:285–289
 Site 797, 127A7:368, 378
 Site 798, 128A1:32; 4:125, 175–176, 185–189
 Site 799, 128A1:32; 5:244–245, 321–322, 330–333
 Site 881, 145A3:54
 Site 882, 145A4:98
 Site 883, 145A5:153
 Site 884, 145A6:242
 Site 887, 145A8:357
 Sites 885–886, 145A7:313, 315
 thermogenic origin, 128A4:322
 volcaniclastics, 157A9:459–461; 10:523
 vs. depth, 133A(1)13:534; 14:587; 15:646; 16:721;
 141A6:116
 vs. temperature, 133A(1)12:479, 481; 13:533, 535;
 14:586, 588, 645; 15:647; 16:719
 See also ethane; methane; methane/ethane ratio
- hydrochloric acid, volcanism, 183A1:38
- hydroclastic eruptions, subaerial, Aptian, 192A3:13
- hydroclastics, sediments, 152A1:15
- hydroclastite, lithology, 210B9:11–13
- hydroclasts
 petrology, 141A9:315–316
 tuffaceous clayey siltstone shards, 128A3:89–90
 volcanic glass, 136B4:62
- hydroclasts, vesicular
 blue tuff, 127/128B(1)8:117, 130
 pressure compensation level, 127/128B(1)8:119
- hydrofractures
 carbonates, 146B(1)6:129–130
 density, 171A_B3:8–10
 experiments, 123A3:52–53; 4:75
 fluid pressure, 156B17:236–237
 microfractures, 193B9:4–7
 nondécollement site, 156B23:298–299
 permeability, 156B9:132–134
 stress, 146B(1)22:356–357
- hydrofracturing
 clasts, 158B18:243–244
 photograph, 153A3:100
 stresses, 137/140B21:251–252
 See also fracturing

- hydrogarnet
 photograph, 153A3:85
 Site 778, 125B18:333
See also garnets
- hydrogarnet, titanium
 geochemistry, 206B9:1–6
 photomicrograph, 206B9:4
- hydrogen
 Baffin Bay, 105A4:111; 105B13:200, 206
 basalts, 142B4:32–34; 183A8:119
 concentration, 201A12:59
 fluid inclusions, 153B22:406
 Galicia margin W, 103A8:149
 geochemical logs, 114A11:697–700; 118A6:174, 178;
 127/128B(2)65:1023–1024; 139A7:486–487
 lithology, 183A7:211; 9:41
 measured spectra, 129B34:636
Methanosacta, 201B2:7
 neutron porosity tool, 102B3:34
 oceanic anoxic events, 198A3:128
 organic source, 127/128B(1)35:629
 peridotites, 209A6:28
 pore water, 191A4:22; 201A6:81; 7:89; 204B17:1–20
 porosity, 118B14:262
 Rock-Eval pyrolysis data, 171B_A6:285
 sediments, 139A5:125–128; 6:201–203; 7:326;
 168A4:86; 5:139–140; 6:177; 171B_A4:140–141,
 144; 5:206, 213–215; 6:284–285, 290–292;
 7:332–333, 339; 183A3:18, 59; 4:29, 95; 5:200;
 6:59, 204; 7:54, 211; 8:27, 118; 9:137;
 183B7:22–23; 189A3:154–157; 4:58; 5:150–153;
 6:159–162; 7:134–137; 190A4:21, 135–137;
 5:137–140; 6:18, 85; 7:75; 8:17–18, 85–86;
 9:101; 191A4:136–137; 198A3:27–28; 6:23, 81;
 9:102; 10:13, 31; 210A3:96, 349–352
 serpentinization, 147B14:278
 Tyrrhenian Sea, 107A7:314
 volcanics, 183A5:201; 6:205
 volcanoclastics, 183A4:96
 volcanics and volcanoclastics, 183A7:212
 vs. depth, 139A5:133–137; 7:349–350; 8:491–495;
 204B17:10–16
 vs. total organic carbon, 144B51:905
 weight percentage vs. depth, 139A6:209–210
See also chloride/hydrogen ratio logs; chlorine/hydro-
 gen ratio; magnesium-calcium-silicon-oxygen-
 hydrogen system; tritium
- hydrogen, dissolved
 community structure, 201A1:17
 microbial activity, 201A1:13
 pore water, 201A1:21, 24, 29, 33, 42; 6:17; 7:17; 8:16,
 62; 9:14; 10:16; 11:93; 12:14
 sediments, 201A9:66
 vs. depth, 201A6:44; 7:48; 8:37; 9:39; 10:41, 72;
 11:51; 12:33
- hydrogen, total
 sediments, 194A6:89–90; 7:140–142; 8:81–82; 9:72–
 73
 vs. depth, 168A4:86; 5:146; 6:185
- hydrogen/carbon ratio
 Lima Basin C, 112B9:148
- methane, 146B(2)15:213–218
 organic matter, 175B6:6–7
 Pisco Basin W, 112B9:148
 Site 680, 112B9:140, 148
 Site 681, 112B9:148
 vs. age, 146B(2)15:216
 vs. carbon isotopes, 146B(2)15:215
 vs. depth, 189A5:41, 87
 vs. nitrogen/carbon ratio, 146B(2)15:216
 vs. oxygen/carbon ratio, 143B12:189
- hydrogen index
 Albian black shale, 171B_A3:76–77, 81
 black shale, 210B10:4–5
 Broken Ridge, 121A8:218, 493; 121B24:472, 476
 chromatograms, 127/128B(1)35:627
 dark layers, 162A8:274
 dark-light cycles, 127/128B(1)25:431–432
 Gortani Ridge, 107B33:542
 hydrocarbons, 157B21:366
 Indus Fan, 117A8:182
 Kerguelen-Heard Plateau N, 119A5:144–145; 10:198–
 199
 kerogen, 144A8:308; 198A3:28
 Lima Basin, 112A19:821, 823–824; 112B9:142
 liptinite vs. hydrogen index, 143B12:188
 lower Aptian, 198A1:128; 198B1:37
 mineral matrix effect, 123B11:217–219
 Ninetyeast Ridge, 121B24:472, 476
 Oman margin, 117B36:588, 590
 Oman margin vs. Owen Ridge sites, 117B34:565
 organic carbon, 117A14:463; 18:580
 organic matter, 127/128B(1)35:628; 146B(2)9:128;
 150B18:336–337; 159A5:106, 108; 6:190–192;
 161A6:233; 7:318; 9:403; 162A9:308;
 166A7:160; 167A(1)9:233; 172A5:216; 6:278,
 281, 284; 174A_A3:76–77; 4:127–128;
 175A3:75–76; 4:102–103; 5:132; 6:167; 7:192–
 193; 8:216; 9:258, 260; 10:298; 11:327; 12:375;
 13:412; 175B6:6–7; 181A7:41; 184A5:16; 9:20–
 21; 188A5:25; 198A3:30–32; 207A7:26
 Owen Ridge, 117B36:588, 590
 Owen Ridge vs. Oman margin sites, 117B34:565
 Pisco Basin W, 112A18:724–725, 731; 112B9:142;
 38:582–586
 Pliocene–Pleistocene variations, 159B41:564–568
 Prydz Bay, 119A10:388; 11:426, 469; 119B22:408, 410
 Quaternary, 161B36:464
 Rock-Eval pyrolysis, 141B9:125; 151A7:189;
 159A5:107; 6:193; 171B_A6:285; 175A3:82;
 4:109; 6:173; 7:193; 8:218; 9:264; 10:304;
 11:334; 12:375; 13:420; 182A7:73; 194A3:75;
 7:143–144; 201A11:18, 97–98
 sapropels, 160B22:273–274
 Sardinian margin, 107B33:542; 34:542
 sediments, 141A6:114; 143B12:180, 183; 150A6:96;
 8:232; 9:285–286; 151A5:86; 7:193–194;
 155A7:140; 8:192; 157A6:166; 159A7:244;
 8:283; 160A6:137; 7:189; 8:251; 11:396;
 162A8:277; 9:313; 164A5:87; 9:298; 164B5:54;
 172A3:55, 60; 4:133; 5:223; 174A_A3:77; 4:128;
 184A5:81; 6:61; 7:95; 9:116; 188A5:91;

- 189A3:38, 158–159; 5:41, 154–155; 6:45, 47, 163–164; 7:41, 138; 194A3:16–18, 74; 4:23, 112–114; 5:18, 102–103; 6:14; 7:25–26; 8:18–19; 9:17–18; 198A1:148; 204A3:120; 205A5:112; 6:19; 207A4:23, 104; 5:111; 7:104; 8:94; 210A3:353–355
- Site 680, 112B9:142; 26:446–448
 Site 681, 112B9:142; 38:581–586
 Site 682, 112A14:386–387
 Site 685, 112A17:628
 Site 688, 112A20:909; 112B26:447–448
 Site 721, 117A9:234–235, 243
 Site 722, 117A10:296–297; 117B31:526; 33:548–549
 Site 723, 117A11:353; 117B31:524; 33:548–549
 Site 724, 117A12:406
 Site 727, 117A15:481, 488
 Site 728, 117A16:524; 548–549
 Site 730, 117A18:579
 Site 748, 120A7:212–213
 Site 750, 120A9:316
 Site 754, 121A8:219
 Site 765, 123A4:160
 Site 794, 127A4:115–118
 Site 795, 127A5:213, 219
 Site 796, 127A6:285
 Site 797, 127A7:367
 Site 798, 127/128B(1)25:425–426; 38:668–669; 128A4:177, 196
 Site 799, 127/128B(1)25:427, 429; 35:624; 38:668–669
 Trujillo Basin, 112A16:549, 554
 vs. age, 146B(2)9:133; 151B22:405; 159B41:568
 vs. depth, 146B(2)9:130; 151A5:87; 12:394; 151B22:393, 398; 152B24:284; 159A8:284; 162A9:313; 166A7:161; 167A(1)9:235; 189A5:87; 6:100; 7:80; 194A3:49; 4:82; 5:67; 6:51; 7:88; 8:55; 9:46; 210A3:281
 vs. kerogen, 141B23:305
 vs. liptinite, 143B12:188
 vs. marine maceral content, 127/128B(1)38:670
 vs. maximum temperature, 159A5:108; 182A7:47
 vs. organic carbon, 160A7:195; 8:260; 10:370; 160B22:275; 161A6:256; 161B29:387
 vs. organic richness, 143A7:224
 vs. oxygen index, 108A2:50; 116A4:58, 62, 63; 5:104–105, 108; 6:165, 167–168; 117A11:355; 12:411; 14:463; 15:488; 16:526; 18:581; 117B31:522; 33:551; 121A13:495; 141A6:119; 7:215; 8:279; 141B9:124; 23:303; 143B12:186–187; 144A5:183; 149B13:298, 313; 46:710; 150A6:98; 7:167; 8:235; 9:287; 151A12:394; 151B22:402; 152A8:100; 11:233; 156A6:143; 7:238; 157A6:173; 10:545; 157B21:365; 160B22:274; 161A4:90; 5:150; 6:256; 7:329; 8:385; 9:409; 161B29:387; 162A9:307–308, 314; 164B5:53; 167A(1)9:235; 168A4:87; 5:147; 171B_A6:294; 172A3:60; 4:133–134; 5:223; 6:284; 7:317; 175A3:82; 4:109; 6:172; 7:194; 9:264; 10:304; 11:334; 12:375; 13:420; 175B6:17; 180B16:11; 181A7:98; 184A9:67; 198A1:141; 3:90; 9:26–27, 77; 207A4:55; 5:65; 6:63; 7:59; 8:56; 210B10:10
 vs. temperature, 143A7:223; 143B12:186; 159A6:192; 161B29:389; 207A1:77
 vs. total organic carbon, 117B31:520, 523; 175A6:172; 7:194; 9:264; 10:304; 11:334; 12:375; 13:420; 175B6:18; 202A5:15, 45; 6:16, 50; 8:70; 11:17, 56
 Yaquina Basin, 112A15:463; 112B38:582–586
 hydrogen index, Rock-Eval, vs. organic carbon, 161A4:90; 5:150
 hydrogen index, whole-rock, vs. hydrogen index, 143B12:188
 hydrogen index/oxygen index ratio, 151A7:189
 hydrogen intensity
 sediments, 192B4:1–6
 vs. depth, 192B4:5
 hydrogen isotopes
 Antarctic Bottom Water comparison, 119B19:383
 Atlantis Bank, 118B6:133, 135–136
 chlorite and tremolite, 147B14:280
 chlorite/saponite mixed-layer clays, 127/128B(2)55:888
 depletion in meteoric waters, 119B19:388
 gabbros, 118B6:129–131
 gas hydrates, 112B32:523–524
 gas pockets vs. pore water data, 124B16:229–230
 hydrothermal alteration, 139B12:291–305; 147B13:249–250
 Lima Basin S, 112B25:431
 methane, 146B(1)21:439; 204B15:5
 mineral separates, 147B13:247–248
 Peru margin, 112B25:431, 436
 Pisco Basin W, 112B25:431
 pore water, 119B19:384, 386–387; 127/128B(1)36:639, 641–643; 129B16:295–302; 144B58:997–999; 166B8:94; 174A_B2:1–11; 184B13:11; 195B9:4, 14; 204B13:3–4
 Prydz Bay, 119B19:377
 Salaverry Basin, 112B25:431
 saponite clays, 127/128B(2)55:888
 secondary calcite, 127/128B(2)55:888
 sediment/water interface, 119B19:385
 sediments, 141B24:307–312
 Site 794, 127/128B(1)36:641–643
 Site 795, 127/128B(1)36:641–643
 Site 796, 127/128B(1)36:641–643
 Site 797, 127/128B(1)36:641–643
 troctolites and gabbros, 147B14:280–281
 Trujillo Basin, 112B25:431
 veins and clay fraction, 147B13:249
 vs. depth, 144B43:739–741; 56:988; 147B14:278–279; 148B34:423; 168B9:107–109, 111, 113, 115; 174A_B2:7–8; 195B9:10
 vs. oxygen isotopes, 127/128B(1)36:643; 195B9:10
 vs. potassium, 127/128B(2)79:1273
 vs. rubidium, 127/128B(2)79:1273
 weathering effects, 119B19:381, 383
 Yaquina Basin, 112B25:431, 435
 See also deuterium; deuterium/hydrogen ratio; tritium
 hydrogen/(silicon + calcium) ratio
 vs. depth, 160A8:271; 165A4:193
 See also porosity logs

- hydrogen sulfide
accretionary wedges, 146A(1)9:396
bacterial mats, 204A8:13
black shale, 207A4:24–26
core void gas, 204A4:112–113; 7:68; 10:102–103
decomposed gas hydrates, 204A5:59; 7:69; 9:86
diagenesis, 168A4:80
enrichment cultures, 187B6:25–26
Exuma Sound, 101A9:348
fluid inclusions, 144B48:861–864
gas hydrates, 146B(1)25:382–383; 30:432
gas venting, 164B1:6
gases, 139A7:489; 169S_B1:37–38
geochemistry, 139A6:197
hydrothermal fluids, 139B20:398–399
Maldives Ridge, 115A11:857; 115B41:756
pore water, 139A7:479; 177A6:14; 8:17; 195A3:38–40;
201A1:46; 202A9:18; 12:15; 204B19:1–13
profiles, 146A(1)7:374
sediments, 138A(1)11:297; 139A7:319–320; 8:479–
482; 141A9:326–327; 146A(1)7:333, 341;
146B(1)8:152; 26:387–388; 27:406; 177A1:16;
164A8:263; 166A7:159–160; 8:187; 10:311;
11:360–361; 169A3:117, 119; 4:178;
175A10:299; 12:375; 182A1:14–15, 20–21, 27,
32, 35; 5:17–18, 20; 7:20; 8:23; 9:18, 20; 10:23;
182B1:10–12
shallow presence, 127A6:259–260
Site 766, 123A5:306
Site 779, 125A7:126
Site 780, 125A8:159
sulfur isotopes, 204B19:1–13
Vacutainer, 169S_A2:48, 51
vent fluids, 125A1:12; 125B36:595
vs. depth, 146A(1)7:336; 146B(1)26:388; 164A8:268;
166A7:161; 8:187; 11:361; 182A5:41–42; 7:45;
9:40; 182B1:29; 195A3:115; 201B1:40–41; 6:15–
16; 19:9–10
- hydrogen sulfide index
vs. depth, 144B48:864, 866
vs. nitrogen index, 144B48:862
- hydrogen yield, vs. neutron porosity, 138A(2)17:1015
- hydrogenesis, hardgrounds, 144B22:423
- hydrogeochemistry
aquifers, 150X_B24:320
pore water, 135B42:677–688
- hydrogeologic summary, New Jersey coastal plain,
174AXS_A4:3
- hydrogeological properties, sediments, 139B40:627–647
- hydrogeology
accretionary wedges, 146B(1)7:137–148
active mounds, 158A2:19–21
Chile triple junction, 141B29:363–372
faults, 146B(1)18:291–297; 23:365–366
gas hydrates, 146B(1)8:152
hydraulic conductivity, 141B32:401–405
illite chemical reactions, 146A(1)5:190
impedance vs. seismic profiles, 146A(1)4:109
lower Miocene, 150X_B24:318–320
Nankai accretionary prism, 131A7:273–285
oceanic crust, 144A9:313–314
sediments, 131B37:493–512; 156B24:303–310
vs. depth, 146A(1)4:93
- hydrographic fronts, sapropels, 160B3:34
- hydrography
age models, 189B9:8
basins, 165B4:86
circulation, 161A1:12–13
climate, 141B17:235
coastal plains, 150A1:6
Cretaceous–Paleogene, 171B_A1:7
currents, 175B18:3–4; 181A1:6–7
Miocene–Pliocene interval, 159B40:539–555
ocean circulation, 175B11:2–3; 189A1:10–11
oxygen isotopes, 161B39:500–501
Pacific Ocean E, 138B22:503–504
paleoceanography, 172A1:9
Southern Ocean, 177A1:6–7
stable isotopes, 143B14:231–232
surface waters, 139B2:40
surface wind, 159B40:549–551
temperature, 165B16:239–240
- hydrography, intermediate-water
benthic isotope record, 117B17:299–300
coastal upwelling, 117B17:299
- hydrography, mixed-layer, lower Pliocene, 202B13:8–9
- hydrogrossular
calcium metasomatism, 209A3:20
Conical Seamount, 125B36:605
photomicrograph, 147B14:289, 291; 209A6:85
Site 778, 125B18:333; 19:347
- hydrologic evolution, oceanic crust, 144B39:649–663
- hydrologic properties, sediment cores, 204B1:13–14
- hydrologic regime, sediment/basalt interface,
139B42:667–675
- hydrological seals, tools, 139A3:43–53
- hydrology
alteration zones, 169A3:87
Aoba Basin, 134B8:109–130
carbonates, 164A8:266
convergent margins, 205A1:11–13; 205B1:7–8
CORK-II, 205A2:1–36
décollement zone, 190A1:8
gas hydrates, 164A1:8
heat flow, 137/140B28:323–324
New Hebrides forearc, 134B8:109–130
pressure, 156B15:205–207
sediments, 180B22:1–22
transport-reaction model, 205B6:1–26
See also Kohout convection
- hydrolysis
alkaline sediments, 135B44:712–713
basalts, 135A(1)8:365; 165B19:294
organic matter, 201B10:3
- hydrolysis, low-temperature, basalts, 130A12:549–551
- hydromagnesite, Site 778, 125B19:355
- hydromica
alteration, 144B28:479–480, 484–487
carbonates, 144B26:462–466
photograph, 144B26:468
sediments, 139B8:115–116; 141B7:99
- hydrophones, seismic surveys, 164A3:45

- hydroschorlomite, with celadonite, 206B1:7
 hydrostatic pressure, 148B31:397–400
 hydrostratigraphy
 aquifers, 174AXS_A7:56
 Millville Site, 174AXS_A5:16–42
 Neogene, 174AXS_A7:30
 Upper Cretaceous, 174AXS_A6:59–60
 vs. depth, 174AXS_A4:36
 hydrosweep data, shaded relief maps, 190A2:12
 hydrothermal alteration group, Site 778, 125B19:355
 hydrothermal activity
 alteration, 157B26:429–439
 Bengal Fan, 116B11:135–139
 cerium anomaly, 127/128B(1)42:729
 Chile Rise, 141A1:5–7
 evidence, 157B26:433, 435
 fluid inclusions, 157B26:429–439
 Neogene, 138B37:774–777
 sea level rise, 115B36:667
 sediments, 138A(2)18:1037; 138B37:769–778
 timing, 157B26:435
 See also alteration; diagenesis; oxidation; reduction
 hydrothermal alteration
 anhydrite, 169A3:82
 assemblages, 153B4:68–69
 basaltic andesite, 135B39:647–651
 basalts, 144B28:487; 39:658–662; 169A5:213–214;
 192B7:8; 198B1:3–4; 200B2:14; 209A7:9–10
 basement rocks, 131A6:155; 158B19:255–276
 blue-green clay, 169A3:81–82
 boundaries, 169B10:15
 breccia, 159B10:98; 161B25:335–336; 173A7:175–177,
 194–195; 180A1:15; 183A7:42–43; 198A9:49;
 209A5:12
 brecciation, 129B25:456
 bulk properties, 129B27:487; 153B10:199–205
 carbonate, 169A3:82
 chemical composition, 129B22:424; 139B22:429–438
 chlorite, 169A3:82–84
 clay, 144B19:392–393; 169B6:7–9; 178B8:8–9
 clinopyroxenites, 153A3:80–81
 comparison to hydrothermal effects, 148B34:431
 convection, 123B9:198
 Costa Rica Rift, 111B14:162–164
 cross section, 139A7:519
 crystalline rocks, 153A6:255
 demagnetization, 139B31:535–542
 diabases, 137/140B8:99–106; 153A3:85–86;
 153B19:370–373
 diagenesis, 131B28:352
 distribution, 158B28:407–409
 downhole and cross-hole variations, 153A3:88–91;
 4:158; 5:202–203; 6:242–244; 7:267
 elastic-wave velocity, 144B40:667–670
 epidote, 169A3:85
 eruptions, 192A1:30
 faults, 135B20:315–316; 180A1:13–14
 felsic rocks, 135B40:653–663
 fluids, 141B25:318–319; 148A3:148–149
 fractures, 169A3:39
 gabbros, 147A1:10–11; 153A3:81–85; 4:152; 5:195–
 201; 6:235–238; 7:265–267; 153B9:159–161;
 176A1:14–16; 209A5:12; 10:12–17; 209B1:8–11
 geochemistry, 135B43:689–707; 137/140B16:191–
 205; 138A(2)15:840–842; 139A5:128–129;
 8:495–499; 139B6:98; 11:207–289; 12:291–305;
 14:313–328; 23:443–446; 141B36:431;
 147B26:448–450; 148B4:39–55; 153A3:65–66;
 180A12:39; 205B1:16–17; 3:1–16
 geothermometry, 137/140B15:167–189
 granite porphyry, 180A7:13
 greenschist facies, 153B21:389–398
 harzburgites and dunites, 209A5:11–12
 helium isotopes, 142B4:32
 hydrocarbons, 139B25:474
 hydrothermal emanation, 129B2:42
 hydrothermal veins, 153B9:155–178
 igneous rocks, 209A5:13–34; 209B4:3–4
 intensity vs. depth, 209A3:90
 isotopes, 129B21:406; 147B13:243–250; 148B5:57–69;
 153B15:313–315
 Juan de Fuca Ridge Middle Valley, 139A6:259–263
 Jurassic, 129B19:362–362; 185A1:18; 3:30–31
 lava flow units, 144B38:645–646
 lithology, 169A6:267–268; 183A4:12; 192A1:19–21,
 25–26; 209A6:10–18; 9:7–11
 low-grade, 176B1:1–24
 low-temperature, 206A3:71; 206B1:7
 mafic rocks, 139B38:606–608; 209A7:9–10
 magnesium metasomatism, 169A6:259
 magnetic properties, 137/140B22:258–259;
 139B30:528–529
 mass balance, 153B21:394–395
 metadiabase, 180A7:15; 8:17
 metamorphism, 147B31:497–513
 mica schist, 180A7:12
 microfossils, 139A6:183
 middle Oligocene, 180B2:13
 mineralogy, 139B8:113–131; 9:133–154; 10:165–187;
 147B13:237–243; 169A3:83; 187A13:10
 nannofossils, 139B5:64–69
 nitrogen, 148B1:6
 oceanic crust, 111B4:43–45; 9:97–98; 11:130; 12:140–
 141; 14:164–165; 148B34:417–434
 oceanic mantle, 147B15:293–309
 olivine-bearing ultramafic rocks, 153A3:57
 oxides and sulfides, 153B30:523–529
 palygorskite, 159B15:149
 paragenesis, 165B14:228–230
 pedogenesis, 144B51:908–909
 peridotites, 153B3:35–59; 12:265–275; 29:518;
 209A1:14, 18–20, 26–28, 42–43, 61–62
 petrography, 147A1:11–12
 petrologic and stable isotopic constraints,
 147B14:255–291
 petrology, 139A6:213–231; 144B29:500; 147A1:13;
 153A3:72–91; 4:151–158; 5:193–204; 6:235–
 244; 7:265–267; 179A4:42–44; 180A11:5
 photograph, 144B36:630; 147B13:234; 153A3:54, 85,
 89–90; 4:154–158; 5:196–199; 6:243–245;
 7:264–265; 153B6:119; 169A3:70–75, 77–82,

- 85–86; 185A3:81; 206A3:237, 244; 210A1:68;
3:238–240
photomicrograph, 129B22:421; 185A3:117;
193A3:119; 210A3:246
Pigafetta Basin, 129B19:367–368
plagioclase inclusions, 148B7:91–94
pore water, 169A6:279
preferred orientation, 141B8:110
processes, 148A2:52–53
pyrite, 169A3:85–86
radiometric ages, 129B20:389–390
reactions, 139B11:212–213
recrystallization, 129B22:419
regional variations, 139B1:19–21
ridge flank, 148B35:435–450
rifting deposition, 121B21:444; 145B27:413–434;
38:593
seamounts, 144B37:638
secondary minerals, 142B9:71–74; 148B6:71–86;
209A3:11–13
sediment/basalt interface, 139B42:667–675
sediment geochemistry, 135B52:838–841
sedimentation, 192A6:9–10
sedimented rift, 139B44:695–717
sediments, 139A6:203–213; 7:326–330; 139B2:41–43;
5:155–206; 15:307–312; 25:447–465; 37:581–
582; 47:728; 141B7:101–104; 33:413;
145B15:244; 169A3:78–87; 200A1:21–22; 3:56–
57
seismic structure, 139B1:7–8; 37:593
sequences, 158B18:241–243; 19:266, 268; 22:307
sheeted dike complexes, 137/140B14:155–166
sills, 139B6:90–96; 43:679–693; 198A9:17; 210A3:68
Site 801, 129A3:106–107, 143–144
Site 855, 139A5:128–140
Site 1188, 193A1:14; 3:33–51
Site 1189, 193A1:18–19; 4:23–34
Site 1190, 193A1:22; 5:5–6, 11
Site 1191, 193A1:22; 6:4–6
Site 1271, 209A1:37–38
Site 1274, 209A1:47–50
spreading centers, 147B10:189–212
submarine, 183B1:19–20
subseafloor, 193B1:12–29
sulfides, 139A6:176–179; 139B17:355–385;
158A7:103–109, 113–114; 169A3:78–87
TAG area, 158A8:160–163; 10:193–199; 11:219–220
temperature, 139B41:660–664; 153B9:167–170;
193B1:23–24
titanium, 176A3:25–26
ultramafic dikes, 209A5:12
ultramafic rocks, 153A3:56–57; 209A7:7–9
upper ocean crust, 148B10:119–150
variability, 135B5:75–86
veins, 169A3:75; 176B9:19–22
volcanic glass, 142A4:59, 64
volcaniclastics, 134B9:131–176
volcanism, 157A2:16–17
vs. density, 209A1:126
vs. depth, 153A3:80, 117; 4:153, 174–175; 5:195–196,
213; 6:242, 256; 7:267; 176A3:135–141
vs. magnetic susceptibility, 209A1:126
vs. remanent magnetization, 153B24:432
vs. vein abundance, 176A3:137
websterite, 153B16:325–328
zinc oxide, 147B8:169
zoning, 139B11:251; 169A3:78–87
See also alteration; alteration fronts; alteration halos;
authigenesis; basalts; breccia; cementation;
chalcopyritization; chimneys; chloritization; di-
agenesis; feeder zones; iddingsitization; mag-
matic-hydrothermal transition; metasomatism;
pyritization; quartzification; reaction coronas;
reaction rims; reaction zones; rodingitization;
secondary minerals; serpentinization; silicifica-
tion; wall rock alteration; weathering
hydrothermal anomalies, geochemistry, 131B28:360–
361
hydrothermal chimneys, heat flow, 168A2:30–31
hydrothermal circulation
absence, 102A3:133, 137
alteration, 129B14:273
basement, 111B17:207–208
Bengal Fan, 116A5:92
carbonate veins, 168B11:146
Costa Rica Rift, 111A3:37; 111B8:94–95; 11:130
fluid inclusions, 157B26:433
heating, 159B5:46
Juan de Fuca Ridge Middle Valley, 169A1:7–16
Kerguelen Plateau central, 120B(1)5:73
models, 169B9:8, 25
oceanic basalts, 102B3:41
oceanic crust, 111A2:28, 30; 4:254–255; 168A1:7–2;
4:50
Site 786, 125B14:264
spreading centers, 158A1:5–14
transform faults, 159B6:51–52
upper igneous crust, 168B1:3–5
velocity in oceanic crust, 102B8:106
volcaniclastics, 129B7:173
water budget, 205B6:11
hydrothermal component
chemical composition, 169A6:281
near sulfide outcrops, 169A6:281
hydrothermal deposits
distribution map, 193A1:38
sulfides, 169A6:257–258
hydrothermal fields
geology, 139A7:435–436; 193A1:5–7
lead isotopes, 158B8:105–108
maturation, 139B28:504
tectonics, 158A1:6–8
hydrothermal fluids
alteration, 148B11:158; 35:444
basement, 148B35:446
carbonates, 151B24:425–429
composition, 169A3:113; 4:173
dissolution, 169A3:117
fluid inclusions, 158B14:187–188
geochemistry, 139B20:395–410; 158B6:88–89
hydrothermal alteration, 139B12:298–302
hydrothermal vents and dikes, 148B5:66–67

- isotopes, 147B14:277
- mineralization, 169A6:258–259
- organic matter, 141B22:295
- origin, 137/140B15:182
- osmium isotopes, 158B7:97–98
- oxygen isotopes, 147B12:231
- phase separation, 193B1:29
- pore water, 169A4:175
- quartz, 159A6:188
- rare earths, 147B3:66; 158B12:152–155
- stresses, 137/140B21:251–252
- temperature, 147B14:280–281
- vs. depth, 152B24:284
- vs. oxygen index, 152A8:100; 11:233
- hydrothermal fluids, methane-bearing, 118B9:209
- hydrothermal fluids, volatile-rich, 129B19:367
- hydrothermal mounds
 - active zones, 158A2:18–19; 158B18:231–254
 - anhydrite precipitation, 158B10:119–127
 - comparison of massive sulfides, 158B28:389–415
 - geochemistry, 158B4:47–70; 27:363–387
 - growth and evolution, 158B1:21–23; 28:405–408
 - heat flow, 158A3:23–29
 - hydrothermal fields, 158A1:7–8
 - oxygen isotopes, 158B11:129–141
 - petrology, 158B1:5–26
 - stratigraphy, 158A1:11–13; 7:67–68; 158B1:14–17
 - stockwork complexes, 158B28:404–410
 - strontium and oxygen isotopes, 158B22:297–309
 - structure and morphology, 158A2:15–21; 158B28:392–394
 - sulfur isotopes, 158B5:71–84
- hydrothermal processes
 - crustal thinning, 180B(synthesis):18–19
 - drilling sites, 139A1:5–7
 - gabbroic and basaltic rocks, 147A3:77–78
 - geochemistry, 138B36:760
 - hydrous fluids, 149B32:546–548
 - peridotites, 149B22:406, 409–410
 - vein minerals, 136B10:123–127
- hydrothermal pulses, fluid inclusions, 137/140B16:197
- hydrothermal reactions
 - chemistry, 209A9:11
 - fluid circulation, 176B9:21–22
 - metamorphism, 176A3:45–47
- hydrothermal solutions
 - composition, 157B26:436
 - deposition, 139A6:165
 - dusky green halos, 192A6:18
 - evolution in oceanic crust, 124B17:233
 - mineral precipitation, 157B26:436
- hydrothermal systems
 - comparison of sulfur isotopes, 158B5:77–79
 - constraints on thermal evolution, 147B10:204–207
 - dilation, 193B1:28–29
 - distribution map, 193B1:53
 - event frequency, 193B1:24–25
 - fast-spreading centers, 147B10:189–212
 - fluid inclusions, 139B21:411–428
 - mineral chemistry, 193B3:1–31
 - permeability, 139B39:613–626; 193B13:1–19
 - redox, 158B7:98–99
 - Site 859, 141A6:133–134
 - spreading centers, 158A1:5–14
 - sulfides, 129B19:369; 169A3:41–42, 52–53
- hydrothermal systems, felsic-hosted
 - active systems, 193B1:1–71
 - dacite lava, 193B2:1–31
- hydrothermal traces, accretionary wedges, 141B7:103
- hydrothermal units, lithology, 185A3:13, 30–31
- hydrothermal veins. *See* veins, hydrothermal
- hydrothermal vents
 - Archaea, 201B2:5
 - provenance of trace elements, 160B16:202
 - subsurface biosphere, 158B26:356–359
 - See also* vents
- hydrothermal zones, well logging, 144A9:320–322
- hydrotroilite
 - lithology, 155A6:93; 8:178–180; 9:204, 207; 10:245–246; 11:277; 12:325; 13:387–388, 391; 14:412; 15:443–445; 16:466; 17:507; 20:601; 21:637–638; 22:62; 155B40:636–637; 174A_A5:157–159
 - photograph, 155A7:135; 9:208; 11:279; 15:444–445; 16:469; 18:546
 - remineralization, 155B30:502–503
 - sediments, 155B37:573, 672
 - silt, 174A_A3:45
- hydrovolcanics, sources, 136B7:88
- hydroxides. *See* boehmite; brucite; cummingtonite; diaspore; ferroxhyte; gibbsite; haapalite; io-waite; lepidocrocite; lithiophorite; manganite; pyrophyllite; sjogrenite mineral group
- hydroxybenzyls
 - biomarkers, 159B43:597
 - sediments, 159B43:590
 - vs. depth, 159B43:590, 598
- hydroxycarbonates, magnesium, 125B18:333
- hydroxychlorite, clay alteration, 209A7:8–9
- hydroxydotriacontan-15-one, 161B30:395–396
- hydroxyl ion, phase equilibria, 179B2:44
- hydroxyls
 - alteration, 168B10:122
 - See also* takovite
- hydroxytriacontan-15-one, 161B30:395–396
- hydrozoans
 - Cretaceous, 143B1:11
 - dolomite, 103B11:181
- hygromagmaphile elements, 127/128B(2)47:783
- hypabyssal rocks
 - petrology, 153A3:62–64
 - See also* intrusives; mafic rocks; ultramafic rocks
- hypautochthonous origin, coal, 180B10:10–11
- hyperoligotropic productivity. *See* productivity, hyperoligotropic
- hyperpycnal flows, Cenozoic, 194A3:7
- hypersaline fluids
 - calcium/magnesium ratio, 112A6:563
 - chloride, 112B25:424; 112B30:500
 - diagenetic effect, 112A6:562
 - geochemistry, 112A12:266; 18:727
 - Lima Basin, 112B33:527
 - methanogenesis, 112B31:507

- migration, 112B33:533–534
 Oman margin S, 117A14:466
 organic sulfur, 112B27:463
 origin, 112B25:424, 429; 29:487
 Peru margin, 112A1:18–20
 Pisco Basin W, 112B25:424; 33:527
 pore water chemistry, 112B25:424
 potassium/chloride slope, 112B25:425
 reaction pathways, 112A18:706, 736; 19:804, 834
 sabkha-derived, 112A1:19
 Site 680, 112B25:424
 Site 681, 112B25:424
 source, 112A1:19–20; 13:328; 112B7:106
 strontium isotopes, 112B25:429
 sulfate, 112B26:447; 27:455
 Trujillo Basin, 112A16:527; 112B25:424; 33:527
 hypersolidus, deformation, 153B6:106–108
 hypersthene
 Cagayan Ridge, 124A12:313–314
 mineral chemistry, 134B18:366–367
 hyperthermals
 magnetochrons, 208B1:21
 Paleogene, 198B1:12
 hyperthermophiles
 bacterial cells, 169B2:5–6
 vs. depth, 169B2:14
 hyperthermophylic. *See* microorganisms
 hypidiotopic texture. *See* textures, hypidiotopic
 hypidiomorphous texture. *See* textures, hypidiomorphous
 hysteresis
 alteration, 148B12:178–180
 basalts, 148B38:471; 198B20:5, 10
 bilogarithmic plots, 180B20:11
 breccia, 158B25:341, 343–344
 coercive force, 183B12:7–8, 17–19, 27–28
 discrete samples, 175B8:13; 208B4:15
 hysteresis loops, 121B28:533–534, 536–537; 137/
 140B29:331; 173B11:33; 180B20:12; 187B7:6–7,
 18
 igneous rocks, 198B20:4; 210B15:25
 iron sulfides, 155B13:245–249
 magnetic properties, 161B9:112–113; 173B8:8, 22, 33;
 178B14:8, 10–11; 184B1:3–4
 nickel standard sample, 180B20:13
 peridotites, 147B24:406, 410
 plagioclases, 197B1:11–13
 rock magnetism, 180B20:1–15
 sediments, 154B9:172–173; 11:183; 175B13:4–5, 12,
 20; 183B13:4–5, 15–16; 195B13:12
 temperature cycle, 148B21:302
 vs. depth, 154B11:184; 180B20:8–10
 vs. total saturation magnetization, 197B1:29
 See also magnetic properties; remanent magnetization
 hysteresis parameters
 anoxic conditions, 164B38:402–404
 basalts, 129B25:458–459
 demagnetization, 141B5:64
 mafic rocks, 139B30:522–525
 magnetism, 150B19:349
 ratios, 106/109B23:271–272; 27:298–299; 161B9:115;
 167B28:315; 187B7:19
 sediments, 139B46:728
 shear zones, 134B27:479
 sulfides, 139B31:537–538
 vs. depth, 139B30:523; 46:735; 164B38:404, 406
- I**
- I layers, grain size and gas hydrates, 204B10:4
 ice
 photomicrograph, 164A8:258
 sediment transport, 178A1:2–3
 See also sea ice
 ice, freeze-on
 Amery Ice Shelf, 119B5:64, 73
 Gamburtsev Subglacial Mountains, 119B5:74; 6:118
 interior basin drainage, 119B6:80
 Kerguelen Sediment Ridge, 119B13:247
 topography, 119B5:64
 ice, grounded, stable isotopes, 151B26:448–449
 ice advances, glaciation, 188B14:1–32
 ice age, sea-surface temperature, 177B(synthesis):45
 ice catchment, paleoclimatology, 178A1:5
 ice charts, British Meteorological Office, 151B2:28–36
 ice cores
 correlation with marine sediments, 177B(synthe-
 sis):17–19
 tephra, 152B5:53
 ice flow
 maps, 188B1:29
 sources, 119B3:71; 5:115
 ice grounding
 depositional model, 119B1:19
 fluctuations, 119A8:326; 119B6:115
 initiation, 119A11:452
 Oligocene expansion, 119B9:180
 physical properties, 119B8:157
 sediments, 119A11:412; 119B1:16
 seismic reflection profiling, 119B1:19–20
 Site 742, 119A11:446, 448
 Site 743, 119A12:465
 stability, 119B6:115
 ice loading
 event chronology, 119B9:176–181; 48:884–886
 intersite differences, 119B9:179
 overconsolidation, 119B8:156–157; 9:175–178
 physical properties, 119A8:339; 9:368; 11:431
 Pliocene ice sheet growth, 119B47:886
 Prydz Bay, 119A10:378; 11:412
 unconformities, 119B9:179–181
 velocity indicators, 119B2:36
 ice mass, vs. age, 146B(2)12:192
 ice-rafted debris
 abundance, 114B32:601–603
 age, 120B(1)14:211
 Antarctic Circumpolar Current, 120A5:84;
 120B(1)14:216
 Antarctic glacial expansion, 119B48:885
 apparent mass accumulation rates, 120B(1)12:166,
 169; 13:190; 14:208
 Atlantic Ocean N, 124B28:376
 Baffin Bay, 105B1:9, 12; 4:54; 27:487; 51:975

- biostratigraphy, 119A10:381; 120B(2)56:1111;
151B8:157–161; 29:484–485
- Cagayan Ridge, 124A12:315
- Cenozoic, 119B48:873; 145B11:179–194
- clay mineralogy, 119B38:875
- clean vs. dirty snow, 119B13:247
- climate optimum, 178B34:6
- continental glaciation, 178B25:9–10
- density, 120B(1)14:210
- deposition of end-members, 105B4:43
- detrital sources, 105B3:47
- drift pattern, 105B2:28
- effect on rock-magnetic stratigraphy, 105B45:849
- Eltanin* cruise, 120B(2)64:1113
- Eocene, 119B10:201; 48:882
- first occurrence, 105B1:15
- Gauss Chron, 177B(synthesis):9
- Georgia Basin, 120B(1)14:216
- glacial calving, 105B3:47
- glacial events and intensity, 119B13:248
- glacial–interglacial cycles, 119B12:231, 234
- glacial signal, 178B10:1–22
- glaciation, 113B53:954; 120B(1)1:161
- grain-size distribution, 119B12:231–232
- grounding line limitations, 119B12:232
- ice sheets, 177B(synthesis):13–14, 20–21
- ice shelf fluctuation correlation, 119B13:248
- index, 120B(1)14:208
- initiation, 105B51:979
- isotopic correlation, 119B38:710–711
- Kerguelen-Heard Plateau S, 119B6:120
- Kerguelen sediment ridge, 119A14:505, 508, 514, 530;
15:541, 550
- Labrador Sea, 105B1:14–15
- Leg 119, 120B(2)63:1093
- lithology, 177A3:4–5; 7:4–5; 8:8–9; 9:6–7; 178A1:6–8;
4:6, 9–10, 122; 5:10–11; 8:6–8; 178B25:6;
183A3:4–5; 4:3–4; 6:4; 188A3:14, 18–19; 4:11
- magnetic anomalies, 119B6:101
- magnetic properties, 120B(1)14:214
- magnetostratigraphy, 178B37:7–17
- Maud Rise, 113A5:99–101; 120B(2)56:1009
- mid-Pleistocene interval, 177B(synthesis):14
- Miocene, 113B53:955; 114B32:601–603; 145B38:591–
592
- Miocene–Holocene maximum, 119B6:120
- negative carbonate correlation, 119B10:194
- Neogene, 119B48:886–887; 120B(1)14:207;
145B16:254–255; 151B32:571–577
- Northeast Georgia Rise, 114B2:24
- Oligocene, 113B49:875; 53:953; 119B6:78; 10:198,
201–202; 48:884; 120B(2)56:1009
- Oligocene–Holocene interval, 119B11:217
- oxygen isotopes, 120B(2)44:848–849
- paleoceanography, 145A4:101–102
- Paleogene, 120B(2)56:1020; 64:1111
- pebbles, 178B11:1–23
- photograph, 177A3:24; 8:37; 178A4:60; 5:52; 6:40;
8:34
- physical properties, 188B9:3–4
- Pleistocene, 114B32:605; 177B14:1–23
- Pliocene, 114B32:603–604; 145B21:325; 177B5:1–6
- Pliocene–Pleistocene interval, 151B30:498–500
- plutonic rocks, 183A1:23
- provenance, 145B12:195–204
- Prydz Bay, 119A11:450–451; 119B13:247
- sea level changes, 119B7:249; 13:249
- sediment flux, 145A3:52; 145B34:501–503
- sedimentation, 145B11:179–204; 19:287–291
- sediments, 151B27:459–460; 28:476–477; 177A1:21
- Site 692, 113A7:301–303
- Site 693, 113A8:345–349
- Site 694, 113A9:466
- Site 695, 113A10:539–540
- Site 696, 113A11:622–624
- Site 698, 114A5:88, 115, 122
- Site 699, 114A6:152, 156, 193, 199; 114B31:594;
32:600; 33:628
- Site 701, 114A8:369, 377, 413; 114B32:600–601
- Site 702, 114A9:484, 489, 515
- Site 704, 114A11:634, 687; 12:801; 114B10:207;
23:415–416, 419–420; 25:465; 26:479–480;
28:529, 531; 31:595; 32:601; 36:675
- Site 736, 119A5:123, 131
- Site 737, 119A6:172
- Site 738, 119B10:198
- Site 744, 119A13:502–503
- Site 747, 120A6:98, 103
- Site 748, 120A5:83–84; 7:168, 230–231; 120B(1)1:24;
(2)44:849
- Site 749, 120A8:246
- Site 750, 120A9:295
- Site 751, 120A10:348
- sources, 119B10:195; 13:247; 120B(1)12:172;
(2)63:1096–1097
- Southern Ocean, 114B28:530; 31:589, 593–594;
33:626
- stable isotopes, 141B17:238–239
- stratigraphy, 188B1:9–11
- structure, 178A4:57
- temperature, 151A1:19
- temporal variations, 119B10:195–198
- transport, 119B13:247; 120B(1)12:172; (2)44:848–
849; 151B25:438–442
- upper Pliocene, 177B(synthesis):9
- volcanic ash layers, 120B(1)11:154
- vs. age, 145B21:315; 177B14:8
- vs. depth, 145B11:182; 151B27:462; 28:477, 481–482;
29:486
- warming trend, 105B3:45
- See also* ice rafting
- ice rafting
- biostratigraphy, 151A5:74
- Cenozoic, 151A13:411
- glaciation, 151B36:656–657
- lithology, 151A6:121–122; 162A9:298, 302; 163A3:26;
4:35
- mass accumulation rates, 163B14:157–166
- Miocene–Pliocene interval, 151B31:523–524
- reworking, 152B13:195
- sedimentation, 178B15:4–5
- sediments, 151B26:452; 152A8:97

- weathering, 188B13:15
See also debris flows; glaciation; ice-rafted debris
- ice sheets
African aridity, 108B14:222
Antarctica, 114B31:595–596; 120B(1)14:207;
(2)46:867; 63:1093
biostratigraphy, 120B(2)30:542
carbon isotopes vs. oxygen isotopes, 165B18:281
carbonate dissolution, 120B(2)36:665
Cenozoic, 189A1:13
climate events, 177B(synthesis):39
continental rise, 178B(synthesis):16–17, 32
cryosphere, 189B1:2
deposition, 178B25:10–11; 188A4:17
dynamics, 177B(synthesis):13–14; 188B13:14
Eocene, 120B(2)56:1023
erosion, 188B2:12
gas hydrates, 204B13:8
history, 178A2:1–44
ice-rafted debris, 114B31:594; 120B(2)60:1096–1097
laminated diatom ooze, 138B30:644
maps, 178A1:31; 2:29
Neogene, 151B27:461–465
Northern Hemisphere, 108B14:222; 117B22:390,
396–397; 138B15:352
ocean circulation, 120B(2)46:875
Oligocene, 120B(1)1:24; 12:161, 174; (2)56:1004,
1018–1020
oxygen isotopes, 120B(1)55:991; (2)44:852; 56:1004
paleoclimatology, 162A1:15; 177B(synthesis):7
past thickness profiles, 119B9:178
Pleistocene, 119B6:121; 188B1:11–12
Pliocene–Pleistocene interval, 162B(appendix):273–
275
Quaternary, 151B28:477–482; 189B1:19
sea-surface temperature, 108B29:464–468
sedimentation, 138B35:727–728
sediments, 151B26:452; 177A1:28–29
seismic sequence group, 178A9:25
shifts, 145B21:322
Site 699, 114A6:199
Site 701, 114A8:411
Site 704, 114B23:416–417; 25:471; 28:529
Site 748, 120A5:79, 83–84; 7:230; 120B(1)1:24
sources, 120B(2)56:1019, 1022–1023
Svalbard Ice Sheet, 151B36:657
thermal regime, 119B6:120–121
See also glacial–interglacial cycles; glaciation
- ice shelves
Kerguelen Plateau central, 120B(1)12:175; (2)36:657
water formation, 119B12:232
- ice streaming, tectonics, 178A1:4
- ice streams
Antarctic region, 114B31:590
deposition, 178B8:10–12
drift deposits, 178B8:3–4
- ice velocity, glaciology, 188A1:6–7
- ice volume
carbonate content, 138B14:327–328, 332–333
deepwater oxygen isotopic evidence, 119B38:695, 715
- Eocene/Oligocene boundary, 120B(2)55:979
foraminiferal isotope record, 138B13:308
global aridity effects, 117B21:371
global climate cyclicity, 130B20:350, 355, 359
grain size, 117B21:371
isotopes, 117B24:432
Milankovitch cycles, 154B12:190–192
Neogene, 130B16:281–305; 138B22:511–513
ocean circulation, 120B(2)46:876
Oligocene–Miocene interval, 150B24:425–428
orbital obliquity, 178B8:12
oxygen isotopes, 120B(2)55:990–991; 56:1003
Pleistocene, 107B38:702
Pliocene, 108B12:183
sea level changes, 189A1:67
Site 701, 114A8:412
Site 704, 114A11:687; 114B23:415, 417, 420; 25:464;
26:478; 28:530
Tertiary, 108B1:3
upwelling, 117B24:432
variability, 120B(2)44:849–852; 138B27:612–613
vs. age, 177B12:9
- iceberg calving
ice-stream debris transport, 119B13:247
isotopic correlation, 119B38:712, 714
sea level changes, 119B13:249; 48:873
Site 738, 119A7:234–244
vs. ice-shelf calving, 119B13:248–249
- iceberg plowing, deposition, 178A9:6
- icebergs
location, 178A6:27
organic matter, 167B10:158–160
pebbles, 178B11:3–6
“icehouse” effect
middle Miocene–Holocene interval, 189A1:16, 30
low-latitude stable isotopic signals, 166A2:20
Oligocene–Holocene interval, 174AXS_A(summary):3–5
paleoclimatology, 177B(synthesis):5
sedimentation, 189B1:4, 21
upper Cenozoic, 199B1:2–3
- icehouse world. *See* “icehouse” effect
- ichnofabric
biostratigraphy, 174A_B(synopsis):7
Pleistocene, 174A_B(synopsis):9–10
sediments, 174A_B3:4–6, 9
- ichnofabric indexes, ichnofacies, 138B10:177–178
- ichnofacies
biostratigraphy, 174A_B(synopsis):7
environmental analysis, 135B6:96–97
lithology, 138A(1)10:199; 161A9:396; 178A4:6;
181A6:12
lysocline, 135B53:847–849
paleowater depths, 135B12:179
Pleistocene, 174A_B3:1–9
summary plot, 181A7:69
trace fossils, 138B10:177–190
vs. depth, 181A9:35
See also *Cruziana* ichnofacies; *Zoophycos* ichnofacies
- ichnofossils
bioturbation, 131A6:94

- lithology, 150A7:146–148; 8:214–217; 9:265, 272;
 10:319; 154A5:157; 171B_A5:181–183;
 194A3:5–7
- photograph, 145A5:132, 134; 6:223; 150A7:147;
 174A_A5:162; 182A10:41; 186A4:80–81;
 194A3:29; 201A7:41
- Site 698, 114A5:97–103, 118
 Site 699, 114A6:161–163
 Site 700, 114A7:266–267
 Site 701, 114A8:377; 114B21:376
- turbidites, 131A6:85, 88; 131B3:37; 139B7:107–108
 vs. depth, 181A8:51
- See also Anconichnus*; bioturbation; burrows; *Chondrites*; *Cruziana* ichnofacies; *Cylindrichnus*; *Endichnia*; *Gyrolithes*; *Helicodromites?*; *Helminthoidea*; *Helminthopsis*; *Nereites*; *Ophiomorpha*; *Palaeophycus*; *Palaeophycus heberti*; *Phycoides*; *Phycosiphon*; *Planolites*; *Rhizocorallium*; rhizoliths; *Schaubcylindrichnus freyii*; *Scolicia*; *Skolithos*; *Taenidium*; *Teichichnus*; *Terebellina*; *Thalassinoides*; trace fossils; *Zoophycos*; *Zoophycos* ichnofacies
- ichnostructures, lithology, 174AX_A1:28–30
- ichthyoliths
 biostratigraphy, 136A4:41–42; 136B2:27–43; 185A3:7;
 210A3:88
 clay, 103B21:357
 Cretaceous/Tertiary boundary, 103B26:447
 distribution, 103B26:448–451
 glaciation, 120B(1)12:175
 ice-rafted debris, 120B(1)12:167
 sedimentation rates, 185A4:37
 sediments, 124A10:147; 11:224, 226; 12:319; 13:353;
 14:406; 124B2:13, 19–23, 26; 12:173
 Site 637, 103B38:694
 Site 640, 103B26:455–458; 38:691
 Site 812, 136B2:30, 35
 Site 842, 136B2:32
 Site 1149, 185B2:29
 strontium isotope stratigraphy, 145B14:220–221, 228;
 26:399–412
- IDAS. *See* isothermal decompression analysis system
- iddingsite
 alteration, 102B10:144B; 124B13:191, 193;
 135A(1)5:222; 147A3:68–69; 147B13:239;
 168A4:72, 75, 77; 6:173–175; 168B10:122–123,
 129, 134; 187A5:4; 197A3:24–30
 basalts, 102B10:140; 144B29:497, 502; 168A4:65;
 197A3:20
 basement rocks, 131A6:155
 Celebes Sea, 124A13:369
 chemical composition, 148B11:164–166
 diabases, 180A12:26
 electron microprobe data, 113B1:7; 148B12:176
 fillings, 148B11:155
 greenish red to green zone, 168B10:130–131
 greenish to light gray zone, 168B10:130–131
 igneous units, 163X_A6:21–23
 lava flows, 197A6:12–13
 lithology, 163X_A6:8, 16–19; 187A6:4–5; 209A10:6
 low-temperature minerals, 176A3:38
 major oxides, 148B11:163
 petrology, 144A6:236; 191A1:15
 photograph, 158A8:162; 209A10:60
 photomicrograph, 163X_A4:20; 6:40; 168A4:75;
 5:132; 168B10:136; 191A4:101; 192A5:86;
 197A1:71; 5:54; 6:39–42, 63–67
 pseudomorphs in basalt, 121B30:563
 reddish brown zone, 168B10:130
 reduction, 168B10:131–133
 replacement, 113B1:10–14
 secondary clays, 168B12:150–151
 secondary minerals, 148B11:153; 12:172–173, 187;
 168A5:126, 129, 133
 sketches, 168A5:131
 Sulu Sea, 124A11:257
 veins, 148B11:155–156
 volcanic rocks, 141B28:352
See also alteration; clay minerals; phyllosilicates; secondary minerals
- iddingsitization, olivines, 200B3:3
- idiotopic texture. *See* textures, idiotopic
- Idmidronea* spp.
 calcite, 182B13:6–10
 scanning electron photomicrograph, 182B13:18
- igneous activity, geology, 165A3:85; 169A1:12;
 169B10:22
- igneous and metamorphic geochemistry
 Site 504, 148A2:57–60
 Site 896, 148A3:150–151
- igneous banding. *See* igneous layering
- igneous basement, Cretaceous, 192A1:6–7
- igneous clasts. *See* clasts, igneous
- igneous complexes, source and petrogenesis, 205B1:10–14;
 9:1–38
- igneous contacts
 breccia, 149A6:185–186
 deformation, 147A4:141; 148A2:61–63
 image-analysis micrograph, 147B2:33
 lithology, 176A3:15–16, 264
 magmatic structures, 176A3:56
 petrology, 147A4:126–127; 179A4:34–37
 photograph, 147A3:85; 147B1:18; 2:32; 14:268;
 20:365; 149A4:87; 176A3:132
 schematic representation, 176A3:112
 structure, 147A3:83; 148B16:235–236; 18:266–267
 troctolite and gabbroic intrusion, 147B8:159
 well-logging, 147B2:55–58; 148A2:110
See also intrusive contacts
- igneous contacts, sediment-peridotite, 149A4:86–87
- igneous laminations. *See* igneous layering
- igneous layering
 gabbros, 153A4:126–141; 179A4:50–53
 lithology, 176A3:29–33; 179A2:5
 magmatic structures, 176A3:55
 modal layering and cyclicity, 153A6:229–231
 petrology, 179A4:35–37; 179B(synthesis):8, 63
 photograph, 176A3:133
 photomicrograph, 179A4:99, 127
 vs. depth, 179A4:98
- igneous particles, ash fall layers, 157B14:204–205
- igneous pebbles. *See* pebbles, igneous

- igneous petrology, 151A5:77-80
basalts, 187B1:10-19
basement, 185A4:23-24; 206A3:52-65
Broken Ridge, 121A2:45-50
composition, 179A4:29-42
mantle domains, 187A1:48-49
Ninetyeast Ridge, 121A2:45-50; 10:273-279; 11:320-331; 12:387-393; 15:523-531; 121B29:567
Ontong Java Plateau, 130A5:146-149; 9:428-429, 439; 137A2:24-27; 140A2:52-64, 119-121; 142A4:57-60
review, 187A1:6-9
Southern Ridge site comparison, 121A10:277, 279
Site 735, 176A1:11-14; 3:12-33
Site 738, 119A7:234-244
Site 756, 121A10:273-283
Site 757, 121A11:320-335
Site 758, 121A12:386-394, 399-404
Site 778, 125A6:102
Site 779, 125A7:121-122
Site 780, 125A8:153-155
Site 781, 125A9:183-184, 195
Site 782, 125A10:205, 207
Site 783, 125A11:256-257
Site 784, 125A12:278-280
Site 786, 125A14:320-327
Site 800, 129A2:65-68
Site 801, 129A3:130-144; 185A3:14-15
Site 802, 129A4:215-219
Site 809, 132A3:55-59
Site 828, 134A8:152-154
Site 829, 134A9:198-199
Site 830, 134A10:276
Site 843, 136A5:77-82
Site 855, 139A5:130-132, 135-140
Site 856, 139A6:232-238
Site 858, 139A7:507-513
Site 862, 141A9:315-316
Site 865, 143A6:137-143
Site 866, 143A7:188, 220-227
Site 871, 144A3:71-74
Site 872, 144A4:132-135
Site 873, 144A5:182-185
Site 874, 144A6:236
Site 877, 144A8:308
Site 878, 144A10:368-374
Site 879, 144A11:430
Site 883, 145A5:134-138
Site 884, 145A6:219-220
Site 887, 145A8:344
Site 897, 149A4:73-83
Site 900, 149A7:231-236
Site 915, 152A7:80-82
Site 917, 152A9:121-140
Site 918, 152A11:225-229
Site 920, 153A3:51-64
Site 921, 153A4:126-141
Site 922, 153A5:182-191
Site 923, 153A6:219-231
Site 924, 153A7:263-265
Site 988, 163A3:27-28
Site 989, 163A4:37-43
Site 990, 163A5:56-64
Site 998, 165A3:79-86
Site 999, 165A4:174-184
Site 1000, 165A5:263-264
Site 1001, 165A6:323-330
Site 1035, 169A3:89-102
Site 1037, 169A5:212-214
Site 1038, 169A6:271-272
Site 1109, 180A6:35-38
Site 1114, 180A8:16-20
Site 1117, 180A11:3-7
Site 1118, 180A12:25-27
Site 1136, 183A4:17-20
Site 1137, 183A5:28-37
Site 1138, 183A6:46-49
Site 1139, 183A7:36-42
Site 1140, 183A8:16-19
Site 1141, 183A9:22-24
Site 1142, 183A9:24-26
Site 1152, 187A3:4-7
Site 1153, 187A4:3
Site 1154, 187A5:2-3
Site 1155, 187A6:3-5
Site 1156, 187A7:3-5
Site 1157, 187A8:2-7
Site 1158, 187A9:3-5
Site 1159, 187A10:2-3
Site 1160, 187A11:3-7
Site 1161, 187A12:3-8
Site 1162, 187A13:3-7
Site 1163, 187A14:2-4
Site 1164, 187A15:2-7
Site 1173, 196A3:30-32
Site 1179, 191A1:14-15; 4:26-35
Site 1183, 192A3:25-29
Site 1184, 192A4:13-17
Site 1185, 192A5:11-15
Site 1186, 192A6:15-17
Site 1187, 192A7:6-8
Site 1188, 193A3:19-33
Site 1189, 193A4:8-22
Site 1190, 193A5:3-5
Site 1191, 193A6:3-4
Site 1200, 195A3:16-21
Site 1201, 195A4:20-23
Site 1203, 197A3:11-24
Site 1204, 197A4:11-19
Site 1205, 197A5:8-18
Site 1206, 197A6:6-15
Site 1253, 205A1:18-19; 4:3-4, 27-35
Site 1268, 209A3:3-10
Site 1269, 209A4:2-4
Site 1270, 209A5:3-20
Site 1271, 209A6:2-9
Site 1272, 209A7:2-7
Site 1273, 209A8:2-3
Site 1274, 209A9:2-7
Site 1275, 209A10:3-10
Site 1276, 210A1:15; 3:64-70
Site 1277, 210A4:3-8

- Sites 875–876, 144A7:277–280
 Sites 1110–1113, 180A7:11–17
 textures, 147A4:114–128
 Transect EG64, 163X_A7:4–5
 Transect EG65, 163X_A6:21–22
 Transect EG66, 163X_A5:4–5
 Transect EG68, 163X_A4:12–13
 igneous phases, remnant, vs. depth, 193A3:137–138;
 4:114–116; 193B11:7–9
 igneous provinces
 development, 163X_A1:2–3
 eruptions, 192B5:9–10
 magma production, 192B1:2
 rifted margins, 163X_A1:1–19
 igneous provinces, large
 drilling, 183A1:65–66, 101
 environmental consequences, 183A1:36–38
 Kerguelen Plateau, 183A1:1–101; 183B1:1–48
 models, 198B1:4
 oceanic plateaus, 165A1:9–10
 igneous rock contacts
 orientation, 209A3:132
 photograph, 206A3:174; 209A3:58–59
 stereo plots, 209A7:78
 igneous rocks
 alteration, 123A5:321–322; 183A7:42–47
 backarc sites, 135A(1):1:42–43
 basement, 131A6:150–159; 143B31:501, 503–509;
 165A8:391–393; 168A1:11–12; 180B3:3–4;
 183A1:5–8; 183B1:7–14, 25–26; 198A1:75–76
 bulk permeability, 139B39:622–623
 Cagayan Ridge, 124A12:311–312; 14:402–405
 Celebes Sea, 124A10:168–169; 13:370–371
 CIPW normative composition, 135A(1):1:36; 4:153
 classification, 118B26:444–448; 140A2:52
 composition, 139A6:232–238; 7:330, 332–348;
 152A6:60; 152B40:489–493
 Cretaceous, 129B18:345–359
 crust, 209A1:6–12
 description, 129A2:21–24
 diopside-olivine-hypersthene-quartz, 135A(1):6:282
 distribution, 118B26:444
 evolution, 135B25:427–470
 facies, 133B37:535–540
 forearc generation models, 125B16:305–306
 fragments, 129B4:120; 6:158; 134A7:106
 genesis, 183A1:9–11, 34–36
 geochemistry, 123A5:322–324; 124A11:262–268;
 129B35:653–669; 131A6:197; 134A8:154–156;
 9:199–202; 134B17:353–362; 135A(1):11:645–
 649; 135B38:625–646; 139A7:371–373;
 148A2:57–60; 158A8:163; 10:199–200;
 168A4:59–77; 176A3:268–280; 183A1:80, 88;
 6:132; 7:130; 8:63; 192A6:108; 7:58;
 209A5:177–178; 6:122; 7:124; 9:106; 10:158–
 159
 geochronology, 165B15:233–236
 grain size, 169A5:212
 hysteresis, 210B15:25
 intrusion models, 118B26:512–513
 isotope geochemistry, 191B1:5–7
 lithology, 118B26:509–510, 516–526; 123A5:313–319;
 129A3:133; 4:215; 130A9:429; 135A(1):6:267–
 271; 9:434–435; 11:630–643; 139A7:361, 363,
 507–513; 148A2:112; 3:185; 163A3:27; 4:37–38;
 168A4:62; 176A3:12–16; 180A6:28–29;
 183A1:87; 191A1:43; 198A9:11–13; 206A1:26–
 28, 114–115; 3:367; 206B1:15
 microbiology, 185A4:48
 mineralogy, 118B2:23–27; 137/140B1:3–17;
 139B8:113–131; 140A2:146–147; 148A2:111;
 3:184; 153B5:78–93
 Ontong Java Plateau, 130A2:34–37
 Pacific Ocean W, 124B32:323
 paleomagnetism, 120A7:200; 8:255; 123A5:324;
 139A7:307, 312–313; 198B20:1–15
 petrogenesis, 118B26:441–444
 petrography, 118A4:65–67; 123A5:319–321;
 144A10:370–374; 193A1:14, 18, 21–22
 petrology, 134A9:198–199; 11:336–341; 12:412–414,
 13:500–502; 134B17:353–362; 135A(1):1:32–34;
 5:219–220, 222; 6:266–273; 7:318–324; 8:368–
 371; 9:433–448; 11:628, 630–650; 135B55:888–
 905; 139B6:79–102; 143B15:245–261;
 148A2:37–45; 3:129–141; 148B35:439;
 152A13:279–281; 158A8:163; 10:199–200;
 169A3:90–94; 185A3:14–15; 4:23–24, 160–166
 petrology and geochemistry, 192A1:28–30
 petromagnetics, 141B4:51–57
 photograph, 144A3:80; 180A12:80
 photomosaic, 176A3:101
 physical properties, 123A5:325–328; 209A5:179
 primary modes, 176A3:265
 primary stratigraphy, 118B2:22
 proportion, 209A1:15–16, 24–25, 33–34, 40–41, 46
 protoliths, 180A1:13
 provenance, 125A4:75
 rock magnetism, 205A4:43–44
 secondary minerals, 183A4:89
 Site 747, 120A6:129
 Site 748, 120A7:220–225, 228
 Site 749, 120A8:265
 Site 750, 120A9:318
 Site 834, 135A(1):4:129, 131–150
 Site 871, 144A3:82
 Site 872, 144A4:132–135
 spreading rates, 209B1:30
 spreadsheets, 176A1:31–34
 stratigraphy, 139A7:520; 205A1:24–25; 4:9–10;
 205B9:7; 206A1:26–28; 3:162–163, 368
 stress, 123A5:328–331
 structure, 139B36:573–583
 subsidence, 120B(2):42:945
 Sulu Sea, 124A11:257–262; 124B19:256–259
 summary, 203B1:3–5
 textures, 118B2:23–27
 trace elements, 205B9:9–10
 vs. depth, 193A1:49–50, 66–67, 71–72
 well-logging, 135A(1):4:164–169; 152A13:283
 X-ray computed tomography, 185B12:1–18
 X-ray diffraction data, 205A4:173; 209A3:156; 6:120

- X-ray fluorescence data, 135A(1)11:656; 170A6:206;
183A6:188–189
See also basalts; chromitite; diorites; igneous provinces; meta-igneous rocks; monzodiorite; norites; pegmatites; peperites; pillow basalts; plagiogranite; plutonic rock fragments; plutonic rocks; plutons; trondhjemites
- igneous rocks, alkaline mafic, 119B1:1
igneous rocks, altered basic, 180A11:30
igneous rocks, chloritized, 160B45:592
igneous rocks, cryptocrystalline, alteration, 183A6:50
igneous rocks, extrusive, 160B45:592
igneous rocks, mafic, lithology, 139A7:457
igneous seams, gabbros, 176B(synthesis):9
igneous-sedimentary cover, lithology, 210B9:6–14
igneous series, chemical stratigraphy, 176B(synthesis):17
igneous textures. *See* textures, igneous
- igneous units
composition, 163X_A4:13; 5:5–6; 6:22–23; 7:5
definition, 153A4:135–141
gabbros, 153A5:190–193
lithology, 152A9:123–125; 11:225–227; 163A5:56
location and thickness, 163A5:57
magnetostratigraphy, 152A11:223–224
petrology, 152A9:121–126; 13:279–281; 163B2:20–24;
6:56, 67–68; 12:136
petrography, 163A5:58
photograph, 152A9:129–134
Site 1224, 200A4:26–29
stratigraphy, 152B41:507–510
tops and bases, 152A9:123; 11:227
vs. depth, 152A9:143
- ignimbrite
Eocene, 104A4:54–55
fault zones, 135B20:315, 317
flow units, 104A4:102–103
geochronology, 157B11:127–129
igneous activity, 165A3:85; 165B20:309
lithology, 157A7:340; 157B16:268, 282
mineralogy, 157B15:230–231
Miocene, 157A2:20–21; 157B27:457–458; 165B20:311
Norwegian Sea, 104A4:99
tephrostratigraphy, 165B5:105; 186B10:4
volcanic ash falls, 165A3:80
volcaniclastics, 157A9:454, 456
volcanism, 165A8:387; 181B1:24–25
See also comendite
- ignimbrite, comendite
geochronology, 157B11:131
pantellerite, 157B11:131
trachyte, 157B11:131
- ignimbrite, high-grade, ash fall layers, 157B14:201–218
ignimbrite, pantellerite-trachyte, 157B11:131
ignimbrite, rhyolite-basalt, 157B11:129
ignimbrite, subalkalic, rhyolite, 157B11:129, 131
ignimbrite, trachyphonolitic, 157B11:133–134
ignimbrite, trachyte, 157B11:131
ignimbrite, welded, photograph, 157A10:511
ignimbrite A, photograph, 157A9:447
ignimbrite clasts, photomicrograph, 157B17:313
ignimbrite-lava flow, comendite-trachyte, 157B11:131
- ikaite
lithology, 155A17:507
organic matter, 169S_B1:39
photograph, 155A17:509
pore water, 162A8:276
sediments, 155A17:521
- IKU/Bucentaur drill system, operations, 124E_A5:42–44
ILD. *See* induction logs
- Ilerdian, biostratigraphy, 144B6:127–139
- illite
abundance, 104B2:32–34; 110B6:88–89, 92–94;
113B5:54; 141A6:87; 156B1:14; 160B19:241
alteration, 139B11:214; 158A7:108; 183A7:45–47;
193A3:41–47; 193B1:14–16; 5:1–10; 11:1–19
authigenic minerals, 149B31:531–532
Bengal Fan source, 116B4:37, 40; 5:54–55
black shale, 198A9:33
Bonin-Mariana region, 125B7:117, 128
boron in sediments, 192B4:3
breccia, 161A6:217; 173B1:3–5
Cagayan Ridge, 124A12:309–311
carbon/oxygen ratio, 164B21:205–206
Celebes Sea, 124A10:137–139, 174–175; 13:377–378
chemical weathering, 113A10:538
clay, 180B17:6; 190/196B4:10; 6:7–14
composition, 110B7:104–109; 193B5:7–8
continental shelf, 178B8:9
Cornaglia Terrace, 107B20:323–324
crystallinity, 131B2:30; 28:347; 135B40:658
cyclic processes, 172B5:6
dating, 110B5:55, 57–59, 61–63; 6:88–89, 92–94;
113A5:99; 6:197; 8:344; 10:539; 11:623
deltaic sediments, 152B9:119
diagenesis, 180A9:42
diffuse reflectance spectrophotometry, 188B7:10
downslope transport, 119B12:231
drift deposits, 178B8:7–16
dust, 130B28:474–477, 480–485, 489–490
Eocene, 104B3:51–52
factor score vs. depth, 188B7:29, 39, 44
fine-grained sediments, 210B8:14
Formation MicroScanner imagery, 160B47:619
geochemistry, 169B6:5–6, 14, 17; 193B1:26–27
glacial–interglacial variations, 127/128B(1)33:588
hemipelagic mud, 131B2:22, 24–29
high-latitude marine sediments, 119B10:198
hydrothermal event frequency, 193B1:24–25
ice sheets, 120B(2)56:1010
illite-smectite clays, 190/196B6:5–6, 24
Iran-Makran source area, 117B8:193
Japan Sea sediments, 127/128B(2)78:1235–1244
Kerguelen sediment ridge, 119B13:244
Labrador Sea, 105B8:104–105
light absorption spectroscopy, 199A5:5–6, 18; 8:19;
9:13, 45; 10:19, 62; 11:29, 118–120; 12:30, 121–
123; 13:26, 88–89; 14:21–22, 63; 15:14, 54
lithology, 149A4:50; 5:120, 222; 150B11:202;
155A14:433; 159A7:233; 160B34:438;
162A9:298; 173A4:75; 6:112–114; 175A9:233;
180A7:7–8; 180B6:6–17; 188A3:13–14;

189A5:17–29, 71; 191A4:11–12; 193A3:30;
4:24–41; 204A4:9; 10:8; 210A3:32
mass accumulation rates, 145B15:244
matrix, 160B46:599; 47:614
microfabrics, 185B9:7
middle–upper Eocene sedimentology, 210B8:12–13
mineralogy–porosity inversion, 156B16:224–225
Miocene, 104B3:51–52
mixed-layer clays, 124B31:418; 182B14:3
morphological transition, 107B11:158
mud clasts, 150B11:199–201
nannofossil clay, 184B14:2
negative chlorite correlation, 119B13:247
negative smectite correlation, 119B10:194, 199
Norwegian Sea, 104B2:29–31
occurrence, 101B11:176
Oman margin N, 117A11:351; 117B23:412
origin, 160B45:587
Owen Ridge, 117A9:233, 240; 10:283; 117B8:187;
23:412
paleoclimatology, 184B19:6–7; 22:3–4; 189A1:34–35
paleoenvironment, 189A3:15–17
paragonitic to potassic, 193B5:3
Pearson correlation coefficients, 152B4:43, 46
photomicrograph, 193A1:53; 3:160–161, 163, 165;
193B1:56
Pigafetta Basin, 129B2:32
pore water, 150A10:333–334
potassium decrease and formation, 119B19:391
potassium logs vs. photoelectric effect logs, 178A5:85
principal component analysis, 104B2:34–37
provenance, 107B20:325; 160B19:238
Prydz Bay, 119B6:86
reactions, 133A(1)15:638
recrystallization, 159B10:97
reflectance, 184B22:9; 199A5:13; 199B11:9
relative abundance, 168B5:60; 190/196B6:5
sand, 168B5:55–56
sandstone, 127/128B(1)9:139
Sardinian margin, 107B11:159–161, 166; 15:235
scanning electron microscope data, 110B16:255;
174A_B7:52
sedimentary regimes, 195B3:9
sedimentation, 150B9:158, 160, 164; 154A7:328, 393;
180A1:4
sediments, 131B26:317–318; 31:391–392; 139A5:129;
141B11:158; 143B12:177, 179–180;
146B(2)7:92–94; 149B40:748–749; 150X_B4:50,
53, 60–63; 155A6:104; 7:137; 8:185; 155B9:179–
191; 156A7:206–213, 216–217, 220;
160B18:221; 161B2:24; 167B25:282–284;
172B5:4; 177B13:1–10; 178A1:50; 8:49;
181B1:26–27; 3:5–6, 20–21; 184B19:5;
188B13:11–12; 192A6:104; 204B7:5; 205A4:22;
5:19
siliceous deposits, 129B2:42
siliciclastics, 133B30:462–470
Site 699, 114B37:688–690
Site 765, 123A4:99; 123B2:64
Site 797, 127/128B(1)33:592
Site 798, 127/128B(1)24:411, 416, 418

sources, 117A3:35; 117B8:183, 185; 9:198, 202;
119B6:113–114; 7:147
spectral data, 164B31:320–321
stability, 131B2:20
stratigraphic distribution, 116B4:36–40
Sulu Sea, 124A11:217–218, 261, 269
tektites, 150B13:247–248, 252
terrigenous component, 189B11:4–5
thermal diagenesis, 159B7:57–63
thorium/potassium ratio, 171B_A4:167; 174A_A4:150
transition from smectite, 131B28:351–352
transmission electron microscopy, 113B18:231, 235
turbidites, 131A6:96–97; 168A4:57–59; 5:111–112
veins, 156A7:225; 163A3:28; 200A4:40
visible and near-infrared spectroscopy, 199B11:18
volcanic ash, 131B14:176–177
volcanic rocks, 141B28:352–355
vs. age, 167B18:232; 178B8:27; 181B3:10; 184B19:18;
189B11:9–12
vs. depth, 131A6:119; 131B28:348; 136B5:69;
145B15:235; 43:658, 660; 150A8:220; 152B4:42;
155A12:343; 155B10:202–213; 156A6:102–103,
105–114; 156B1:15–16, 20–22; 159B43:592–
593; 161B2:29; 164B21:207–208; 167B25:284;
169B6:14–17; 173B1:7; 178B(synthesis):38;
8:23–24, 26; 184A5:40; 6:31; 7:44; 9:60;
184B14:5–6; 186A4:90; 188B13:34; 189A3:77;
6:22–25, 88; 7:69; 190/196B4:22–23; 5:16, 18;
6:20–22; 193B5:5–6; 199A1:58; 8:39; 9:30;
10:43; 11:69; 12:75; 13:60; 14:45; 15:35;
199B24:15; 204B7:12–14; 205A5:63
vs. kaolinite + chlorite, 127/128B(2)78:1245
vs. plagioclase, 127/128B(2)78:1245
vs. smectite, 119B13:249; 127/128B(1)9:139;
(2)78:1245
weathering, 113B9:124; 188B13:15
X-ray diffraction data, 113B3:29; 119B10:199;
141A6:84; 155A9:212; 10:255; 11:287;
156A3:35; 6:116; 156B16:222; 159A6:177;
7:228; 8:264–265; 172B5:21; 175A10:281–282;
178A4:79–80; 5:20, 71; 6:15, 50; 8:15, 79;
185A4:71; 185B9:20; 188A3:17–18; 4:16; 5:12–
13; 190/196B4:20; 5:6; 198B16:5; 200A4:38,
116; 208A6:51; 210A3:237
X-ray fluorescence data, 161A6:237
See also chlorite-illite province; chlorite/illite ratio;
chlorite + kaolinite/illite ratio; clay mineralogy;
kaolinite/illite ratio logs; (mica + illite)/kaolinite
ratio logs; mica-illite mixture; mixed-layer min-
erals/illite ratio; smectite/(illite + chlorite) ratio;
smectite-illite mixed minerals
illite, biotitic, sediments, 177B13:1–10
illite, crystalline, Site 688, 112B5:74
illite, detrital
basal trace orientation, 131B4:51
orientation analysis, 131B4:49
illite-chlorite alteration, photograph, 193B1:57
illite/chlorite ratio
vs. depth, 145B43:659
X-ray diffraction data, 178A4:23; 5:71; 6:50; 8:48

- illite/(kaolinite + chlorite) ratio
 lithology, 177A4:7
 vs. depth, 177A4:28
- illite/kaolinite ratio
 Cenozoic, 133B30:469
 lithology, 154A9:421–422; 175A3:56–57; 4:91; 5:119;
 6:152; 7:179
 paleoclimatology, 150B23:415, 417–419
 sediments, 160B19:235, 242–244
 Site 798, 127/128B(1)24:411, 416
 vs. depth, 145B15:241; 159B43:593
 zoning, 150B9:155
- illite + kaolinite series
 spectral analysis, 182B14:9
 vs. depth, 182B14:8
- illite-plagioclase-kaolinite assemblage, 117B9:205
- illite/quartz ratio
 nannofossil clay, 184B14:2
 vs. composite depth, 145B15:241–242
 vs. depth, 145B43:659; 184B14:7
- illite-smectite-chlorite diagram, 178B8:28
- illite-smectite mixed minerals, 147A3:74–76
- illite/smectite ratio
 fine-grained sediments, 210B8:14
 green clay, 184B15:4, 14
 lithology, 105B7:90
 models, 190/196B6:9–14, 26, 37
 paleoclimatic cyclicity, 184B22:3–4
 paleolatitude vs. age, 199A1:59
 sedimentation, 190/196B1:9
 sediments, 160B19:235, 242–244; 190/196B6:6;
 205A4:22
 Site 798, 127/128B(1)24:411, 416
 vs. depth, 133B30:467
 X-ray diffraction data, 188A5:13; 210A3:52
- illite-smectite reaction, 190/196B6:10–12
 reaction temperature, 123B41:785
 transition from smectite, 131B28:351–352
- illite/total clay minerals ratio, vs. depth, 141A10:362
- illite-vermiculite mixed minerals
 sediments, 150X_B4:50, 53–54
See also clay mineralogy
- illitization, décollement zone, 131B32:403
- illitization, in situ, sediments, 156B1:25–27
- ilmenite
 alteration, 111B14:162–164, 167; 118A6:127;
 147A3:71; 147B13:237–238; 193B1:15–16;
 197A5:16; 200B2:12
 amphibolites, 173A6:130–131; 7:190–191
 backscattered electron images, 153B7:139–141
 basalts, 131B16:202; 148B38:473, 475–477
 bedding planes, 169A3:90
 Bengal Fan, 116B6:64–65
 Celebes Sea, 124A13:365–369
 composition, 134B16:344–347; 149B10:461;
 155B7:152; 176A3:18; 176B6:79; 9:54;
 179B(synthesis):26; 193B3:28
 deformed gabbros, 118A6:131, 133–134; 118B8:155
 derivation, 118B8:160
 deuteric oxidation, 137/140B22:262; 29:332
 dikelets, 153B11:247
- electron microprobe data, 148B8:105
- euohedral crystals, 139B6:88
- exsolution, 137/140B23:267
- gabbros, 147B2:34–36; 153B17:338, 341; 180B3:7;
 205A4:27–28
- garnets, 161B23:312
- geochemistry, 131B16:202
- gneisses, 161B19:266–267
- grain size, 118B26:464
- heavy minerals, 150X_B7:75–79
- host-rock foliation, 118A6:134
- ice-rafted debris, 120B(1)12:167
- igneous rocks, 209A10:26–27
- lava, 152B33:412
- lithology, 182A12:7; 198A9:12–13
- magnesium number, 118B4:93
- magnesium oxide vs. manganese oxide, 118B4:99
- magnetic properties, 120B(1)6:82; 144B36:621
- magnetite intergrowths, 118A6:124–125
- major and trace elements, 148B38:475
- major elements, 179B2:69–73
- marbles, 161B23:313–314
- Mascarene Plateau, 115A5:264; 115B10:105
- melts, 176B8:8–9
- meta-anorthosite clasts, 173A7:191
- metagabbro clasts, 173A7:191
- metasediments, 173A8:246–249
- mineral chemistry, 153B31:539–540; 180B3:22;
 200B3:7
- mineralization, 193B3:4
- minor elements, 118B3:56
- mobilization, 118A6:135
- Nazareth Bank parallel growth, 115B10:105
- Ninetyeast Ridge, 121A11:323; 121B32:658
- ore bodies, 118B26:444
- orthopyroxene-bearing gabbro, 118A6:135
- oxides, 118B4:91
- oxygen fugacity, 179B2:43
- parental magma concentration, 118B4:93
- pegmatites, 173A9:280
- Peru margin, 112B28:476
- petrology, 144B29:498, 501–502
- phase equilibria, 153B31:540; 179B2:41
- photograph, 144B36:629–630; 149B21:388;
 153A5:199; 153B30:528
- photomicrograph, 161B19:277; 173A9:283, 289;
 176A3:127–130; 179B2:33; 180B3:27;
 183A5:105; 193A3:189–190, 193; 193B6:8–9;
 197A3:86; 4:65; 5:60–62; 6:54–55, 65; 200A4:96,
 104; 205A1:57; 205A4:89, 92
- plutonic rocks, 147A3:61–62
- pressure-temperature conditions, 161B44:566–567
- sandstone, 119B3:51, 56
- schists, 161B19:266; 20:283
- Serocki Volcano, 106/109A4:58–59
- shear zones, 153B7:130–132
- sills, 139B6:93–94
- Site 732, 118A3:51
- Site 748, 120B(1)9:118, 125
- thin sections, 176A3:23–28
- tholeiites, 151B19:353–354

- titanium oxide, 118B1:5
trellis lamellae, 121A11:333; 121B28:542
Tyrrhenian Sea, 107B5:83
veins, 176B9:12–13
volcanics, 127/128B(2)87:1379; 134B19:381–382;
145B23:349, 381
vs. gabbro magnetic susceptibility, 176B11:20–29
xenoliths, 193B6:2
X-ray diffraction data, 209A10:80
See also grains; oxides, iron-titanium
- ilmenite, cumulus, Site 732, 118A3:53
ilmenite, primary igneous, Site 732, 118A3:52
ilmenite, subhedral, alteration, 173A8:245–249
ilmenite-hematite-magnetite solid solution, melts,
176B8:8–9
ilmenite-hematite solid solution
ferrobasalts, 200B3:3–6
lava flows, 197A3:20–21
magnetic properties, 144B36:621
ilmenite lamellae, photomicrograph, 209A10:83
ilmenite/magnetite ratio
deformed gabbros, 118A6:132–134
ferrogabbros, 118A6:124
iron-titanium oxide gabbros, 118A6:115
undeformed olivine gabbros and troctolites,
118A6:124
ilmenite porphyroblasts, photomicrograph, 173A8:251
ilmenite-titanite alteration, chemical effects, 148B4:49
ilvaite
hydrothermal veins, 153B30:524
mineral chemistry, 153B30:529
photograph, 153B30:529
image analysis
alteration, 148B28:368–370
basement, 161B24:320–323, 326
calcareous nannofossil holotypes, 161B17:239–247
fractures, 148B29:378–379
microfabric, 135B49:799–800
resistive units, 148B29:379–383
sediments, 130B41:676
image analysis, quantitative, porosity, 171A_B1:1–19
image orientation, microresistivity, 197B5:1–22
imagery. *See* side-scan images
imbricate structures
accretionary wedges, 134B1:13–18
guyots, 134A2:28
kinematics, 134B23:424–428
photograph, 183A5:72
imbricate thrust zone
geology, 190A1:5–6
seismic reflection, 156A2:21–22
structural subdivisions, 190A2:5
imbrication zone
lithology, 194A8:5
tectonics, 160B54:763
immobile element ratios, lava, 163A3:28
impact craters
Beloc Formation, 165A1:7
Cretaceous/Tertiary boundary, 165A8:393–394
See also bolide impacts
impact ejecta, diagenesis, 150X_B3:31, 33–35
impact ejecta fallout layer, iridium anomaly,
119B39:727–728
impact deposits, upper Eocene, 177B4:1–9
impact hypothesis, Cretaceous/Tertiary boundary,
192B2:6
impacts
Cretaceous/Tertiary boundary, 174AXS_A(summary):2,
12–13
large igneous provinces, 198B1:4
melting, 192B1:9
sedimentation, 150X_B27:368–370
tektites, 150B13:253–259
upper Eocene, 177B(synthesis):5; 199A1:7
upper Pliocene, 178B9:1–6
See also bolide impacts
impedance
Broken Ridge, 121A9:252
Celebes Sea, 124A10:164–165
gamma ray attenuation density, 133A(1)17:793
Lingayen Gulf, 124E_A13:80, 87
lithology, 121A6:142
Mariana Basin E, 124E_A18:130, 132
Northeast Georgia Rise, 114B2:23
sediments, 133A(1)5:162, 6:195
seismic reflection, 118A6:190; 178A2:19–20
Site 747, 120A6:143
Southern Kerguelen Plateau, 120B(2)48:897–898
Sulu Sea, 124B37:508–510
synthetic seismograms, 138A(1)9:181
trench-wedge facies, 190/196B12:9, 14
velocity logs, 133B44:652–654
vs. biogenic silica, 114B36:683
vs. carbonates, 114B36:674–675, 683
vs. corrected compressional wave velocity, 199B13:27
vs. depth, 114B36:677, 683; 130B38:650;
133A(1)8:276; 15:660; 16:730; 133B44:656;
160B42:539–540; 170A3:88; 178A5:97;
183A3:42; 4:79; 5:156–157; 6:162–163; 7:162–
173; 183A8:89–90; 190A6:53; 7:45; 207A4:76–
77; 5:84–85; 6:76; 7:78; 8:75
vs. depths of reflectors, 138B24:550–551
vs. effective pressure, 156B9:134
vs. percentage of coarse fraction, 130B38:652
vs. percentage of planktonic foraminifers, 130B38:651
vs. percentage of radiolarians, 130B38:651
vs. porosity, 190/196B12:15
vs. two-way traveltime, 154A8:396; 178A7:70–71;
207A6:77
vs. wet bulk density, 199B13:26
See also impedance logs
impedance, acoustic
chert, 136B8:101–102
discrete measurements, 154A4:123
Ontong Java Plateau, 130A7:267; 9:459
profiles, 172A3:72–73
seismic reflectors, 184A2:3
vs. depth, 130A9:461; 131A6:211; 156A6:152; 7:245;
166A9:257; 172A3:75; 4:152–153
vs. seismic stratigraphy, 184A2:16, 21, 29, 35
vs. two-way traveltime, 154A5:207
impedance, downcore seismic, reflections, 204B8:8

- impedance, hydraulic, permeability, 131B19:240–242, 245
- impedance, merged, vs. depth, 138A(1)10:255; 11:323; 12:384; (2)13:730; 14:800; 15:879; 16:958; 17:1018; 18:1060; 138B24:545, 547–549
- impedance, seismic, vs. depth, 204B8:24
- impedance logs
- bed thickness, 188B10:27
 - bulk density, 170A4:146
 - seismic reflection, 188B10:5–8
 - velocity, 188B10:25, 28
 - vs. depth, 188B10:19–21, 24
 - vs. two-way traveltime, 200B1:36
 - See also* seismograms, synthetic; velocity logs
- implosion, breccias, 148B17:254
- impregnation
- residual peridotites, 209B1:7–8
 - structural data, 169A3:107–112
 - textures, 209A6:21–22
- in situ measurements, compressional wave velocity, 164B27:265–272
- in situ reactions, borehole fluids, 137/140B13:141–152
- Incertae sedis forma A
- new forms, 160B10:128
 - Pliocene–Quaternary interval, 160B10:125–135
 - vs. planktonic foraminifer and calcareous nannofossil zones, 160B10:126–128
- inclined bedding. *See* bedding, inclined
- inclinometers, general purpose tool, data, 143B22:374
- inclinometry logs
- igneous rocks, 209A10:41
 - magnetized formations, 197B5:1–22
 - vs. depth, 147A3:107
- inclusions
- alteration, 137/140B14:157–158; 193A3:50; 197A5:16; 209A7:9–10
 - basalts, 192A6:17
 - basement, 161A6:215; 183A7:38; 8:17
 - carbonates, 136B8:100; 156B5:84
 - gabbros, 205A4:31–32
 - gneisses, 161B19:266–267
 - gold, 193B3:4
 - hematite, 193B9:4–7
 - igneous contacts, 148B16:235–236
 - igneous units, 163X_A6:21–23
 - limestone, 143A6:141
 - lithology, 187A11:6–7; 13:3–4; 209A6:5
 - magnetite, 176B11:23; 193A4:36
 - massive sulfides, 169B5:6; 9:5
 - metagabbro clasts, 173A7:191
 - metamorphic rocks, 161B20:284, 287–288
 - metatonalite clasts, 173A7:191
 - micrite, 165B7:128, 130
 - mineralization, 169A3:69
 - orthopyroxenites, 209A3:8
 - phenocrysts, 157B22:375–401, 403–410
 - photograph, 147B7:154–155; 158A7:74, 115, 131; 8:153; 10:183–184, 190
 - photomicrograph, 157B24:414; 161A5:131; 6:241, 244–247; 161B19:276–277; 20:285–287; 23:313; 163X_A6:40; 169B5:19; 173A6:133; 179A4:117; 183A4:48; 5:115–116; 8:52, 62; 185A3:105; 187A11:18; 12:16; 13:17; 192A5:53, 56, 59–60, 63, 193B9:12–23; 195A3:87; 197A1:21, 87; 3:81; 5:48, 65–66; 97; 6:43–44, 49, 58, 65, 66–67, 70; 7:31; 193A1:56; 3:179, 183–188, 193–198, 218; 4:67–68, 152–153, 156; 205A4:90, 108
 - pyrite, 158B15:195
 - pyrrhotite, 135A(1)11:655; 193B3:3
 - schists, 161B20:282–283
 - spinel, 129B17:317; 193B3:4
 - sulfides, 176B7:4–5
 - temperature, 148B3:21–35
 - X-ray diffraction data, 200A3:20, 96
 - zeolites, 209A10:13
 - See also* crystal inclusions; fluid inclusions; glass inclusions; magnetic inclusions; melt inclusions; mineral inclusions; xenoliths
- inclusions, basaltic glass, infrared spectra, 157B24:415–416
- inclusions, devitrified glass, photomicrograph, 192A3:91
- inclusions, glass
- basalts, 183A4:18–19; 192A4:14–15
 - geochemistry, 157B22:381–384; 23:403–410
 - photomicrograph, 157B24:414; 183A4:49–50; 190/196B3:25; 192A4:60–61
- inclusions, magnetite, lithology, 193B2:7
- inclusions, melt
- chemistry, 148B3:24–26
 - chimneys, 193B1:34
 - experimentally homogenized, 148B3:33, 35
 - lithology, 187A7:5; 11:6–7; 13:3–4; 193B2:5, 7
 - phenocrysts, 157B22:381–382, 384; 27:454
 - photomicrograph, 157B12:148; 15:265; 16:289; 183A5:115; 8:53, 58; 187A11:18; 12:16; 13:17; 193B2:16; 197A1:21, 88; 3:76–77; 4:52; 209A8:8
 - plagioclase hosts, 137/140B12:133
 - plagioclase-olivine-quartz projection, 137/140B12:135
 - refractory silicates, 137/140B12:131–139
 - See also* fluid inclusions; glass inclusions
- inclusions, micritic, photograph, 165B7:134
- inclusions, nodular, websterite, 153B16:321–331
- inclusions, polymineralic
- photograph, 147B7:154–155
 - spinel, 147B7:142
- inclusions, sparitic, photograph, 165B7:134
- inclusions, spinel, photograph, 149B26:462
- inclusions, vermicular, photomicrograph, 193A3:177–178
- inclusions, volcanic glass
- background alteration, 148A2:48
 - photograph, 148A3:137
- incoming plate, monitoring, 205B1:26–29
- incompatible element ratios
- basalts, 163A4:39, 42
 - lava, 163A3:28
 - mantle, 192A1:40
- incompatible elements
- aluminum oxide comparison, 121B32:637
 - basalts, 121B30:564, 571, 574–575, 579–581; 32:621, 625, 631, 633, 645; 125B24:405–407;

- 129B19:378–379; 131B16:200, 202–207;
134B17:358, 360; 135A(1)4:154; 144B33:505–
506; 183B1:43–44
depletion, 148B4:50
igneous rocks, 135A(1)1:33
Kerguelen Plateau, 120B(1)2:38–39
lava, 121B32:627–628
mid-ocean-ridge basalt, 125B16:303; 134A8:155–156;
16:348, 350; 135A(1)9:450
oceanic island basalt, 121B32:639
potassium oxide correlation, 121B32:629
rubidium correlation, 121B32:629
vs. active arc volcanoes, 125B16:305
vs. compatible elements, 125B38:638
vs. lanthanum, 121B32:630–631, 640–641
indenes, alkylated, sapropels, 160B23:288
indenes, mass chromatograms, 172B1:9
indenopyrene
 gas chromatographs, 169A6:286
 maturation, 139B24:459
 sediments, 139B15:331–336
index events, dinocysts, 189B5:1–98
index properties
 accreted sediments, 131B18:222–223
 acoustic basement, 173A7:210–211
 acoustic properties, 160B42:537
 altered volcanic rocks, 193A3:76–77; 4:54–55, 256;
 5:15
 average and standard deviation, 172A4:143; 5:232;
 6:293
 basalts, 163A3:29–30; 5:66; 185A3:36; 197A1:12
 breccia, 158A8:163–165; 10:205; 11:220–221
 clasts, 195A3:165
 cores, 144A6:237; 149A5:137, 192–195, 245–251;
 161A6:240–241
 corrections, 154B8:153–154
 correlation with composite depths, 167B31:333–338
 crystalline rocks, 153A3:112–113; 4:172; 6:255; 7:273
 cycles, 150B20:366–367
 data summary, 176B5:42–69
 diabases, 140A2:133
 discrete samples, 149A4:100–101; 154A4:106–111;
 5:190–193; 6:262; 7:310–312; 8:372–380;
 191A4:149–151; 195A3:163; 4:209–214;
 207A4:107–109; 5:116; 7:108–111; 8:97–100
 gabbros, 153A4:173–175; 5:211–214; 6:254–257;
 7:272–274; 179A4:60
 igneous rocks, 176A3:79–80
 Lau Basin, 135A(1)1:40–41
 lithology, 127/128B(2)63:985–1015; 131A6:201;
 146B(2)11:148, 151; 183A3:15, 53–57; 4:26, 92;
 5:49, 190–192; 6:56–57, 193–196; 7:50–51, 203–
 205; 8:24–25, 113–114; 9:38–39, 132; 185A4:38–
 39; 185B12:18; 197A3:39, 167–168; 4:32–33,
 123; 5:27, 110; 6:23, 115
 matrix material, 195A3:166
 mineralization, 158B23:313–315
 nannofossil ooze, 160B48:636
 pelagic sediments, 143A6:155–157, 159–162
 records, 169A5:227
 rhyodacites, 193A6:10–11, 42
 rocks, 149A4:102–105, 138–140; 192A3:36, 162–164;
 4:24, 122–125; 5:22–23; 6:23–24, 113; 7:11–12,
 63; 193A3:297–298
 sediments, 130B39:653–661; 131A6:159, 161–162,
 164; 131B21:265–268; 135B48:789–790;
 143B18:288–289, 292–293; 146A(1)5:191–193;
 6:273–274; 146B(1)11:192; 149B19:354, 356–
 357; 150A6:101–102; 8:236–239; 10:334–336;
 151A6:139; 7:198, 200; 8:249; 9:295; 10:337–
 338; 11:373; 152A6:67–68; 7:84–85; 12:273–
 274; 154A4:98–99, 101–104; 5:189–192; 6:251;
 7:308; 8:363; 155A6:108–110, 113; 7:141, 144–
 145, 151–153; 8:193–195; 9:219–222; 10:261–
 263; 11:297–300; 12:350–352, 356–358; 13:400,
 404–405; 14:426, 428–429; 15:453–454, 458;
 16:479, 483–484; 17:521–522, 530–531; 18:559–
 561; 19:584–586; 20:612, 616–617; 21:651–652;
 22:675–676, 678–679; 26:427–436; 155B29:477–
 493; 156A7:241–242; 157A4:81; 5:129–130, 132;
 6:158–159, 165; 7:362, 373; 8:421–422, 428;
 9:463, 468; 10:527, 529, 536; 159A5:113–114;
 6:197–198; 7:246, 248; 8:287–288; 160A4:71,
 82; 5:118, 121; 6:138–139; 7:191, 197; 8:252,
 254, 261; 9:313–314, 318; 10:371–372; 11:396–
 397, 400; 12:441–442; 13:460, 462; 14:489;
 160B48:634–636; 161A4:90–91; 5:151–152;
 7:323; 9:408; 162A3:81–82; 4:120; 5:163; 7:248;
 8:281; 9:320; 10:374; 164A5:91–94; 6:133;
 7:201, 205; 8:269, 273; 9:303–304; 164B40:421,
 423; 165A3:87–88, 90; 4:186, 189; 5:267; 6:333–
 335; 166A6:96–97; 7:164; 8:192, 194; 9:255–
 256; 10:317–319; 11:365, 367; 167A(1)4:76;
 5:107–108; 6:146; 8:194–195; 10:263; 11:297–
 298; 12:333; 13:370; 14:410; 15:450; 16:477;
 167B30:331–332; 168A5:140; 6:178–179;
 169B7:1–19; 8:34–35; 169S–B1:28, 31;
 171B_A3:78–79, 87, 146–147, 150–151, 153,
 160; 5:210–212, 221–224; 6:289, 292, 299–300;
 7:335–336, 342; 172A3:65–67; 4:132–133, 140–
 141; 5:231–232; 6:290–291, 293–294;
 173A4:90–93; 6:152–153; 7:207–208, 210;
 8:252–253, 255; 9:292; 175A3:79; 4:105; 5:137–
 138; 6:170; 7:195; 8:218; 9:261; 10:301; 11:329;
 12:377–378; 13:413–414; 14:447–448; 15:475;
 180A5:126–128; 6:61–64, 264–271; 7:23, 85;
 8:134; 9:194–202; 10:17–20, 72; 12:192–198;
 181A3:25, 110–112; 4:21, 76–77; 5:22; 6:32,
 144–146; 7:41–42, 181–184; 8:34, 135–137;
 182A4:33–35, 107; 5:22–23, 87; 6:30–32, 110;
 7:24, 84; 8:26–27, 95; 9:22, 80; 10:26–27, 84;
 11:15, 49; 12:21–22, 77; 186A1:11; 4:44–46,
 202; 5:30–31, 118; 189A3:166–170; 4:64; 5:164–
 167; 6:172–176; 7:147–149; 198A3:40, 135–137;
 4:30, 87–90; 5:32–33, 95–97; 6:29, 86–89; 7:28,
 78–79; 8:26, 77–78
 silicified iron oxides, 158A9:173
 Site 504, 137A2:29; 140A2:106, 108
 Site 800, 129A2:60–62
 Site 801, 129A3:129
 Site 802, 129A4:207–209, 212
 Site 803, 130A5:145

- Site 804, 130A6:203–206
 Site 805, 130A7:256–257
 Site 806, 130A8:327–329
 Site 807, 130A9:425, 428, 430–439
 Site 809, 132A3:62
 Site 810, 132A4:90–91
 Site 811, 133A(1)4:117
 Site 812, 133A(1)5:160–161
 Site 813, 133A(1)6:194
 Site 814, 133A(1)7:225
 Site 815, 133A(1)8:278–279
 Site 817, 133A(1)10:384–385
 Site 818, 133A(1)11:437–438
 Site 819, 133A(1)12:484–485
 Site 820, 133A(1)13:538
 Site 821, 133A(1)14:594–595
 Site 822, 133A(1)15:652–653
 Site 823, 133A(1)16:715, 717
 Site 824, 133A(1)17:790
 Site 825, 133A(1)4:126
 Site 827, 134A7:118–120, 124–125
 Site 828, 134A8:161, 169
 Site 829, 134A9:218–220
 Site 830, 134A10:284–286, 297
 Site 831, 134A11:347–350, 352
 Site 832, 134A12:425–431, 446–448
 Site 833, 134A13:515–516, 522–525
 Site 834, 135A(1)4:151–152
 Site 835, 135A(1)5:226–227
 Site 836, 135A(1)6:274–275
 Site 837, 135A(1)7:324–325
 Site 838, 135A(1)8:371–373
 Site 839, 135A(1)9:449–451
 Site 840, 135A(1)10:541–543
 Site 841, 135A(1)11:651–652
 Site 842, 136A4:56–57
 Site 844, 138A(1)9:153, 156
 Site 845, 138A(1)10:230–232
 Site 846, 138A(1)11:304–306
 Site 847, 138A(1)12:360
 Site 848, 138A(2)13:704
 Site 849, 138A(2)14:754
 Site 850, 138A(2)15:844
 Site 851, 138A(2)16:923–924
 Site 852, 138A(2)17:998
 Site 853, 138A(2)18:1042
 Site 854, 138A(2)19:1084
 Site 855, 139A5:143–144, 154–156
 Site 856, 139A6:244
 Site 857, 139A7:354, 385, 388–389, 393
 Site 858, 139A7:518–520
 Site 859, 141A6:121–123
 Site 860, 141A7:211–212, 219–220
 Site 861, 141A8:276, 278, 284–285
 Site 862, 141A9:332–334, 336
 Site 863, 141A10:401, 403, 410–412
 Site 864, 142A4:64
 Site 866, 143A7:231–235
 Site 869, 143A9:342–343
 Site 871, 144A3:84–85
 Site 872, 144A4:136
 Site 873, 144A5:191
 Site 874, 144A6:242
 Site 877, 144A8:309
 Site 878, 144A10:375–377
 Site 879, 144A11:431–432
 Site 880, 144A12:447
 Site 881, 145A3:65–67, 69–71
 Site 882, 145A4:109–116
 Site 883, 145A5:154–155, 162, 164–176
 Site 884, 145A6:243–244, 250, 252–264, 266–271
 Site 887, 145A8:357–359, 368–369, 371–374
 Site 888, 146A(1)4:87–89
 Site 889, 146A(1)5:192–193
 Site 890, 146A(1)5:194
 Site 891, 146A(1)6:275
 Site 892, 146A(1)7:346–349
 Site 893, 146A(2)2:40–44, 46
 Site 894, 147A3:98–99
 Site 895, 147A4:150–153
 Site 907, 151A5:97–101
 Site 908, 151A6:143–147
 Site 909, 151A7:203
 Site 910, 151A8:252–256
 Site 912, 151A10:341–343
 Site 913, 151A11:379–381
 Site 916, 152A8:102–103, 105
 Site 917, 152A9:142–143
 Site 918, 152A11:239–244
 Site 919, 152A12:273–274
 Site 1035, 169A3:125–128
 Site 1036, 169A4:187
 Site 1038, 169A6:290
 Sites 867–868, 143A8:291
 Sites 875–876, 144A7:280
 Sites 885–886, 145A7:315–316, 323–325
 split cores, 151A5:90; 178A4:26; 5:22–23; 6:16–17;
 7:19; 8:17–18; 9:17
 sulfides, 158A7:115–120, 135; 11:220
 summary, 152A7:86
 unique distribution pattern, 133A(1)8:271
 volcanic rocks, 163A4:44–45; 193A5:6
 vs. depth, 129A2:62; 131A6:200; 134A9:231–233;
 143A9:349; 152A6:69; 153A4:173–175;
 160A7:197; 8:261; 9:319; 169A3:128; 4:187;
 169B7:10; 178A5:94; 183A3:36; 4:75; 6:155;
 185A4:132–133; 192A3:137; 4:104; 5:101–103;
 6:85
 vs. gamma ray attenuation density, 151B34:601–602
 vs. lithostratigraphy, 143A9:352
 X-ray scan, 156B11:153
See also density; permeability; physical properties; po-
 rosity; shear strength; thermal conductivity
 index zones
 Site 829, 134A9:218–220
 Site 832, 134A12:425, 427
 indium
 jasperoids, 193B9:6
 mineral separates, 158B2:31; 27:370–373
 vs. depth, 158B4:54, 58, 60, 62
 indole, mass chromatograms, 172B1:9
 indols, biomarkers, 159B43:599

- induced anomaly logs
 vs. depth, 178B31:15–16
 vs. remanent anomaly logs, 178B31:17
- induction. *See* resistivity logs, deep induction phasor
- induction logs
 resistivity, 133B46:687–694
 Site 883, 145A5:161, 163
 Site 884, 145A6:251, 264
 vs. depth, 145A5:189–192; 6:283–284; 145B30:457,
 459, 465; 146B(1)20:318; 155A7:162;
 180A5:102; 181A7:105, 111; 8:82; 9:53
See also deep induction logs; dual induction (DIL)
 tool; medium induction logs; sonic induction
 tool
- inductively coupled plasma–atomic emission spectroscopy
 analytical data, 199A7:14
 sediments, 135B7:108; 8:131–146; 10:155–161;
 199A7:1–14
- inductively coupled plasma–mass spectrometry, basalts,
 144B29:495–512
- inductively coupled plasma–optical emission spectrometry
 basaltic rocks, 142B10:75–81
 sediments, 131B35:439
- indurated layer
 lithology, 150X_A1:22; 174AXS_A1:25, 27; 2:22–23,
 25–27, 32; 3:24–25, 27, 34; 185A4:15–16
 photograph, 150X_A1:20–21; 185A4:68, 81–82, 87,
 89–91
- induration
 basement units, 183A7:14, 25
 carbonates, 164A8:266
 cement, 164A8:271–272
 classes, 125A2:22–23
 coarse fraction, 165B17:257–258
 lithology, 165A6:297–302; 168A5:110;
 174AXS_A4:22, 27; 5:18, 40–42; 6:44–46; 7:19,
 22; 186A4:21; 198A4:11–12; 204A4:7; 208A4:6–
 8
 photograph, 164A7:182
 structural data, 169A3:112; 4:169
 water sampling temperature probe (WSTP) tool,
 133A(1)16:709–710
- inertinite
 Broken Ridge, 121A13:496; 121B24:472, 476
 carbon, 194A5:19
 dispersed organic matter, 180B10:10
 Galicia margin W, 103B34:572
 mud, 131B30:379, 382–385
 organic matter, 180B10:7, 9
 sediments, 141B9:124–126; 157B21:366–367;
 164B5:50–56
 Site 739, 119B22:408
 Sites 798–799, 127/128B(1)38:670
See also inertite
- inertinite/vitrinite ratio, Broken Ridge, 121B24:472, 481
- inertite
 palynofacies, 131B5:59
See also inertinite
- infaunal content. *See* epifaunal/infaunal content
- infillings
 Cretaceous, 144B8:165–166, 168
 lithofacies, 144B14:285
- infrared anomalies
 correlation with grain size, 204B10:4–5, 23–24
 vs. depth, 204B11:13–16
- infrared imagery. *See* infrared thermal imaging
- infrared thermal imaging
 comparison with physical properties, 201A4:4; 11:61;
 12:19
 cores, 204A1:62; 3:73
 gas hydrates, 201A11:36; 204A6:79; 7:72; 8:92; 9:92–
 93; 10:20–22, 110; 11:58; 204B1:11
 methods, 201A1:50; 4:1–20
 nodular texture, 204A8:56
 photograph, 201A7:57–58
 sediments, 201A7:27; 11:24–25
 temperature, 201A6:24–25, 54–55
 thermal anomalies, 204A3:25–26; 4:20; 5:11, 39;
 6:14–15, 51; 7:15–16, 47–48; 8:17–18, 58; 9:16–
 17, 55; 10:65–69; 11:14–15, 43; 204B10:11–18
 veins, 204A8:56
- initial Eocene thermal maximum
 carbonate dissolution, 198B10:9
 foraminifer isotopes, 198B10:13
- injection experiments
 methods, 137A2:50–51
 permeability, 139B39:624–625; 40:615–616;
 148B27:355–356
 pressure, 148B27:363
- injection structures, photograph, 170A4:116; 188A3:91
- inner platform environment
 carbonates, 194B5:17–18
 lithology, 194A7:15
- inner ridge facies, Cretaceous, 144B9:187–189
- inner shelf, topography, 178A2:10
- inoceramids
 biostratigraphy, 210A3:88
 Cenomanian/Turonian boundary, 207A1:7
 lithology, 174AXS_A1:23–24; 183A5:5–6; 6:6–7;
 207A4:10
- Inoceramus* fragments
 Australian Shelf NW, 122A8:232, 234
 bipolar bivalve distribution, 123B38:731
 core photographs, 198A1:114
 lithology, 198A5:13, 15; 6:10, 12; 7:10, 12
 occurrence, 104B36:739–743
 sediments, 198A6:4
 Site 261, 123B1:26
 Site 692, 113B28:444, 448
 Site 700, 114A7:259, 264, 267, 305
 Site 738, 119A7:251; 119B33:637
 Site 748, 120A7:196
 Site 754, 121A7:195
 Site 765, 123B1:7–8, 10; 5:126
- inoculated media, different depths, 201A6:84; 7:94;
 10:76; 11:102–103; 12:63
- inorganic calcite. *See* calcite, inorganic
- inorganic carbon. *See* carbon, inorganic
- inorganic geochemistry. *See* geochemistry, inorganic
- inorganic matter, diagenesis, 168A4:80, 83; 5:135–137

- inorganic reactions, geochemistry, 190A4:16–18; 5:21–23; 6:15–17; 7:12–14; 9:16–18
- insolation
carbonates, 138B14:331
changes, 129B30:529–547
climate variability, 138B1:16; 202A1:33–37
continental rise, 178B(synthesis):16–17
cyclostratigraphy, 199B1:8
frequency vs. age, 178B32:31–32
gamma ray attenuation density, 202B4:26
heating and North African aridification, 108B29:464–466
mass accumulation rates, 175B11:22
models, 175B(synthesis):75
Neoglacial, 178B34:7
orbital eccentricity, 154B3:73–74
paleoclimatology, 160B26:327–328
paleoecology, 167B17:222
paleoproductivity, 138B14:335
sappropels, 160A2:24; 160B3:31, 33; 15:194–195
sand record, 202B4:28
sediments, 178B(synthesis):13
stable isotopes, 138B43:844
timescales, 154B20:307, 309, 314
vs. age, 145B19:288–291; 21:321, 324; 167B17:226; 175B22:15; 202B4:24
vs. gamma ray attenuation density, 138B6:95
vs. oxygen isotopes, 138B15:350–351
vs. time, 146B(2)8:120
warming, 177B(synthesis):11–12
See also orbital cycles
- insolation, summer, oxygen isotopes, 130B20:360–362
- insolation, truncated, wavenumber, 178B32:28, 36
- insolation cycle
ages, 161B13:160
atmospheric circulation, 161B37:476
calibration, 161B13:172–173
oxygen isotopes, 161B37:472
sappropels, 161A1:11–12; 161B13:161–175
temperature, 166B2:20
See also orbital cycles
- insolation forcing, ice core correlation with marine sediments, 177B(synthesis):18–19
- insolation signal
physical properties, 178B32:5, 9–15
vs. age, 178B32:21
wavenumber, 178B32:24–26, 28, 36
- insoluble residues
vs. age, 144B42:714
vs. compressional wave velocity, 160B42:538
vs. depth, 144B3:66–67
vs. specific surface, 165B10:186
- instrumental borehole seal
logs, 139A7:535–536
vs. depth, 139A7:563
- instrumental neutron activation analysis, 153B17:339–346
- instruments
boreholes, 186A3:1–53; 191A4:43–46
CORK-II, 205A2:7–11
deployment, 191A1:10; 4:158
- hard rock reentry system, 191A1:7–8
- magnetic experiments, 189A(appendix):3–7
- ocean borehole seismometers, 191A3:6–8
- power supply, 191A3:15–19
- reflectance spectrometry, 138A(1)4:67–70
- seismic observatories, 191A1:3–5, 7–8; 3:1–58
See also broadband borehole seismometers; hammer/bit testing; hard rock guidebase (HRGB); hard rock reentry system; heave-compensation hardware systems; heave compensator experiment; hydril pulsation dampner; Kuster pressure gauge; LAB-TEC 100; laser fusion; laser particle counter; ROV operations; SAM; Schlumberger Dipole Shear Imager; scintillation detector; seafloor instruments
- integrated resistivity logs, vs. depth, 178B19:27
- interbasaltic horizons, origin, 143A7:222–223
- interbedded sequences
cyclic, 167A(1)5:93
inclined, 190A7:24
lithology, 188A3:11–12
photograph, 202A3:23
- intercalibration
gas hydrate proxies, 204B1:10–13
stratigraphy, 199A1:17–18
- intercumulus melts, gabbros, 179B(synthesis):35
- interglacial assemblages, foraminifers, 139B2:46
- interglacial deposits
carbonates, 155A20:624; 155B20:357
clay mineralogy, 155B9:187
lithology, 181A8:5–6
mass transport deposits, 155B20:355
paleoclimatology, 181B1:5
stable isotopes, 155B20:353–365
stratigraphy, 155A7:165; 22:685; 155B35:564; 38:594
See also glacial-interglacial cycles
- interglacial deposits, carbonate-rich, 155B39:596–597
- interglacial hemipelagic interval, lithology, 155A11:312
- interglacial periods. *See* glacial-interglacial cycles
- interglacial stages
chronology, 167B7:134–138
marine isotopic stages, 177A1:27
ocean circulation, 175A3:51
“Pacific-type” carbonate stratigraphy, 177B(synthesis):52
paleoecology, 167B17:221
reflectance, 175A5:120
salinity minima, 174A_A4:123
sea ice, 178B25:9
See also glacial-interglacial cycles
- intergranular texture. *See* textures, intergranular
- intergrowths
deformation, 176B4:13–14
harzburgites, 209A3:6
lithology, 209A5:5; 210A4:7
mineral chemistry, 200B3:8, 36
origin, 200B3:10
photograph, 206A3:242
photomicrograph, 163X_A6:39; 176B4:29–32, 39–40; 185A3:97; 193A3:190; 200A4:104–105, 107; 200B3:24; 209A5:58; 7:51–52

- sulfides, 176B7:5–7
- temperature, 176B4:11–12
- textures, 176B4:8–9, 55
- vs. depth, 176B4:22
- See also* symplectite
- intergrowths, clay, photomicrograph, 193B6:14
- intergrowths, consertal, photomicrograph, 179A4:113
- intergrowths, glomeroporphyritic, 183A4:48–51
- intergrowths, granophyric
 - groundmass, 206A3:57–59
 - photograph, 206A3:208
 - photomicrograph, 206A3:182, 209–210, 222
- intergrowths, microlitic, petrography, 200A4:31
- intergrowths, muscovite/quartz, 210B2:22
- intergrowths, myrmekitic
 - mineral chemistry, 200B3:
 - plagioclase veins, 176B9:4
- intergrowths, plagioclase-pyroxene
 - gabbros, 147B2:33–34
 - photograph, 147B2:38, 40
- intergrowths, spinel-orthopyroxene-clinopyroxene, 153A3:60
- intergrowths, symplectic
 - lithology, 209A7:7
 - photomicrograph, 209A6:56; 7:58
 - residual peridotites, 209B1:7–8
- interlaboratory comparison, tephrochronology, 152B7:85–91
- interlayer water
 - expulsion, 129B14:272
 - hydrogen isotopes, 129B16:299
 - See also* pore fluid; pore water
- intermediate fauna, foraminifers, 161B35:449, 451–452, 454
- intermediate resistivity logs, 146A(1)4:105; 6:280–281
- intermediate water
 - Antarctic-Australian opening isotopic correlation, 119B38:713
 - carbon isotopes, 117B17:301–302
 - carbonate crash models, 206B4:10–12
 - Cenozoic, 144B41:688
 - chemistry, 133B16:204–205
 - Indian Ocean, 115B25:483; 117B17:300, 302; 119B38:694, 704, 707
 - millennial-scale climate change, 202A1:34
 - oxygen demand seasonal variations, 117B17:291
 - ocean circulation, 167A(1)1:7–8; 172A1:7
 - ocean fronts, 181B1:57
 - temperature, 207A1:10
- internal friction, sediment fabric, 160B49:659–660
- International Ocean Network, drilling, 179A1:1–26
- international reference rocks JB2 and JB3, 148B37:463
- interpillow material
 - alteration, 185A3:24–25
 - composition, 185A3:111, 116
 - distribution, 185A3:77
 - lithology, 185A3:7, 11–13
 - mass accumulation rates, 185A3:9
 - photograph, 185A1:47; 3:78–79, 81–84, 119; 4:96, 103; 191A4:95–96, 100
 - photomicrograph, 185A3:94, 117
- Site 801, 129A3:142; 129B2:10
- vs. depth, 185A3:110
- interplate events, unconformities, 186A1:5–6
- intersection massif, geology, 153B4:64–69
- intersertal matrix, photomicrograph, 185A3:93
- intersertal texture. *See* textures, intersertal
- interstadials
 - calcite, 172B(overview):4
 - marine isotope stages, 172B(overview):5
 - See also* stadials/interstadials
- interstitial fluid. *See* pore water
- interstitial materials, background alteration, 148A2:48
- interstitial melts
 - gabbros, 147B1:11–12
 - migration during crystallization, 147B1:15–16
- interstitial water. *See* pore water
- intertidal environment
 - lithology, 161A5:131
 - paleoenvironment, 183A1:26
- intertidal facies
 - biostratigraphy, 194A7:21–22
 - Cretaceous, 143B9:120
- intra-arc basins. *See* basins, intra-arc
- intra-oceanic island arcs. *See* island arcs, intra-oceanic
- intraclasts
 - authigenic carbonates, 164B29:287–289
 - carbonates, 161B6:78
 - diamict, 178A9:18–19
 - guyots, 144B53:945
 - lithology, 144B14:281; 164A8:247; 166A9:242; 11:353–355; 180A8:4; 181A6:9; 182A1:19–20; 6:9; 10:6; 194A3:5; 210A3:42, 45
 - Miocene, 160B33:42
 - peat, 180B10:10–11
 - photograph, 145A5136; 150X_B3:44; 161A8:364; 9:401; 161B6:79; 166A6:81; 173A6:119; 8:239
 - photomicrograph, 160B33:425; 37:473; 164A8:255; 164B29:290; 180B10:30, 32; 192A6:61
 - provenance of Eocene sandstone, 210B2:10
 - turbidites, 166B5:50–53, 57–60
 - See also* clasts
- intraclasts, claystone
 - floodplain deposition, 119B3:50
 - Site 740, 119B3:46, 48
- intraclasts, mud, lithology, 159A6:168–170
- intraclasts, mudstone, photomicrograph, 210A3:207
- intraclasts, siltstone
 - floodplain deposition, 119B3:50
 - Site 740, 119B3:46
- intrafasciculate texture. *See* textures, intrafasciculate
- intraformational mud. *See* mud chips
- intraparticles, photomicrograph, 210B2:20
- intraplate volcanism. *See* volcanism, intraplate
- intrasequence architecture, lithofacies, 174AXS_A(summary):7
- intrusions
 - alnoite, 192B1:4
 - Atlantis Bank, 118B3:56, 59
 - basement tectonics, 149B38:613
 - bulk rock and mineral chemistry, 153B10:198–215
 - deformation, 118B2:27; 4:85, 103–104

- digital images, 209A6:88
dikes, 137/140B2:22–23, 25–27
emplacement timing, 139A6:196
evolution, 153B4:72–74
gabbros, 153A3:63; 209A3:8–9; 5:17
Holocene, 139A2:36
Lambert Glacier-Amery Ice Shelf system, 119B5:65
lithology, 170A3:58–60; 209A3:4
mafic rocks, 180B3:8–11
magma chambers, 147A1:5
microgabbro crosscutting olivine gabbro, 118B26:507, 509, 511
paleomagnetism, 170A3:70; 205A4:42–43
petrology, 176A1:12–14
photograph, 176A3:209; 209A3:84
Pigafetta Basin, 129A2:46–47
seismic profiles, 139A2:19
sequence, 118B4:85
serpentinization, 153B3:47
sill injection, 210B1:22
Site 740, 119B3:54
Site 766, 123A5:269
stratigraphy, 176B10:20–23
structure, 176A1:3–5, 8–10; 3:65–66
timing, 209A3:30
trondhjemitic breccia, 118B2:27
See also layered intrusions; plutons
- intrusions, andesitic, age, 126B42:632
intrusions, assimilative, olivine gabbros, 118B26:467
intrusions, basaltic
 common parental magma, 123A5:323
 fractionation, 123A5:323
 geochemistry, 123A5:322–323
 peperite, 144A11:435
 Site 766, 123B42:793
 trace elements, 123A5:323–324
intrusions, discordant dike-like, 129B19:362
intrusions, gabbroic
 deformation, 153B1:16
 lithology, 209A5:10
 photograph, 170A4:107
 magmatic veins, 209A3:29–30
 magnetic inclination, 205A4:143
 orthopyroxenites, 209A3:7–8
 photograph, 209A5:74, 95
 photomicrograph, 209A5:71, 99
 structures, 209A1:8–10
intrusions, late magmatic (LMIs)
 alteration, 118B8:163, 165
 assimilation, 118B8:177–178
 Atlantis Bank, 118B8:155
 cataclastic association, 118B8:159
 contact relationships, 118B26:445, 507–509
 magmatic pyroxene, 118B8:161–162
 mineralogy, 118B8:167–168
 structures, 118B8:172–173
intrusions, olivine diabase
 geochemistry, 126A9:367–369
 petrography, 126A9:360–361
 petrology, 126A9:354, 360
intrusions, podiform, microgabbro, 118B26:511
intrusions, synvolcanic, photograph, 193A4:91
intrusions, troctolitic
 Atlantis Bank, 118B26:511
 Atlantis II Fracture Zone, 118B26:442
 thermal gradient at emplacement, 118B26:470
intrusions, volcanic, magnetic properties, 123A4:301
intrusive contacts
 alteration, 147B20:366
 igneous rocks, 140A2:84–86
 lithology, 176A3:15–16
 petrology, 179A4:34–35
 See also igneous contacts
intrusive rocks
 petrogenesis, 209A1:36–37
 photomicrograph, 210A3:255
intrusive rocks, mafic, lithology, 139A7:300
intrusives, oxide-bearing, petrology, 153A5:187–190
inverse-graded beds. *See* inverse grading
inverse grading
 lithology, 180A5:9
 photograph, 180A5:53, 64; 192A4:45
inverse transfer functions, broadband seismometers, 200B5:10
inversion models
 lithology, 150B22:396–405
 well-logging, 129B29:515–516; 150B22:393–394
iodide
 geochemical cycles, 195B1:7–8; 5:5–8
 pore water, 131B13:165–174; 156B29:354; 169B1:3; 204B14:1–25
 serpentine mud, 195B5:1–18
 vs. boron, 195B5:16
 vs. chloride, 161B33:428–429
 vs. depth, 134B8:113, 117–118, 124–126; 156B29:355; 164B12:134; 169B1:7–9; 195B5:14–15; 204B14:18
 vs. magnesium, 139B20:401
iodide/chloride ratio, vs. depth, 156B25:314; 195B5:14
iodine, vs. depth, 171B_B4:10
iodine-127, pore water, 204B14:3–4, 8
iodine-129/iodine ratio
 vs. age, 204B14:22
 vs. depth, 204B14:20–21
iodine/bromine ratio, vs. depth, 204B14:19
iodine isotopes
 organic matter, 201B1:5
 pore water, 204B14:1–25
ion concentration, vs. time, 185B11:10–11
ion density, lipids, 207B12:8–9
ion exchange
 pore water, 139B22:436–437; 150X_B24:338–339
 See also cation exchange capacity; cations
ion exclusion
 chloride enrichment, 164A5:89–90
 clays, 134A7:114
ion filtration, Pigafetta Basin, 129B14:272
ion microprobe data
 gabbros, 153B17:339–346
 mineral composition, 144B30:513–533
 volcanic glass, 135B3:37
ion molal product, pore water, 151A5:82

ion seismic observatory, geology, 195A1:14–16
ions
 charge anomaly, 182A9:21
 diffusion, 164A6:130–132
 fluids, 158A7:124, 126–127, 140; 8:169; 9:173–174
 See also minor ions
iowaite
 alteration, 149B30:519–527; 209A7:8–9
 chemical composition, 125B17:315–316
 chloride depletion, 125B20:358–359
 decomposition, 125B17:317
 electron microprobe data, 149B32:552; 209B2:1–13
 partial melting, 149B23:420
 photomicrograph, 149B32:552
 secondary minerals, 149A4:80
 serpentine mud, 125B17:317–319, 323; 36:603
 serpentinites, 149B32:544
 Site 778, 125B19:354
 X-ray diffraction data, 209A7:9, 60, 65
iridium
 abundance, 113B12:161–168
 analytical methods, 119B39:719–720; 121B19:416–417
 anomalies, 119B39:725–729
 biosphere, 119B47:856
 bioturbation, 113B12:161–162
 Cretaceous/Tertiary boundary, 113B47:829, 833; 119B39:720, 722–723; 47:851, 854–856; 121B19:415, 417; 36:731; 43:913–916; 130B45:746; 207B1:23
 deposition of volcanic ash, 121B19:420
 enrichment event, 119B47:858–859
 hydrosphere, 119B47:855–856
 impact craters, 165A1:7; 178B9:3–4, 6
 Indian Ocean W equatorial, 115B7:77
 kaolinitic claystone, 121B25:490–491
 komatiites, 115B7:82
 magnetic susceptibility, 119B43:758; 121B25:492
 mass accumulation rates, 119B47:855
 Maud Rise, 113B51:903
 melting calculations, 137/140B17:204
 microtektites, 177B(synthesis):5
 mineral separates, 158B2:33
 nannofossil extinction, 121B19:418–419
 non-Cretaceous/Tertiary boundary peaks, 121B19:421–422
 origin, 121B19:420, 423
 Paleocene/Eocene boundary, 199B16:3
 red clay vs. carbonate environment, 119B47:855
 scandium-normalized distribution, 119B39:720, 722–723
 sediments, 145B28:428–432; 159B18:182–184; 177B4:8–9
 spherules, 145B26:402–403, 405
 volcanism, 113B12:161–162
 vs. centimeters from the Cretaceous/Tertiary boundary, 174AXS_A(summary):33
 vs. depth, 145B28:430; 177B4:7
 vs. osmium, sediments, 159B18:183
 See also chromium/iridium ratio; osmium/iridium ratio; palladium/iridium ratio

iridium anomaly, impact deposits, 177B4:3–4
iridium/cesium ratio
 altered volcanic ash and basalt, 121B19:417
 Site 752, 121B19:420
IRM. *See* remanent magnetization, isothermal iron
 abundance, 129B2:57; 32:582
 addition via diffusion, 160B20:256
 alteration, 127/128B(2)58:911; 147B26:450; 148B11:159; 12:177–178; 193A3:50, 69; 193B1:47; 206A3:71
 augite, 127/128B(2)52:851–853
 authigenesis, 172A5:225–226, 228
 basalts, 127/128B(2)54:870; 158B17:217; 163B8:82–85; 195A4:22–23; 210B9:16
 basement, 206B8:3
 biogeochemical flux model, 201B1:27
 bioreactors, 207A7:27–29
 biotite, 161B20:288
 black shale, 207A5:27–28
 bulk sediments, 199A8:17; 9:11; 10:17; 11:26; 12:27; 13:22–23; 14:19; 199B14:15
 calcite, 139B14:325–327; 149B33:554–555
 carbonates, 115B38:670, 672–673; 127/128B(1)42:722–723; 144B51:909; 160B35:448; 166B13:141–142; 182B16:6; 198B13:5
 Celebes Sea, 124A10:168, 174, 178; 13:376–377; 26:360, 362, 367–369; 124B20:277
 chromian spinel, 135B33:565–584
 clay minerals, 158B20:281–282
 clinopyroxenes, 135B27:493; 179B(synthesis):84
 color cycles, 188A3:53–54
 cordierite, 161B20:288
 Costa Rica Rift, 111A3:113, 116–118, 122–123, 125
 Cretaceous clays, 123B8:178
 Cretaceous/Tertiary boundary, 119B39:723–724
 dark-light cycles, 127/128B(1)32:569
 diabases, 180B3:6–7
 diagenesis, 150X_B3:28, 35; 180B6:19
 dolomite, 175B15:6–7
 dredged vs. drilled gabbros, 118B21:381
 electron microprobe data, 194B8:18, 22
 element correlations, 158B27:378–381
 enrichment, 129B32:602; 147B8:166; 160B20:255; 176B10:18; 180B6:19
 excess iron/excess iridium ratio, 119B39:724
 experimental augite, 127/128B(2)53:862–863
 ferromanganese crusts, 144B44:751–753; 199B14:4
 gabbros, 153B5:82, 93; 176B6:16; 8:3–4; 180B3:7
 garnets, 161B19:267; 20:287
 geochemical logs, 114A11:697–700; 117B29:490; 118A6:175; 130B48:777
 geochemistry, 103B29:491–492, 498–499; 133B40:575, 578–579; 134A9:236; 144B51:911; 166B9:109–110
 gouge, 161B25:333
 green grains, 159B43:593–594
 high-spin Fe²⁺ in aluminosilicates and carbonates, 127/128B(1)43:740–741, 744–746
 hyaloclastite, 206A3:70
 hydrothermal fluids, 139B20:404

- hydrothermal sequences, 135B5:77–82; 145B27:421–424; 158B17:217; 185A3:13; 199B15:3
- ilmenite, 176B9:13
- imbalance between sulfide production and iron addition, 160B20:256–257
- in volcanic rocks, 183B17:2
- inclusions, 157B22:381
- iron sulfide formation, 160B20:256
- Japan Sea sediment, 127/128B(2)78:1236
- Japanese volcanic outcrops, 127/128B(2)54:874
- jasperoids, 193B9:5–7
- Jurassic basement, 185A1:18
- Labrador Sea, 105B10:145
- lava, 163A5:59
- Lima Basin C, 112A11:196
- limestone, 144A6:232; 7:275; 8:302
- lithofacies, 144B51:902
- lithology, 183A7:6; 210A3:35, 54
- Lower Cretaceous, 129B32:606
- mafic phases, 118B2:30
- magnetic properties, 120B(1)15:238
- mass accumulation rates, 129B32:588–589, 593, 596, 598
- measured spectra, 129B34:636
- metalliferous sediments, 138B37:771, 774
- microbiology, 168B14:171; 200A4:45; 204A3:22; 205B8:6–11
- mineral chemistry, 179B2:10–12
- mineral separates, 158B2:33, 36, 38; 7:94; 27:370–376
- mobility, 183B15:9–10
- modern surface sediments, 138B42:824–826
- mud, 111A3:81
- olivines, 129B17:330
- Oman margin N, 117B31:524
- organic matter, 207A8:27–28
- oxic conditions, 157B32:565–567
- oxidation, 172B2:1–11; 172B(overview):3; 209A7:9
- Pacific Ocean W, 124B31:414–415, 418–419
- Paleocene/Eocene boundary, 199A1:84; 13:24; 14:20; 199B16:3
- paramagnetic Fe³⁺, 127/128B(1)43:739, 741, 745–746
- phase equilibria, 179B2:41
- phyllosilicates, 136B11:135
- pillow basalts, 187A4:7
- pore water, 116B12:146; 149A5:135, 191; 150A6:99; 7:172–173; 8:235; 9:290; 10:333–334; 155A6:106; 7:141; 8:192; 9:217; 11:296; 12:349; 13:399; 14:424; 15:452; 16:478; 17:521; 18:558; 19:584; 20:612; 21:651; 22:675; 159A5:112; 6:195; 7:243; 8:284–285; 165A4:166; 5:259; 6:317, 319; 165B19:288; 166A6:94; 7:162; 8:190–191; 10:313–316; 166B9:104–105; 172A6:286–288; 7:311–313; 177A4:16–17; 5:21–22; 8:17; 178A5:19; 6:14; 7:15; 182A1:41; 7:21; 8:24; 9:19; 10:24; 11:14; 12:20–21; 191A4:21–22; 193B4:4; 194A3:16; 4:22; 195A3:35–40; 198A3:34–35; 4:26; 5:27; 6:24–25; 7:24; 8:21–22; 9:30; 202A3:13; 4:14; 5:13; 6:14; 10:17; 11:15; 12:15; 13:13–14; 204A5:8; 6:11; 10:15; 205A4:47; 5:31; 6:16; 207A3:21; 4:19–20; 5:15; 6:24, 30–32; 7:22; 8:23
- pyrite, 117B31:523; 121A12:391; 123B12:233–234; 165A4:183
- pyroxene in gabbros, 153B27:484–487
- pyrrhotite vs. depth, 176B7:17
- redox, 161A6:236, 238; 165A5:257; 185A4:27
- reduction, 151B24:423–425; 161A7:320–321; 168B10:131–133; 201A1:20–21, 34
- reflectance, 155A23:700
- relation to organic carbon, 160B20:255–256
- replicate pore water, 201A7:87; 12:58
- scandium-normalized distribution, 119B39:724
- schists, 161B20:283
- seawater reactions with basement, 165B19:294
- sediment chemistry, 160B20:249–259
- sediments, 117B12:249; 129B2:43, 50; 135B52:840–841; 145B13:210–211; 149A4:98; 151A9:287; 166A11:364–365; 166B17:184–188; 171B_B4:4–5; 177A6:15; 189B12:3, 7–12; 195A4:36; 199B14:4; 204A3:18; 205B3:4; 206A3:42; 207B9:1–23; 10:6–7; 208A5:17
- Serocki Volcano, 106/109A4:62
- serpentinites, 149B31:533–535
- sheet silicate formation, 119B16:313
- shipboard vs. shore-based digestion, 206B3:14
- shore-based flux vs. shore-based microwave acid digestion, 206B3:12–13
- silicate Fe²⁺ content, 127/128B(1)43:744–745
- siliceous deposits, 129B2:41; 198B17:9–10, 26
- Site 699, 114A6:156; 114B37:692–695
- Site 700, 114A7:295
- Site 736, 119B18:356
- Site 765, 123B3:82–83
- Site 795, 127/128B(1)41:706
- Site 798, 127/128B(1)42:722; 86:1368–1369
- Site 799, 127/128B(1)6:90–91; 42:722
- Sites 1244 and Site 1246 comparison, 204A5:32
- sources, 121B21:440; 138A(2)13:700–701
- sources, mobility, and fixation, 160B20:255–256
- sphalerite, 158B1:13
- spinel, 125B27:450; 135B34:585–594; 152B33:407
- staurolite, 161B19:271–272
- storage, 160B20:253–257
- submarine ferromanganese hardgrounds, 194B8:5–6
- sulfides, 158A7:93–94, 97–98; 8:156, 158–160; 9:172; 158B3:44; 176B7:5–9; 193B10:3–7
- Sulu Sea, 124A11:257, 260, 262
- terrigenous component, 117B23:412
- tholeiitic basalt, 203A3:13
- turbidites, 135B10:154–161; 52:832
- Upper Jurassic, 129B32:606
- valence, 172B2:9
- veins, 127/128B(2)75:1178
- volcanics, 127/128B(2)87:1381; 131A6:172; 203B2:4
- volcaniclastics, 134B9:151
- vs. age, 138B37:771
- vs. aluminum, 127/128B(1)42:732; 135B27:496–501; 139B10:171; 147B15:305; 149B32:551
- vs. calcium, 179B2:40
- vs. carbon isotopes, 139B14:327
- vs. cations, 168B10:128
- vs. chromium, 148B3:28

- vs. composite depth, 145B27:422
- vs. depth, 103B29:493–494; 127/128B(1)43:742; 136B6:80–83; 137/140B13:145, 164; 138A(2)13:714; 139B14:325–326; 19:359–367; 149:749–750, 755; 145B13:212; 148B5:61; 10:136; 149A4:99, 135, 192; 150A6:103; 7:172; 8:236; 9:290; 10:333; 150B17:325; 150X_B24:331; 155A6:112; 7:149–150; 8:192; 9:219; 10:261; 11:296; 12:354; 13:402; 14:426; 15:456; 16:481; 17:528; 18:558; 19:585; 20:615; 21:651; 22:677; 156B13:179, 181; 158A7:129; 8:160; 10:195; 158B4:53, 57, 59, 61; 27:374–376; 159A6:195; 9:311; 160B20:252; 161A8:261; 164B15:155; 165A3:74; 4:166; 5:257; 165B19:289; 166A10:314; 166B9:103; 13:142; 168B9:107–110, 112, 114; 171B_B4:8; 172A5:227–228; 6:286–287; 175B13:15; 20:6; 177A4:48; 5:51; 6:43; 8:50; 9:41; 177B1:6; 178A7:52–53; 182A7:50; 8:53; 9:43; 10:54; 11:31; 12:46; 182B16:15–16; 185A4:114; 194A3:46; 195A3:117; 195B10:7; 198A3:94; 4:66; 5:65; 6:58; 7:54; 8:52; 198B13:8–12, 14; 199A8:36; 9:27; 10:40; 11:65; 12:70; 13:54, 56; 14:39, 41; 199B15:5; 16:6; 201B14:22–23; 202A3:36; 4:48; 5:42; 6:47; 9:63; 10:58; 11:53; 12:63; 13:51; 204A3:59; 4:61; 5:28, 32; 6:39; 7:36; 8:48; 9:46; 10:52, 58; 205A4:145; 5:85; 206B3:15; 207A1:79; 4:58; 5:68; 6:67; 7:63; 8:59; 207B9:14–15, 17–18; 10:12; 208A3:57; 4:41, 58; 5:35, 48; 6:53, 67; 7:39, 57; 8:39, 56
- vs. loss on ignition, 148B10:139
- vs. magnesium, 137/140B13:146; 139B20:405; 148B10:149; 149B31:539; 33:555; 168B10:126; 179B2:40
- vs. magnesium/calcium ratio, 111A3:120
- vs. manganese, 143B13:218; 193B4:12; 199B14:16
- vs. mean axial depth, 141B27:347
- vs. NaCl-extracted sulfur, 160B20:253
- vs. organic carbon, 160B20:255
- vs. oxygen isotopes, 139B14:326; 148B10:144, 148
- vs. phosphorus, 199B14:16
- vs. silica, 158B19:263
- vs. sodium, 130B1:16
- vs. strontium isotopes, 148B10:144
- vs. sulfur, 135B36:612; 209B2:9
- vs. uranium, 148B10:142
- vs. zinc, 199B14:16
- websterite, 153B16:329
- well-logging, 123B36:641, 644; 166A6:100
- xenocrysts, 118A3:49
- X-ray diffraction data, 127/28B(2)65:1025–1035
- X-ray fluorescence data, 117B29:490–491; 175B13:5–6, 20–30
- See also* alkalis-iron-magnesium diagrams; aluminum/(aluminum + iron + manganese) ratio; aluminum + iron + manganese system; aluminum + iron + titanium plots; calcium/iron ratio; clinopyroxenes; cobalt/iron ratio; (copper + cobalt + nickel)-iron-manganese system; copper/iron ratio; copper-iron-sulfur system; hard-grounds; magnesium/(magnesium + iron + manganese) ratio; magnesium + iron; silicon + aluminum + magnesium + iron system; silicon + iron + manganese system; sulfur/iron ratio; titanium/(aluminum + iron + titanium) ratio; titanium/(titanium + iron + manganese) ratio; zinc/iron ratio
- iron, banded
 - microfolded formations, 119A12:453
 - provenance, 119B7:139
 - Prydz Bay, 119B7:138
- iron, dissolved
 - microbial activity, 201A1:14–16
 - pore water, 201A1:33, 37, 41, 45; 6:15–16; 7:14–15; 8:15; 9:12; 10:14; 11:16; 12:13
 - vs. depth, 201A1:71; 6:43; 7:46; 8:35; 9:37; 10:40; 11:50; 12:32; 201B7:16; 17:13–14
- iron, ferric
 - amphiboles, 129B17:313–314
 - green clay, 184B15:4–5, 20–21
- iron, ferric/ferrous iron ratio
 - basalts, 135B36:607–609; 142B3:25
 - sediments, 172B(overview):3
 - vs. loss on ignition, 136B11:141
- iron, ferrous, Argo Abyssal Plain-Exmouth Plateau, 123B12:233–234
- iron, hydrothermal
 - mass accumulation rates, 138B37:774–777
 - vs. age, 138A(2)13:716
 - vs. depth, 138A(2)13:715; 15:861
- iron, labile
 - pore water, 150X_B24:322–324, 329–330
 - vs. depth, 150X_B24:330
- iron, reactive, sediments, 207B9:5–7
- iron, sedimentary, species, 207B9:5
- iron, total
 - distribution, 172B2:11
 - magnesium oxide-aluminum oxide-iron oxide diagram, 200A1:64; 3:106
 - vs. depth, 156B1:24
 - vs. kaolinite, 156B1:30
 - vs. silicon in chlorite, 147B15:307
 - vs. sodium oxide, 152B27:321–322
 - vs. total iron/(total iron + magnesium) ratio, 152B10:142
 - vs. total magnesium, 168B12:157
- iron, total/aluminum oxide ratio
 - vs. depth, 156B1:25
 - vs. kaolinite, 156B1:30
- iron, total/(total iron + magnesium) ratio
 - vs. silicon, 152B10:142
 - vs. total iron, 152B10:142
- iron + aluminum, vs. iron + silicon, 195B8:18
- iron/aluminum ratio
 - epidote, 125B25:425
 - geochemistry, 138A(2)15:838
 - lawsonite, 125B25:417
 - Neogene, 115B38:701
 - partitioning, 125B25:421
 - sediment alteration, 185A4:31
 - sediments, 206A3:43
 - sources, 138A(2)13:700–701

- vs. depth, 138A(2)13:715; 15:861; 157B31:554;
32:567; 160B16:200; 17:210, 212; 171B_B4:11;
177B1:7; 185A1:55; 4:16, 120
- vs. titanium/aluminum ratio, 152B25:297
- iron/calcium ratio logs, vs. depth, 144A10:390–391
- iron carbonates
- calcite, 168B10:126
 - carbonates, 146B(1)6:126–127; 168B11:139–142
 - diagenesis, 150X_B3:30, 36
 - reactive iron, 207B9:5–7
- iron cement. *See* cements, iron
- iron/cesium ratio
- Cretaceous/Tertiary boundary, 121B19:417–420
 - vs. iridium, 121B19:421
- iron/(chromium + aluminum + iron) ratio
- vs. magnesium/(magnesium + iron) ratio, 139B6:90
 - vs. titanium oxide, 147B7:152; 27:454
- iron-chromium-aluminum system, 163X_A8:22
- iron crusts
- lithology, 155A13:386–387; 14:412; 15:442; 16:466;
17:507; 18:541; 19:572, 594; 21:637; 22:661
 - magnetic properties, 155B13:245–249
 - photograph, 155A6:96
 - See also* diagenetic crusts
- iron enrichment. *See* differentiation
- iron hydroxides
- alteration, 129B23:417–418; 135A(1)10:517; 11:596–
597
 - oxidation, 160B20:254–255
 - partial reduction and dissolution, 129B32:587
 - serpentinized peridotite, 173A7:192–193
 - See also* ferroxhyte; iron oxyhydroxides
- iron index logs, vs. depth, 157A4:90
- iron indicator ratio, 114A7:298; 114B34:651–653;
155A7:160; 166A6:103
- iron ions, enrichment cultures, 187B6:25–26
- iron isotopes
- lithology, 185B1:12–13
 - mid-Cretaceous organic-rich intervals, 207B1:9; 10:1–
14
 - oceanic crust age, 185B1:14–15
 - vs. depth, 185B1:27; 207B10:12
- iron/(iron + aluminum) ratio, 148B34:425
- iron/(iron + magnesium) ratio
- amphiboles, 148B34:426
 - chromium and titanium vs. magnesium/(magnesium
+ iron) ratio, 127/128B(2)53:867
 - tuffs, 129B4:128
 - vs. anorthite, 147B2:53
 - vs. calcium/(calcium + sodium) ratio, 147B6:120
 - vs. calcium oxide, 195A1:44; 3:20, 103
 - vs. chromium/(chromium + aluminum) ratio,
134B16:347; 139B6:90; 147B7:151, 454
 - vs. depth, 148B10:136
 - vs. iron/(chromium + aluminum + iron) ratio,
139B6:90
 - vs. loss on ignition, 148B10:139
 - vs. oxides in basalts, 144B28:481, 484
 - vs. silicon, 148B6:80
 - vs. titanium oxide, 144B29:510, 517, 528; 147B7:151;
148B10:138
- vs. Tschermak substitutions, 147B14:274
- iron logs
- basalts, 144A9:320
 - lithology, 185A4:46
 - Site 794, 127/128B(2)89:1416, 1420–1421
 - Site 796, 127/128B(2)89:1416, 1423
 - Site 797, 127/128B(2)89:1426–1427
 - Site 798, 127/128B(2)88:1401–1402
 - Site 799, 127/128B(2)88:1404, 1408–1409
 - vs. depth, 137/140B26:309; 143A9:356; 144A3:95;
5:197; 6:247; 10:390–391; 148A3:173;
155A7:160; 12:364; 165B11:196–197;
166A6:104; 185A4:140–141
 - vs. silicon logs, 148A3:172
- iron/magnesium ratio
- celadonite, 168B12:151, 154
 - hydrothermal alteration, 209B1:9
 - lithology, 183A1:22; 183B1:11
 - saponite, 168B12:151, 154
 - vs. depth, 139A6:228
- (iron + magnesium)/titanium ratio, vs. magnesium/tita-
nium ratio, 137/140B5:57
- (iron + manganese)/(aluminum + titanium) ratio, Site
765, 123B2:68
- iron-manganese oxides
- clay-rich intervals, 129B32:590
 - lithology, 198A3:14–15; 199A13:9; 14:6
 - Lower Cretaceous, 129B32:598
 - magnetic intensity, 208A5:13
 - metalliferous sediments, 138B37:771, 774
 - photomicrograph, 198A3:72
 - sediments, 205B3:4
 - Site 801, 129B3:92
- iron-manganese oxyhydroxides
- hydrothermal sequences, 145B27:417–419
 - limestone, 192A3:21
- iron/manganese ratio
- bulk sediments, 199B14:4, 15
 - end-members, 121B20:425
 - ferromanganese hardgrounds, 194B8:5–6, 22
 - ferromanganese micronodules, 199B14:4
 - hydrothermal sediments, 121B21:443
 - pore water, 193B4:7
 - Site 752, 121B21:440
- iron-manganese-silica deposits, 193B1:6; 9:7, 27, 29
- iron minerals, reactivity, 160B20:254–255
- iron monosulfides
- formation, 112A12:274
 - lithology, 151A10:322–326; 169A5:209
 - magnetic properties, 112A20:914–915, 920, 930
- iron-nickel-sulfur-oxygen system, 209A3:97
- iron number
- chrome spinel, 147B8:165; 159B14:134, 136
 - core-to-rim electron microprobe transects, 147B8:164
 - spinel, 163B11:124–134; 209B4:4
 - vs. depth, 152B34:422; 209B4:19
 - vs. magnesium number, 163B11:127–128
 - vs. titanium oxide, 159B15:137; 209B4:16
 - See also* iron/(chromium + aluminum + iron) ratio
- iron number/magnesium oxide ratio
- amphibolites, 173A6:133

- vs. depth, 173A6:140
- iron oxide/aluminum oxide ratio
- epidote, 176B9:12
- vs. depth, 131B35:440
- vs. silica/aluminum oxide ratio, 170A5:182
- iron oxide/calcium oxide ratio, tephra, 186B9:9
- iron oxide/(iron oxide + magnesium oxide) ratio
- vs. depth, 148B34:424
- vs. oxides, 136B11:143; 141B28:359; 148B11:156; 168B10:133
- iron oxide-magnesium oxide-aluminum oxide diagram, total iron, 200A1:64; 3:106
- iron oxide/magnesium oxide ratio
- Argo Abyssal Plain-Exmouth Plateau, 123B9:194
- Atlantic vs. Pacific lavas, 118B1:13
- basalts, 121B28:526, 574; 129B19:378
- clinopyroxene-coexisting liquid correlation, 118B1:19
- diabases, 180A6:36
- fractionation indexes, 129B19:368–369
- liquids in equilibrium with cumulus olivine, 118B1:13, 19–20
- metadiabase, 180A8:19
- olivines, 187B2:6
- olivines and pyroxenes, 163B9:103
- quartz gabbro, 180A11:6
- tephra, 186B9:10; 205A4:25
- vs. calcium oxide/aluminum oxide ratio, 135B38:643
- vs. depth, 143B15:249; 200B1:26; 2:13
- vs. magnesium oxide, 200B2:10
- vs. major elements, 180A12:95; 200B2:16
- vs. nickel and chromium, 121B29:567–568, 571
- vs. niobium/zirconium ratio, 200B2:16
- vs. rubidium/strontium ratio, 200B2:16
- vs. silica, 121A10:279; 12:400; 125B9:162; 15:286; 134B19:387; 21:409; 135B6:97; 141B27:344; 145B23:370; 44:664
- vs. sodium oxide, 153B10:218
- vs. titanium oxide, 135B38:643; 141B4:53; 191A4:32, 106
- vs. trace elements, 200B2:16
- vs. zirconium/yttrium ratio, 200B2:16
- iron oxide/magnesium oxide ratio (mineral), vs. iron oxide/magnesium oxide ratio (liquid), 152B30:365
- iron oxide ratio
- alteration, 168B10:121–122
- vs. distance from ridge axis, 168B10:122
- iron oxide/silica ratio, volcanic ash, 125B15:287
- iron oxide-titanium oxide-iron oxide diagram, 200B3:22
- iron oxide/titanium oxide ratio
- gabbros, 176B12:3
- tephra, 186B9:9
- vs. silica in titanomagnetite, 141B4:55
- iron oxide veins. *See* veins, iron oxide
- iron oxides
- AFM diagram, 153B10:210
- Albian–Turonian sedimentology, 210B8:8
- alkalis-iron-magnesium diagram, 205B9:24
- alteration, 123B9:194, 195; 168B10:128; 183A7:153; 183B15:9; 185A1:25–26; 187B1:7–8; 193A3:71; 4:40, 47–48; 200A3:31; 200B2:13; 209A3:36
- amphiboles, 176B9:10
- Atlantis Bank, 118B6:135
- authigenic minerals, 149B31:531–532
- basalts, 121B29:567, 571, 574; 123B42:794; 163X_A8:9–11; 165A6:329; 169A3:95; 5:216; 183A5:35; 185A4:24; 187A3:10; 6:10–11; 7:11; 9:8–10; 10:5–6; 15:11; 195A4:22–23
- basement, 123A4:194; 183A1:35; 6:48; 7:132; 9:27; 196A3:31; 206B8:2–3
- biogenic sediments, 201B14:9
- biotite, 176B9:11
- black shale, 210B8:16
- botryoidal cement, 133B36:531
- breccia clasts, 173A7:194, 196
- brucite, 125B17:317
- calibration by inductively coupled plasma–atomic emission spectroscopy, 199A7:10
- carbonates, 168B11:144
- chemical composition, 148B11:163; 155B7:167
- chlorites, 176B9:11
- clasts, 180A12:26
- clays, 144B17:348; 158B20:280–282; 169B6:6, 23; 184B12:10
- Cornaglia Terrace, 107A9:612, 632; 107B14:218
- Cretaceous/Tertiary boundary, 123B8:178–179
- dacite lava, 193B2:8
- deposits, 158A8:145, 156, 158
- diabases, 168A5:123; 180B1:6; 209A7:23
- electron microprobe data, 148B14:210; 39:487
- enrichment, 183A6:48–49
- epidote, 176B9:12
- experimental liquids, 152B30:366
- ferrous/ferric iron ratio, 107B8:128
- formation, 107B38:648
- gabbros, 153A4:133–134; 153B6:108–109; 28:495; 176B6:16–17; 8:4–14; 11:3; 179A2:5; 4:45–47; 179B(synthesis):13; 2:12–21; 180A11:6; 205A4:34; 209A6:30–31; 10:24
- Galicia margin W, 103A8:130
- garnets, 183B16:2
- geochemical logs, 118B15:276, 278; 137/140B30:345–346; 154A5:217
- geochemistry, 138A(2)15:838; 138B36:760; 158B4:52; 180A1:23
- harzburgites, 153A3:74
- histogram of whole-rock distribution, 179B(synthesis):69
- hydrothermal fields, 158A1:7
- igneous rocks, 123A5:325; 123B42:794; 209A5:35; 10:25–26
- igneous units, 163X_A4:13; 5:5; 6:22; 7:5
- ignited sediments, 138A(2)15:846–847
- ilmenite, 176B9:13
- Labrador Sea, 105B8:104
- limestone, 143B13:210
- lithology, 107A9:610; 145A8:342; 154A4:60; 6:235–236; 7:283; 8:341; 155A10:248–249; 163A5:52; 172A4:91; 174A_A4:113–115; 5:163; 183A1:31–32; 4:19; 7:39; 191A4:13; 197A3:9; 199A10:6; 13:6–10; 15:4–6; 201A6:9; 12:8–10; 202A7:9; 206A1:23; 208A3:8; 8:8–9; 210A3:33, 38

- mafic and ultramafic rocks, 153B10:187–189, 198
 magnetic intensity, 208A5:13
 melting regime, 187B1:14–15
 metabasaltic clasts, 158B17:217
 metadiabase, 180A8:18
 micas, 176B9:11; 180A7:12–13
 microbial activity, 205B8:7–8
 middle series magmas, 163B9:105–110
 mineral separates, 158B2:29
 modal data, 135B25:433–455; 155B7:151
 olivines, 187B2:5
 ooze, 170A3:78
 organic matter, 160A4:67
 osmium and rhenium, 158B7:95–100
 percent change from protolith, 137/140B17:203
 peridotites, 209A3:34; 6:28
 petrology, 158A10:184, 190
 photograph, 153A4:137–138, 154; 5:190, 196–197,
 199; 153B8:146; 9:170; 158A8:147–151, 157;
 10:180, 186–187, 195; 171B_A3:57, 104, 115;
 175A15:464; 210A3:194
 photomicrograph, 180A6:125; 8:61; 12:92; 180B3:26;
 193A4:108; 200A3:101; 4:131; 209A5:59
 phyllosilicates, 206B7:2–3
 pillow basalts, 187A4:7; 5:7
 plagioclases, 135B27:492
 profiles across microbially processed glass,
 148B13:200
 ratios, 148B11:170
 reactive iron, 207B9:5–7
 reduction, 155B14:252; 168B10:131–133
 reductive diagenesis, 165A5:252
 Sardinian margin, 107A10:785; 107B1:14; 15:235,
 237; 38:645
 scanning electron microscope data, 129B1:27
 sediments, 151A7:184; 9:287; 10:333–334; 11:368;
 155A8:193; 167B25:284–288; 170A4:140–141;
 5:177–178; 6:206; 172B5:22; 178B4:3; 180B6:9–
 11, 14–24; 184B19:6; 205A4:24
 serpentine sediments, 125B18:334
 serpentinites, 149B30:522–523, 530; 195B4:7
 silicification alteration, 193A3:43–47
 Site 698, 114B22:393
 Site 701, 114A8:377
 Site 747, 120A6:135
 Site 765, 123B2:59, 64, 69
 Site 766, 123A5:322–323
 spectral data, 164B31:319–322
 stratigraphic correlation, 163X_A8:12–13, 34
 sulfides and sediments, 158B3:43; 193B10:3–7
 tektites, 150B13:248–250, 253–258
 tephra layers, 121B14:27; 186B9:9, 16–17; 205A4:25
 titanite, 176B9:14
 titanium hydrogarnet, 206B9:2–6
 total weight in chlorites, 148B6:83
 troctolites, 209A10:23
 veins, 173A6:144–145; 176B9:15; 209A5:92, 97; 6:65
 velocity and percentage, 118B12:247–248, 250
 volcanics, 131B14:178, 180–182; 141B27:338, 342;
 161B27:364–369; 201B19:10–11; 203B2:3–8
 volume percentage in veins, 209A3:92
 vs. across-channel distance, 153B12:272
 vs. age, 184B12:24; 19:19
 vs. aluminum, calcium, and magnesium oxide,
 203B2:21
 vs. aluminum oxide, 121B14:27, 285, 574;
 151A8:243; 157B15:261–262; 161B28:377;
 176B9:32; 180B6:18, 33, 41; 200A1:63; 3:107;
 210B8:30
 vs. anorthite, 176B10:35; 11:68
 vs. calcium oxide, 121B14:27, 285; 157B12:150;
 15:240–245; 180B6:8–9
 vs. depth, 135B7:114; 137/140B7:91; 15:176;
 138A(2)15:857, 861; 18:1032; 19:1071;
 139A5:139, 223, 225; 7:357; 8:515–518;
 139B11:228–250; 147B26:449; 148A2:60; 3:157;
 148B2:14; 6:83; 10:136; 34:422; 39:484;
 149B23:422–423; 27:482; 151A5:86;
 151B19:358; 152B2:24; 153B6:111; 154A4:67;
 157B32:567; 165A4:172; 167B25:285; 169A3:97;
 170A3:83; 4:140; 5:181; 6:210; 176B6:37;
 179A4:123; 179B(synthesis):81; 2:45;
 180A6:131–132; 183A4:59; 6:133; 9:92;
 193A3:223; 4:191, 193; 197A3:52, 99; 4:39, 41;
 5:36; 200B1:26; 2:13; 205A4:114; 206A1:81;
 3:152, 194, 255; 210B8:43
 vs. gabbro magnetic susceptibility, 176B11:20, 23
 vs. iron oxide/magnesium oxide ratio, 121B30:574
 vs. loss on ignition, 136B11:140; 148B10:139;
 149B29:502; 163X_A8:28; 169A3:98
 vs. magnesium/(magnesium + iron) ratio,
 144B28:481, 484
 vs. magnesium number, 139B6:87; 142A4:71;
 148A2:59; 3:151; 153B10:218; 163X_A8:29;
 168A4:71; 5:125, 139
 vs. magnesium oxide, 135B25:442–444; 29:523; 137/
 140B4:45; 142B6:45; 145B22:337, 339;
 148B3:31, 34–35; 151B17:317, 319, 322; 18:344;
 152B5:61; 8:100; 30:371; 153B19:366;
 157B16:282–283, 384; 158B20:283; 162B16:228;
 163B9:102, 106; 163X_A8:30–31, 36; 183A4:57;
 5:118; 6:137; 185A4:109; 186B9:25; 187A3:24;
 4:17; 5:17; 6:36; 7:33; 8:51; 9:21; 10:24; 11:35;
 12:41; 13:41; 14:28; 15:42; 187B2:20; 200B2:10;
 203A3:16–17, 24; 206A1:88; 3:199; 209A3:138;
 5:148; 6:103; 7:93, 97; 9:85; 10:116, 119;
 209B2:6, 8–9
 vs. magnesium oxide/(magnesium oxide + iron oxide)
 ratio, 141B28:359
 vs. magnetic susceptibility, 209A3:141
 vs. major oxides, 148B11:170
 vs. manganese oxide, 148B14:212; 180B6:14, 37;
 210B8:32
 vs. modal oxide abundance, 176A3:21
 vs. potassium and phosphorus oxides and sulfur,
 203B2:20
 vs. potassium oxide in glauconite, 150B20:368
 vs. samarium, 153B17:347
 vs. silica, 134B18:370; 19:384; 135B3:38; 4:59, 64;
 6:97; 141B4:55; 148B11:156; 13:197–199;
 151A5:81; 151B17:324–326, 343; 19:357;
 152B2:23; 5:62; 8:102; 156B28:350; 157A7:362;

- 157B13:192; 18:324; 162B16:228; 165A3:84;
 179B2:50; 193B2:21; 200B3:25; 201B19:27, 29;
 209A3:137
- vs. silica/magnesium oxide ratio, 195B4:21
- vs. sodium oxide, 153B10:184–185, 188
- vs. sulfur, 151B18:346; 152B8:101
- vs. titanium/aluminum ratio, 205B3:9
- vs. titanium oxide, 142A4:69; 148B10:138; 13:197–
 199; 157B15:259–260; 18:320; 176B12:9;
 203B2:18–19, 23; 209A5:155; 10:120
- vs. vanadium, 180B6:38
- vs. water content, 158B19:264
- vs. yttrium, 180B6:14
- vs. zinc, 176A3:49, 170
- vs. zirconium, 157B12:168, 171
- X-ray diffraction data, 129B1:12–15
- X-ray fluorescence data, 138A(2)15:860
- See also* aluminum oxide/(aluminum oxide + iron ox-
 ide) ratio; goethite; greigite; hematite; limonite;
 maghemite; magnesio-ferrite; magnesium/
 (magnesium + iron) ratio; magnetite; manga-
 nese oxide/iron oxide ratio; saponite-celadon-
 ite-iron oxides mixtures; titanomaghemite;
 veins
- iron oxides, fractionation-corrected, 187B1:37
- iron oxides, interstitial, photomicrograph, 209A5:62
- iron oxides, silicified, petrology, 158A9:172
- iron oxides, vs. depth, 146A(1)6:287; 150A10:342–343;
 160A8:285–287; 165B11:195
- iron oxides, whole-rock, vs. titanium oxide, 179B(syn-
 thesis):70
- iron oxyhydroxide veins. *See* veins, iron oxyhydroxide
- iron oxyhydroxides
- alteration, 129B19:367; 168B10:122–123, 134;
 183A4:21; 8:20–22; 183B15:8; 187A1:10; 3:7–8;
 4:3–4; 5:4; 6:5–6; 7:5–8; 8:7–8; 10:4; 11:7–10;
 12:8–9; 13:10–11; 15:8–9; 187B1:7–8; 192A1:19–
 21, 26; 3:30–32; 5:16–17; 7:9; 192B6:4;
 193A3:37; 197A3:24–30; 4:21–23; 5:15; 6:16;
 203A3:15–17; 206A3:66, 71; 209A5:12; 8:2–3
- Aptian, 192A3:13–14
- Atlantis Bank, 118A5:125
- basalts, 142A4:59; 192A5:12–13; 197A3:20;
 200A4:28–30; 200B2:14
- basement secondary mineral geochemistry, 206B8:3
- carbonate veins, 209A9:10–11
- chemical composition, 148B10:124; 11; 165
- deep-sea sediments, 185B7:5
- deposition, 202A8:13–14
- fissure fillings, 192B6:5–6
- geochemistry, 138B36:760; 158B27:366–367
- glassy rims, 168B10:126
- halos, 192A4:19; 6:18–19
- hydrothermal circulation, 169A1:10
- hydrothermal fields, 158A1:7; 158B1:7–11, 14;
 18:236–239; 27:368–369; 193A1:5–7
- igneous provinces, 192B1:6
- interpillow material, 185A3:24–25, 116
- lava flows, 197A6:12–13
- lithology, 155A18:541; 183A1:28; 187A3:5–6; 6:4–5;
 9:4–5; 11:4–7; 15:3–7; 192A1:12; 3:10–11;
 197A4:6–9
- macroscopic description, 192A7:7
- massive sulfides, 139B18:377
- petrography, 143A6:141; 187A8:3–6
- photograph, 158A8:157; 158B18:246; 173A7:170;
 185A3:113; 187A1:35, 40; 4:13; 8:39; 10:13;
 11:30; 15:37; 192A3:63; 5:47–48; 7:26–28;
 200A4:98, 102; 206A3:224, 231–232, 237, 244;
 209A5:95; 9:64; 10:90
- photomicrograph, 185A3:117–118; 187A1:37, 39; 4:9;
 6:31; 7:18, 25–26; 8:29, 35–36; 10:10–11, 15;
 11:15, 25; 12:18; 13:25, 35; 14:13; 15:35–36;
 192A3:68; 5:77, 79–81; 6:54, 60, 79; 195A4:103;
 197A4:49, 66; 5:54; 206A3:205, 218, 225–226,
 230, 246–247, 280, 309; 209A5:89; 10:95
- pillow basalts, 187A4:3; 5:3
- reddish brown zone, 168B10:130
- reduction, 168B10:131–133
- replacement, 206B7:3
- secondary minerals, 148B11:153; 12:172–173; 35:444;
 168B12:150–151
- sedimentation, 192A6:9–10
- Site 765, 123B9:193, 196
- Site 800, 129B1:7
- Site 801, 129B1:7
- tectonic breccia, 173A6:132
- turbidites, 135B10:154–161; 52:832
- Tyrrhenian Sea, 107B10:152
- veins, 163A3:28; 192A5:17; 6:19; 200A4:39; 206A3:72
- vesicles, 185A4:24
- vs. depth, 154A4:67; 185A3:111–112; 192A3:122;
 197A3:101–102; 5:73
- woody fabric, 129B32:591
- See also* iron hydroxides
- iron oxyhydroxides-clay mineral mixtures, 168B10:122–
 123
- iron-potassium-magnesium plot, clays, 168B10:134
- iron ratio
- amphiboles, 176B4:20
- vs. forsterite, 157B22:382
- vs. magnesium number, 176B4:42
- vs. silicon, 176B4:20, 42
- iron/samarium ratio, vs. composite depth, 145B27:423–
 424
- iron + silicon, vs. iron + aluminum, 195B8:18
- iron/(silicon + calcium) ratio, vs. depth, 165A3:93, 104;
 4:193
- iron/silicon ratio, vs. depth, 144A5:197
- iron/silicon ratio, vs. loss on ignition, 153A4:148
- iron spinel. *See* hercynite
- iron staining
- lithology, 187A13:6
- photomicrograph, 187A7:24; 9:19; 11:25; 14:13;
 187B5:20
- iron sulfates, amorphous, 139B18:376
- iron sulfides
- accretionary prisms, 141B2:15
- authigenesis, 162A8:270; 172A6:286–288
- crystallinity, 144B51:910

- diagenesis, 112A20:884–885; 155B14:252; 22:672;
 30:498–501
- formation limiting factors, 112B26:447; 117B31:517,
 519; 141B29:367
- green clay, 184B15:4–7
- hydrothermal fields, 158A1:8; 158B1:9
- imbalance between sulfide production and iron addi-
 tion, 160B20:256–257
- lithology, 151A7:166, 171; 155A4:80–81; 172A3:38–
 40; 175A4:91; 5:119; 184A9:6–7; 204A7:3–6;
 9:5; 11:3–5; 207A4:5
- magnetic properties, 127/128B(2)60:947;
 141A10:367–369; 155B13:245–249; 164A6:119–
 120; 208A5:13
- nodules, 155B13:245–249
- photograph, 172A4:89
- pore water, 204A5:8
- purple color bands, 130B27:458
- reactive iron, 207B9:5–7
- reduction, 162A3:79
- rock magnetism, 139B31:535–542; 204B18:1–33
- scanning electron backscattered images, 187B7:20
- sediments, 141B11:159; 151A9:281–282; 155B37:573
 Site 685, 112A17:605–606
 Site 701, 114A8:377
- sulfate reduction, 146B(1)26:387
- textures, 141B8:107–108; 174A_B3:4, 9
- vs. depth, 184A7:45; 8:15; 9:52
See also copper-iron sulfides; exsolution; greigite; nod-
 ules; pyrite; troilite; troilite-pyrrhotite
- iron sulfides, authigenic
 photograph, 141B8:114
 seismic reflectors, 175A16:500
- iron sulfides, dispersed, vs. depth, 184A5:41
- iron-titanium oxides
 Atlantis Bank, 118A4:99
 backscattered electron photomicrograph, 178B22:16
 basalts, 115B10:104–105; 143B16:267–268
 basement rock, 115A10:756
 clastic mineral phases, 157B15:237
 clinopyroxenes, 176B4:10
 cumulates, 179A4:42
 deformation, 118A4:105; 209A5:26
 electron microprobe data, 143B15:256
 gabbros, 176B3:3–5; 6:4; 8:3–14; 179A4:30–42;
 179B(synthesis):8
 geochemistry, 176B8:50–51
 inclusions, 157B22:379
 lithology, 179A4:31; 179B(synthesis):27–28
 magnetic properties, 120B(2)15:238; 187B1:9–10
 mineral chemistry, 152B33:411–412, 416; 179B2:11–
 12, 14–21
 mobility during metamorphism, 118A6:127
 modal composition, 176A3:18
 modal layering, 179A4:36–37
 mylonites, 209A3:12
 Ninetyeast Ridge, 121B28:534
 olivine gabbros, 176B4:6–7; 179A2:4–6
 petrography, 179A4:38–41; 179B2:6–9
 photograph, 179A1:18; 4:102, 131
- photomicrograph, 163X_A4:20; 5:10; 6:39; 7:11;
 179A4:114, 118, 120; 179B2:27, 33; 187A8:28;
 12:17; 15:25; 206B5:17, 19, 21
- scanning electron microscopy, 157B13:194;
 187B7:20–21
- secondary minerals, 118B5:107
- silicate phases, 118A5:126–128
 Site 747, 120B(1)6:81–82
 Site 748, 120A7:222
- volcanic ash, 145B23:349, 381
- volcaniclastics, 157B13:189
See also ilmenite; spinels
- iron/titanium ratio
 igneous rocks, 209A10:26
 pore water, 165B19:288
 sediments, 189B12:3
 vs. aluminum/(aluminum + iron + manganese) ratio,
 139B12:295; 199B14:18
 vs. depth, 177B1:7; 189B12:6; 206B3:16
- iron-vernadite
 Site 680, 112B26:442
 Site 685, 112A20:884; 112B2:21
 Site 688, 112A20:876–877, 887, 928; 112B26:442
See also vernadite, iron
- iron yield logs
 vs. depth, 138A(1)11:316; (2)13:724; 15:872; 17:1012;
 141A10:420
 vs. neutron porosity, 138A(2)17:1015
- irradiance percentage, vs. water depth, 202B12:36
- irregular contacts, petrology, 179A4:34–35
- ISDDM. *See* magnetic field
- Isea polarity zone, magnetostratigraphy, 171B_A3:71
- island arc-basin systems, tectonic evolution, 125A1:5
- island arc-ridge collisions, 134B24:439–442
- island arc rifting. *See* rifting, island arc
- island arc slopes
 accretionary wedges, 134B1:8–11
 lithology, 134A2:29–30
- island arc tholeiite (IAT). *See* tholeiites, island arc
- island arc volcanism. *See* volcanism, island arc
- island arcs
 Cagayan Ridge, 124A12:300–301
 collisions, 134B4:59–69
 dating, 180B2:11–13
 evolution, 134A1:5–17; 134B2:19–46; 135B28:514–
 516; 51:824
 geology, 135A(1)1:38–40
 igneous rocks, 135B38:625–646
 magmas and subduction, 145B24:386
 Nankai Trough, 131A7:273–274
 Neogene, 180A3:4–5
 origin, 134B35:610
 Pacific Ocean W, 124A3:41
 platforms, 134B2:23
 Quaternary evolution, 134A3:33
 rifting, 135B3:23–49
 rotation, 135B47:763–783
 sedimentation, 135B53:843–855
 seismic reflection, 135B56:917
 subduction, 135B12:173–188
 tholeiites, 124A11:265; 134B9:155–156

- See also* proto-remnant arc
- island arcs, frontal, uplifts, 134A3:39–41
- island arcs, intra-oceanic
 formation, 125B1:3
 geochemistry, 134B19:387–399
 petrology, 134B18:363–373
- island chains, comparison, 144B33:567
- islands
 drilling, 157A2:11–25
 Indian Ocean, 120B(2)62:1079
 Kerguelen Plateau, 120B(2)51:952; 53:958
 origin, 144B53:936–937
 volcanic aprons, 157B27:463
See also ocean islands; volcanic islands
- islands, submarine, seismic structure, 157B2:20–21
- iso*-alkanes, sediments, 160A12:438; 164A7:197
- iso*-butane
 concentration, 162A8:276
 core void gas, 204A4:112–113; 5:58; 6:46, 74; 7:68;
 8:53, 86; 9:51, 84–85; 10:61, 102–103; 11:57
 gas hydrates, 164B3:30–35; 4:40–45; 204A4:114; 5:59;
 6:75; 7:69; 8:97; 9:86
 gases, 131A6:143
 geochemistry, 133A(1)15:639
 headspace gases, 167A(1)6:150; 16:481; 202A10:88
 pressure cores, 204A4:115; 6:76; 8:88–89; 9:87;
 10:104–105
 sediments, 160A12:438; 162A9:307, 311; 164A8:263;
 9:296; 166A7:160; 8:187; 9:250; 10:311;
 172A4:116, 118; 5:209; 6:272–277; 178A5:17;
 189A5:156–157; 190A9:20–21
 Site 798, 128A4:125, 176, 187
 Site 799, 128A5:244–245, 322
 Sulu Sea, 124A11:247
 volcanism, 124B34:464
 vs. depth, 146A(1)7:337–338; 151A7:188; 12:392;
 162A9:310; 166A10:312; 204A4:70; 7:42–43;
 10:61
See also n-butanes
- iso*-butane, Vacutainer, vs. depth, 172A5:218
- iso*-butane/*n*-butane ratio, vs. depth, 164A9:300
- iso*-butylene, sediments, 180B18:4–14
- iso*-butylene + 1-butene, vs. depth, 180B18:11
- iso*-heptane, gas hydrates, 164B3:30–35
- iso*-hexane
 concentration, 162A8:276
 core void gas, 204A6:46, 74; 7:68; 9:84–85
 gas hydrates, 164B3:30–35; 204A9:86
 headspace gases, 167A(1)16:481
 pressure cores, 204A9:87; 10:104–105
 sediments, 162A9:307, 311; 189A5:156–157
 vs. depth, 162A9:310
- iso*-loliolide
 sapropels, 160B23:287
 sediments, 175B10:10
- iso*-pentane
 concentration, 162A8:276
 core void gas, 204A5:58; 6:74; 7:68; 8:53, 86; 9:51,
 84–85
 gas hydrates, 164B3:30–35; 204A8:97
 geochemistry, 133A(1)15:639
 headspace gases, 131A6:143–144; 167A(1)6:150;
 16:481; 202A10:88
 pressure cores, 204A6:76; 8:88–89; 9:87
 sediments, 146B(1)8:154–155; 162A9:307, 311;
 164A8:263; 166A7:160; 8:187; 9:250; 11:360;
 172A6:272–277; 178A5:17; 180B18:4–14;
 189A5:156–157; 190A9:20–21
 Site 799, 128A5:321–322
 vs. depth, 146A(1)7:337–338; 151A7:188; 12:392;
 162A9:310
See also n-pentanes
- iso*-pentane/*n*-pentane ratio, vs. depth, 164A9:300
- Isochelae
 Site 748, 120B(2)43:837
 Site 795, 127/128B(1)30:543
- isochron maps, Neogene, 150B14:273, 275–278
- isochrons
 age, 152B32:390; 161B22:304; 27:364; 30:392;
 183B9:40
 basalts, 129B20:392; 130B1:5; 145B22:336;
 151B19:363
 biotite, 161B12:150
 igneous complex, 205B1:41; 9:20
 lithofacies, 161B5:72
 magnetic anomalies, 205A1:45; 205B7:24; 206A1:47;
 3:109
 mantle domains, 187A1:45
 plagioclase, 163B6:58
 samarium-neodymium and rubidium-strontium plot,
 129B21:408
 Site 794, 127/128B(2)50:828–832
 Site 795, 127/128B(2)50:832–833
 Site 797, 127/128B(2)50:828–829
- isochroneity
 Cenozoic, 145B37:570, 573
 diatoms, 145B7:134–135
- isocron plots, alteration, 187B1:28; 5:22
- isocubanite
 abundance, 106/109B13:173
 clastic sulfides, 169A3:59–61
 composition, 106/109B13:164–165
 electron microprobe data, 106/109B13:168–169
 hydrothermal circulation, 169A1:11
 massive sulfides, 169A3:66; 6:269–270; 169B5:5–6
 photograph, 169A3:73–75, 88
 photomicrograph, 169A3:68, 79, 86; 169B5:16
 precipitation, 106/109B13:172
 shape, 106/109B13:175–177
 sills, 139B6:94
 textures, 106/109B13:172
 veins, 169A3:75–76; 169B9:4–9, 16
 vs. depth, 169B5:15
 X-ray diffraction data, 106/109B13:169
 zoning, 139B17:356
- Isoetales, sporomorphs, 183B3:7
- isolates
 characteristics, 201B3:18
 phylogeny, 201B3:13
Shewanella, 201B3:6
- isoleucine. *See* D-allisoleucine/L-isoleucene ratio
- isomerization, sediments, 175B10:11

- isomers
precursors, 175B5:5
See also indenopyrene; isomerization
- ISONIC
data processing, 196A3:15, 44
velocity, 196A1:13–14
- isopach maps
acoustic units, 210A1:55
carbonate thickness, 144A5:153
lithology, 152B3:30–36
Oligocene, 150X_B15:204
postsurface sediments, 188A1:38; 188B1:34
Prydz Channel Trough Mouth Fan, 188B14:18, 27–29
seismic data, 133B24:337–338; 157B28:478–479, 484, 491–494; 204B2:26
synrift sediments, 180A2:18
thickness, 188B14:5, 27–29
U-basement, 210A1:52
- isoprenoid/alkane ratio, bitumens, 169A3:120
- isoprenoids
biomarkers, 207A10:5–6
chromatograms, 208A3:22–23; 5:16; 6:25; 7:23–24; 8:24–25
sapropels, 160B21:264
sediments, 141A6:113; 141B22:288–290; 164B5:48–51; 167B12:186; 169A5:223; 175B5:4–5
Site 799, 127/128B(1)35:628–629
turbidites, 157B35:593–594, 597–604
vs. depth, 167B12:189
Weddell Basin, 113B16:201, 206
See also alkanes, isoprenoid; phytone
- isoprenoids, acyclic
biomarkers, 198A9:105
sediments, 135B41:672–673
- isoprenoids, aryl, sapropels, 160B23:288
- isoprenoids, highly branched, sediments, 175B5:4
- isorenieratane
biomarkers, 207A10:7
mass spectra, 160B23:287, 291
sapropels, 160B23:287–290
See also di-unsaturated cyclized isorenieratene derivative
- isorenieratene
gas chromatograms, 160B23:287, 289–290, 292
See also di-unsaturated cyclized isorenieratene derivative
- isostasy
density, 143B28:423–429
rifting, 173A1:7
sedimentation, 160B43:563–564; 51:691
seismic stratigraphy, 194A1:47–49
uplifts, 160B51:691
See also Airy isostasy; eustasy; glacioeustasy; sea level changes
- Isothecium stoloniferum*, scanning electron microscopy, 169S_A2:61
- isothermal decompression analysis, 164B42:437–438
- isothermal remanent magnetization. *See* remanent magnetization, isothermal
- isotherms
Pleistocene, 177B(synthesis):10–12
- silica transitions, 127/128B(1)3:53
- isotope equilibrium, geochemistry, 158B6:88–89
- isotope events. *See* marine oxygen isotope events
- isotope excursions
alteration, 186B14:10–11
Paleocene, 174AX_A1:42
- isotope fractionation, reduction, 201B6:1–21
- isotope ratios
basalt flows, 142B2:11–12
lava, 142B1:7
- isotope stages. *See* marine isotope stages
- isotope stratigraphy
age models, 205B4:4–5
Bass River Site, 174AX_A1:41–42
biostratigraphy, 134B13:298, 301; 160B12:159; 13:167–180; 167B21:251–254
carbon isotopes, 143B6:99–104; 164B7:77
carbonate mineralogy, 166B6:73–74; 16:174–175
Cenozoic, 152B17:233–241
correlation, 155B39:596–597, 606; 162B4:51–62
Cretaceous, 160B30:384
Cretaceous–Cenozoic interval, 189B10:6–7
Cretaceous–Paleogene interval, 144B49:873–885
oxygen isotopes, 164B18:173–175
Quaternary, 152B18:243–248; 155B16:281–303
Site 798, 127/128B(1)26:442–443, 468
strontium isotopes, 143B5:89–97
upper Pleistocene, 182B15:1–13
- isotopes
Albian–Maastrichtian interval, 198A1:97
apparentage, 169B4:1–15
aragonite, 166B3:27–29
basalts, 129B21:405–413; 135B26:471–485; 29:519–531; 55:894–895; 163B8:77–93; 10:113–117; 191B3:1–11; 192B1:5
cements, 159B8:73–76
correlation, 152B15:210–211
dating, 134B3:47–48
diabases, 153B19:365, 367–370, 372, 376
extensional tectonics, 161B44:575–576
foraminifers, 133B11:130–160
gabbros, 147B12:227–234; 149B27:474–475, 484–485; 153B6:99–121; 18:351–362; 27:471–490
gas hydrates, 164A1:8; 164B4:41, 44–45; 204A1:10; 204B13:3–4
geological and geochemical constraints, 204B13:1–20
hotspots, 197A1:19–20
hydrothermal alteration, 148B10:119–150; 176B1:1–24
hydrothermal deposits, 129B22:415–427
igneous rocks, 129B35:653–669
lava, 129B18:349; 130B1:11–20
mantle heterogeneity, 153B15:305–319
noble gases, 164B16:169
offsets in benthic foraminifers, 138B17:373; 43:841
Pigafetta Basin, 129B3:85
polyphase alteration, 147B13:235–254
pore water, 141B26:321–329; 144B43:738; 58:997–999; 168B9:105–115; 186B14:6–7; 195B9:1–14; 204B13:1–20; 15:6
reference samples, 137/140B32:353, 355

- sapropels, 161B31:401–411
sediments, 129B14:271; 159A1:14
stratigraphy, 154B30:451–461
tuff, 129B4:128
veins, 176B1:14
volcanic rocks, 135B38:629, 635; 152B29:351–357
vs. age, 138B1:17–18
vs. depth, 164B9:89
websterite, 153B16:325
See also argon isotopes; beryllium isotopes; carbon isotopes; chlorine-37; chlorine isotopes; helium isotopes; lead isotopes; lithium isotopes; neodymium isotopes; nitrogen isotopes; osmium isotopes; oxygen-18/oxygen-16; oxygen isotopes; Rayleigh fractionation; stable isotopes; strontium-87/strontium-86 ratio; strontium isotopes; sulfur isotopes; tritium
- isotopes, radiogenic
abundance and preservation, 127A4:101–102; 5:198–199; 6:274, 303–305; 7:356–357; 127/128B(2)77:1220; 128A1:28
basement rocks, 127/128B(2)49:805–817
climate fluctuation, 127A6:274; 7:356
cycladophorid occurrence, 127/128B(1)16:299
dilution by detrital components, 127A5:198
dissolution, 127A5:198–199; 127/128B(1)16:295–297; 20:353
high- vs. low-temperature alteration, 118B6:138
Leg 127, 127A1:19–20
Leg 128, 128A1:28
opal dissolution transition zone, 127/128B(1)20:345–347
Pliocene/Pleistocene boundary, 127A7:355
pore water, 127/128B(1)36:635–650
preservation, 127/128B(1)16:292–296; (2)77:1220
productivity, 127/128B(1)16:296, 299
pyritized rocks, 127A5:198
refractive index, 127/128B(1)16:296
reworking, 127A5:198–199; 6:274; 127/128B(1)16:296
Site 794, 127A4:101–102; 127/128B(1)16:293; 77:1221; 128A3:99
Site 795, 127A5:198–199; 127/128B(1)16:294
Site 796, 127A6:274
Site 797, 127A7:356–357; 127/128B(1)16:295–296
Site 798, 127/128B(1)13:225, 227, 229–230; 128A4:161–162
Site 799, 127/128B(1)13:225–226, 233–234; 128A5:303–305
species diversity, 127A4:101–102; 128A4:162
water temperature, 128A4:162
zonation, 127A1:20; 4:101–102; 5:198–199; 6:274; 7:356–357; 127/128B(2)77:1220, 1225–1226; 128A4:161–162; 5:303–305
- isotopic boundary
configuration, 187A1:21
geology, 187A1:3–4
location, 187B1:4–5
maps, 187A1:19
migration, 187B1:3–4
- isotopic fractionation factor
deuterium, 204B13:6
oxygen isotopes, 204B13:7
- isotopic signatures
mantle domains, 187B1:10–14; 2:8–9
See also transitional MORB mantle isotopic signatures
ISR. *See* sedimentation rates, instantaneous
IZANAGI acoustic side-scan sonar, 131B27:332–341
- J**
- jacobsite, magnetic intensity, 208A5:13
jadeite, clinopyroxene, 103B17:255
Jamaica excursion, sediments, 190A7:11
Janjukian, upper, biostratigraphic datums, 182B3:17
Jaramillo/Brunhes boundary, 114B30:580, 582–583
Jaramillo Subchron
Antarctic regions, 114B5:98
Atlantic Ocean E tropical, 108A9:628
Baffin Bay, 105A4:111, 144
biostratigraphy, 128A4:159, 162; 133B11:138; 175A12:354; 181A3:11; 182A9:13
chronostratigraphy, 167B7:130; 177A5:18
core orientation data, 135A(1)8:363
correlation, 132B2:29; 4:51–55; 133B49:729; 151A6:129
geomagnetic polarity transition, 121B17:377
glaciation, 151B3:55
looping behavior, 121B17:384–385
magnetic polarity, 131A6:156; 135A(1)4:117, 119; 5:208–209; 7:311; 9:423–424; 11:615–619, 641; 172A5:266; 177A9:11; 180A6:51, 158; 181A7:28; 9:17; 182A1:20; 199A8:11
magnetic properties, 121B17:379; 127/128B(2)61:962; 128A4:172; 182A10:51; 189A5:37
magnetostratigraphy, 104A4:166; 104B40:845; 130B32:548–549, 551; 134B26:469–471; 135B54:860–861; 138B38:781, 785–788, 791–795; 145A3:51; 145B4:64–66; 152A11:221; 152B22:268; 160B5:64, 72; 162A3:70–71, 73; 4:112; 5:151, 154–156; 6:189; 10:358; 162B8:113–114; 10:151; 166A7:159; 10:310; 167A(1)6:141; 7:165; 8:187; 14:400; 15:442; 167B28:311–318; 172A3:46–47; 4:99–100, 115; 5:186–188; 7:316–317; 173B11:9–13; 174A_A3:65, 68; 4:120; 175A3:70; 5:127; 8:211; 9:252–253; 11:322; 178A4:18; 5:16; 8:11; 178B36:7–8; 37:8, 10, 13–14; 180A1:4; 9:37; 181A6:22; 8:25; 182A5:17; 7:18; 8:20; 9:15–16; 10:22; 188A3:42–43; 5:22; 188B13:8; 191A1:16–17; 208A3:18
MARK (Kane Fracture Zone) area, 106/109A2:18
Meteor Rise, 114B21:382
Oman margin, 117A12:396; 13:428; 14:454; 16:507; 117B5:131; 7:167, 172, 175
Owen Ridge, 117A9:218; 19:603; 117B7:162, 165
oxygen isotope stratigraphy, 121B15:306
paleomagnetism, 104A6:637; 104B5:485; 133A(1)5:153; 6:187; 7:214; 15:629–631
remanent magnetization, 160A4:63, 78; 5:104; 6:136; 10:356; 13:458; 14:481; 189A6:41; 7:37
sedimentation rates, 127/128B(2)61:959–960; 151A13:418; 182A7:16; 10:20

- sediments, 151B26:446–447; 157A4:75–76; 5:121;
 6:153; 164A6:119; 7:189; 8:258; 9:292;
 177A1:13; 4:14; 182A1:13, 26, 34; 184A1:23;
 6:10; 7:13; 8:6; 9:15; 190A6:13; 194A3:12; 8:15;
 198A3:25; 202A7:16; 8:21; 11:14; 12:14
- Site 744, 119B46:820
 Site 745, 119B43:752
 Site 765, 123A4:126; 123B38:723
 Site 782, 125B32:548
 Site 784, 125B32:551
 Site 795, 127/128B(2)77:1223
 Site 797, 127A7:359; 127/128B(2)62:973; 77:1223
 Site 798, 127/128B(1)10:164; 32:564; (2)62:973;
 77:1224; 128A1:30; 4:125, 168
 Site 799, 127/128B(2)62:974; 77:1224; 128A5:314
 Site 805, 130A7:248
 Site 807, 130A9:409
 Site 842, 136A4:43–44
 Site 851, 138A(2)16:912–916, 924–925, 927
 Site 852, 138A(2)17:990–993
 Site 853, 138A(2)18:1038–1041
 Site 854, 138A(2)19:1075–1077
 Site 889, 146A(1)5:163
 stratigraphy, 151A10:331
 timescales, 138B6:87
 traces, 135B51:821, 823–825
 volcanoclastics, 157A7:349
 water masses, 164B34:358–360
See also Matuyama/Jaramillo boundary
- jasperoids
 petrography and geochemistry, 193B9:1–30
 photograph, 193B9:10–11, 17
 photomicrograph, 193B9:12–16, 18–25
- JDTCM. *See* magnetometers, Japanese downhole three-
 component
- JOIDES Resolution
 deepwater dynamic-positioning, 124E_A1:5
 site survey, 207A3:2–3
- jointing. *See* columnar jointing
- joints
 basalts, 206A3:78
 basement units, 183A6:45; 8:13
 breccia, 195A3:55–56
 brittle deformation, 153A3:97–98
 contour plots, 205A4:126
 dip, 135A(1)4:110
 frequency, 186A5:38–39
 gabbros, 153A4:160; 5:206; 7:269; 205A4:125
 igneous rocks, 135A(1)6:260; 7:306; 163A4:36;
 205A4:36
 lava, 163A3:26–27
 number, 186A5:91, 122
 orientation, 135A(1)4:111; 176A3:61–63
 photograph, 180A6:129; 186A4:167; 5:90; 197A4:47
 reorientation, 206B11:14–26
 sedimentary wedges, 170A4:109–113
 sediments, 186A4:61
 Site 794, 127/128B(2)75:1182–1183
 stereographic projection, 135A(1)5:203; 9:419
 structures, 180A5:22–23
 volcanology, 197A3:17
- vs. depth, 153A6:249–250; 186A4:168; 186B16:15, 19
 weathering stains, 209A7:12
See also deformation; faults; fractures
- joints, extensional, diabase, 180B3:4–7
 joints, shear, Site 794, 128A3:92
 JS-1 division, bacteria, 201B2:6
 Juncaceae, Site 720, 117B16:286
- juniper/cedar ratio
 paleoclimatology, 167B20:240–241
 vs. age, 167B20:241
- juniper/cypress ratio, vs. age, 167B20:242
- Jurassic
 basalts, 129B28:501–506
 basement, 185A1:15–19
 biostratigraphy, 129B8:179–187; 10:203–220;
 173A4:77–81; 6:117–120; 8:241–244; 173B7:1–
 24
 crust, 185B1:1–35
 East Mariana Basin, 129B31:551–569
 geochemistry, 129B16:295–302
 geochronology, 129B21:412
 geological setting, 129B32:573
 integrated stratigraphy, 129B37:693
 lithology, 173A4:74–77
 Ocean Drilling Program and Deep Sea Drilling Pro-
 gram sites drilled in the Jurassic, 129B32:572
 magnetostratigraphy, 144B38:641–647
 oceanic crust, 129B19:361–388; 22:415–427;
 144B40:665–671; 60:1007–1019
 ophiolites, 170A1:7
 Pacific Ocean W, 129A3:156–158; 129B31:551–569;
 32:573
 paleogeography, 129B33:621
 paleolatitude, 129B33:615–631
 paleomagnetism, 129B23:431–446; 198B20:13
 palynomorphs, 188B2:6
 Pigafetta Basin, 129B2:39, 57; 3:84; 31:551–569
 quartz-feldspar-lithic fragments system, 210B2:31
 sediments, 129B36:673
 seismic stratigraphy, 185A4:4–6
 Site 800, 129A3:80–81; 129B32:571
 Site 801, 129B32:571, 581
 stratigraphy, 185A1:9–10
 tectonic models, 160B54:766, 769
 unconformities, 173B7:14
See also Bajocian; Bathonian; Bathonian/Callovian
 boundary; Kimmeridgian; Kimmeridgian–Port-
 landian; Tithonian; Triassic–Jurassic interval
- Jurassic, Lower
 palynomorphs, 188B2:6–7
 rifting phases, 210B1:6
See also Hettangian; Sinemurian
- Jurassic, Middle
 basaltic rocks, 129B17:305–343
 biostratigraphy, 129B38:697–707
 lithology, 185A3:7
 oceanic crust, 144A9:316, 318–325
 Pigafetta Basin, 129B3:89
 pillow lavas, 129B27:485
 rifting phases, 210B1:6–9
See also Bajocian; Bathonian; Callovian

Jurassic, Middle–Upper
 paleomagnetism, 173A4:83–84
 structural data, 173A4:98–102
 Jurassic, Upper
 age vs. depth, 198A9:75
 basement, 173A1:14
 biostratigraphy, 173A7:177–182
 geologic history, 207A1:4
 lithology, 173A7:175–177; 8:238, 240–241
 Milankovitch cycles, 129B30:529–547
 paleolatitude, 129B32:576
 palynomorphs, 173A4:103–104; 188B2:4–7
 plate tectonics, 189A1:8
 Site 307, 129B32:587–594
 Site 801, 129A3:91–170; 129B32:587–594
 tectonics, 194A1:4–5
See also Kimmeridgian; Oxfordian; Portlandian; Tithonian
 Jurassic/Cretaceous boundary
 age, 198B1:4
 nannofossils, 123B17:369–371; 198A9:20; 198B7:12–13
 Site 261, 123B1:40
 Jurassic–Eocene interval
 paleogeography, 160B32:414
 pole positions, 129B32:578
 Jurassic magnetic quiet zone
 air gun profile, 129B31:562
 formation, 129B23:439
 geochemistry, 185A1:1–63
 magnetic anomalies, 129B31:553; 185A1:19–20
 magnetic lineations, 129B20:389
 magnetic properties, 129B23:431–446; 24:447–454; 25:455–470; 185A3:34–35; 185B1:6–8
 magnetostratigraphy, 144A9:314; 144B38:645–646
 Pacific Ocean W, 129B32:573
 Pigafetta Basin, 129B1:3
 Site 801, 129A3:95; 129B14:268; 25:455, 461; 33:615
 time calibration, 129B20:399
 velocity, 129B28:504

K

K. *See* magnetic susceptibility, volume
 K37:2m, organic biomarkers, 199B25:7
 K37:2m/K38:2 ratio, organic biomarkers, 199B25:8
 K38:2e, organic biomarkers, 199B25:7
 K38:2m, organic biomarkers, 199B25:7
 K-N. *See* Cretaceous normal polarity superchron
 K/T boundary. *See* Cretaceous/Tertiary boundary
 K-stratigists, planktonic foraminifers, 183B2:3, 5–6
 Kaena Subchron
 correlation, 145A3:51; 145B34:494
 magnetic polarity, 135A(1)4:117; 7:311; 11:615–619; 180A12:35
 magnetostratigraphy, 132B3:43; 4:51–55; 135B54:860–861; 138A(1)10:216; 138B38:781, 788, 794–795; 160B5:67; 162A10:358; 180A1:4; 9:37
 Oman margin S, 117B5:131
 remanent magnetization, 160A7:179; 8:234; 10:357

sediments, 157A4:75–76; 6:153; 194A3:12; 202A8:21; 202B4:14
 Site 744, 119B46:820
 Site 745, 119B43:753
 Site 798, 127/128B(2)77:1224
 Site 799, 127/128B(2)77:1224; 128A5:314
 Site 846, 138B15:342, 344–345, 348
 Site 850, 138A(2)15:840–842; 138B6:84
 Site 852, 138A(2)17:990–993
 Site 853, 138A(2)18:1038–1041
 Site 854, 138A(2)19:1075–1077
 Site 859, 141A6:93
 timescales, 138B6:86
 Vanuatu, 134A12:423
 volcanoclastics, 157A8:413
 vs. gamma ray attenuation density, 138A(1)6:88
 kaersutite
 clastic mineral phases, 157B15:232
 crystal-vitric tuff, 183A5:34
 hydrous fluids, 149B32:546–548
 mineral chemistry, 147B7:143
 photograph, 147B7:154–155
 photomicrograph, 183A5:116
 sand fraction, 157B17:302
 serpentinites, 149B32:543
 Kaiatan, foraminifers, 181A7:21; 8:18, 20
 Kalman filtering, geochemical logs, 136B13:154–155
 kamacite, iron-nickel-sulfur-oxygen system, 209A3:97
 Kamptneriaceae, photomicrograph, 198B7:76–77
 kaolin, thermal diagenesis, 159B7:58
 kaolinite
 abundance, 104B2:32–34; 127/128B(2)78:1235–1241; 156B1:14
 alteration, 144B28:479–480, 484–487
 Atlantic Ocean E tropical, 108B17:302, 307
 Baffin Bay, 105A4:77; 105B3:45; 7:93–95, 98
 Bengal Fan source, 116B4:37, 40; 5:55
 Bonin-Mariana region, 125B7:117
 Cagayan Ridge, 124A12:310–311
 calcareous sediments, 123B1:19
 carbon/oxygen ratio, 164B21:205–206
 carbonates, 144B26:462–466
 Celebes Sea, 124A10:138
 clay-sized fraction, 190/196B6:7–8
 climatic variation, 119B6:114; 10:198
 composition, 110B7:104–109; 175B11:3–4
 continental rise, 188B1:9
 dating, 113A5:99; 6:197; 8:344; 10:539; 11:623; 113B5:55, 57, 59, 61–63
 detrital source, 119B10:198; 123B2:64
 diagenesis, 166A8:191; 180B6:19
 drift deposits, 178B8:7
 dust, 130B28:474–477, 480–485, 489–490
 electron microscopy, 160B34:443
 Eocene, 119B48:882
 fault gouge, 161A6:217
 fine-grained sediments, 210B8:14
 grain size, 152B9:120; 162B17:239–240
 hydrothermal alteration, 193B1:16
 Indus Fan, 117A9:181
 Kerguelen sediment ridge, 119B13:244

- light absorption spectroscopy, 199A5:5–6
lithology, 134B5:83–85; 149A4:50; 6:120; 7:222;
150B11:203, 205; 150X_B2:19–22; 160A9:295;
160B34:438; 162A8:263; 165A4:138, 142;
174AXS_A5:17; 6:42–46; 175A8:206; 9:233;
180A8:15; 180B6:6, 10–16; 183A6:8–9;
184A7:10; 188A3:13–14; 189A5:17–19, 71;
200A3:13; 210A3:33
lower sill complex, 210A3:69
matrix, 160B46:599
microfabrics, 185B9:7
mineralization, 159B2:17
mineralogy-porosity inversion, 156B16:224–225
nannofossil clay, 184B14:2
Norwegian Sea, 104B2:29–31
origin, 160B45:586–587
Owen Ridge, 117B3:87
Pacific Ocean W, 124B31:412–414
Paleocene climate indicator, 113B53:945
paleoclimatology, 184B19:7; 22:3–4; 189A1:34–35
paleoenvironment, 159A6:176; 189A3:15–17
paleosols, 144B19:383–388, 392
peak development, 119B10:199
peak intensities, 155A9:212; 10:255; 11:287
Pearson correlation coefficients, 152B4:43–46
permeability, 131B7:92
photograph, 150X_B3:48, 57; 159A5:83
photomicrograph, 210B2:24
potassium logs vs. photoelectric effect logs, 178A5:85
principal component analysis, 104B2:34–37
provenance, 160B19:238
Prydz Bay, 119B6:86; 9:198
reactions, 133A(1)15:638
recycling, 107B20:325
reflectance, 184B22:9
sandstone, 127/128B(1)9:134, 139–141
Sardinian margin, 107B11:159, 161
secondary minerals, 142B9:71
sedimentary regimes, 195B3:9
sedimentation, 150B9:158–164; 154A7:328; 8:393
sediments, 143B12:177; 146A(1)5:154, 253;
146B(2)7:92–94; 149B40:748–749; 150X_B4:50,
53; 5:60–63; 155A6:104; 7:137; 8:185; 13:391,
393–394; 155B9:179–191; 156A7:206–213, 216–
217, 220; 160B45:581; 161B2:24; 172B5:4;
174A_B(synopsis):8–9; 175B23:13–15; 181B3:5–
6, 20–21; 14:3; 184B19:5; 188B13:11–12;
204B7:5; 205A5:19
siliciclastics, 133B30:462–470
sill zoning, 210A3:67
silty clay, 150B11:195–199
Site 699, 114B37:688–689, 698
Site 711, 115A9:675
Site 721, 117A9:233, 240
Site 738, 119B10:194
Site 744, 119B10:194
Site 748, 120B1:23; 9:118
Site 765, 123A4:99–100; 123B33:608
Site 798, 127/128B(1)24:411, 416, 418
Site 799, 127/128B(1)9:144
source area, 117B8:183; 9:198, 202; 118B7:147;
119B13:247; 123A4:98, 150; 143B12:191
stability, 131B2:21
stratigraphic distribution, 116B4:36–40
Sulu Sea, 124A11:217–218
tektites, 150B13:247–248, 252
terrigenous component, 175B23:10–11; 189B11:4–5
thermal diagenesis, 159B7:58–63
thorium/potassium ratio, 174A_A4:150
transmission electron microscopy, 113B18:231
upper Eocene, 189A3:16–17; 189B1:11
veins, 159A6:186; 159B1:4–5
volcaniclastics, 152B9:122–124
vs. age, 167B18:232; 181B3:10; 184B19:18; 189B11:9–
12
vs. composite depth, 145B15:235
vs. depth, 150A8:220; 152B4:42; 155A12:343;
156A6:102–114; 156B1:15–16, 20–21;
159B43:592; 160B18:221, 223; 161B2:29;
164B21:207–208, 211; 174AXS_A(sum-
mary):34; 184A7:44; 9:60; 184B14:5–6;
188B13:34; 189A3:77; 6:22–25, 88; 7:69; 190/
196B4:22–23; 6:20–22; 204B11:13–16
vs. major oxides, 156B1:30
weathering, 120B(1)8:104–105; 152B9:117
X-ray diffraction data, 131B11:145; 156A3:35;
156B16:222; 159A5:77; 6:168, 177; 8:264–265;
172B5:21; 175A10:281–282; 185A4:66;
185B9:20; 186A4:90; 188A3:17–18; 4:16; 5:12–
13; 190/196B4:20; 208A6:51; 210A3:52, 237
X-ray fluorescence data, 161A6:238
See also chlorite + kaolinite/illite ratio; chlorite + kao-
linite mixed minerals; clay minerals; dickite;
greenalite; illite/(kaolinite + chlorite) ratio; il-
lite/kaolinite ratio; illite-plagioclase-kaolinite
assemblage; (mica + illite)/kaolinite ratio logs;
mixed-layer minerals; nacrite; quartz/kaolinite
ratio; spherules
kaolinite/chlorite ratio
relative abundance, 190/196B6:5–6
sedimentary regimes, 195B3:9–10, 12
vs. age, 195B3:27
kaolinite/feldspar ratio, power vs. frequency, 175A3:53
kaolinite-halloysite mixed minerals
sediments, 150X_B4:53–54
See also clay mineralogy
kaolinite/illite ratio, vs. age, 154A9:440
kaolinite/(kaolinite + smectite) ratio, 175B23:34, 37
kaolinite/smectite index, vs. age, 182B1:30
kaolinite/smectite ratio
chemical vs. physical weathering, 117B8:187–188
crystallinity, 175A3:57; 5:119; 6:152
Indus Fan, 117B8:186
lithology, 175A4:91
Owen Ridge, 117B8:187
Site 765, 123B33:608
kaolinite veins. *See* veins, kaolinite
kaolinitization, alkaline basalts, 144B28:487
Kapitean
biostratigraphy, 181A4:10; 7:18–19; 8:17, 19; 9:13–14
lithology, 181A1:33

- karst
 dredge samples, 143B30:477, 480–482
 morphology, 143B29:433–470
- karstic exposure surfaces
 lithology, 194A4:10–11
 photograph, 194A4:42
See also exposure surfaces
- karstification
 Albian, 143A8:279
 atolls, 143A6:124–125; 144B14:286–289
 Barremian, 143A7:208
 depositional sequences, 144B47:829–831, 833–834
 diagenesis, 144B46:806; 48:869
 lithology, 143A2:23
 meteoric diagenesis, 144B48:865
 outer perimeter ridges, 144B15:296–300
 paleoenvironment, 144B15:305–307
 photograph, 194A7:71
- katophorite, mineral chemistry, 129B17:314
- Kelvin waves
 monsoonal, 159B40:554
 oceanography, 167B32:342
- Kerguelen Igneous Province, 183B17:1
- Kerguelen Islands, 183B17:1
- Kerguelen Plateau, 183B17:1
- kernels
 geochemistry, 193B1:26–27, 47
 photograph, 193B1:57
See also brucite kernels; olivine kernels
- kerogen
 atomic hydrogen/carbon ratios, 112B39:595
 Baffin Bay, 105B13:192
 carbon and hydrogen content, 112B39:594
 carbon isotopes, 101B25:383–385; 113B15:191, 195–196; 131B30:380, 382–384
 Celebes Sea, 124B18:240–241
 Cenomanian, 101A6:131
 chemical composition, 119B22:410
 chemofacies, 144B51:900, 902
 composition, 101B25:384–385
 depositional environment, 119B22:408, 411
 diagenesis, 157B35:591–607
 Exuma Sound, 101A9:349, 354; 10:398, 401, 403
 formation, 112B9:143, 145
 gas hydrates, 164B5:55–56
 geochemistry, 101B25:383–386; 141B9:122–125
 Jane Basin, 113A12:736, 738
 lithofacies, 171B_A3:75, 81
 lithology, 119B22:408; 172A6:256–258; 207A6:9
 Little Bahama Bank, 101A6:131, 144, 145; 8:288
 marine degradation, 101B25:386
 Oman margin, 117B33:548, 551, 555
 organic matter, 181A7:41
 organic maturation, 144B51:906
 oxygen index vs. hydrogen index, 171B_A6:294
 photograph, 143B12:196
 Pisco Basin W, 112B27:461–462
 plant debris, 183B3:5, 30
 pore water, 131B12:162
 pyrolysis/gas chromatography, 180B16:6
 Raggatt Basin, 120B(1)19:282
- Rock-Eval pyrolysis, 151A7:189; 157B21:365–366; 165A5:256–257; 171B_A6:285; 181A7:98; 210A3:97
- sapropels, 160B22:273; 23:288–290, 292
- sediments, 141A6:113–114; 141B23:300–303; 143B12:176, 183–187; 146A(1)4:79–80; 5:181; 6:265; 7:336–337; 146B(2)14:209–210; 15:213–218; 16:223–228; 150A8:231–233; 152B24:285; 156A6:139, 143–144; 7:226–227; 162A8:277; 9:307–308, 313; 164B5:48–51; 169A4:178–179; 184A4:96–99; 188B16:4; 189A3:158–159; 210A3:353–355
- Site 680, 112B27:461–462
 Site 692, 113A7:314–315; 113B15:189–190
 Site 693, 113A8:377; 113B15:190–193
 Site 694 comparison with Site 692, 113A9:488
 Site 748, 120B(2)53:953
 Site 750, 120B(1)17:256
 Site 779, 125A7:119–120
 Site 789, 125A20:372
- sulfur isotopes, 113B15:195–196
- temperature, 113A10:563–565; 11:655
- thermal maturation, 144A8:308
- time-temperature history, 139B27:485–494
- type III, 119B19:385; 22:410; 207A7:26
- type IV, 119B22:410; 207A4:23
- vitrinite reflectance, 113B15:192–194
- vs. depth, 113A10:563–564; 162A9:313; 210A3:281
- vs. hydrogen index, 141B23:305
- Weddell Sea, 113B15:194–197
- See also* alginite; alkan-2-ones; alkanes; alkenes; alkylbenzenes; alkylcyclohexanes; alkylindenes; alkyl-naphthalenes; alkylphenols; alkylthiophenes; fatty acids; hydrocarbons; isoprenoids; lipids; *n*-alk-1-enes; *n*-alkanes; organic matter; phenols; pyrolysates; sapropels; thiophenes
- kerogen, amorphous, allochthonous origin, 119B3:48
- keto-ols
 organic-rich layers, 161B30:395–396
 sapropels, 160B21:264–265; 23:287
 sediments, 175B5:7
 vs. depth, 161B30:397
- ketones
 assessment, 198A9:27; 10:13–14
 biomarkers, 139A7:325–326; 8:490–491; 198A9:105
 bitumens, 160A5:117; 7:189; 8:251
 components, 198A9:107
 distribution, 108B20:355, 360
 gas chromatograms, 160B22:278
 laminations, 165B16:243
 Lima Basin C, 112B39:599–601
 lower Aptian, 198A10:24
 oceanic anoxic events, 198A3:29–30
 organic biomarkers, 199B25:1–11
 organic-rich sediments, 198A9:80–81, 104
 precursors, 175B5:5
 ratios, 138A(1)11:303–304
 recovery, 199B25:11
 sapropels, 160B22:275–276
 sediments, 139A6:200; 150A6:98; 150B18:336–337

- Site 681, 112B39:599–601
Trujillo Basin, 112B39:599–601
unsaturation index, 138B27:610; 146B(2)19:261
vs. age, 165B16:244
See also alkenones; alkyl diols; alkyl keto-ols; ethyl ketones; methyl ketones; pentakishomo-hopane-keto-diol; phytone
- ketones, methyl, sapropels, 160B23:288
ketones, pentacyclic triterpenoid, 161B30:396
ketones, steroidal/hopanoïdal
 gas chromatograms, 175B5:19
 sediments, 175B5:6
- Kimmeridgian
 biostratigraphy, 129B10:205
 rifting, 149B1:9–11; 210B1:6–7
 See also Oxfordian/Kimmeridgian boundary
- Kimmeridgian, lower, palynology, 173A4:103–104
Kimmeridgian–Portlandian interval, 173A8:263
- kinematics
 orogenic belts, 161A1:6–8
 rifting, 149B1:11–13
 structural evolution, 170B3:10–12
- kinetic controls
 crystallization, 163B12:135–148
 recrystallization, 153B8:149
- King diagram, remanent magnetization, 157A5:121–122
- kink band deformation. *See* deformation; kink banding
- kink banding
 clinopyroxenes, 147B20:364, 366
 core-scale structures, 131B29:369–370
 deformation, 209A9:12
 dewatering, 131B7:86; 170B4:4–5
 distribution, 131B9:126, 129, 131
 dunites, 195A3:17–18
 electron micrograph, 170B3:19
 grain size profiles, 155B4:65, 72–73
 harzburgites, 195A3:16–17; 209A7:14–15
 internal and external angles, 131B7:88
 photograph, 153B6:119; 29:520
 photomicrograph, 195A3:85; 200A3:84, 101;
 209A3:64, 100; 5:62; 9:70–71, 74
 photomosaic, 131B7:87
 physical properties, 131B10:137
 sedimentary wedges, 170B3:5, 10
 sequential development, 170B3:30
 structural analysis, 146B(1)13:218
 vitric tuff, 200A1:21
 See also deformation bands
- Kleiner-Hartigan diagrams, X-ray fluorescence and geochemical log, 127/128B(2)65:1030
- Koenigsberger ratio
 basalts, 129B25:458; 142A4:62; 148A3:160;
 163X_A4:14; 6:23–24; 192A3:35, 161; 5:116–118; 6:109–110; 7:59–62; 197A6:18
 basement, 127A5:203; 197A3:32–33; 4:25–26
 breccia, 158A11:221–222; 158B25:342
 diabases, 148A2:70; 210A3:340–341
 gabbros, 147B21:377; 153A4:169; 153B24:430–431
 harzburgites, 147B24:410
 histograms, 147A3:94
 igneous rocks, 130B4:51–52, 58; 147A4:146, 148
- induction, 145A5:163
lava, 144B36:621, 624; 163A4:35–36
lithology, 106/109A4:72, 74–75; 8:220; 106/
 109B26:293; 107B7:106; 111A3:89, 97;
 111B13:151–152; 14:159–161; 118A8:153–154;
 118B16:290–293, 296, 300, 305; 125B33:564;
 127A5:199; 127/128B(2)59:934–938; 197A5:21
- logarithmic distribution, 176A3:219
mafic rocks, 139B30:525–526
magnetic properties, 173B8:7; 176A3:73
magnetic polarity, 178B31:8, 21, 23
seamounts, 144B37:638
sediments, 133B38:549; 39:567
serpentine mud, 195A3:27–28
Site 698, 114B22:402, 406
Site 703, 114B22:402, 406
Site 795, 127A5:199
Site 894, 147A3:91
sulfides, 158A8:167
volcanic rock discrete samples, 144B34:588
vs. depth, 129B24:449; 25:457; 133B49:735; 137/
 140B22:254–256; 139B30:527; 140A2:124;
 141A10:371–372; 143B22:378–379;
 144B34:593–594, 596, 599, 601; 37:636–637;
 147A3:94; 4:148; 148A3:166; 148B21:378;
 149B25:443; 152A9:122; 163A4:36; 176A3:218;
 178B31:20; 192A4:100; 5:99; 195A3:106;
 197A3:112; 4:85–86; 5:76; 6:79
 well-logging, 143B23:383–387
 See also demagnetization; magnetic properties
- Kohout convection
 fluid flow, 166A1:9
 sedimentation, 133B36:532–533
- Kolbe epoch, glaciation, 130B30:514
- Kolmogorov-Smirnov test
 Site 699, 114B29:569
 Site 701, 114B29:569
 Site 704, 114B29:571–572, 575
- komatiites
 iridium content, 115B7:82
 noble metals, 135B35:599, 601
- Kovats retention indexes, hydrocarbons, 160B22:274
- Kroenke-type basalt
 geochemistry, 192B1:5–9
 primitive mantle-normalized incompatible elements,
 192B1:17
- krypton
 pore water, 141B26:326
 vs. xenon, 164B16:168
- kuroko sulfide deposits
 De Marchi Seamount, 107B16:252
 occurrence, 128A1:21–22, 24; 5:239, 251
- kurtosis, sediments, 149B40:747
- Kuster pressure gauge
 packer experiments, 135A(1)9:458–461
 permeability, 135B50:810–812
 pressure vs. time, 135A(1)9:463
- Kuster-Toksöz model
 cracks, 163B3:31–32
 fluid flow, 158B23:324, 326
 See also fluid flow

kutnahorite. *See* kutnohorite
 kutnohorite
 associated with magnetic susceptibility, 161A7:309
 basement/sediment contact, 161A6:215
 foraminifers, 202B1:9
 X-ray fluorescence data, 161A6:238
 See also magnesium-kutnohorite
 Kwaimbaita-type basalt
 geochemistry, 192B1:5–9
 primitive mantle-normalized incompatible elements,
 192B1:17
 kyanite
 chemical composition, 155B7:152–166
 heavy minerals, 174A_B6:6, 9–11
 metamorphic rocks, 161B20:288, 290
 schists, 161B23:312

L

L-isoleucine. *See* D-allisoleucine/L-isoleucene ratio
 La/Ta. *See* lanthanum/tantalum ratio
 LAB-TEC 100, vs. pipette procedure, 123B7:153–163
 Labiatae, palynomorphs, 188B3:15
 laboratory data
 comparison with well-logging data, 129B29:507–527
 comparison with X-ray fluorescence data, 152B35:425
 labradorite
 basalt paragenesis, 195B8:5–6
 composition, 118B9:199; 147B2:40–41
 diabases, 180B3:6–7
 fluid inclusions, 118B9:187, 202
 lithology, 174AXS_A4:21–22
 metagabbro clasts, 173A7:191
 microlitic diabase, 180B3:6
 mineral chemistry, 129B17:308
 Sulu Sea, 124A11:263
 volcanic rocks, 141B28:351
 laccoliths, mounds, 169A6:256
 lacustrine environment
 Cenozoic, 161B42:539
 cyclic processes, 159B12:120–122
 deposition, 159B8:72–73; 189A1:6
 lithology, 188A4:13
 paleoenvironment, 159A6:174–175; 159B14:133–134
 reversed magnetic polarity, 107B21:337, 339
 Sardinian margin, 107B1:16; 15:229, 242; 31:505;
 38:651–652
 sulfur isotopes, 159B14:130
 lag deposits
 Albian, 159A9:307
 continental shelf, 178A9:10
 gravel, 119B6:129
 magnetic properties, 117A14:455
 Oman margin S, 117A14:445–446, 448–449, 464
 Site 730, 117A18:569
 submarine sediments, 115A10:739
 lag marks, photograph, 174AXS_A2:56
 lag surfaces, lithology, 188A3:16
 lagenids, abundance, 144B9:174, 177, 183, 187
 Lago-Mare facies
 basin margins, 161B43:549

carbonates, 160B38:494
 Cornaglia Terrace, 107A9:628
 lithology, 161A4:64
 Mediterranean Sea, 107B14:211, 217; 31:505
 Messinian–Pliocene interval, 160B34:441
 ostracodes, 161B42:537
 paleoecology, 161A4:72; 5:137
 paleoenvironment, 160B2:18–22
 Sardinian margin, 107B1:14, 23; 107B13:184
 Site 750, 120A9:287
 Tyrrhenian Sea, 107B1:24
 lagoon islands, models, 144B51:910–911
 lagoonal environment
 biostratigraphy, 143B32:546–547; 144B7:142–147
 carbonates, 144B17:340–359
 contacts with peritidal lithofacies, 101B13:196–197
 Cretaceous, 143B9:120–124; 144B9:186–187; 10:211–
 213
 deposition, 144A3:54; 144B18:361–380; 47:826–828,
 836–840
 diagenesis, 144B46:791–796
 Eocene, 188B1:6–7
 lithology, 144B13:268; 14:282–283; 16:320;
 174AXS_A2:22–23; 3:18–19; 188A4:14;
 194A7:15
 models, 144B12:236–237
 nodules, 188B15:4–7
 paleoecology, 144B6:133
 paleoenvironment, 174AX_A1:18
 petrography, 101B13:194–196, 199, 200
 sea level changes, 143B20:322–326
 sedimentation, 143A8:288
 seismic units, 188B8:6–7
 stratigraphy, 144B49:876–877
 upward-shoaling sequences, 101B13:196–197, 200
 lagoonal sedimentation. *See* sedimentation, lagoonal
 lahars, units, 152B8:102–103
 lakes, vegetation, 155B25:417
 lamalginite
 abundance, 180B10:7
 dispersed organic matter, 180B10:10
 lambda (carbon-normalized lignin yields), 201B4:19
 lamellae
 photograph, 209A5:115
 photomicrograph, 193A3:180; 209A9:47–48
 tektites, 150B13:246–247
 volcanic ash layers, 121A13:460, 462
 See also exsolution lamellae; ilmenite lamellae
 lamellae, exsolution
 pyroxenes, 118B1:4
 See also exsolution lamellae
 lamellae, trellis
 ilmenite, 121B28:545
 Ninetyeast Ridge, 121B28:545
 titanomagnetite, 121B28:535
 lamellar texture. *See* textures, lamellar
 laminae
 lateral continuity, 178B3:4–5
 lithofacies, 155B40:615
 micrograph, 178B18:11–16
 photograph, 155A5:83; 178B18:10

- silt, 155B2:11; 5:88, 90
 vs. depth, 178B3:12
See also diatom-ooze laminae; ripple laminations; silt laminae
- laminae, contorted, photograph, 154A4:70
 laminae, diatom-bearing terrigenous, 178B18:5
 laminae, ferromanganese, lithology, 194A5:4
 laminae, planar-cumulus, origin, 161B1:13-14
 laminae, planar-wavy, origin, 161B1:13-14
 laminated facies
 lithology, 178A5:5, 10-12; 8:3-7; 178B25:4-6, 8
 photograph, 178A8:32, 35
 reflectance, 178B21:3-22
- laminations
 annual or seasonal changes, 127/128B(1)31:548, 551
 Aptian, 192A3:13-14
 B division, 123B5:117, 124, 133
 backscattered electron microscopy, 127/
 128B(1)31:549-557
 Baffin Bay, 105B1:12, 18
 basalts, 206A3:74
 basement, 183A1:17-19
 biostratigraphy, 115B31:590-591; 127/
 128B(1)31:549-551, 555-556; 138B30:643;
 160B27:337-338
 bottom current influence, 105B7:88
 bundles, 165B7:135
 calcareous chalk, 119A7:237-238
 carbonates, 105B3:40-41; 4:56, 61; 173A7:174-175
 classification, 112B4:46-47, 50
 color, 182A4:8
 compaction, 165B10:183
 compilation, 165A7:367
 composite section, 188B12:14-15
 composition, 112B4:47-48; 146B(2)6:77-87;
 160B27:337
 cores, 136A5:68; 167B25:278-280
 Cretaceous, 143B10:140
 Cretaceous/Tertiary boundary, 165A4:151-152
 cycles, 127/128B(1)31:549; 33:581; 128A4:140;
 146B(2)8:105, 114, 123
 décollement zone, 156A7:281, 284
 deformed sequences, 112B4:53; 161A6:222-223
 deglaciation, 178B34:4
 deposition, 150A10:344; 156A6:100-101; 178A7:8-10
 diagenesis, 115B41:756; 138A(1)10:204
 dolomite, 127/128B(1)6:92
 effects of core-cutting methods, 138B10:186
 Ethmodiscus ooze, 167B15:207-212
 foraminifer-rich laminae, 127/128B(1)31:551
 Formation MicroScanner imagery, 180A6:212
 gases, 160B45:588
 glacial stages, 146B(2)3:42
 grain size, 167B25:291
 ice-rafted debris, 178B10:5-8
 internal structure, 112B4:48-49
 Labrador Sea, 105B1:20
 limestone, 134A9:191
 lithofacies, 112B4:50-51; 146B(2)27:348-349;
 160B32:408
- lithology, 133A(1)16:697-700; 138A(1)9:124-127,
 131; 139A5:110; 8:452; 146A(2)2:22, 24, 26-31;
 146B(2)11:147; 149A5:122, 156, 158;
 150A10:317-318; 155A6:92-93; 7:127-130;
 8:178-180; 9:204-207; 11:278, 280-281; 12:328;
 13:388; 14:412-415; 15:443-444; 16:466-467,
 470; 17:509-510; 157A5:108; 159A5:75-77;
 6:171-174; 8:266-267; 160A8:220-223; 10:340-
 342; 161A4:59-64; 5:118-121, 125-126, 128,
 130-131; 6:189, 191; 161B1:13-14; 165A3:59;
 4:147, 150; 6:302; 7:363-368; 165B4:87;
 166A6:79-80, 82; 8:178; 10:297-300; 11:350-
 352; 167A(1)4:55; 13:357-359; 15:436-438;
 16:468; 168A4:57; 5:109-111; 6:167-169;
 169A4:166-167; 5:208-210; 6:266; 169S_A2:21-
 24; 171B_A3:54; 4:102-116; 5:181-183;
 172A6:258-259; 173A6:110, 112-114;
 174A_A5:160; 174AXS_A1:18-20; 2:16-23, 32-
 33; 3:22-34; 4:13-14; 5:18, 35-36; 6:19-20, 23-
 48; 7:12-23; 175A6:150, 152; 7:179; 13:395;
 15:460; 177A3:4-5; 178A4:4-13; 5:6-7, 11-12;
 7:4-6; 8:3-9; 178B7:11-14; 25:4-6; 180A5:15-
 16; 6:23, 26; 8:7-8; 9:14-26; 12:5-10, 17-18;
 181A6:7-12; 8:5-6; 183A5:6-8, 13-27; 6:8-9;
 7:5; 182A5:4; 184A4:10; 9:8; 188A3:11-12; 4:14;
 189A3:11-15; 5:11-15; 6:13-14; 7:16-18;
 190A4:6-8; 6:6; 9:6-8; 191A4:11, 15; 192A4:6;
 6:8; 194A8:9; 9:4-8; 195A4:12-14; 5:7-8;
 197A3:8; 4:6; 199A13:9; 14:7-8; 15:6;
 200A3:10-11, 13; 201A8:9; 10:8-11; 11:9; 12:7-
 11; 202A12:8-9; 204A3:7-8; 6:6-7; 207A4:8-11;
 5:8-9; 6:8-9; 7:7; 8:8-9
- magnetic properties, 115A11:857
 Mascarene Plateau, 115A5:240
 metasediments, 173A8:246-247
 mid-Cretaceous, 207B2:3, 6-12
 mid-Pleistocene interval, 172A7:314, 317-318
 mixed-biosiliceous laminae, 127/128B(1)31:549-551
 mud, 146B(2)22:296-299
 mudstone, 160B45:577
 Neoglacial, 178B34:6-8
 oceanic anoxic events, 198B16:6-7
 outer perimeter ridges, 144B15:300
 paleoclimatology, 146B(2)23:316-317
 paleoenvironment, 159B14:133-134; 174AX_A1:18-
 26, 32
- petrography, 161B1:5-7
 photograph, 138A(1)10:207; 12:348; (2)15:832;
 16:908-910; 139A7:306; 141A6:87; 7:169;
 8:250; 10:352-353, 355-356; 146A(1)4:67;
 5:150; 6:251; 149A4:56-57, 63; 6:124, 126-127,
 157, 176; 7:224-225; 150A10:317-318;
 155A6:98-100; 7:132, 136; 8:181; 9:209-210;
 10:252-253; 11:279, 285-286; 12:331, 333;
 13:392; 14:416; 15:444, 446; 18:546-547;
 156A6:104; 157A5:117; 7:337; 8:404-405;
 159A5:77, 82, 85, 102; 6:173; 7:232; 8:268-270;
 159B2:21; 160A4:66; 5:98; 8:229, 237-248;
 9:299; 10:347, 350; 11:388; 160B32:406;
 161A4:70; 5:122, 127, 130, 132; 6:194, 198;
 7:311; 8:361; 161B1:9-11; 164A5:71-72; 9:285;

- 165A4:148, 325; 165B10:190; 166A10:300–301;
 167A(1)9:227; 15:438; 169A3:58; 5:211;
 169S_A2:21; 170A3:59; 4:115; 7:225;
 171B_A3:59–60; 4:113, 117; 6:258; 172A5:166;
 6:256; 172B7:26; 173A4:82–83; 174A_A5:159;
 175A6:155–156; 177A1:50; 4:32; 6:30; 8:39–40;
 178A5:47, 50, 54; 6:37; 180A5:56; 6:96–97, 104–
 105, 112; 10:35; 12:59, 70; 180B9:20, 23;
 181A6:49–51; 8:56; 183A5:80; 7:68–69;
 184A9:59; 185A4:74–75; 188B12:12; 192A3:63,
 67; 7:23; 194A7:55–56; 8:33, 37; 197A1:51; 4:42,
 47; 200A3:63; 201A8:32; 9:32; 11:46; 205A4:76–
 77, 121; 207A4:45–46; 210A1:65; 3:137, 139,
 172, 176, 203, 205
 photomicrograph, 160B27:342, 344, 346, 348;
 161B1:20; 165B10:188–189; 180A9:90;
 194A3:34; 5:39; 198B16:21; 201B13:27;
 210B9:53
 Pigafetta Basin, 129B6:156, 159, 163
 postglacial sediments, 178B18:4–6
 preglacial sedimentary basin fillings, 163X_A8:5
 radiolarian-rich laminae, 123B5:118–119
 sand, 150B11:199–201
 sandstone, 134A9:192; 141B31:392
 sandy turbidites, 123B5:122
 sapropels, 160A5:95–96; 160B27:335, 339
 seasonal variations, 112B4:50–51
 sedimentation, 119B47:853; 178A1:15–17
 sediments, 138B32:668; 146B(2)14:219–229;
 160B37:471; 178B3:1–20
 seismic reflectors, 138B24:539, 541, 545–547
 siliciclastic cross-laminated silts, 105B4:58, 63
 silt, 172A5:174, 176–178
 siltstones and claystones, 119B3:46
 silty turbidites, 134B7:103
 Site 680, 112B9:143
 Site 699, 114A6:157
 Site 701, 114A8:373
 Site 703, 114A10:550
 Site 709, 115A7:465
 Site 714, 115A11:851
 Site 745, 119A14:510
 Site 783, 125A11:262
 Site 784, 125A12:276, 287–288
 soft sediments, 133A(1)15:622
 spacing, 112B4:48
 structural data, 160A6:136; 169A3:107–112
 style in laminated diatom ooze, 138B31:651–654
 submarine ferromanganese hardgrounds, 194B8:6
 tektites, 150B13:259
 thickness, 127/128B(1)31:548, 550
 turbidites, 131B3:37, 40; 133B27:408–445
 upwelling, 127/128B(1)31:551
 volcanoclastics, 157B4:43–44
 vs. depth, 178A4:51; 178B32:33
 X-ray imaging, 210B6:4
 X-ray radiography, 169S_A2:28; 178B10:20
See also claystone; convolute bedding; crenulation;
 cross laminations; cross stratification; laminae;
 pseudolaminations; ripple-cross laminations;
 silt laminae; swirled laminations; varves
 laminations, anastomosing, photograph, 210A3:143
 laminations, biogenic, Peru margin, 112B4:47
 laminations, botryoidal, lithology, 210B9:13–14
 laminations, calcareous, photomicrograph, 185B10:9
 laminations, chemical, Peru margin, 112B4:47
 laminations, clay-rich, Cretaceous/Tertiary boundary,
 119B39:723, 727–728
 laminations, climbing-ripple, photograph, 180A12:66
 laminations, contorted, units, 181A7:8–9; 183A7:20
 laminations, convolute
 lithology, 168A4:57; 6:167–169; 172A4:88; 180A9:23;
 10:9; 12:11
 photograph, 129B6:159; 169A3:62; 172A4:89;
 180A8:51; 197A4:42
 Pliocene, 180A1:16
 sediment transition to basalt, 169A5:210–211
 laminations, crenulate, lithology, 210A3:24
 laminations, cross/convolute, 180B(synthesis):11
 laminations, current-induced, lithology, 171B_A4:116
 laminations, deformed, photograph, 210A3:138
 laminations, diagenetic
 greenish calcareous claystone, 119A6:170
 lithology, 198A4:14
 photograph, 138A(1)9:138; 198A3:65
 laminations, diatom-ooze
 deposition, 112B4:49–50
 internal structure, 112B4:48–49
 lithofacies, 112B4:53
 origin, 112B4:49
 Peru margin, 112B4:48
 Site 681, 112B4:57
 laminations, discontinuous, lithology, 180A9:6
 laminations, flow
 photograph, 193A3:154
 photomicrograph, 193A3:155
 laminations, folded, Paleocene/Eocene, 199A14:8
 laminations, foreset sigmoidal, Site 740, 119B3:46
 laminations, graded, photograph, 180A10:27
 laminations, green
 lithology, 198A6:7–13
 photograph, 198A6:37–39
 X-ray diffraction data, 198A6:41
 laminations, igneous
 igneous layering, 176A3:29–30
 iron-titanium oxide gabbros, 118B3:44, 48
 style, 118A6:101, 106–107, 121
 laminations, inclined, photograph, 171B_A5:186
 laminations, “inflated,” photograph, 195A4:81
 laminations, micritic, photomicrograph, 207B2:29
 laminations, microstromatolitic, photomicrograph,
 198A3:72
 laminations, mixed ooze-terrigenous
 internal structure, 112B4:49
 origin, 112B4:50
 Site 681, 112B4:58
 laminations, nannofossil-rich, photograph, 167A(1)4:56
 laminations, ooze, photograph, 146B(2)6:83–85
 laminations, organic, photograph, 144A5:169
 laminations, pale green
 distribution, 130B27:465
 ooze, 130A9:393

- Site 805, 130A7:240
laminations, parallel
 grain fabric, 210B3:26–27
 lithology, 180A9:21, 23; 188A3:15–16; 210A3:27–28,
 33–34; 4:5
 paleocurrent dip, 210B3:10–11
 photograph, 180A5:59; 8:47, 50–51; 12:60, 65–66, 72;
 188A3:92, 95; 195A4:81; 205A5:52; 210A1:67;
 3:165–166, 186–187, 195, 197, 200, 205, 217,
 225
 sandstone, 180B8:4
 See also pseudolaminations
laminations, parallel-wavy, photograph, 180A5:60
laminations, planar
 grainstone, 143A7:196
 lithology, 195A4:13–14
 photograph, 139A6:180; 141A6:310–311; 177A6:32;
 180A9:91; 181A6:49–51; 191A4:65; 197A1:78;
 204A4:55, 57
 photomicrograph, 160B45:595
laminations, postdepositional, photograph,
 138A(2)14:760
laminations, rhizosolenid, electron microscopy,
 160B28:355, 357, 361–363
laminations, ripple
 lithology, 180A10:5; 12:8
 photograph, 180A5:56, 59; 9:74; 10:36
 Site 740, 119B3:46
 siltstone, 119B3:49
laminations, swirled
 lithology, 210A3:27
 photograph, 210A3:217–219
laminations, terrigenous, Peru margin, 112B4:47
laminations, varve-type
 California, 112B4:50–51
 Peru margin, 112B4:50
 Pisco Basin W, 112B4:53, 56
 sedimentation rates, 112B4:51
laminations, wavy
 lithology, 210A3:33–34
 photograph, 171B_A5:182; 180A10:38–39; 185A4:81,
 86
laminations, white ooze, microfossils, 119B47:865
laminites
 Cascadia margin, 146B(2)6:81
 lithology, 161A5:130–131
 petrography, 143B12:176
 See also tepee structures
laminites, algal
 lithology, 143A7:199–201
 photograph, 143A7:202
 See also tepee structures
Lamont-Doherty Geological Observatory tools
 dipole shear tool, 164A6:144
 temperature tool, 131A6:209–213
 systems, 124E_A17:105–109
lamproites
 geology, 188A1:78
 Messinian, 161A1:11
lamprophyres
 composition, 180A7:77
 Kerguelen Plateau central, 120B(1)2:38–39; 5:76
 lithology, 180A7:9–10
 pebbles, 180A7:15
 petrology, 180A7:15
 Pleistocene, 180A1:13
 trace elements, 180A7:78
 volcaniclastics, 180B8:9
lamprophyres, biotite. *See* alnoite
land bridges, geology, 189B1:20–21
land-sea correlation, stable isotopes, 141B17:239–240
land surface model, lower Paleogene, 199A3:3
landslide deposits
 accretionary complexes, 204A11:7–9
 blast eruptions, 200A1:62; 3:104
 debris flows, 149B47:719–721; 157B12:174
 geochronology, 164B32:325–327
 geology, 200A1:20; 200B1:3–4
 lithology, 149B45:690–691
 serpentinite breccia, 149B35:571–575
 volcanics, 130B25:429; 136B4:53–63
 See also debris flows; mass flows; mass transport de-
 posits; slumps
Langhian
 biostratigraphy, 151B14:257, 261–263; 189B5:41
 correlation, 161B44:560
 deposition, 160B33:433–434
 sediments, 161B5:70–73; 166A6:115
 turbidites, 166B5:48
 See also Burdigalian/Langhian boundary
Langhian–Serravallian interval
 biostratigraphy, 151B14:257, 262–263
 seismic units, 161A6:248, 250
lansfordite
 alkalinity, 127/128B(1)6:92
 change to magnesite, 127/128B(1)6:80, 91
 chemical composition, 127/128B(1)6:82
 formation, 127/128B(1)6:91–92
 isotopes, 127/128B(1)6:83
 occurrence, 127/128B(1)6:80
 organic carbon content, 127/128B(1)6:92
 paleoenvironmental implications, 127/128B(1)6:94
 Site 799, 127/128B(1)6:75–98
 X-ray diffraction data, 127/128B(1)6:80–81
lanthanides, basalts, 130B1:7–10, 14–20
lanthanum
 altered rocks, 193B1:48
 amphibolites, 173B10:5
 basalts, 205B9:9–10
 calcite, 168B10:126
 carbonates, 168B11:139, 141
 clay minerals, 169B6:6, 24
 compositional uniformity, 121B32:629
 depletion relative to strontium, 147B9:184
 diabases, 153B10:223
 gabbros, 153B6:108–109; 179B(synthesis):15
 geochemistry, 195B1:11
 hydrothermal sediments, 199B15:3
 in volcanic rocks, 183B17:2
 lava, 129B18:349
 Paleocene/Eocene boundary, 199B16:3
 percent change from protolith, 137/140B17:203

- pore water, 193B4:5
 samples, 129B2:49
 scandium-normalized distribution, 119B39:725
 sediments, 129B2:50; 145B13:210–211; 180B6:10–11
 siliceous deposits, 129B2:42
 sills, 129B18:349
 Site 781, 125B16:303–304
 Site 795, 127/128B(1)41:707
 Site 798, 127/128B(2)86:1370–1371
 volcanic ash layers, 127/128B(2)87:1386
 vs. alteration percentage, 137/140B9:110
 vs. aluminum, 127/128B(1)42:737
 vs. barium, 187B1:36
 vs. depth, 131B28:350, 358; 139B11:229–250;
 145B13:212; 153B6:111; 171B_B4:10; 199B15:5;
 16:6
 vs. cerium, 161B27:366
 vs. erbium, 144B44:758
 vs. incompatible elements, 121B32:630–631, 640
 vs. lanthanum/samarium, 143B16:273; 187B1:36
 vs. lanthanum/ytterbium, 144B29:508; 153B10:217,
 230; 173B10:13
 vs. magnesium oxide, 148B4:53
 vs. neodymium, 144B44:758; 161B27:366
 vs. samarium, 187B1:36
 vs. silica, 151B19:360
 vs. sulfides and sediments, 158B3:45
 vs. tantalum, 161B27:366
 vs. thorium, 129B18:359; 154B31:471; 161B27:366
 vs. thorium and tantalum, 121B30:578
 vs. ytterbium, 121B30:568; 144B30:525
 vs. zirconium, 142B2:15; 157B13:192; 161B27:366
 X-ray fluorescence data, 152B35:427
See also barium/lanthanum ratio; cerium/lanthanum
 ratio; europium/lanthanum ratio; hafnium/lan-
 thanum ratio; holmium/lanthanum ratio; ter-
 bium/lanthanum ratio
- lanthanum, chondrite-normalized
 vs. chondrite-normalized cerium, 153B10:234
 vs. chondrite-normalized ytterbium, 153B10:234
- lanthanum/aluminum oxide ratio, 131B35:445
- lanthanum + cerium, vs. platinum + palladium,
 147B4:87
- lanthanum/cesium ratio, vs. lanthanum, 121B32:642
- lanthanum/lutetium ratio, vs. depth, 167B19:237
- lanthanum/niobium ratio
 basalts, 129B19:387
 lava, 135B24:410; 183A1:7–8
 vs. barium/niobium, 135B3:47; 29:527; 136B9:113
 vs. niobium/zirconium, 143B16:274
 vs. strontium-87/strontium-86, 183A1:63
 vs. thorium/niobium, 183A1:61–62
 vs. vertical distance of data points, 183B1:47
 vs. zirconium/niobium, 152B31:383
- lanthanum oxide
 titanite, 176B9:14
 vs. calcium oxide, 157B18:320
- lanthanum/samarium ratio
 Cretaceous/Tertiary boundary, 119B39:726
 vs. hafnium/lanthanum, 121B2:32
 vs. thorium/lanthanum, 185B1:29
- lanthanum/scandium, vs. ytterbium/scandium,
 153B18:359–360
- lanthanum/tantalum ratio, basalts, 119B16:318
- lanthanum/thorium ratio
 basalts, 121B30:571
 continental-related component, 121B32:644–645
 lithology, 185B1:11
 Ninetyeast Ridge, 121B32:639–640
 ocean island basalts, 121B32:644
 sediment recycling, 185B1:16
 vs. depth, 185B1:27
 vs. lanthanum, 121B32:640
 vs. samarium/lanthanum, 185B1:29
- lanthanum/ytterbium ratio
 amphibolites, 173B10:5
 anhydrite, 158B12:154
 basalts, 121B30:570–571; 129B19:368–369;
 152B40:491
 cerium anomaly, 127/128B(1)39:693–694
 distribution, 153B10:235
 gabbros, 176B6:20
 Lau Basin, 125B28:491–492
 manganese accumulation, 127/128B(1)42:729
 mid-ocean-ridge basalt affinity, 131A6:157
 migration of heavy rare earth elements (HREE), 127/
 128B(1)42:731–732
 modal components, 153B10:231
 Site 794, 127/128B(1)39:683
 Site 795, 127/128B(1)39:683
 Site 797, 127/128B(1)39:688–691
 Site 798, 127/128B(1)42:729, 735
 Site 799, 127/128B(1)42:729, 736
 vs. alteration percentage, 137/140B9:110
 vs. aluminum oxide, 153B10:232
 vs. cerium anomaly, 127/128B(1)42:737
 vs. cerium/lanthanum, 134B9:170
 vs. chromium, 137/140B9:115
 vs. depth, 139B6:97; 176B6:58
 vs. europium, 158B12:158
 vs. lanthanum, 121B32:642; 144B29:508;
 153B10:217, 230; 173B10:13
 vs. magnesium oxide/silica, 153B10:232
 vs. nickel, 137/140B9:115; 153B10:232
 vs. phosphorous oxide, 153B10:233
 vs. scandium, 153B10:232
 vs. titanium, 144B30:525
 vs. titanium oxide/alumina, 136B6:83
 vs. ytterbium, 153B10:230; 18:359; 176B6:60
 vs. zirconium, 153B10:233
 vs. zirconium/ytterbium, 137/140B17:203
 vs. zirconium/yttrium, 137/140B9:115
- lanthanum/yttrium ratio
 hyaloclastite, 143B16:265
 lapilli composition, 135B55:897
 Marsili Basin, 107B17:287
 vs. rubidium/strontium, 135B3:44
- Lapideacassaceae, photomicrograph, 198B7:82
- lapilli
 basalt contacts, 121A11:321
 basement, 165A8:392–393
 lithology, 134A12:400; 141A7:165, 167; 190A4:7

- photograph, 157A10:509–510
- photomicrograph, 157B12:148–149
- physical properties, 121A11:337, 344
- stratigraphy, 197A1:13
- volcanic ash layers, 121A11:311
- See also* pumice lapilli
- lapilli, accretionary
 - basalts, 192A4:13–15
 - deposition, 192A4:9–10
 - eruptions, 192A4:16
 - photograph, 192A1:55; 4:41, 70–73
 - Site 757, 121A15:522–523
- lapilli, armored
 - basalts, 192A4:13–15
 - photograph, 197A3:63
- lapilli, armored accretionary
 - photograph, 192A4:43, 58, 72–73
 - photomicrograph, 192A4:74
 - vs. depth, 192A4:48
- lapilli, basaltic, photograph, 165A6:306
- lapilli breccia. *See* breccia, lapilli
- lapilli clasts, petrology, 157B12:145
- lapilli layers
 - lithology, 202A12:6–10
 - photograph, 202A12:53
- lapilli scoria, lithology, 197A3:13
- lapilli tuff
 - lithology, 129B4:121, 123; 177A8:7–8; 192A4:5–8
 - photograph, 192A4:58, 62, 71; 197A3:128
 - photomicrograph, 192A4:44, 74
 - vs. depth, 192A4:38, 46
- lapillistone
 - age, 157B19:334; 27:457
 - Cagayan Ridge, 124A12:306–309, 311, 339; 14:402–403, 406–407, 410–411
 - geochemistry, 157B12:155–156
 - impedance, 124B37:509
 - lithology, 157A7:333–339; 8:402; 10:509–514; 157B4:43; 12:156, 161; 192A1:15–16; 4:5–8; 197A3:13
 - magnetic properties, 124B38:512
 - petrography, 157A7:353–355
 - photograph, 152B8:113; 157A7:335; 8:404–405; 10:511, 514; 157B12:176
 - photomicrograph, 157A7:357; 8:416; 157B12:148, 179–181
 - Sulu Sea, 124A11:212–214, 270; 124B1:6
 - units, 152B8:103–105
 - volcaniclastics, 157A8:414–415
 - volcanism, 157A2:22
 - vs. depth, 192A4:38
 - welded glass, 157B16:273
- lapillistone, basaltic
 - petrography, 157A10:520–521
 - photomicrograph, 157A10:524
- lapillistone, tachylite-rich
 - photograph, 192A4:47
 - photomicrograph, 192A4:80
- lapillistone, trachytic, lithology, 192A4:7
- lapillistone, vitric lithic, lithology, 192A4:7
- large igneous provinces. *See* igneous provinces, large
- large-ion-lithophile (LIL) elements. *See* elements, large-ion-lithophile (LIL)
- larger foraminifer-coral facies, assemblages, 133B4:58, 60
- larger foraminiferal (LF) associations, 194B2:8
- Laschamp Excursion
 - age vs. depth models, 202A4:53
 - directional variability, 202A5:11–12
 - geomagnetic events, 155B12:232, 234, 238; 202A5:40
 - magnetic excursions, 172A5:266; 172B11:4, 19
 - magnetostratigraphy, 172A5:188; 195A5:11
 - millennial-scale variations, 202A1:116; 4:29
 - sediments, 190A7:11; 184A1:19
 - split-core data, 172B(overview):7
- laser diffraction analysis, grain size, 178B24:3, 14
- laser fusion, mineral separates, 129B20:394–397
- laser particle counter, grain size, 141B6:79, 81
- last glacial–interglacial transition, 201B15:5
- Last Glacial Maximum
 - alkenones, 167B10:153–160
 - biogenic opal, 108B15:248; 181B1:29; 181B6:2–3, 6
 - biostratigraphy, 127/128B(1)17:311; 155B23:388–392; 188A4:22
 - carbon isotopes, 177B(synthesis):49; 182B15:3
 - carbonate dissolution, 165B17:266
 - currents, 178A2:7
 - history, 188B14:11
 - Japan Sea oceanography, 127/128B(1)23:394–395
 - lithology, 155A18:564; 165B4:87–89, 92–98
 - millennial cycles, 167B32:355–356
 - oceanic circulation, 151B17:310–311; 165B17:255; 175A1:9–11
 - organic matter, 155B32:526–527; 201B4:9–11
 - oxygen isotopes, 154B13:203–205; 18:283; 172B(overview):6; 184B2:5
 - paleoceanography, 184A1:8–10
 - Quaternary, 189B1:19
 - salinity minima, 174A_A3:73
 - sea-surface temperature, 202B1:7
 - sedimentation, 151B17:325
 - sediments, 154B14:225–227; 16:249
 - stable isotopes, 145B21:315, 321
 - temperature, 202B13:7
 - vegetation, 155B25:414–415; 161B36:464–465
 - See also* glacial maximum; glaciation
- Late Cretaceous–Cenozoic mixed polarity interval, 197A1:30
- late glacial, clay mineralogy, 155B9:184
- late Matuyama diatom maximum, 177B(synthesis):43
- late Miocene carbonate crisis, 201B8:3
- late Oligocene climate optimum, 202B1:5
- late Paleocene biotic event, 198B1:2
- late Paleocene thermal maximum
 - biostratigraphy, 174AX_A1:36; 183B4:15
 - claystone, 165A4:206
 - climate events, 177B(synthesis):39
 - Cretaceous/Tertiary boundary, 165A4:151
 - deep waters, 171B_A1:8
 - downhole measurements, 165A8:381; 165B11:195
 - lithology, 174AXS_A1:19
 - mass accumulation rates, 165A8:379
 - paleoceanography, 165A8:380–381; 165B3:70

- paleoclimatology, 174AXS_A1:2, 46
- transitions, 171B_B10:10
- well-logging, 165B11:191–203
- See also* Paleocene/Eocene Thermal Maximum
- late Pliocene warm event, 151B36:656
- lateral flow
 - ammonium, 160A9:311, 313
 - geochemistry, 160A8:250
- lateral ramps, seismic reflection, 156A2:22–23
- lateral stress tool
 - description, 131A5:62–65
 - sediments, 131B23:286–288
 - Site 808, 131A6:198–199
- laterite-derived facies, lithofacies, 152B9:117
- laterites
 - alkaline basalts, 144B28:487
 - clay mineralogy, 144B26:466
 - guyots, 144B53:944
 - interbasaltic horizons, 143A7:222–223
 - Maud Rise, 113B53:945
 - paleosols, 144B17:348
- laterization
 - geochemistry, 163A3:28
 - models, 144B51:911
 - sediments, 180A5:17–19
 - See also* weathering
- laterologs
 - data, 102A3:95, 97; 8:103–104, 110, 112; 102B11:161–162
 - dual laterolog, 148A2:75–76
 - harmonic analysis, 137/140B26:310–311
 - resistivity, 137/140B26:306–307
 - vs. depth, 137/140B24:279; 26:307–310; 176A3:232; 183A5:159
 - See also* Schlumberger logs
- laths
 - diagenesis, 139B7:108–109
 - See* plagioclase laths
- lathwork fragments
 - photomicrograph, 180B7:55–56
 - sandstone, 180B7:8–12
 - volcaniclastic sand, 180B7:6–7
- latitudinal drift, volcanism, 143B31:504–508
- laumontite
 - alteration, 137A2:29; 157B12:150; 205A4:33
 - composition, 148B8:108
 - Kerguelen Plateau central, 120B(1)4:64, 66–67
 - petrography, 148A2:47
 - secondary minerals, 137/140B15:176, 184–185; 148B6:77; 34:429
 - veins, 137/140B14:161; 148A2:50–51
 - X-ray diffraction data, 200A4:38, 116
- lava
 - age, 152B32:387–402; 40:486
 - alkalis, 183A7:40
 - alteration, 121B32:614–615, 624; 152B9:115–128
 - asthenospheric and plume components, 121B32:641
 - basalts, 135B24:410, 424; 32:557–563; 136A5:80; 142A2:36–37; 147B9:173–186; 161B26:350; 163X_A8:11
 - basement, 173A1:13; 183A9:17–18, 20–21
 - Broken Ridge evolution, 121A1:13–15
 - chemical variation, 142A2:40
 - classification, 183B14:10, 12–15
 - composition, 149B26:450–451, 462; 152B27:315–330; 40:479–501
 - crust, 152B39:466
 - dating, 135B57:923
 - deep-tow photography, 153B1:7–13
 - deformation, 163A3:26–27
 - dikes, 180B(synthesis):6
 - Dupal isotopic signature, 121B32:645
 - emplacement, 152A13:290–291; 197A6:35
 - enriched mantle component, 121B30:580
 - eruptions, 151B18:343, 345–347; 152B40:486–489
 - evolution, 121A15:524; 183A7:41–42; 183B1:13
 - flow into sea, 197A6:34
 - fractionation, 135B26:474–475; 148A3:139; 163X_A8:31
 - fracture zones, 152B37:450
 - geochemistry, 121A15:525; 121B33:633; 123A4:64; 130B1:3–22; 135B1:3; 27:499–503; 29:526; 33:568; 38:635; 136B9:110–111; 142B1:6; 148B2:9–19; 152B6:80–84
 - geochronology, 144B32:547–557; 157B11:127–129
 - heterogeneous flow, 121B31:597
 - Indian Ocean basalts, 121B31:598–601
 - intersite variations, 121B31:600–601
 - islands, 157A2:14–15
 - isotopes, 121B31:603; 187B3:8
 - lithology, 183A1:29; 197A4:11–19; 210B9:8–9
 - lower and middle series, 152B37:450
 - magnesium number vs. calcium oxide, 153B17:349
 - magnesium oxide vs. calcium oxide, 153B17:349
 - magnetic polarity, 163A4:35
 - magnetic susceptibility, 152B23:271–280
 - mid-ocean-ridge basalt, 187A1:3–49
 - mineralogy, 115B3:23; 121B30:577; 31:633; 32:625; 142B9:72; 144B30:513–533
 - neodymium isotopes, 183A1:7–8; 183B1:15, 26
 - oceanic andesite overlay, 121A1:13
 - petrography, 121B29:567; 135A(1)4:146–147; 197A5:14–16
 - petrology, 121B32:616–620
 - photograph, 152A9:130; 183A5:134; 6:107; 183B14:17–19; 193A4:91; 197A3:63, 65
 - photomicrograph, 163X_A4:20; 6:39
 - pillowed vs. nonpillowed basalt, 121B29:507
 - plagioclase zoning, 121A15:529; 135B31:543–556
 - potassium-argon radiometric ages, 143B17:278–282
 - quartz-olivine-clinopyroxene system, 135B24:401
 - rare earths, 143B15:252
 - rifted margins, 163X_A1:3–4
 - rock magnetism, 144B36:615–630; 183B12:1–28
 - seismic data, 152A1:6–9; 152B38:453–462
 - shield volcanoes, 157A2:13
 - silicates, 197A4:15–16
 - silicic rocks, 135B40:653–663
 - St. Paul/Amsterdam island comparison, 121A15:526
 - strain rate vs. viscosity, 183B14:16
 - stratigraphy, 152B41:509; 163B6:58–59
 - subaerial flows, 121A10:274–275; 11:322; 183B1:20

- Tertiary, 152A1:12–14; 163B12:135–148
 textures, 148A3:130–131
 trace elements, 163X_A8:32
 Tsukushi group, 193B1:12
 two-component magma mixing, 121B31:599, 633,
 641; 32:628–629
 vesicles, 135A(1)4:141
 viscosity, 197A5:13
 volcanic ash, 121A12:360
 vs. strontium-87/strontium-86 ratio, 135B29:529
 vs. titanium oxide/calcium oxide ratio, 135B24:422
 vs. zirconium/samarium ratio, 135B24:423
 X-ray fluorescence data, 152B35:425–426
*See also a'a lava; pahoehoe lava flows; pillow basalts;
 pillow lava*
- lava, alkalic, basement, 183A1:6, 34–36
 lava, altered mafic, basement, 183A9:13, 15
 lava, altered massive, basement, 183A9:17–18, 20
 lava, basaltic
 breccia, 134B17:361
 clasts, 134A8:153
 composition, 134B16:339, 342; 152B36:431–435
 geochemistry, 134A10:277–278; 12:414, 416;
 134B20:396–398
 lithology, 152A9:115
 low-pressure experiments, 152B30:359–372
 modal analysis, 134A12:413
 paleomagnetism, 152B21:259–264
 petrology, 134A10:276; 134B19:375–392; 144A6:236;
 11:430; 149B36:580–581
 trace elements, 134A8:154–156
 lava, basaltic tholeiitic, major oxides, 129B18:354–356
 lava, basanitoid, petrography, 144A10:369–371
 lava, boninitic
 basement, 180B(synthesis):6
 modal data, 135B24:386–387
 lava, brecciated, photograph, 152A9:133
 lava, calc-alkaline
 composition, 135B3:39–40
 photomicrograph, 180A7:48
 lava, coherent vesicular, basement, 183A6:26–35
 lava, dacite, petrology and geochemistry, 193B2:1–31
 lava, felsic, alteration, 193A1:26
 lava, fine-grained, photomicrograph, 163X_A7:11
 lava, glassy, volcanism, 193B1:10–12
 lava, hybrid pillow-pahoehoe, volcanology, 197A3:17
 lava, intermixed, photograph, 183A9:63–64
 lava, mafic, geochemistry, 183A7:41–42
 lava, massive, oxidative alteration halos, 148A3:130
 lava, oxidized, basement, 183A9:13–14
 lava, pillow
 potassium-argon dating, 125B11:207
 Site 786, 125A14:326
 lava, plagioclase-olivine-quartz, 135B24:402
 lava, plagioclase-phyric basaltic, 183A5:14
 lava, posterosional, geochemistry, 136B9:116–117
 lava, postshield, geochemistry, 136B9:116–117
 lava, shield, geochemistry, 136B9:116–117
 lava, shoshonitic, Messinian, 161A1:11
 lava, silicic, petrogenesis, 141B27:342–345
 lava, subalkalic rhyolite, geochronology, 157B11:129
- lava, tholeiitic
 eruptive environment, 129B18:349–351
 oceanic crust, 129B19:373
 tholeiitic basalt, 129B18:345
 See also pillow lava
- lava, trachyphonolitic, photomicrograph, 157A9:457
 lava, transitional
 flows, 183B14:4–5
 internal structure, 197A5:1–13
 volcanic units, 197A6:11
- lava, unaltered felsic, volcanism, 193B1:11–12
 lava, unmetamorphosed, 149B26:451, 453–455
 lava, variolitic, photograph, 149B26:451
 lava, vesicular, lithology, 183A5:14
 lava clasts. *See* clasts, lava
 lava deltas, internal architecture, 197A6:31
 lava–dike transition, albitization, 123B9:198
 lava flows
 alteration, 152A9:134–135; 183A6:50–52; 7:8–9
 basalts, 144A10:397; 152A13:280–281; 165A6:326–
 327, 329; 169A5:212–214
 basement, 183A1:11–12; 6:22, 25–46, 50–52; 7:14–37;
 183B1:28; 192A1:8–9, 14, 27–28; 197A3:14–15,
 156; 4:112–113; 5:10–13, 98; 6:7–14
 bathyal environment, 183A8:5
 breakup volcanism, 152A13:287–288
 brecciation, 152B28:338–339; 183A6:52
 comparison with Hawaiian Islands, 197A3:22–24
 composition, 130A10:525–527; 163X_A4:1–2
 contact internal boundaries, 183A6:183
 crust, 152B28:344
 debris flows, 183A5:7–8
 dip, 183A4:68
 discrete samples, 183A5:47–48
 discrimination of types, 183B14:26–27
 emplacement, 183A4:16–17; 5:27–28
 eruptive depth, 128A4:95
 geochemistry, 143A7:225–226; 152B28:341; 40:489–
 491; 163B7:68–73
 geochronology, 157B11:133–134, 137; 163B6:55–60
 identification, 183B14:5–7
 igneous provinces, 192B1:6
 internal textures, 183A6:184
 Jurassic quiet zone, 185A1:19–20
 Kerguelen Plateau central, 120A7:220
 lithology, 135A(1)4:103–104; 163A4:37–38;
 169A3:44–53; 183A1:21, 24, 27, 31–33; 4:6, 14–
 17, 87; 5:13–43; 6:9, 182; 192A1:25; 197A6:5;
 200B1:7–8; 206A1:26–28; 3:53–55; 206B1:5–9
 lobe sizes, 183A8:15, 50
 low-potassium tholeiite, 192A1:6–7
 magma sources, 152A9:137–139
 mass balance, 169A3:99
 morphology, 152A9:126–129; 11:227–228
 oceanic plateau, 192A1:5–6
 paleomagnetism, 144B38:645–646; 183A4:24–26
 petrography, 144A10:371–374; 152A11:228;
 197A6:12–13
 petrology, 143A6:139–143; 7:221–222; 144B29:499;
 152A9:131–134; 191A4:31–33

- photograph, 152A9:115, 129–134; 163A4:39;
183A6:118, 120; 192A1:67; 3:65; 197A5:42
- photomicrograph, 163A4:40; 200A4:104
- physical and magnetic properties, 163B4:41–49
- physical parameters, 135A(1)4:169
- picrite, 152B30:369–371
- plate motion, 197A1:7–8
- position, 152A13:284
- rock magnetism, 197A6:108
- Site 794, 127/128B(2)58:906; 83:1339
- Site 795, 127/128B(2)52:850; 58:906; 59:943
- Site 797, 127/128B(2)51:838; 58:906–908
- spinel, 163B11:130–131
- stratigraphy, 152A9:135–137
- structure, 152A9:129–131; 11:228; 163B2:20;
197A5:47; 6:101
- subaerial emplacement, 143A2:29; 183A9:22
- submarine environment, 183A9:22
- suites, 127/128B(2)52:853–855
- summary, 183A6:124
- temperature-time-transformation, 163B12:147
- thickness, 152A9:126; 163A4:39–40; 163B12:138,
147; 183A4:16–17; 5:180
- tholeiites, 183A1:19, 29; 4:22–23
- unconformities, 183A5:29
- units, 197A6:103; 200A4:26–29
- veins, 148B18:272
- vesicularity, 135B37:615–623; 193A4:22
- volcanic margins, 152B40:488
- volcaniclastics, 157B12:163; 16:268, 278; 192B1:7–8
- volcanology, 197A3:15–18
- volcanostratigraphy, 163B1:4
- vs. depth, 183A4:42
- weights of attributes, 183B14:24–25
- zoning, 163B3:24–25
- See also a'a* lava; basalt flows; basalts; flow banding;
flow morphology; ignimbrite; pahoehoe lava
flows; sediment/lava interface; sheet flows; sills/
flows ratio; transitional lava
- lava flows, altered, volcaniclastics, 152B9:122
- lava flows, basaltic
 - acoustic basement, 165A4:133
 - geochronology, 157B11:131
 - Site 795, 127/128B(2)50:819
- lava flows, brecciated, 134A8:147, 149; 183A5:130, 136
- lava flows, low-titanium high-magnesium, 192A1:27–28
- lava flows, mafic, classification, 183B14:1–28
- lava flows, massive
 - basalt, 192A1:18–21
 - photomicrograph, 192A6:68
 - ponded, 206A1:27–28
- lava flows, recrystallized aphanitic
 - photograph, 206A3:184, 242
 - photomicrograph, 206A3:185
- lava flows, tholeiitic
 - Cretaceous, 129B18:345–359
 - hawaiite, 129B17:323
 - petrography, 129B5:145; 18:346–347; 19:362
 - physical properties, 129B27:485
- lava fragments
 - volcaniclastic, 180B8:8–9
 - felsic, 157B16:273
- lava granules, lithology, 183A6:8
- lava groups, distribution, 193B1:52
- lava lobes, volcanology, 197A3:15–17
- lava ponds
 - alteration, 206A3:66–73; 206B1:6–7
 - grain size, 206A3:61–63
 - lava flows, 163B1:6
 - photograph, 206A1:74; 3:165–167
 - photomicrograph, 206A3:189, 192–193
 - recrystallized basalts, 206A3:60–61
 - textures, 206A1:29–30; 206B5:1–32
- lava tubes, basalt pillows, 169A6:257
- Lavantine excursion, sediments, 190A7:11
- Lawrence Berkeley Laboratory (LBL) high-temperature
borehole fluid sampler, 137A2:40–41
- lawsonite
 - composition, 148B8:108
 - Mariana forearc, 125B24:408
 - Site 778, 125B25:416–417, 419–421
- layered contacts, petrology, 179A4:34–35
- layered intrusions
 - leucocratic layering, 179A4:36–37
 - lithology, 176B(synthesis):11, 36–45; 10:20–21;
179A2:4–6; 4:31, 51; 179B(synthesis):63; 2:4–5,
17–21
 - lower oceanic crust, 176B(synthesis):18–22
 - ophiolites, 179A4:12
 - petrology, 176A3:30–33; 179A4:34–37
 - photograph, 179A4:100–103, 139–140
- layering
 - Atlantis Bank, 118A6:100; 118B6:130
 - convolutions, 125A6:106
 - folde, 125A7:112–113
 - olivine gabbroonorites, 118B3:47
 - Site 778, 125B19:344
- layering, differentiated, quartz/biotite, 161A6:223, 229
- layers
 - orientation, 193A3:58–59
 - tephra, 186B9:4–5, 11
 - volcanic ash, 201B19:8–10
- layers, folded
 - photograph, 154A4:70
 - See also* folding
- layers, hemipelagic, fluid flow, 168B4:47
- LDGO tools. *See* Lamont-Doherty Geological Observa-
tory tools
- leaching
 - microfaults, 135A(1)11:603; 135B20:318
 - nitrogen, 148B1:6
- lead
 - alteration, 169A3:39; 193B1:19–20, 49
 - basalts, 120B(1)3:58; 135B26:475–476; 192B1:5
 - calcite, 168B10:126
 - carbonates, 168B11:139, 141
 - chimneys, 193B1:35
 - diabases, 180B1:4–5
 - element correlations, 158B27:378–381, 384
 - galena, 193B3:3
 - hydrothermal fluids, 139B20:405
 - hydrothermal sediments, 199B15:3

- jasperoids, 193B9:6
 lava, 206B1:7
 lithology, 183A1:29
 manganese nodules, 138B40:808
 mineral separates, 158B2:31; 27:370–376
 Ninetyeast Ridge, 121B31:591–602
 Paleocene/Eocene boundary, 199B16:3
 pore water, 116B12:146; 13:153; 193B4:4
 sediments, 167B23:265; 180B6:7, 10, 14
 submarine ferromanganese hardgrounds, 194B8:5–6, 22
 sulfides, 139A6:233; 158A7:93–98; 8:156–160; 10:189–191; 158B3:44; 8:106–107; 169A3:88–89; 193B10:3–7
 volcanics, 135B30:533–542; 161B27:370; 183B17:1
 vs. depth, 135B7:114; 139B17:359–367; 152B2:24; 158A7:129; 8:160; 10:195; 158B4:53, 57, 59, 61; 27:374–376; 164B15:161; 169A3:89; 193B1:69; 199B15:6; 16:7; 206B6:6
See also cesium/lead ratio; copper-lead-zinc plots; first lead paradox; lead paradox
 lead-204. *See* lead-206/lead-204 ratio; lead-207/lead-204 ratio; lead-208/lead-204 ratio
 lead-206/lead-204 ratio
 along-axis profiles, 187A1:20
 basalts, 130B1:11–20; 135B26:477
 vs. barium/rubidium ratio, 135B26:480, 482
 vs. barium/tantalum ratio, 163B8:89
 vs. depth, 135B28:511
 vs. lead-207/lead-204 ratio, 135B26:478; 28:510; 29:527–528; 152B29:354; 40:492; 153B6:116; 15:312; 16:327; 18:358; 19:369; 155B8:174; 163B8:84; 183B1:46
 vs. lead-208/lead-204 ratio, 135B26:478; 28:510; 29:527–528; 152B29:355, 40:492; 153B6:116; 15:312; 16:327; 18:358; 19:369; 155B8:174; 163B8:85; 183A1:60; 183B1:46; 187B1:30–31
 vs. longitude, 187A1:41
 vs. strontium-87/strontium-86 ratio, 136B7:86; 9:114
 vs. zirconium/barium ratio, 187A1:41
 lead-207/lead-204 ratio
 along-axis profiles, 187A1:20
 basalts, 129B21:405–413; 130B1:11–20; 135B26:477
 vs. depth, 135B28:511
 vs. lead-206/lead-204 ratio, 134B17:359; 135B26:478; 28:510; 29:527–528; 141B27:340; 152B20:354; 40:490; 153B6:116; 15:312; 16:327; 18:358; 19:369; 155B8:174; 163B8:84; 183B1:46
 lead-208/lead-204 ratio
 along-axis profiles, 187A1:20
 basalts, 129B21:405–413; 130B1:11–20; 135B26:477
 vs. depth, 135B28:511
 vs. lead-206/lead-204 ratio, 135B26:478; 28:510; 29:527–528; 141B27:340; 152B29:355; 40:490; 153B6:116; 15:312; 16:327; 18:358; 19:369; 155B8:174; 163B8:85; 187B1:30–31
 lead-210, sulfides, 158B9:111–117
 lead/aluminum ratio, vs. depth, 171B_B4:12
 lead/cerium ratio, peridotites, 209B1:16–18
 lead isotopes
 along-axis profiles, 187A1:20
 alteration, 121B31:596–598; 125B12:225; 13:242, 248, 250; 187B1:8
 analytical methods, 125B13:239, 242, 246
 basalts, 115B5:55–58; 118B6:131; 119B15:294–298; 121B30:569–579; 125B16:307; 134B16:349; 135B26:471–485; 28:505–517; 136B9:110–114; 142B2:11–12; 158B8:104–107; 163B8:77–93; 183B1:10–11; 185A1:39; 187B1:30
 basement, 127/128B(2)49:807; 83:1340–1341
 boninites, 125B38:650
 covariations, 125B13:250–252
 Deccan and Mascarene Plateau lavas, 115B5:60
 depth anomalies, 187B3:6–7
 diabases, 153B19:365, 367, 376
 gabbros, 118B6:129–133, 137; 149B27:474–475, 484–485; 153B6:109, 113, 115; 15:316; 18:355–358
 guyots, 144B31:535–545
 hydrothermal circulation, 169A1:9
 igneous rocks, 129B35:653–669; 134B17:355
 intersite variations, 121B31:598
 Izu-Bonin forearc, 125B13:247, 250–252, 258–260
 Java volcanics, 123B8:186
 Kerguelen Plateau, 120B(1)2:39; 121B31:599, 604; 32:640, 642
 lava, 121A15:529, 121B31:600–603; 183A1:7–8; 183B1:15, 26–27; 187B3:8; 197B1:38
 lead-lead plots, 127/128B(2)49:808, 813
 mantle, 187B1:10–12; 209A1:81
 massive sulfides, 193B10:4, 12
 mid-ocean-ridge basalts, 121A1:15; 187A1:3–5, 12
 mineralization, 158B8:101–109
 mud provenance, 155B8:169–176
 Ninetyeast Ridge, 121A15:526; 121B30:580; 31:605
 Northern Hemisphere reference line, 125B38:633, 642
 oceanic basalts, 163B7:71
 peridotites, 209B1:17–18
 phonolites vs. basalts, 121B31:599
 plutonic rocks, 153B15:308–312
 Réunion mantle plume eruption, 115B5:60
 sediment recycling, 185B1:29
 sediments, 145B24:383–388
 sills, 198B1:4, 36
 Site 713, 115B5:58
 Site 786, 125B12:223
 source components, 121B31:633
 systematic variations, 118B6:132
 volcanic rocks, 134B19:383–392; 20:393–401; 135B38:635; 141B27:341; 152B29:351–357; 40:489–490
 vs. depth, 135B26:478; 185B1:27
 vs. distance, 187B3:17, 21
 vs. hafnium, 187B1:33; 3:19
 vs. neodymium, 118B6:138; 121B30:578, 581; 123B42:794; 127/128B(2)49:810, 813; 187B1:33; 192A1:41; 192B1:16
 vs. Red Sea basalts, 123B42:798
 vs. strontium isotopes, 121A15:529; 121B31:607; 127/128B(2)49:810; 152B20:354; 153B15:314; 192B1:16
 websterite, 153B16:325

- See also* lead-206/lead-204 ratio; lead-207/lead-204 ratio; lead-208/lead-204 ratio; neodymium/lead isotope ratio; strontium-lead isotope covariation
- lead isotopes, clinopyroxene vs. plagioclase, 153B15:312
- lead/neodymium ratio, vs. lanthanum, 121B32:640
- lead paradox, peridotites, 209B1:16–18
- lead/thorium ratio
peridotites, 209B1:17–18
vs. depth, 152B31:378
- lead/uranium ratio, peridotites, 209B1:17–18
- lead/zirconium ratio, neodymium, 125B13:254
- leaf cuticles, photomicrograph, 180B10:34
- leaf wax
concentration, 175B10:30
sediments, 184B18:4
- least-squares-fit mixing models, 137/140B5:57
- leaves, Pleistocene–Holocene interval, 201B4:21
- leiospheres, laminations, 160B27:338
- length of day, Oligocene–Miocene, 151B15:293
- lenses, sheared, scan, 176A3:124
- lepidoblastic texture. *See* textures, lepidoblastic
- lepidocrocite
alteration, 197A5:15
massive sulfides, 139B18:377
photograph, 158B18:246
- lepidocyclinids
Australia NE, 133B21:292–293, 297–298
microbioclastic matrix, 133B21:292–293, 297–298
photograph, 194A8:33
photomicrograph, 194A4:63, 65; 5:53; 7:32, 38, 43
Site 802, 129A4:198
- lepispheres
biostratigraphy, 144A3:64; 207A6:13–14; 8:12–13
calcareous sediments, 121B13:257, 267
carbonate content, 121B24:475
deposition, 121A13:469
formation factors, 121B39:824
induration, 121A4:81; 13:462
lithology, 210A3:24
mottling, 121A8:194
opal-CT, 121B14:277; 150B20:369
photograph, 150B20:369–370
photomicrograph, 185B10:5, 7
Santonian, 121B44:937
scanning electron micrograph, 159B16:153
seismic reflection profiling, 121A8:226; 10:293
Site 755, 121A13:465
upper Paleocene, 207A1:25
volcanic ash-bearing vs. ash-barren, 121A4:81; 8:226
See also opal; silica
- lepispheres, opaline
photomicrograph, 129B3:112–114, 116–117
scanning electron microscopy, 129B1:27; 3:88
- leucine, racemization, 174AXS_A7:27–29
- leucine incorporation, community structure, 201A1:17
- leucocratic rocks, X-ray diffraction data, 173A9:285
- leucodiorite. *See* diorites, leucocratic
- leucogabbros. *See* gabbros, leucocratic
- leucogabbronorites. *See* gabbronorites, leucocratic
- leucogneiss. *See* gneisses, leucocratic
- leucogranite. *See* granites, leucocratic
- leucosomes
basement, 161B44:565–568
gneisses, 161B19:266–267; 20:283–284, 290
plagioclase, 161B19:268–269
schists, 161B19:265
- leucosomes, granitic
photograph, 161A6:231
photomicrograph, 161A6:247; 161B19:279
textures, 161A6:225
- leucoxene
heavy minerals, 150X_B7:75–79
metasedimentary rocks, 152B10:132
sills, 139B8:116–117
volcaniclastics, 134B9:133–144
- levees
channels, 155A3:27–29; 155B40:631–632
core-seismic integration, 155A6:117
correlation, 155B39:603; 41:664
crests, 155A6:117; 7:163; 8:197; 14:433
deposition, 155A16:489–490
flanks, 155A6:117; 9:232; 17:528
lithology, 155A11:308, 312; 14:445; 15:565; 19:588;
20:624; 22:683
paleoflow, 155B4:64
porosity and velocity, 155B29:491–492
sections, 155A16:488–489
seismic stratigraphy, 155A1:13–14
- levees, distal, lithology, 155A19:588; 20:622–623; 22:685
- lherzolites
aluminum oxide/silica vs. magnesium oxide/silica,
153B10:213
basement, 149A4:75–83
composition, 106/109B4:29–30, 36–37, 45; 115B6:66
Galicia margin W, 103A8:123, 125; 103B12:206
geochemistry, 149B23:416, 420
heterogeneity, 173A7:212, 215–217
Iberian margin, 103A8:131
lithology, 153B10:186–198
magnesium number, 153B12:269–270
Mariana Trench, 125B27:456
melt channels, 153B10:211
nickel oxide vs. forsterite, 153B12:269
origin, 149A4:82
petrology, 149B21:377–395; 36:581; 153A3:48–51
photograph, 149A4:78; 149B21:395
replacement, 153B12:266
size, 106/109B4:29–30
spinel, 173A1:12
See also harzburgites; peridotites; spinel lherzolite facies
- lherzolites, serpentinized and tectonized, 195A3:18
- lichens. *See* *Fissurina* sp.
- lid effect, lithospheric thinning, 152B31:384
- Liesegang banding
alteration, 192A4:18
lithology, 170A7:221; 177A4:6–7; 192A3:5
photograph, 170A3:59; 4:115; 7:226; 177A4:31;
191A4:94; 192A3:72
photomicrograph, 192A4:94
sediments, 138A(1)11:285

- underthrust section, 170A4:114–115
- xenoliths, 193B6:3
- Liesegang reduction halos
 - lithology, 167A(1)15:438
 - photograph, 167A(1)15:438
 - See also* halos; redox patches
- light absorption spectroscopy. *See* spectroscopy, light absorption
- light minerals
 - sand, 146B(1)2:34–35, 38–42
 - sediments, 141B7:98, 102
 - See also* heavy minerals/light minerals ratio
- light rare earth elements (LREE). *See* rare earths, light lightness
- carbonate-rich clay, 184A6:6–7; 7:80; 8:35; 9:93–96; 184B9:21
- composite section, 175A14:442–443; 202A3:21; 208A3:4–5, 40; 4:4–5; 6:4–5; 8:4
- correlation, 172A3:47–48; 4:102–104; 5:188–189, 194–201; 6:266–268
- cycles, 208A3:34
- depth continuity, 175A3:71
- frequency vs. age, 202A1:112
- lithology, 170A3:93; 4:152; 7:247; 172A5:164–165, 168, 170–174; 184A7:9; 189A4:6–9; 5:10–15; 7:11–18; 199A12:11; 201A7:11; 208A4:8
- power spectra, 189A3:70, 74
- sediments, 170A3:86–87; 4:151; 5:182; 7:246–247; 172A3:63–65; 188A3:50–54
- spectral analysis, 172A5:177; 188A3:141
- vs. age, 184B19:21; 202A9:56
- vs. carbonate content, 189A3:66; 5:70
- vs. depth, 170A3:47; 4:97; 7:216; 172A3:50–51; 4:108–111; 5:165, 170, 172, 193–199, 202; 6:272, 274–275, 291; 178B3:11–13; 32:20; 184A4:41–43, 66; 6:27, 43; 7:43, 62; 8:15; 9:51, 53; 188A3:139–140, 145; 189A3:60–65, 69, 72; 4:28; 5:63–67, 70, 86; 6:68–74, 99; 7:56–60, 68; 194A3:30, 55; 5:75; 6:60; 8:61; 9:52; 202A1:118–141; 4:29; 5:28; 6:29; 7:39, 44; 8:44; 9:45, 49; 10:45; 12:47; 13:36; 205A4:74; 5:49; 208A4:34, 36, 43–45, 47; 5:30, 36; 6:40, 42, 48–50, 52; 7:32, 34, 42; 8:33, 35, 40–41
- vs. Formation MicroScanner imagery, 184A4:79
- vs. magnetic susceptibility, 208A6:49
- See also* brightness; chromaticity; luminance; reflectance; reflectivity
- lightness power, vs. frequency, 202A9:56
- lignaceous fragments, Indus Fan, 117B36:593
- lignin
 - composition, 155B32:524
 - organic-rich layers, 161B30:397
 - organic matter, 201B4:5–11
 - turbidites, 157B34:584–587
 - vs. depth, 201B4:19
 - See also* lambda (carbon-normalized lignin yields); phenols; sigma values (lignin concentration)
- lignite
 - accessory component, 188B4:16
 - factor analysis, 188B7:28
 - lithology, 174AX_A1:18; 174AXS_A1:26–27; 3:20–23; 4:15; 5:19–20, 41; 6:31–34, 38–42, 46–48; 7:15
 - photograph, 180A6:112
- Liguliflorae, Site 720, 117B16:287
- LILE. *See* elements, large-ion-lithophile
- Lillburnian, biostratigraphy, 181A6:16; 7:21; 8:17, 19
- limestone
 - age, 130B5:70
 - Albian–Cenomanian interval, 129B1:9
 - alternations, 166B16:170–171, 174
 - Aptian, 192A1:30
 - Argo Abyssal Plain, 123B1:23, 43
 - Barbados Ridge, 110A4:126; 6:350; 7:436; 9:544
 - Barremian, 129B32:600; 171B_A1:6
 - Barremian–Aptian interval, 103A1:11; 129B32:598
 - basement, 197A6:7
 - Berriasian–Barremian interval, 129B32:598–599
 - biostratigraphy, 103A6:99–105; 110A5:223–224; 129B12:229
 - bioturbation, 103B8:108; 119A7:239
 - bottom water conditions, 101B25:386
 - breccia, 149A6:173
 - burial curve, 181A7:92
 - carbon, 103B33:558–559
 - carbonate platform accretion, 194B2:5–7
 - cementation, 117A15:447
 - chertification, 192A3:20
 - clasts, 173A8:256–258
 - color, 113B6:78
 - components, 144A6:220
 - composition, 180A1:8
 - Coniacian, 192A1:11
 - Coniacian–Eocene interval, 159B12:117–119
 - contact with basalt, 143A6:149
 - cores, 129B2:33; 136A5:68
 - Costa Rica Rift, 111A4:258; 2:26; 3:114
 - Cretaceous, 103A5:85; 10:524; 103B5:65–66; 123B39:752; 198B17:1–45
 - Cretaceous–Eocene interval, 130A9:382
 - Cretaceous/Tertiary boundary, 165A4:204–206; 8:394
 - dating, 110A5:260; 110B1:8
 - deposition, 144B12:233–253; 47:819–840; 159B8:73
 - diagenesis, 103B8:107, 125–126; 143A1:9; 143B29:433–470
 - dredge sites, 103A6:100
 - electron microprobe data, 144B59:1001–1003
 - Eocene–Holocene interval, 103A7:108–109
 - Exuma Sound, 101A10:392–394
 - fissures, 103B8:110–114, 125, 131, 133, 137–139
 - Formation MicroScanner imagery, 180B25:11; 192A6:44–45, 56, 89
 - fractures, 103B8:109–110
 - freshwater origins, 103B8:127–128
 - Galicia margin W, 103A9:230, 231, 268; 12:592; 103B8:105, 11:173–174, 177, 184–185
 - gamma rays, 103A10:445
 - genesis, 144A3:86, 88–89
 - geochemistry, 143B29:449–450, 452–455; 144B43:737–743
 - geotechnical units, 144A4:137; 5:187–188
 - hardgrounds, 144B22:419–428

- Hauterivian, 103B37:660
Hauterivian–Aptian interval, 103B45:823, 825
isotope stratigraphy, 143B5:89–97
Jeanne d’Arc Basin, 103B22:792
Jurassic–Cretaceous interval, 103A1:11; 7:107–108,
112–113; 9:223; 103B9:145; 10:155
Le Danois Bank, 103A7:111, 118
lenticular bedding, 130A9:397
lithofacies, 101B13:194–196
lithology, 103A10:421–423, 450; 11:537; 12:572, 578–
580; 103B10:160–161; 129B2:33;
133A(1)10:357; 16:700; 17:779; 143A2:18–20,
22–23; 149A4:59–62; 154A4:61–62; 8:344–346;
159A5:81–82; 8:266–267; 165A4:150;
170A6:195; 7:220; 171B_A4:112; 173A4:74–77;
8:238; 180A9:14–15, 19, 22–23; 12:18–20;
189A5:14–15; 6:20; 192A1:11; 3:7–11; 5:6; 6:6–
8; 7:4; 198A3:13–14; 10:6–9; 207A4:7–8; 5:8–10;
6:8–9; 7:9–10; 8:6–8; 208A4:8
Little Bahama Bank, 101A6:122, 142–143, 152; 7:218
lower Cenomanian, 198A9:15
Lower Cretaceous, 143B31:509–523
Mesozoic, 103B4:39
microfacies, 130B8:104
Mid-Atlantic Ridge, 106/109A8:215
moldic porosity, 101A6:124
Northeast Providence Channel, 101A12:485; 13:528–
529
Oman margin S, 117A14:446
oolites, 143B8:111–113
ophiolitic basement, 117A14:466
Ordovician (Trenton Formation), 103B8:128
Ortegal Spur, 103A7:111
Palawan Island, 124B9:124
Paleogene, 130A10:521
paleomagnetism, 101B23:329, 333; 103A9:248–250;
10:430; 119B43:758–759; 123A5:298–299;
129B23:431–432; 133B50:751
paleotopography, 159B11:106
Peru margin, 112A20:929
petrography, 144B48:846–847; 159B12:119–120;
161B3:39; 198B16:4–5
petrography and geochemistry, 144B23:429–437
photograph, 149A4:61–62, 87; 154A4:71; 165A6:329,
346; 171B_A4:114; 6:255; 173A6:119; 8:238–
240; 180A9:88; 191A4:95; 192A1:67; 3:62; 5:40–
42; 203A3:40; 205A5:54; 207A4:46; 6:49; 7:48;
8:45
photomicrograph, 160B37:472–473; 173A4:80;
192A6:41; 195A4:86; 205A5:55
physical properties, 103A9:255, 259, 267; 10:435,
437; 11:542; 12:591–592; 111B8:92;
130B40:670–672; 143B28:423–429; 144A8:308–
309; 10:376–377
pyrite, 113B6:83
recovery, Hole 800A, 129B34:635
sedimentary structures, 159B9:89
sedimentation, 143B2:21–23; 154A8:393
shallow-water deposits, 117A17:553
Site 698, 114A5:93–95, 109, 115
Site 699, 114B35:657
Site 700, 114A7:264–265, 284; 114B35:657
Site 738, 119A7:238
Site 800, 129B1:6
stable isotopes, 143B14:231–241; 180B12:1–5
stylolites, 130B26:451
textures, 101A1:17; 10:392
thin sections, 130B5:74
Tiburón Rise N, 110A5:213
Tithonian, 103A1:15; 5:85; 10:462; 103B37:667
Tithonian–Berriasian interval, 103B4:40
Valanginian–Aptian interval, 103B37:667–669
vs. depth, 113B6:74
well-logging, 192A6:27
within basalt, 203A3:8–9
woody texture, 192A3:20–21
X-ray diffraction data, 194A7:25
See also aragonite; biocalcarenite; biocalcirudite;
biomicrite; biopackstone; biosparite; biowacke-
stone; breccia; calcarenite; calcilutite; calciru-
dite; calciturbidite; chalk; chalk–limestone
transition; chalk–limestone–chert layers; clay-
stone/limestone boundary; cobbles; conglomer-
ate; floatstone; framestone; grainstone;
grapestone; micrite; ooze; packstone; pack-
stone–floatstone series; pelsparite; rudstone;
wackestone
limestone, algal, photograph, 180A12:84
limestone, aphanitic, Peru margin, 112A6:97
limestone, argillaceous
lithology, 144A11:420–421
photograph, 144A11:425
weathering profiles, 144B14:275
limestone, ashy
Broken Ridge, 121A9:239
magnetic susceptibility, 121A8:206
Santonian, 121B21:440
Sites 752 and 755 comparison, 121B21:440, 442
limestone, basal, Aptian, 192A3:13
limestone, bioclastic
biostratigraphy, 182A1:11
lithology, 143A6:123; 143B12:177, 179; 180B6:7
metamorphosed inclusion, 143A6:150–151
mud breccia, 160B46:603
photograph, 160B33:422–423
photomicrograph, 160B33:424–425
limestone, bioturbated, 192A3:58, 61, 64–65
limestone, bituminous
composition, 160A7:190, 197
lithology, 160A8:223
limestone, brecciated, lithology, 160A8:223
limestone, brecciated shallow-water, 160B38:498
limestone, bryozoan-rich, lithology, 194A4:7
limestone, calcareous
lithology, 165A3:58–60; 4:146–148, 150; 5:243–245;
6:304–306, 342
photograph, 165A6:306–307
limestone, calciclastic, Site 738, 119A7:238, 239
limestone, calcisphere
Exuma Sound, 101A1:7–8
Little Bahama Bank, 101A1:7–8; 101B11:175
Straits of Florida, 101A1:8

- limestone, calpionellid-bearing, 129B32:600
- limestone, cemented, Lima Basin S, 112A19:815
- limestone, clast-bearing, 130A9:393–394
- limestone, clayey
lithology, 143A6:123; 171B_A6:258; 207A7:10; 8:8–9
photograph, 149A4:62; 165A6:346
sedimentary structures, 119A6:172
Site 700, 114A7:261, 284, 300; 114B34:653
- limestone, clayey calcareous
Cretaceous/Tertiary boundary, 165A4:151–152
lithology, 165A4:146–147
- limestone, coral, Quaternary, 134A3:35
- limestone, dark, Bahamas, 101B25:381
- limestone, dolomitic
magnetic susceptibility, 117A14:455
Oman margin N, 117A11:322; 117B11:225
photograph, 159A6:170
- limestone, dolomitic clayey, lithology, 143A6:123
- limestone, dolomitized
Mascarene Plateau, 115B9:94
Nazareth Bank, 115A4:131
origin, 115A4:128
paleoenvironment, 160B38:500
photograph, 143B11:167–169
- limestone, faulted, photograph, 149A4:86
- limestone, ferruginous micrite, lithology, 192A3:11–12
- limestone, fine-grained, photograph, 159A8:268
- limestone, folded, Ontong Java Plateau, 130A9:394
- limestone, foraminiferal
Eocene, 117A4:47
lithology, 133A(1)7:207; 165A3:59–60; 183A8:6;
192A3:8–9
Mascarene Plateau, 115A5:243
Site 756, 121A10:264; 121B10:229
- limestone, foraminiferal nannofossil
lithology, 192A6:5–6
photograph, 192A6:42–43
- limestone, gray siliceous, lithology, 129A2:38–40
- limestone, grayish brown, photograph, 192A6:52, 55, 57
- limestone, karstified phosphatized, 143A6:121–122
- limestone, lithified, 160B33:422–423; 205A6:32
- limestone, manganese-encrusted, 144A5:154–155;
7:258–259
- limestone, manganese-impregnated pelagic
diagenesis, 144B46:805
outer perimeter ridges, 144B15:300
- limestone, manganiferous, lithology, 143A7:193
- limestone, manganiferous phosphatized, lithology,
143A6:121–122
- limestone, marly, lithofacies, 165B7:131
- limestone, metasomatized, photograph, 143A6:149
- limestone, micritic
lithology, 160A8:222; 181A1:25; 7:9; 187A7:3–5;
192A3:10–11
mass flow units, 160B37:467
photograph, 159A7:229; 8:270; 170A6:197; 187A1:24;
6:14
photomicrograph, 210A3:150
Site 700, 114A7:261–262, 266, 284, 300
Yaquina Basin, 112A15:448
- limestone, nannofossil
lithology, 166A10:298; 192A6:6–8
photograph, 192A6:58
photomicrograph, 192A6:51, 54
- limestone, nannofossil foraminiferal, 183A8:5–6;
192A3:6–8
- limestone, nannofossil foraminiferal phosphatized,
143A8:277
- limestone, nannofossil micritic, 165A5:243–248
- limestone, nodular, mid-Cretaceous, 207B2:7
- limestone, nummulitic, Oman margin, 117A14:441
- limestone, oncolithic, Oman margin, 117A14:450
- limestone, oolitic, isotopes, 143B6:102–103
- limestone, pelagic
composition, 190A1:3
Cretaceous, 144B8:165–166, 168
foraminifers, 144B9:171–196
Jurassic–Cretaceous, 170A1:7
lithology, 144A4:117–118; 182A4:9
photograph, 144A6:219
- limestone, pelletal, photomicrograph, 160B37:472
- limestone, peloidal, sedimentation, 205A5:15
- limestone, phosphatized
diagenesis, 144B46:796
photograph, 144B22:427
- limestone, phosphatized pelagic, 144A7:269–272
- limestone, pinkish, photograph, 192A3:71–73
- limestone, planktonic foraminiferal, 144A4:118;
194A4:6
- limestone, platform
diagenesis, 144B46:789–817
lithology, 144B45:774, 776–781
photograph, 144A5:159; 6:219
- limestone, quartz sandy
lithology, 159A5:81–82; 6:168–170; 8:266–267
paleomagnetism, 159B20:204
photograph, 159A8:268; 159B12:118; 13:123
- limestone, radiolarian
Aptian–Albian–Cenomanian interval, 129B33:619
core ages, 129B2:37
deposition, 185A3:9
lithology, 129B2:37; 14:269; 185A3:7
Site 802, 129A4:185, 191–192
- limestone, radiolarian nannofossil clayey, 192A6:53
- limestone, radiolarian siliceous, 129B3:86
- limestone, recrystallized
lithology, 160A6:130; 192A1:25; 7:4
photograph, 192A7:25
photomicrograph, 192A6:61
Pigafetta Basin, 129B32:583
Site 801, 129B1:4
volcaniclastic sand, 180B7:8
- limestone, recrystallized foraminiferal-bearing, 192A3:66
- limestone, reefal, Quaternary, 134A1:16
- limestone, rudist, photograph, 144A6:225
- limestone, sandy
biostratigraphy, 182A1:29
Jurassic–Cretaceous interval, 119B7:138
lithology, 180A8:10
Site 742, 119B7:135, 141
- limestone, sandy molluscan, lithology, 174AXS_A3:28

- limestone, shallow marine
 - environment, 103B31:513–514
 - Exuma Sound, 101A1:7–8
 - Little Bahama Bank, 101A1:7–8; 101B11:175
 - Northeast Providence Channel, 101B17:251
 - Straits of Florida, 101A1:8, 5:50–52
- limestone, shallow water
 - basement, 115A5:235; 160B54:735
 - Cretaceous, 144B10:199–219
 - diagenesis, 143B13:197–229
 - foraminifers, 144B6:127–139
 - geotechnical units, 144A3:77
 - lithology, 144B14:275–283; 160A7:161–162; 8:223; 173A4:71–73; 7:173–174
 - magnetostratigraphy, 143B26:399–403
 - Miocene, 133B34:500
 - photograph, 173A8:230
 - photomicrograph, 173A7:174
- limestone, shelly, Mascarene Plateau, 115A5:262
- limestone, siliceous
 - Berriasian, 129B32:581
 - Exuma Sound, 101A1:7–8
- limestone, silicified
 - lithology, 129B14:268; 182A11:6
 - Mascarene Plateau, 115A5:242
 - photograph, 192A6:57
 - seismic stratigraphy, 115A5:272
 - Site 702, 114A9:509
 - Site 750, 120A9:291
 - Site 800, 129A1:33
- limestone, silicified pelagic, lithology, 182A1:17
- limestone, silicified recrystallized, 192A6:14–15
- limestone, slope, formation, 115B35:647
- limestone, terrigenous micritic, 107B12:175
- limestone, white, photograph, 192A3:53, 55–56, 59, 61
- limestone, zeolitic, Paleocene, 192A3:16–17
- limestone/basalt contact
 - age, 165A6:313
 - planktonic foraminifers, 192A5:8
 - synthetic seismograms, 143B19:305–315
- limestone breccia. *See* breccia, limestone
- limestone–chalk transition, nannofossil, 198A3:74
- limestone–chert sequence
 - Broken Ridge, 121A1:5
 - lithology, 121A8:199
 - Santonian, 121A6:112
 - seismic stratigraphy, 121A4:72–75
 - uplifts, 121A1:9
- limestone clasts. *See* clasts, limestone
- limestone interbeds
 - geochemistry, 192A3:28–29
 - lithology, 192A3:11–12
- limestone nodules. *See* nodules, limestone
- limestone pebbles. *See* pebbles, limestone
- limestone porosity logs
 - Sites 1218 and 1219 correlation, 199B2:28
 - vs. depth, 202A10:63
- limestone–ooze transition, seismic profiling, 121B34:682
- limonite
 - alteration, 129B19:367
 - Celebes Sea, 124A13:359, 362, 368–369
 - geochemistry, 171B_B4:4–5
 - lithology, 152A7:76; 182A1:39; 8:8–9; 10:11
 - photograph, 171B_A3:56
- limonite, spheroidal, lithology, 182A4:10
- limonitic rinds, lithology, 174AXS_A3:22
- limonitization, lithology, 174A_A4:111
- Limopsis*, lithology, 181A3:7
- lineages, foraminifers, 144B20:402–409
- lineaments
 - backarc basins, 135B51:820–825
 - basement, 160B54:734–736, 743
 - geology, 160B51:690–691
 - New Hebrides island arc, 134B35:616
 - photomicrograph, 183A6:127
 - structural interpretation, 135B23:376–377
 - tectonics, 160B54:748–749, 754–756
 - volcanic history, 151A1:11–16
- lineaments, submarine, ridges, 160B54:750–751
- linear attenuation coefficient, scanning, 146B(1)11:198
- linear correlation, well-logging, 159B16:162
- linear regression analysis, sediments, 154B23:351–352
- linear structures. *See* structures, linear
- linear voltage-displacement transducer (LVDT), 123B24:472
- lineation
 - deformation, 153B2:31
 - fabrics, 147B19:353
 - frequency histograms, 135B23:380
 - gabbroites, 147B17:321–324
 - gabbros, 147B23:401
 - lithology, 151A7:170; 173A4:197
 - magnetic fabric, 153B23:422–424; 161A43:77–78; 192B5:4
 - magnetic susceptibility anisotropy, 148A2:72; 3:168; 164A5:86
 - microfaults, 148A2:70
 - mud domes, 160A1:12–14
 - photograph, 153A4:130; 6:224; 153B9:164; 161A6:241
 - photomicrograph, 147B17:321; 193A4:85
 - plunge, 147B19:356
 - primary layering, 193A6:7, 22
 - slickensides, 180A8:72
 - stereograms, 147B19:355
 - stereonet, 147B17:323
 - structures, 180A6:40
 - veins, 153B9:170–175; 159B1:5–6
 - vs. foliation, 134B27:484; 192B5:15; 193A4:209; 6:31
 - See also* deformation; foliation; gabbros; mineral lineation
- lineation, flow, lithology, 181A7:8–9
- lineation, magnetic
 - fabric, 149B17:339
 - vs. depth, 141B3:36, 39, 41, 43, 45; 149B17:340–341
 - vs. magnetic foliation, 146A(1)5:176; 6:261
- lineation, magnetic azimuth, 129B26:475
- lineation, magnetic skewness
 - location map, 129B26:472
 - Pacific Ocean W, 129B31:552
 - Site 800, 129B33:615–616
 - Site 801, 129B33:616

- Site 802, 129B4:120; 33:616
track-line segments, 129B26:474
Upper Cretaceous–Eocene interval, 129B32:576–578
lineation pitch, peridotites, 149B22:402
liosphaerids, Site 719, 116A6:163
lipid/bitumen ratio, maturation, 139B24:447–465
lipids
 abundance, 112B35:550
 Atlantic Ocean E tropical, 108A3:125–126;
 108B20:353–356, 358; 21:381; 22:388–389
 Baffin Bay, 105B15:235
 biological sources, 112B35:548
 biomarkers, 149B13:298–299; 175B5:1–26; 10:1–32;
 184B18:5–6
 bioturbation, 112B35:549
 bitumens, 167A(1)11:296–297
 Cap Blanc-Peru margin comparison, 112B34:543–544
 Cenozoic, 161B39:489–503
 chromatograms, 107B34:555; 112B34:540;
 117B25:447; 34:564–566, 568; 160B23:288;
 175B10:24
 compound structures, 175B10:26
 concentration, 175B10:30, 34
 diagenesis, 157B35:593
 fluvial influx, 112B34:541
 geochemistry, 121B24:473; 172B1:1–9
 glacial–interglacial changes, 108B22:390;
 146B(2)19:257–264
 Lima Basin C, 112B9:141–142, 153; 39:597
 marine vs. terrestrial sources, 112B35:551–552
 microbial biomass, 169B3:1–19
 molecular composition, 112B34:540–543;
 155B34:541–549
 molecular stratigraphy, 108B22:387
 nomenclature, 175B5:23–26
 Oman margin, 117A2:28; 11:353
 organic carbon weight, 112B9:137
 organic matter, 160B3:34; 21:267–268; 22:280
 organic richness, 112B35:549–550
 Owen Ridge, 117A2:28; 9:237
 Peru margin, 112B34:540–541
 Pisco Basin W, 112B9:141–142, 153
 polar and apolar fraction, 160B23:289, 294–295
 principal component analysis, 108B22:389–390;
 112B35:550–551
 pristane/phytane ratio, 107B34:560
 sediments, 128A5:324; 139A5:124; 139B15:331–336;
 150A6:98; 155B34:539–553; 157B21:368
 Site 680, 112B9:141–142, 145, 150, 153
 Site 681, 112B9:141–142, 153; 39:597
 Sites 798–799, 127/128B(1)38:669–671
 total fraction, 112B39:602–604
 Trujillo Basin, 112A16:547, 549; 112B39:597
 unsaturation index vs. depth, 108A3:127; 108B22:390
 upwelling, 108B20:351, 356; 22:387; 112B39:592
 vs. total organic carbon, 202A11:17
 See also amyryns; amyrones; chlorophyllinite; choles-
 terol; diasterenes; fatty acids; glycolipids;
 hopenes; *n*-fatty acids; phosphatidylmethyleth-
 anolamine; phospholipids; steroids
lipids, apolar fraction, chromatograms, 175B10:25
lipids, Archaea, sediments, 205B8:6–11
lipids, intact membrane, black shale, 207B12:1–11
lipids, intact polar
 black shale, 207B12:1–11
 structure, 207B12:7–9
lipids, marine
 sapropels, 160B21:268
 sediments, 175B10:7–13
lipids, marine and terrigenous, sediments, 184B18:1–16
lipids, phosphatidylcholine, bacteria, 207B12:4
lipids, polar, lithofacies, 155B34:551
lipids, terrestrial, sapropels, 160B21:265
lipids, terrigenous, sediments, 175B10:5–7
liptinite
 coal, 180B10:10–11, 13
 Broken Ridge, 121B24:472–473
 dispersed organic matter, 180B10:10
 mud, 131B30:382–383
 photomicrograph, 180B10:31, 33
 reflectance, 180B10:6
 sediments, 105B13:189; 141B9:125; 143B12:184;
 157B21:367; 164B5:50–56
 thermal maturity levels, 127/128B(1)38:669
 vs. hydrogen index, 143B12:188
liptodetrinite
 coal, 180B10:10–11
 photomicrograph, 180B10:30, 35
 sediments, 143B12:183; 152B24:285
 Sites 798–799, 127/128B(1)38:670
liquefaction, Pleistocene lake sediments, 169S_A2:17
liquid limit, vs. plasticity index, 164B40:424; 204B12:19
liquid line of descent
 alteration, 127/128B(2)58:911
 Atlantis Bank, 118B4:95–101
 attributes, 118B4:82–83
 basaltic andesites, 135B32:557–563
 basalts, 152B30:363, 365–366
 fractional crystallization, 135B26:478–479
 gabbros, 118B4:75
 graphic plots, 135B27:502–503
 liquid immiscibility, 118B5:96–98, 104, 119
 melting, 118B4:98; 127/128B(2)53:863
 mid-ocean-ridge basalts, 127/128B(2)54:870
 mineral composition, 118B2:27
 olivine tholeiitic basalts, 127/128B(2)53:864
 petrography, 118B4:90
 Site 794, 127/128B(2)54:869–882; 83:1339
 Site 795, 127/128B(2)58:918; 83:1338
 Site 797, 127/128B(2)54:869–882; 58:920
liquidization, postdepositional, 146A(1)7:317–318
liquids
 crystallization, 176B8:5–14
 See also mineral-liquid disequilibrium
liquidus temperature
 vs. magnesium number, 176B8:19
 vs. silica, 176B8:21
 vs. titanium oxide, 176B8:21
litharenite
 Galicia margin W, 103A9:223
 lithology, 149A4:58–59; 160A11:400
 mud breccia, 160B46:601

- petrography, 160B45:577
- Sardinian margin, 107B12:175
- See also* sandstone
- lithic clasts. *See* clasts, lithic
- lithic component
 - lithology, 183A5:176
 - provenance, 149B11:276
 - volcaniclastics, 180B8:5–9
- lithic fragments
 - histograms, 210B2:28
 - lithology, 178A4:9; 183A8:6; 200A3:15–19; 201A9:7–9; 210B9:13–14
 - petrography, 161B3:39, 41–42, 46
 - photomicrograph, 161B3:54; 198B16:23
 - sand, 161B3:52; 168B2:54–56; 190/196B3:8
 - sandstone, 210B2:4–5
 - sediments, 146A(1)6:249, 253
 - volcaniclastics, 197A3:19
 - vs. age, 155B17:317; 177B(synthesis):47
 - vs. depth, 178B13:12; 189A6:75
 - See also* quartz-feldspar-lithic fragments (QFR) diagram
- lithic fragments, basaltic, photograph, 135A(1)8:371
- lithic fragments, carbonate, photomicrograph, 161B1:18
- lithic fragments, tachylitic, photomicrograph, 161B1:18
- lithic fragments, volcanic
 - classification, 126B9:140
 - microlites, 126B9:141–143, 153–154
 - tachylite grains, 126B9:144
 - winnowing effects, 126B8:144, 147
- lithic sandstone. *See* sandstone, lithic
- lithic wackes, mud breccia, 160B46:601
- lithification
 - accretionary complexes, 134A9:250
 - biostratigraphy, 182A1:31
 - carbonates, 144B13:258–261
 - causes, 121B13:267–268
 - décollement structures, 159B3:29
 - deformation, 160A7:180, 182; 8:238–242
 - degassing, 180B16:5
 - deposition, 166A9:242–243
 - domains, 190A5:12
 - Islas Orcadas Rise, 114A9:490, 509
 - lithology, 146A(1)4:62, 64, 66–67; 164A6:110, 182; 165A5:238–239, 243; 167A(1)16:468; 182A1:39; 186A4:20–21; 5:16–17; 198A3:17–18
 - magnetization, 133B50:753
 - Meteor Rise, 114B1:17
 - ooze, 130A8:305–307
 - paleotemperature, 192B2:5
 - photograph, 189A7:64; 205A5:54
 - Pigafetta Basin, 129B3:91, 95
 - pore water, 210A3:98
 - sediments, 141A7:185; 171B_A4:152; 192A3:18–21; 198A1:37–38; 6:4–5
 - Site 698, 114A5:94
 - structural domains, 180A9:29–31
 - temperature, 159B8:74–76
 - transform faults, 159A9:302–303
 - well-logging, 133B45:679–680; 186A4:55
 - See also* diagenesis; synlithification
- lithification, incipient, sediments, 141A8:280
- lithification front, vs. depth, 165A5:259
- lithified layers, seismic profiles, 175A16:498–500, 503
- lithiophorite
 - lithology, 208A6:9
 - X-ray diffraction data, 208A5:37; 6:46
- lithium
 - alkalinity, 166B9:103
 - alteration, 115B8:88; 127A7:364; 127/128B(2)79:1266; 169A5:221; 169B10:19; 186B14:10–11; 193B1:19
 - biogenic silica, 127A5:205
 - black shale, 207A4:26
 - brine aquifers, 207A8:28–29
 - carbon dioxide reduction zone, 188A3:46
 - change through time, 209B5:20–23
 - chemical reactions, 150X_B24:338–339
 - concentration, 131A6:128–138
 - deformation, 205A5:33
 - diagenesis, 180A9:42
 - diffusion, 189A5:49
 - dissolution, 127A7:364; 162A3:76; 166B9:105; 209B5:18; 6–10
 - evaporites, 160A4:69; 5:113; 161B33:430–431
 - gabbros, 176B8:4–14
 - geochemical controls on pore water composition, 166B9:105–108
 - geochemical cycles, 205B6:11
 - hydrothermal fluids, 139B20:399, 401
 - jasperoids, 193B9:5
 - lateral flow, 160A8:250; 9:313
 - metasedimentary rocks, 152B10:135–137
 - oceanic crust age, 185B1:15
 - opal-A/opal-CT transition, 127/128B(2)79:1266
 - organic matter, 161A6:236
 - Paleocene, 130A10:508
 - pore water, 127/128B(2)79:1272; 129B14:269–275; 130A8:326; 131A6:163, 166–168; 131B31:390; 138A(1)10:228; 11:300; 12:357; 143A6:136; 144A3:67–68; 4:129; 5:179; 6:232; 8:302; 10:366; 145A3:54; 4:98; 5:153; 7:313; 8:353–354; 146B(1)25:377–378; 30:432–435; (2)25:331; 154A4:93; 5:181; 6:249; 7:304; 8:359, 361; 154B28:436–438; 156A6:149–150; 156B12:165, 167; 157A7:356–358; 8:417; 160A12:437; 14:485; 161A4:85; 6:235; 7:321; 8:379; 9:405; 162A4:116; 6:195; 7:247; 8:275; 9:309–310; 10:362; 165A3:75; 4:168; 5:260–261; 166A6:93; 7:161–162; 8:191; 9:251, 267; 10:313; 166B9:102–104; 167B32:343; 169A3:116; 4:171–175; 5:218; 6:274–281; 171B_A3:77; 4:144; 5:208–210; 6:286–287; 7:334; 177A3:12; 4:17; 5:21; 6:14; 180A5:31, 33; 6:54–55, 58; 7:21; 31; 9:39; 12:37, 39; 181A3:23; 4:20; 5:21; 6:30; 7:39–40; 8:32; 182A5:19; 7:21; 8:24; 9:19; 10:24; 2:20; 184A4:22–23; 5:19; 6:14; 7:19; 8:8–9; 9:23; 184B13:3, 11; 186A1:14; 5:26; 186B14:5–6; 188A4:30; 5:24; 189A3:43–44, 161; 4:21, 60; 5:48, 158; 6:52, 166; 7:45, 140; 193B4:4; 194A3:15; 195A3:33, 35–37; 195B1:8; 198A3:36; 4:27; 5:28; 6:25–26; 7:24; 8:22; 9:30; 199A8:16;

- 9:10; 10:16; 12:26; 14:18; 202A4:15; 5:14; 6:15;
9:19; 10:18; 11:16; 12:16; 13:14; 204A4:15; 5:8;
6:11–12; 9:12; 10:15; 205A4:47; 5:31–32; 6:17;
206A3:40; 207A8:28; 208A3:21; 4:19; 5:15; 6:23;
7:22; 8:22
- reaction zones, 137/140B13:147–150
- recrystallization, 138A(2)13:699
- rock-water reaction zone, 188A3:46
- seawater-peridotite mud interaction, 195B4:6
- sediments, 130A7:254; 156A7:232–234; 166A11:363–
364; 166B17:186–188; 167A(1)4:75; 5:105;
8:193; 10:261; 11:296; 12:329; 13:368; 14:406;
15:447; 16:475; 169S_B1:40; 182A4:30–31;
186A4:39; 204A3:17–18
- seismic Horizon A, 204A6:12, 43; 9:12
- Site 794, 127A4:109
- Site 795, 127A5:205
- Site 796, 127A6:280–281
- Site 797, 127A7:364, 371
- Site 798, 128A4:174–175, 184
- Site 799, 127/128B(1)34:611; 128A5:318, 332
- Site 803, 130A5:138
- Site 804, 130A6:202
- Sites 849 and 850 comparison, 138A(2)15:855
- Sites 1244 and 1246 comparison, 204A5:31
- Sites 1245 and 1250 comparison, 204A9:49
- Southern Ocean, 114B39:721
- sulfate reduction zone, 188A3:45
- volcanic ash, 180A9:43; 185A4:28–29
- vs. age, 154A9:439
- vs. calcium, 189A7:86
- vs. chloride, 139B22:436; 201A8:38; 207A4:59
- vs. chloride and bromide, 160A5:115
- vs. depth, 134B8:113, 117–118, 124–126; 135B7:116;
136B6:78–79, 82–83; 137/140B13:145;
138A(1)9:161; 10:233; 11:299; 12:361;
(2)13:712; 14:777, 780; 16:938; 17:1000;
18:1049; 19:1085; 139B22:436; 43:690; 49:749–
750, 755; 141A8:281; 10:406–407; 143A6:139;
144A3:73; 4:130; 5:182; 10:368; 145A3:72;
4:105; 6:244; 7:321; 8:361; 146A(1)6:270;
146B(1)10:179, 184; 30:437; 148B10:137;
34:422; 37:464; 150X_B24:334; 152A8:102;
11:238; 12:272; 152B25:299, 301; 154A4:103;
5:184; 6:256; 7:305; 8:381; 156A6:149; 7:240;
156B12:165, 168; 13:179, 181; 157A7:365;
8:419; 160A4:79; 5:114; 7:190; 8:253; 9:312;
10:336; 11:394–396; 12:436–437; 14:487;
161A4:92; 5:152; 6:260; 7:332; 8:387; 9:412;
161B33:425–427; 162A3:80–81; 4:119; 5:162;
6:196; 7:248; 8:281; 9:318; 10:374; 165A3:76;
4:168; 5:261; 166A6:94; 7:163; 8:189; 9:253;
10:314; 11:363; 166B9:103, 106; 167A(1)5:110–
111; 6:148; 7:170; 8:204; 10:265; 11:302;
12:339; 13:371; 14:414; 15:447, 456; 16:480;
168B9:107–114; 169A3:116; 4:177; 5:220; 6:280,
282; 171A_A5:58; 171B_A3:84; 4:147; 5:217;
6:296; 7:341, 357; 177A3:33; 4:48; 5:51; 6:43;
7:34; 8:50; 9:41; 180A5:83; 6:163; 9:115; 12:119;
181A3:54; 4:40; 5:46; 6:73; 7:93–94; 8:75;
182A4:64; 5:45; 6:28, 68; 7:49; 8:53; 9:43; 10:54;
11:31; 12:45; 184A4:59; 5:57; 6:38; 8:23; 9:68;
185A4:116; 186A4:129; 5:74; 186B14:18–19;
188A3:124, 126; 4:76; 5:66; 189A1:89; 3:94;
4:39; 5:93; 6:106; 7:85; 195A3:116; 4:135;
195B9:9; 198A3:95; 4:66; 5:66; 6:59; 7:55; 8:53;
199A1:66; 8:35; 9:26; 10:39; 11:64; 12:69; 13:53;
14:38; 15:30; 202A3:36; 4:48; 5:42; 6:47; 7:55;
8:67; 9:63; 10:58; 11:53; 12:63; 13:51; 204A3:59;
4:61, 67; 5:28, 31; 6:39, 43; 7:36; 8:48; 9:46, 49;
10:52, 54; 205A1:51, 62; 4:70, 147; 5:45, 84;
205B1:44; 6:22; 206A3:149; 207A3:57; 4:58;
5:48, 68; 6:67; 7:57, 63; 8:56, 59
- vs. loss on ignition, 148B10:140
- vs. magnesium, 137/140B13:146; 139B20:403;
169A3:118; 4:172, 178
- vs. potassium oxide, 148B10:141
- vs. rubidium, 139B20:408
- vs. silica, 128A4:185
- vs. silica/magnesium oxide ratio, 195B4:30
- vs. strontium, 166B9:103–104
- vs. subbottom depth, 141A6:120; 7:217
- See also* boron/lithium ratio
- lithium, dissolved
- amount through time for cultures, 209B5:28–30, 35
- pore water, 201A8:15, 17; 9:14; 10:14; 11:14
- vs. depth, 169S_A2:56, 59; 201A1:50; 2:33; 7:15, 47;
8:36; 9:39; 10:40
- vs. dissolved strontium, 138A(2)16:939
- lithium/calcium ratio
- foraminifers, 208B1:54
- pore water, 206A3:40
- seawater, 208B1:19–20
- vs. depth, 189A6:106; 206A1:68; 3:150
- vs. fluoride, 114B39:721
- lithium/chloride ratio
- pore fluids, 146B(1)30:432–435
- pore water, 207A6:32
- sediments, 182A4:31
- vs. calcium/chloride ratio, 207A6:71
- vs. depth, 146B(1)10:179, 184; 25:377; 160A8:255;
11:396; 160B44:572; 182A8:54; 189A3:95;
204A3:62; 207A6:68
- lithium fluoride, pore water, 131B31:396
- lithium isotopes
- hydrothermal alteration, 205B1:17–18; 5:5–7
- pore fluids, 152B25:294, 302–304; 205B5:20
- seawater, 208B1:19–20
- vs. depth, 152B25:303; 205B5:18
- lithium/magnesium ratio
- pore water, 206A3:40
- vs. depth, 206A1:68; 3:150
- lithium/potassium ratio, Southern Ocean, 114B39:721
- lithium/rubidium, vs. rubidium/cesium, 139B20:408
- lithium/strontium ratio
- diagenesis, 166B9:106
- vs. depth, 166B9:107
- lithoclasts
- lithic arenite, 195A4:87
- lithology, 133A(1)17:779; 166A6:77, 80; 7:154–156;
8:178; 9:239–241; 10:295–297; 11:350–355;

- 180A5:13; 6:23–24; 7:10–11; 12:14–15, 17, 21;
180B6:13; 182A6:9; 194A6:5; 7:10–11
mud breccia, 160B46:598, 600
outer perimeter ridges, 144B15:304
petrography, 160B36:456; 45:577, 579
petrography and mineralogy, 160B36:455
petrology, 157B16:272–273
photograph, 166A7:158; 8:204; 10:299
photomicrograph, 173A4:79; 180A7:32–33; 8:56, 59;
195A3:72
sedimentation sources, 180A6:34–35
solution porosity, 160B37:474
stylolites, 130B26:445–446
textures, 174A_B3:4, 9
turbidites, 166B5:50–53, 57–60
See also clasts
lithoclasts, phosphatized
 lithology, 194A6:3
 photograph, 194A6:33
lithodensity logs
 Lau Basin, 135A(1)10:551–552
 Sites 1218 and 1219 correlation, 199B2:28
 temperature, 151A5:92
 thermal conductivity, 139B32:547–552
 vs. depth, 160A6:144–145; 161A4:101–102; 5:162–
 163; 6:267–268; 7:335–337, 340; 9:415–416;
 178A5:84; 180A5:101
 See also neutron lithodensity porosity difference
lithodensity tool (LDT), 102A3:109, 112
lithofacies
 age, 165B9:151
 alteration, 169A6:265–268
 aluminum/(aluminum + iron + manganese) vs. iron/
 titanium ratio, 129B1:24
 basement, 133B37:535–540
 Berriasian–Valanginian interval, 129B32:598
 burrows, 128A4:140–141
 Cape May Formation, 174AXS_A7:40
 carbonates, 133B4:57–60; 21:292–299; 25:354;
 143B30:471–493; 144B13:264–267; 16:316–322;
 17:339–359; 51:899–900; 161B6:78; 194A1:5–6,
 50–54
 Cenozoic, 151A13:409–411; 174A_A1:9–10
 characteristics, 192A4:117; 5:110
 clay mineralogy, 156B1:6
 composite section, 188B12:15
 composition, 128A4:140; 135B6:88–92; 149B40:741–
 754; 150B11:223
 coralline algae, 133B5:67–71
 core-seismic integration, 155A6:116–117
 cores, 167B25:278–280
 correlation, 150B12:233; 161B4:67; 174AXS_A5:17–
 42; 190A1:49–51
 couplet thickness, 128A4:140
 Cretaceous, 129B32:579–581; 143A6:124–125;
 143B9:120–124
 Cretaceous/Tertiary boundary, 165A4:151
 cycles, 128A4:140–142; 161A5:133; 161B1:12–14, 16–
 17; 188A3:54
 deposition, 138B29:629–633; 144B12:233–253;
 18:361–380; 149A4:49; 149B45:685–704;
 155B40:611–651; 43:663; 162B17:233–246;
 178A9:6
 depth intervals, 192A3:149; 5:110
 diamict, 119B6:88–89
 dipmeter-microresistivity logs, 129B6:155, 166–167
 distribution, 169A3:59
 domains, 190A9:6–9
 environment, 143A7:203–207; 8:278–280
 evolution, 131B27:331–341; 194B5:17–18
 fanglomerate, 160B43:548–562
 fine-grained turbidite, 155A4:79–108
 foraminifers, 127/128B(1)12:200; 133B19:276–280
 gamma rays, 189B1:30
 gateway history, 189B1:8–11
 geometry, 133B24:327–351
 glaciation, 141A8:253
 grain size distribution, 119B6:89–90, 94
 graphic logs, 188A3:85–88; 5:40
 hemipelagic clay, 204B11:8
 ice-rafted debris, 178B10:5–8, 19
 Japan Sea, 128A1:14
 Jurassic, 129B32:579–581
 Jurassic–Lower Cretaceous interval, 129B30:531–532
 kerogen-rich and kerogen-lean subfacies, 171B_A3:81
 Kw sequences, 174AXS_A7:49, 51
 laminated diatom ooze, 138B31:656–657
 laminations, 128A4:140
 late Miocene, 160B33:434; 180B(synthesis):9
 laterite-derived facies, 152B9:117
 limestone, 143A8:285; 143B31:512–513, 516–518
 lithology, 133A(1)5:150–151; 144B45:774, 776–781;
 146A(1)4:70–71; 5:138–139; 149A5:125;
 150X_B2:16–22; 160A10:340; 162A3:55, 58, 61,
 64–65; 6:181, 184; 166A8:179–180;
 166B16:170–172; 174AXS_A6:19–48; 7:11–23;
 178A4:4–13; 5:4–12; 8:3–9; 182A1:10; 10:12;
 182B9:4–7; 183A6:70; 188A3:11–21, 175; 5:8–
 11; 188B14:6; 190A8:5; 192A4:5–8; 6:7–8;
 195A3:11–12; 4:11–14
 lower Callovian, 129B32:585
 Lower Cretaceous, 129B32:592, 595; 149B36:578–580
 lower Pliocene, 178A6:28
 marl, 165B7:131
 mass flow units, 160B37:469–471
 mass transport deposits, 150B11:195–210
 Mesozoic, 129B32:580
 Messinian–Pliocene interval, 160B36:458–462
 mineral assemblages, 131B14:177; 161B2:21–36
 Miocene neritic carbonates, 133B4:59
 models, 144B12:236–237; 174AXS_A(summary):24–
 26; 188B12:13
 mud breccia, 160B46:600
 nearshore sedimentation, 174AXS_A3:57–58
 obliquity, 128A1:35
 occurrence, 128A1:27
 oolites, 143B8:111–113
 ooze, 133A(1)12:463
 organic carbon, 128A4:125, 177
 organic matter, 128A4:140; 131B5:59–61; 164B5:54–
 55
 origin, 128A4:158; 5:283

outer shelf, 133B24:327–351
paleoceanography, 128A4:121–122
paleoenvironment, 160B36:453–463
Paleogene, 159B32:421–423
patterns, 175A16:493, 503
petrology, 157B27:450
photograph, 138B29:639; 143B10:158–159;
160B40:552–553; 171B_A3:80; 174AXS_A2:57–
58; 178A4:54–60; 5:46–55; 6:31–34, 37–40;
9:45–50; 188A5:53; 188B12:11–12; 192A5:36,
38–39
photomicrograph, 182B9:11
physical properties, 131B10:137; 190A1:32–33
Pliocene–Pleistocene interval, 161B4:57–68; 170B6:2
principal results, 188A1:20–21
Quaternary, 146B(2)22:295–308; 27:347–351
reflectance, 178B21:1–22; 188B12:7
sand/mud ratio by type, 119B6:95–96
sea level changes, 194B5:18–20
sedimentation, 141B31:380–395; 166A9:267; 189A1:6
sediments, 131A7:280–281; 141B6:89–92; 31:390–
393; 146B(2)8:114–115; 160B47:613; 175B(syn-
thesis):62; 178A1:14–15; 9:6–9; 190A1:26–27
seismic data, 131B7:85; 175A16:503; 178B22:15
sequence stratigraphy, 135B3:25–27; 143B10:133–
159; 150B10:171–187; 174AX_A1:15–35;
174AXS_A(summary):7
shallow-water environment, 144B14:275–283
Site 798, 127/128B(1)10:156; 128A1:35; 4:121–122,
124, 137, 195–196
Site 799, 128A5:259, 282–284, 293
Site 801, 129A3:102–103
structure, 178A4:57; 5:48
sulfides, 169A3:67–71
summary, 178A1:43; 6:41; 181A1:46; 189A1:83
tectonics, 150X_B1:5–7; 14:173; 159B11:111–123;
160B32:403–417
thicknesses and recovered percentages, 119B6:88
Tithonian–Berriasian interval, 129B32:594
toe-of-slope, 166A10:329
transitions, 135B6:94–98
trench wedges, 131B2:16–17
turbidites, 155B2:7–33; 169A3:53; 173B6:1–11
upper Callovian, 129B32:586
Upper Cretaceous interval, 174AXS_A6:59
Upper Jurassic, 129B32:587
Upper Jurassic–Lower Cretaceous interval,
129B32:604
upper slope, 166A8:205
upper Tithonian, 129B32:590
uppermost Bathonian, 129B32:584
upwelling, 175A16:487–504
velocity, 190A1:32–33
vertical sequences, 129B6:159–160
volcaniclastics, 192A1:75
volcanism, 193B1:9–11
volcanogenic sediments, 141B12:170–172
vs. core recovery, 131A6:254
vs. depth, 134A11:332; 143B7:106; 146A(1)4:72–74;
5:149; 6:248–249; 159B25:286, 288, 290;

160B38:490; 188B1:39; 192A1:52; 195A4:70–72;
196A1:24; 4:32
well-logging, 128A1:34; 4:125, 185; 133B23:317–324;
144A6:240–244; 144B17:351–359; 194A7:35–
36; 196A3:33–36
See also backreef facies; basin facies; biofacies; biotur-
bated facies; black clay facies; burrowed facies;
calcareous facies; chaotically stratified facies;
chemofacies; “chlorozoan” facies; clastic-turbid-
ite facies; color bands; contourites; coralline al-
gal facies; diamict facies; diatomaceous facies;
distal slope facies; euphotic shelf facies; facies;
glacial–interglacial facies; graded diamict facies;
grainstone facies; gravity flow facies; gray facies;
green facies; hemipelagic facies; ichnofacies; im-
age facies; inner ridge facies; intertidal facies;
Lago-Mare facies; laminated facies; larger fora-
minifer-coral facies; laterite-derived facies; mac-
rofacies; mass transport facies; massive diamict
facies; massive facies; microfacies; middle slope-
basin facies; neritic facies; organic facies; outer
ridge facies; palynofacies; pelagic facies; petrofa-
cies; platform facies; prism toe facies; prodelta
deposits; red-algal facies; rubble facies; sand
shoal facies; seismic facies; shelf facies; slope-
apron facies; slope-basin facies; slope to prism
transition facies; stratified diamict facies; sub-
tidal facies; terrigenous facies; trench-basin
transition facies; trench facies; trench-fill facies;
trench-slope facies; trench-wedge facies; turbid-
ite facies; upper slope-basin facies; volcanoclastic
facies
lithofacies, deltaic, deposition, 194B2:5
lithofacies, organic, Neogene, 144A3:70
lithofacies, postdrowning
atolls, 144B14:285
guyots, 144B45:780
lithofacies, turbidite-carbonate
change to pelagic carbonates, 117A3:39
Site 721, 117A3:39
Site 731, 117A19:594
thickness and rate of uplift, 117A3:39–40
lithofacies/color ratio, carbonates, 160B34:439
lithofacies models
anastomosed river sedimentation, 174AXS_A4:37
delta plain sedimentation, 174AXS_A4:38
paleoenvironment, 174AXS_A4:10–12
lithogenic component
basement, 161A6:224–226
fine-grained, sediments, 144B54:960, 968
sediments, 144B55:974–976
Site 902, 150A6:70, 72–73
Site 903, 150A7:136–140
Site 904, 150A8:212–213, 215
Site 905, 150A9:261–264
Site 906, 150A10:314–315
vs. depth, 144B54:956, 958, 962; 55:977–984
See also carbonate content/lithogenic sand ratio
lithologic contacts
drilling, 179B1:1–17
conglomerate–diabase, 180A6:213

- gabbros, 179A4:51
paleoenvironment, 174AX_A1:18, 29–30, 32
photograph, 179A4:105, 131; 208A4:42
vs. depth, 135A(1)4:136
well-logging, 140A2:150–151
See also planar contacts
- lithologic motifs**
composition, 173A7:168–177
deposition, 173A8:234
distribution, 173A7:169
photograph, 173A7:170–173; 8:230–232, 236
- lithologic units**
age, 149A5:120; 194A4:107; 5:3–8, 98; 6:85; 7:138;
8:77; 9:68; 200A3:155
basalts, 168A5:113–114; 191A4:27–29; 192A1:19–21
basement, 130B4:51; 131A6:194; 167A(1)4:57;
168A6:169–175; 183A1:17–22; 6:4–10;
185A3:10–12; 4:11–17, 22–23, 93–95, 158;
192A3:79; 196A3:30–31; 197A3:154; 4:45; 5:8–
18, 39, 95–96; 203A1:9–13
biostratigraphy, 159B35:482–487
bulk carbonate content, 194B9:1–9
bulk mineralogy, 196A3:19–20; 4:16
Cape May Zoo Site, 174AXS_A7:11–23
Cenozoic, 129B4:119; 131B26:315–316; 134B1:7–8
Central Hill, 169A6:267
chemical stratigraphy, 176B(synthesis):14–17
clays, 152B4:40–43; 204B11:1–19
composition, 135B22:367–368; 178A1:6–8; 5:45
core-log correlation, 171A_A3:28–29; 5:62–63; 6:84–
85; 7:100; 181A7:45–46; 189A7:49–50
core-seismic integration, 155A6:117; 161A6:278;
210B14:1–6, 11–16
correlation, 141B31:381; 171B_A3:53; 4:102; 5:178;
174AXS_A5:63; 182A6:86; 204B2:18; 7:9;
210A3:111–112; 210B7:13
Cretaceous, 143B10:133
definition, 173A6:127; 7:168–177; 8:225–241; 9:269–
273
deformation, 160A7:179–182; 8:234–235, 238–242
deposition, 144B12:248–253
depths, 145A7:307; 183A5:179; 192A3:149; 6:103
gabbros, 179A4:31–34; 179B(synthesis):8–9; 2:4–5
geochemistry, 131B16:200; 142B2:17–19
grain size, 146B(1)1:9–11
heavy minerals, 146B(1)2:39
igneous rocks, 135A(1)4:131–150; 9:433–448;
139B6:93; 148A2:37–38; 3:129; 176A1:52;
3:261–263; 176B6:65; 183A1:87; 191A1:43;
206A1:26–28; 3:367; 206B1:15
inorganic geochemistry, 207B8:1–37
interhole correlation, 139A7:299; 8:448
Jurassic–Lower Cretaceous interval, 129B30:531–532
light absorption spectroscopy, 199A8:57
lithofacies, 131B27:333–336; 133A(1)3:59–69; 4:84–
91
lithology, 149A6:152–154; 193A3:265–275
microfabrics, 185B9:7–9
Norwegian–Greenland Sea, 151A13:401
petrography, 134A11:337–338; 168A4:63
petrology, 139A5:130, 132
photograph, 134A9:191; 146A(1)4:65–68;
171B_A4:110–117; 5:179, 183, 186–188; 6:254–
262; 173A8:236; 178A4:54–60; 5:46–55; 8:38–
39; 197A3:53, 60; 199A12:46–49
physical properties, 133A(1)15:641–642; 16:715, 717;
159B23:241–249; 201A6:29–31
principal results, 188A1:8–17, 20–21, 24–25, 29–30;
188A4:9–14; 5:8–11; 192A1:11–14, 21–26
reflectance, 188B12:7
revision, 127/128B(2)78:1229–1233, 1250
sand and silt percentage, 139A7:302
sedimentary overburden, 206A3:22–26, 338
sedimentation, 164A6:146–147
sediments, 135B11:164; 183A1:16
seismic facies, 188B14:8–10
seismic stratigraphy, 133A(1)15:649–651; 152B3:29–
34
sequence boundaries, 174AXS_A7:55
Site 672, 171A_A3:26–27
Site 676, 171A_A6:84
Site 735, 176A3:13–15
Site 742, 188B8:19
Site 794, 127A4:90–94; 127/128B(1)39:679
Site 795, 127A5:186–190; 127/128B(1)1:4; 39:679;
41:706
Site 796, 127A6:261–266
Site 797, 127A7:340–346; 127/128B(1)1:4–5; 39:679
Site 798, 127/128B(1)10:156; 39:697; 62:973;
128A4:124, 137–138
Site 799, 127/128B(1)6:76–77; 10:158–160; 39:697;
62:974; 128A5:240–244, 256–265
Site 800, 129A1:39
Site 801, 129A3:99–108, 137
Site 802, 129A4:176–187
Site 804, 130A6:182–187
Site 808, 190A4:106
Site 811, 133A(1)4:87–88
Site 812, 133A(1)5:144–149
Site 813, 133A(1)6:181–183
Site 814, 133A(1)7:206–208
Site 815, 133A(1)8:254–260
Site 816, 133A(1)9:305–310
Site 817, 133A(1)10:351–363
Site 818, 133A(1)11:422–427
Site 819, 133A(1)12:460–462
Site 820, 133A(1)13:512–516
Site 821, 133A(1)14:574–578
Site 822, 133A(1)15:621–627
Site 823, 133A(1)16:686–700
Site 824, 133A(1)17:776–779
Site 825, 133A(1)4:91–94
Site 826, 133A(1)18:808–809
Site 827, 134A7:101–108
Site 828, 134A8:144–149
Site 829, 134A9:186–194
Site 830, 134A10:265–266, 268–273
Site 831, 134A11:325–333
Site 832, 134A12:400–409; 134B19:377–380
Site 833, 134A13:490–497; 134B19:380
Site 834, 135A(1)4:98–104
Site 835, 135A(1)5:191–201

- Site 836, 135A(1)6:255–260
Site 837, 135A(1)7:295–305
Site 838, 135A(1)8:346–356
Site 839, 135A(1)9:410–414
Site 840, 135A(1)10:500–512
Site 841, 135A(1)11:585–595
Site 842, 136A4:39–41
Site 846, 138A(1)11:269–280
Site 847, 138A(1)12:338–344
Site 848, 138A(2)13:681–683
Site 849, 138A(2)14:740–741, 743
Site 850, 138A(2)15:811–813
Site 851, 138A(2)16:896–897
Site 852, 138A(2)17:971–972, 974
Site 853, 138A(2)18:1027–1028
Site 854, 138A(2)19:1065–1066
Site 856, 139A6:173–174, 176–180
Site 857, 139A7:297–300
Site 858, 139A7:446–457
Site 859, 141A6:81–84
Site 860, 141A7:163–165, 167, 169–170
Site 861, 141A8:246–248, 251
Site 862, 141A9:306–315
Site 863, 141A10:349–358
Site 865, 143A2:16–17; 6:121–125
Site 866, 143A2:18–20, 22; 7:193–203
Site 869, 143A9:305–310
Site 871, 144A3:47–53
Site 872, 144A4:111, 113–119
Site 873, 144A5:151–159
Site 874, 144A6:212–214, 216, 218–220
Site 877, 144A7:288–295
Site 878, 144A10:337–353; 144B17:342
Site 879, 144A11:417–423; 144B18:371
Site 881, 145A3:41–45
Site 882, 145A4:86–87
Site 883, 145A5:128, 130, 132–133
Site 884, 145A6:216–219
Site 887, 145A8:340–342
Site 888, 146A(1)4:60–62, 64–67
Site 889, 146A(1)5:135–137, 140–142
Site 890, 146A(1)5:144
Site 891, 146A(1)6:247
Site 892, 146A(1)7:308–309, 314–315
Site 893, 146A(2)2:22, 24; 146B(2)9:126–127
Site 897, 149A4:46–62
Site 898, 149A5:118–126
Site 899, 149A6:152–175
Site 900, 149A7:218–223
Site 901, 149A8:264–267
Site 902, 150A6:69–76
Site 903, 150A7:135–149
Site 904, 150A8:210–220
Site 905, 150A9:260–272
Site 906, 150A10:313–319
Site 907, 151A5:60–69; 162A7:227, 231
Site 908, 151A6:117–122
Site 909, 151A7:166–171
Site 910, 151A8:227–231
Site 911, 151A9:275–279
Site 912, 151A10:322–326
Site 913, 151A11:353–360
Site 914, 152A6:57–62
Site 915, 152A7:75–78
Site 916, 152A8:91–94
Site 917, 152A9:113–117
Site 918, 152A11:195–208
Site 919, 152A12:261–264
Site 920, 153A3:48–51
Site 921, 153A4:124–126
Site 922, 153A5:181–182
Site 923, 153A6:218–219
Site 924, 153A7:261–262
Site 925, 154A4:60–66
Site 926, 154A5:156–160
Site 927, 154A6:235–238
Site 928, 154A7:283–285
Site 929, 154A8:341–347
Site 930, 155A6:91–93
Site 931, 155A7:127–130
Site 932, 155A8:178–180
Site 933, 155A9:204–207
Site 934, 155A10:245–248
Site 935, 155A11:277–281
Site 936, 155A12:324–325, 328–335
Site 937, 155A13:386–388, 391
Site 938, 155A14:412–415
Site 939, 155A15:442–444
Site 940, 155A16:466–467, 470
Site 941, 155A17:506–510
Site 942, 155A18:541–545
Site 943, 155A19:571–576
Site 944, 155A20:594–595, 599–603
Site 945, 155A21:637–645
Site 946, 155A22:661–663
Site 948, 156A6:98–100
Site 949, 156A7:202–203; 171A_A5:60, 62
Site 950, 157A4:55, 59–70
Site 951, 157A5:108, 112–113
Site 953, 157A7:329–341
Site 954, 157A8:398, 402–407
Site 955, 157A9:437, 443–448
Site 956, 157A10:501, 507–514
Site 959, 159A5:75–84
Site 960, 159A6:162–174
Site 961, 159A7:226–231
Site 962, 159A8:261–267
Site 963, 160A4:59–60; 5:92–93
Site 965, 160A6:129–130
Site 966, 160A7:160–162
Site 967, 160A8:220–223
Site 968, 160A9:294–296
Site 969, 160A10:339–340
Site 970, 160A11:381–383
Site 971, 160A12:421–430
Site 972, 160A13:452–454
Site 973, 160A14:469–474
Site 974, 161A4:58–64
Site 975, 161A5:118–132
Site 976, 161A6:188–197
Site 977, 161A7:304–309
Site 978, 161A8:357–362

- Site 979, 161A9:393-397
Site 982, 162A4:101, 105-108
Site 983, 162A5:146, 149, 152
Site 984, 162A6:178, 181, 184
Site 985, 162A8:261, 263, 265-268
Site 987, 162A10:350, 353, 355-356
Site 990, 163A5:52-54
Site 994, 164A6:105-110
Site 995, 164A7:179-184
Site 996, 164A8:245-249
Site 997, 164A9:281-284
Site 998, 165A3:53-60
Site 999, 165A4:138-151
Site 1000, 165A5:237-245
Site 1001, 165A6:296-309
Site 1002, 165A7:363-368
Site 1003, 166A6:77-84
Site 1004, 166A7:154-156
Site 1005, 166A8:176-180
Site 1006, 166A9:238-243
Site 1007, 166A10:295-305
Site 1008, 166A11:350-352
Site 1009, 166A11:353-356
Site 1010, 167A(1)4:55-56
Site 1011, 167A(1)5:87-92
Site 1012, 167A(1)6:132-135
Site 1013, 167A(1)7:161
Site 1014, 167A(1)8:180-181, 183
Site 1015, 167A(1)9:225-227
Site 1016, 167A(1)10:245-247
Site 1017, 167A(1)11:288-291
Site 1018, 167A(1)12:318-320
Site 1019, 167A(1)13:357-359
Site 1020, 167A(1)14:393, 395
Site 1021, 167A(1)15:435-438
Site 1022, 167A(1)16:465-468
Site 1033, 169S_A2:20-22
Site 1034, 169S_A2:22-27
Site 1035, 169A3:44-57
Site 1036, 169A4:163-169
Site 1037, 169A5:207-210
Site 1038, 169A6:263-267
Site 1039, 170A3:53-60
Site 1040, 170A4:103-108
Site 1041, 170A5:158-162
Site 1042, 170A6:194-197
Site 1043, 170A7:219-223
Site 1065, 173A4:70-77
Site 1067, 173A6:110, 112-114
Site 1071, 174A_A3:43-58
Site 1072, 174A_A4:104-115
Site 1073, 174A_A5:157-163
Site 1075, 175A3:56
Site 1076, 175A4:89
Site 1077, 175A5:117
Site 1078, 175A6:150, 152
Site 1079, 175A7:179
Site 1080, 175A8:205
Site 1081, 175A9:231-233
Site 1082, 175A10:276-281
Site 1083, 175A11:315-317
Site 1084, 175A12:343-351
Site 1085, 175A13:390, 392-395
Site 1086, 175A14:433-434
Site 1087, 175A15:460
Site 1088, 177A3:4-5
Site 1089, 177A4:6-7
Site 1090, 177A5:5-7
Site 1091, 177A6:5-6
Site 1092, 177A7:4-5
Site 1093, 177A8:7-9
Site 1094, 177A9:6-7
Site 1095, 178A4:4-13
Site 1096, 178A5:4-12
Site 1098, 178A7:3-6
Site 1099, 178A7:6-10
Site 1101, 178A8:3-9
Site 1108, 180A5:7-18; 180B6:14-15
Site 1109, 180A6:7-31; 180B6:9-12
Site 1110, 180A7:7-8
Site 1111, 180A7:9-10
Site 1112, 180A7:10-11
Site 1114, 180A8:4-15
Site 1115, 180A9:6-28; 180B6:5-9
Site 1116, 180A10:4-12
Site 1118, 180A12:4-25; 180B6:12-14
Site 1119, 181A1:11-14; 3:5-11
Site 1120, 181A1:15-18; 4:4-7, 54
Site 1121, 181A5:4-6
Site 1122, 181A6:5-9
Site 1123, 181A7:5-9
Site 1124, 181A8:4-9, 45-48
Site 1125, 181A9:4-7
Site 1135, 183A3:4-7
Site 1136, 183A4:3-6
Site 1137, 183A5:4-7, 13-43
Site 1139, 183A7:4-9
Site 1140, 183A8:3-5
Site 1141, 183A9:5-7
Site 1143, 184A4:8-11
Site 1144, 184A5:6-9
Site 1145, 184A6:4
Site 1146, 184A7:5-10
Site 1147, 184A8:3-4
Site 1148, 184A9:5-11
Site 1150, 186A4:14-22
Site 1151, 186A1:12-13; 5:7-17, 46-47
Site 1152, 187A3:4-7, 28
Site 1155, 187A6:3-5
Site 1156, 187A7:3-5
Site 1157, 187A8:3-7
Site 1158, 187A9:5
Site 1160, 187A11:3-7
Site 1161, 187A12:3-9
Site 1162, 187A13:3-7
Site 1163, 187A14:2-4
Site 1164, 187A15:2-7
Site 1165, 188A3:11-16
Site 1166, 188B8:20
Site 1168, 189A3:10-15
Site 1169, 189A4:6-9
Site 1170, 189A5:10-15, 118

- Site 1171, 189A6:12-19
 Site 1172, 189A7:11-19
 Site 1174, 190A5:7-10, 38, 101
 Site 1175, 190A6:4-8, 27, 69
 Site 1176, 190A7:5-7, 23, 61
 Site 1177, 190A8:5-9, 27
 Site 1178, 190A9:6-9, 29, 75
 Site 1179, 191A1:14; 4:10-16
 Site 1183, 192A3:4-12
 Site 1184, 192A4:4-8
 Site 1185, 192A5:5-6
 Site 1186, 192A6:4-9
 Site 1187, 192A7:3-4
 Site 1189, 193A4:9-11
 Site 1191, 193A6:3-5
 Site 1192, 194A3:5-8, 67
 Site 1193, 194A4:6-10, 101
 Site 1194, 194A5:93
 Site 1195, 194A6:3-6, 78
 Site 1196, 194A7:6-12, 130; 194B5:5-6
 Site 1198, 194A9:3-8, 63
 Site 1199, 194A7:131; 194B5:6-7
 Site 1200, 195A3:11-14
 Site 1201, 195A4:11-14
 Site 1202, 195A5:7-8
 Site 1203, 197A3:7-10, 170
 Site 1204, 197A4:6-9
 Site 1205, 197A5:-7
 Site 1207, 198A3:11-14
 Site 1208, 198A4:9-16
 Site 1209, 198A5:10-13
 Site 1210, 198A6:7-12
 Site 1211, 198A7:8-10
 Site 1212, 198A8:7-12
 Site 1213, 198A9:8-18
 Site 1214, 198A10:5-9
 Site 1215, 199A8:5-6
 Site 1216, 199A9:5-6
 Site 1217, 199A10:6-8
 Site 1218, 199A11:7-10
 Site 1219, 199A12:8-13
 Site 1220, 199A13:6-10
 Site 1221, 199A14:6-9
 Site 1222, 199A15:4-7
 Site 1223, 200A1:61; 3:3-4, 8-29, 55, 141-142;
 200B1:40
 Site 1224, 200B1:7-8; 2:8
 Site 1225, 201A6:8-11
 Site 1226, 201A7:8-13
 Site 1227, 201A8:9-13
 Site 1228, 201A9:7-12
 Site 1229, 201A10:8-12
 Site 1230, 201A11:8-12
 Site 1231, 201A12:7-11
 Site 1232, 202A3:6-9
 Site 1233, 202A4:6-8
 Site 1234, 202A5:5-8, 52
 Site 1235, 202A6:5-9, 57
 Site 1236, 202A7:5-10, 63
 Site 1237, 202A8:7-14, 82
 Site 1239, 202A10:6-10
 Site 1240, 202A11:5-10
 Site 1241, 202A12:6-10
 Site 1242, 202A13:6-9, 63
 Site 1243, 203A3:11-12
 Site 1244, 204A3:4-8
 Site 1245, 204A4:4-10
 Site 1246, 204A5:3-4
 Site 1247, 204A6:3-7
 Site 1248, 204A7:3-6
 Site 1249, 204A8:6-8
 Site 1250, 204A9:4-7
 Site 1251, 204A10:4-9
 Site 1252, 204A11:2-7
 Site 1257, 207A4:5-11, 80
 Site 1258, 207A5:4-9, 89
 Site 1259, 207A6:41, 81
 Site 1260, 207A7:43, 84
 Site 1261, 207A8:41-42; 8:4-9, 79
 Site 1262, 208A3:5-9
 Site 1263, 208A4:6-8
 Site 1264, 208A5:4-6
 Site 1265, 208A6:6-10
 Site 1266, 208A7:5-9
 Site 1267, 208A8:5-9
 Site 1276, 210A1:13-15; 3:21-64
 Site 1277, 210A1:22-23; 4:4-8
 Sites 867-868, 143A2:23; 8:277-278
 Sites 875-876, 144A7:258-267
 Sites 885-886, 145A7:306-307
 Sites 914-917, 152A10:165-173
 Sites 980-981, 162A3:55, 58, 61, 64-65
 smear slides, 188A4:14-15
 spectral gamma ray logs, 150B23:412-415
 statistical analysis, 159B16:165-166
 stratigraphy, 130A9:451-454; 10:501; 209A3:4-5; 5:4-9; 6:3-9; 7:2-4; 9:2-7; 10:3-10
 stress orientation, 204B4:1-14
 structural data, 160B40:520
 sulfur-iron-carbon system, 207B9:4-5
 summary, 130A6:183; 7:270, 273; 171B_A3:51-52;
 4:97-101; 5:173-176; 6:245-262; 7:323-324;
 178A4:121; 5:103; 182A1:17-39; 4:5-12; 5:4-9;
 6:44-46; 7:5-12, 32-34; 8:4-10, 37-38; 9:4-8;
 10:4-12, 38-40; 11:3-7; 12:4-8; 183A3:50; 4:84;
 5:98, 174; 6:177; 7:189; 8:106; 9:124; 183B2:23;
 185A1:22-23; 3:6-7, 69-70; 198A1:8-9;
 206A1:22-23, 111; 210A3:316-317
 Tertiary, 133B20:283-284
 thickness, 157B16:274; 192A5:114
 Transect EG64, 163X_A7:3-4
 Transect EG65, 163X_A6:5-19
 Transect EG66, 163X_A5:3-4
 Transect EG68, 163X_A4:5-11
 Unit 1, 170A6:194-197; 187A3:4-6; 6:3-5; 7:3-5;
 11:3-4; 12:3-8; 13:3-6; 14:3; 15:3-7; 193A3:21-33;
 4:9, 15; 200A3:8-9; 203A3:11; 210A3:21-25, 58-59;
 4:4-6
 Unit 2, 170A6:195-201; 187A3:6-7; 6:4; 7:4-5; 11:4-5;
 13:4-7; 14:3-4; 193A3:21-33; 4:9-10, 15;
 200A3:9; 203A3:11; 210A3:25-30, 59-60; 4:6-8

Unit 3, 169A3:58–61; 187A11:5; 193A3:21–33; 4:10, 15; 200A3:9; 203A3:11; 210A3:30–36, 60–61
Unit 4, 187A11:5–6; 193A3:21–33; 4:10, 15; 200A3:9–10; 203A3:11; 210A3:36–39, 61
Unit 5, 169A3:61–73; 187A11:6; 193A3:21–33; 4:10, 15–16; 200A3:10; 203A3:12; 210A3:39–63
Unit 6, 169A3:73–78; 187A11:6–7; 193A3:21–33; 4:10, 16; 200A3:10–11; 203A3:12
Unit 7, 187A11:7; 193A3:21–33; 4:10, 16; 200A3:11; 203A3:12
Unit 8, 193A3:21–33; 4:10, 16; 200A3:11; 203A3:12
Unit 9, 193A3:21–33; 4:10, 16; 200A3:11–12
Unit 10, 193A3:21–33; 4:10, 16; 200A3:12
Unit 11, 129A4:176–182; 193A3:21–33; 4:10, 16; 200A3:12–13
Unit 12, 193A3:21–33; 4:10, 16; 200A3:13
Unit 13, 193A3:22–33; 4:10, 16; 200A3:13
Unit 14, 193A3:22–33; 4:10, 16; 200A3:13–14
Unit 15, 193A4:10
Unit 16, 193A3:22–33; 4:10–11, 16
Unit 17, 193A3:22–33; 4:11, 16
Unit 18, 193A3:22–33; 4:16
Unit 19, 193A3:22–33; 4:11, 16
Unit 20, 193A3:22–33; 4:11, 16
Unit 21, 193A3:22–33; 4:11, 16
Unit 22, 193A3:22–33; 4:11, 16
Unit 23, 193A3:22–33; 4:11, 16–17
Unit 24, 193A3:22–33; 4:11, 17
Unit 25, 193A4:17
Unit 26, 193A4:17
Unit 27, 193A3:26–33; 4:17
Unit 28, 193A3:26–33; 4:17
Unit 29, 193A3:26–33; 4:17
Unit 30, 193A3:27–33; 4:17
Unit 31, 193A3:27–33; 4:17
Unit 32, 193A3:27–33; 4:17
Unit 33, 193A3:27–33; 4:17
Unit 34, 193A3:27–33; 4:17
Unit 35, 193A3:27–33; 4:17
Unit 36, 193A3:27–33; 4:18
Unit 37, 193A3:27–33
Unit 38, 193A3:27–33
Unit 39, 193A3:27–33
Unit 40, 193A3:27–33
Unit 41, 193A3:27–33
Unit 42, 193A3:27–33
Unit 43, 193A3:27–33
Unit 44, 193A3:27–33
Unit 45, 193A3:27–33
Unit 46, 193A3:28–33
Unit 47, 193A3:28–33
Unit 48, 193A3:28–33
Unit 49, 193A3:28–33
Unit 50, 193A3:28–33
Unit 51, 193A3:28–33
Unit 52, 193A3:28–33
Unit 53, 193A3:28–33
Unit 54, 193A3:28–33
Unit 55, 193A3:28–33
Unit 56, 193A3:28–33
Unit 57, 193A3:28–33

Unit 58, 193A3:28–33
Unit 59, 193A3:28–33
Unit 60, 193A3:28–33
Unit 61, 193A3:28–33
Unit 62, 193A3:28–33
Unit 63, 193A3:28–33
Unit 64, 193A3:28–33
Unit 65, 193A3:28–33
Unit 66, 193A3:28–33
Unit 67, 193A3:28–33
Unit 68, 193A3:29–33
Unit 69, 193A3:29–33
Unit 70, 193A3:29–33
Unit 71, 193A3:29–33
Unit 72, 193A3:29–33
Unit 211, 137/140B11:122–124
Unit 227, 137/140B11:123
Unit I, 129A2:38–39; 3:99; 4:176, 194; 129B2:32, 36; 4:119; 14:268–269; 130A5:107–114; 7:230–232; 8:297–307; 9:375–383; 10:502, 506; 133A(1)3:59–69; 4:84–86; 5:144; 6:181; 7:206–207; 8:254–256; 9:305–307; 10:351, 357, 359; 11:423–427; 12:460; 13:512–514; 14:574–576; 15:621–623; 16:686, 688; 17:776; 18:808; 134A7:102; 8:145; 9:186; 10:266–271; 11:325–326; 12:400–401; 13:490; 135A(1)4:98–101; 5:193–196; 6:255–257; 7:295–297; 8:346; 9:410; 10:500–501; 11:585, 589; 136A4:39; 138A(1)9:124–126; 10:192–198; 11:269–275; 12:339–344; 13:681–683; (2)14:740–743; 15:811–813; 16:896–897; 17:971–974; 18:1027–1028; 19:1065–1066; 139A5:109–110; 6:173; 7:297; 8:446–447; 141A6:81; 7:164–165; 8:246; 9:306–313; 10:349–353; 142A4:58–59; 143A6:121; 7:193; 8:277; 9:305–306; 144A3:47–48; 4:111–116; 5:151–154; 6:212–214; 7:258–259; 8:288–289; 10:338–339; 11:417–422; 144B46:796; 145A3:41–44; 4:86–87; 5:128, 130; 6:216–217; 7:306; 8:340; 146A(1)4:60–61; 5:135–137, 140–144; 6:247; 7:308–315; (2)2:22, 24; 149A4:46–52; 5:118–122; 6:152–155; 7:218–220, 265; 150A6:69, 71; 7:135–141; 8:210–211; 9:260–265; 10:313–316; 151A5:60; 6:117–122; 7:166, 171; 8:227–230; 9:275–277; 10:322–326; 11:353, 356; 152A6:57–60; 7:75–76; 8:92; 9:113–114; 10:165–166; 11:194–196; 12:261–264; 154A4:60; 5:156; 6:235–236; 7:283; 8:341–342; 155A6:91–92; 7:127; 8:178; 9:204; 10:245; 11:277; 12:324; 13:386–387; 14:412; 15:442; 16:466; 17:506–507; 18:541; 19:571–572; 20:594; 21:637; 22:661; 156A6:98; 7:202; 157A4:55, 59–65; 5:108–113; 6:138, 143, 147; 7:329–332; 8:398, 402; 9:437, 443–444; 10:501, 507–508; 159A5:75–77; 6:162–164; 7:226–227; 8:261–264; 160A4:59; 5:92–93; 6:129–130; 7:160–161; 8:220–222; 9:294–295; 10:339–340; 11:381; 12:421–423; 13:452–454; 14:469–471; 161A4:59–64; 5:118–120, 128; 6:188–189, 196; 7:304–305; 8:357–362; 9:393–397; 161B1:5, 7, 11–12; 162A3:55, 58; 4:101, 105–106; 5:146, 149, 152; 6:178, 181, 184; 7:227; 8:261; 9:296;

10:350; 163A3:26; 4:35; 5:52; 163X_A4:6-9;
5:3-4; 6:5-19; 7:3-4; 164A5:69, 75-79; 6:105-
108; 7:179; 8:245-246; 9:281-283; 165A3:53-
54; 4:138, 142-143; 5:237-243; 6:296-300;
7:363-368; 165B4:92; 166A6:77-78; 7:154-156;
8:177-178; 9:238-239; 10:295-298; 11:350-355;
167A(1)4:55; 5:87; 6:132-135; 7:161; 8:180-183;
9:225-227; 10:245-246; 11:288-291; 12:318-
320; 13:357-359; 14:393, 395; 15:435-437;
16:465-468; 168A4:57; 5:109-110; 6:167-169;
169A3:44-53; 4:163-165; 5:207-208; 6:263;
169S_A2:20-23; 171A_A3:27; 5:60; 6:84;
171B_A3:51; 4:97-100; 6:246; 7:323-324;
172A3:37-38; 4:83-92; 5:164-165, 168, 172;
6:254-259; 174A_A3:43-45, 71-73; 4:104-115,
120, 123, 134-135; 5:157-161, 182; 175A9:231-
233; 10:276, 281; 11:315-317; 12:344-346;
13:390, 395; 14:433-434; 15:460; 176B6:3;
177A3:4-5; 4:6-7; 5:5; 6:5-6; 7:4-5; 8:7-8; 9:6-
7; 178A4:4-5, 10-11; 5:4-6, 11-12, 45; 7:4-10;
8:3-4; 178B25:4; 179A4:31; 180A5:7; 6:7-11;
7:7-8; 7:9-10; 8:4-5; 9:6-7; 10:4-6; 12:4-7;
180B6:5, 9, 12; 181A3:5-6; 4:4-5; 5:4-5; 6:5-6;
7:5-7; 8:4-6; 9:4-6; 182A4:5-6; 5:4; 6:4-7; 7:5-
8, 11-12; 8:4-7; 9:4-5; 10:4-6; 11:3-5; 12:4;
183A3:4; 4:3-4; 5:4, 13; 6:4, 23, 35; 7:4-5; 8:3-5;
9:5-6, 12; 184A4:8-10; 5:6-7; 6:4-7; 7:5-7; 8:3-
4; 9:6-7; 185A1:22-23; 3:6; 4:11-12; 186A1:12;
4:15-16; 5:8-9; 188A3:11-12; 4:9-11; 5:8;
188B14:6; 189A3:10-11; 4:6-8; 5:10-11; 6:12-
13; 7:11-13; 190A4:6-7; 5:7; 6:4-6; 7:5; 8:5; 9:6-
8; 191A4:10-12; 192A3:5-7; 4:4-5; 194A3:5; 4:6;
5:3, 6; 6:3; 7:6-7, 10-11; 8:4, 9; 9:3-4, 8;
195A3:11-12; 4:11-12; 5:7-8; 197A3:7-8; 4:6;
5:5; 198A3:12-13; 4:9-12; 5:10-12; 6:7-9; 7:8-
10; 8:7-8, 10; 9:9-10; 10:5, 7; 199A8:5; 9:5-6;
10:6; 11:7; 12:8; 13:6; 14:6; 15:4-5; 201A6:8-11;
7:8-10; 8:9; 9:7-9; 10:8-10; 11:8-10; 12:7;
202A3:6-8, 42; 4:6-8, 64; 5:5-8, 52; 6:5-9, 57;
7:6-7; 8:7-9; 9:7-9, 84; 10:6-10, 77; 11:5-10,
67; 12:6-10, 82; 13:6-7; 204A3:4-5; 4:4; 5:3;
6:3-4; 7:3-4; 8:6-7; 9:4; 10:4-5; 11:2-5;
206A3:22-24; 207A4:5; 5:4-5; 6:4; 7:4; 8:4-6;
208A3:5-6; 4:6-8; 5:4; 6:6; 7:5-6; 8:5; 209A3:4;
5:4, 6-7; 6:3-4; 7:2-3; 9:2-3; 10:3, 5
Unit II, 129A2:38-39; 3:99, 101; 4:176-182; 129B1:14;
2:32-36; 4:119; 14:268-269; 130A5:114-115;
9:383-387; 10:502-506; 133A(1)3:59-69; 4:86-
88; 5:144-146; 6:182-183; 7:207; 8:256-257;
9:307, 309; 10:351-361; 11:427; 12:460-461;
13:514-515; 14:576; 15:623; 16:688-692;
17:776-777; 18:808-809; 134A7:102-104;
8:145-146; 9:186; 10:273; 11:326-329; 12:401-
402; 13:490-493; 135A(1)5:196-201; 7:297-301;
8:348-351; 9:410-414; 10:501, 503; 11:589-590;
136A4:40; 138A(1)9:126-127; 10:198-199;
11:275, 280; 139A6:173-177; 7:297-300; 8:447-
457; 141A6:81-84; 7:165, 167; 8:246-251;
9:313; 10:354-358; 142A4:59-60; 143A6:121-
122; 7:193; 8:277-278; 9:306; 144A3:48-52;
4:116-117; 5:154-155; 6:214-220; 7:259-267;

8:289-294; 10:339-341; 11:422-423;
144B46:797-799; 145A5:130; 6:217-219; 7:306;
8:340-342; 146A(1)4:61-62; 5:135-137, 141;
149A4:52-58; 5:122-127; 6:155-158; 7:220-
223; 8:265-267; 150A7:141-144; 9:265;
151A5:61-62; 6:119-121; 7:166, 171; 11:356-
357; 152A6:60-62; 7:76-78; 8:92-93; 9:114-
115; 10:166-170; 11:196-198; 154A4:60; 5:156;
6:236-237; 8:342-343; 155A6:92-93; 7:127-
128; 8:178-180; 9:204-205; 10:245-246;
11:277-278; 12:325, 328; 13:387-391; 14:412-
415; 15:443-444; 16:466-470; 17:507; 18:541-
542; 19:572-575; 20:595, 599; 21:637; 22:661;
156A6:98-99; 7:202-203; 157A4:65-66; 7:332;
8:402; 9:444-445; 10:508-511; 159A5:77-80;
6:164-166; 7:227-228; 8:264-266; 160A6:130;
7:161; 8:222; 9:295; 10:340; 11:382-383;
12:423-430; 14:471, 474; 160B34:438;
161A4:60-64; 5:120-121, 125, 130-131; 6:189,
191, 196; 7:305-307; 8:358-359, 362; 161B1:5,
7, 11-12; 162A3:58, 61; 4:106-108; 7:233;
8:261; 9:296, 298; 10:350, 353; 163A5:52-53;
164A5:69-73, 78; 6:109; 7:179-181; 9:284;
165A3:54-56; 4:143-145; 5:243-245; 6:300-
303; 166A6:78-79; 8:178; 9:239-241; 10:298;
11:352, 355; 167A(1)4:55; 5:87, 89; 10:246;
12:320; 14:395; 15:437-438; 16:468; 168A4:57;
5:110; 6:167-169; 169A3:44-53; 4:166-167;
5:208; 6:265; 169S_A2:21-24; 171A_A3:27; 5:60,
62; 6:84; 171B_A3:51-53; 4:100; 6:246-250;
172A3:38; 4:85, 88, 91; 5:170-173; 173A4:71-
74; 7:168-175; 8:225-234; 9:269-272;
174A_A3:45, 54-57, 71; 4:108-115, 135; 5:160-
162, 178; 175A9:233; 10:281; 12:346; 13:395;
15:460; 176B6:3, 177A5:6; 8:8; 178A4:5-8, 11-
13; 5:6-9, 11-12; 8:4-6; 178B25:4-6; 179A4:31-
32; 180A5:8-9; 6:11-13; 8:5-6; 9:8-9; A10:6-8;
12:7-10; 180B6:5-6, 9-10, 12; 181A3:6-8; 4:5;
5:5-6; 6:7-8; 7:7; 8:7; 9:6-7; 182A4:6-8; 5:5-7;
6:7-8; 7:8-11; 8:7; 9:5-7; 10:6-7; 11:5; 12:4-5;
183A3:4-5; 4:4; 5:4-5, 13; 6:5, 23, 35-36; 7:5-6;
8:5; 9:6; 184A7:7-8; 9:7; 185A1:23; 4:12-14;
186A1:12-13; 4:16-17; 5:9-10; 188A3:13-14;
4:11-12; 5:8-11; 188B14:6; 189A3:11-13; 5:11-
12; 6:13-14; 7:13-14; 190A4:7; 5:7-8; 6:6; 7:5;
8:5; 9:8-9; 191A4:12-13; 192A3:7-9; 4:5-8; 5:5-
6; 6:4-6; 194A3:5-6; 4:7; 5:3-4, 6; 6:4; 7:7-8, 11;
8:4, 9; 9:4-5, 7-8; 195A4:12-14; 197A3:8-9; 4:6-
7; 5:5; 198A3:13; 4:12-13; 5:12-13; 6:9-10;
7:10; 8:8-9, 11-12; 9:10; 10:5-9; 199A8:5-6;
10:7-8; 11:7-8; 12:8-9; 13:6-7; 14:6; 15:5;
201A7:10-11; 8:10-11; 9:9-10; 10:10-11; 11:10-
11; 12:7-8; 202A7:7-8; 8:9-11; 13:7-8;
204A3:5-7; 4:4-5; 5:3-4; 6:4-5; 9:5; 10:5-7;
11:5; 206A3:24-26; 207A4:5-6; 5:5-7; 6:5-6;
7:4-7; 8:6; 208A3:6-7; 5:4-6; 6:6-10; 7:6-7; 8:5-
7; 209A3:4; 5:4, 8; 6:4; 7:3-4; 9:3; 10:4-5
Unit III, 129A2:38-40; 3:101; 4:182-183, 192, 194;
129B1:13; 2:32, 34; 4:123; 12:232-233; 14:268-
269; 36:683-688; 130A5:115; 9:387-390;
10:504-507; 133A(1)3:59-60, 64-68; 4:88-93;

5:146-149; 6:183; 7:207-208; 8:257, 259;
 10:356-357, 361, 363; 12:461-462; 13:515-516;
 14:576; 17:777; 134A7:104-106; 8:146-147;
 9:186; 11:329-333; 12:402; 13:493; 134B6:87-
 92; 135A(1)8:351; 9:414; 10:503-512; 11:590-
 591; 136A4:40; 139A6:177; 8:457; 141A7:167-
 170; 8:251; 143A6:122-123; 7:193-195; 9:306-
 310; 144A3:52-53; 4:117-118; 5:155-159;
 6:220; 7:267; 8:294-295; 10:341-342; 11:423;
 145A5:130; 6:219; 7:306-307; 8:342;
 146A(1)4:62-67; 5:135-137, 141-142;
 149A4:58-59; 6:158-159; 150A6:71-72; 7:144-
 145; 9:265-272; 151A5:62-65; 7:166-171;
 11:357-359; 152A7:78; 8:94; 9:115; 10:170-173;
 11:198, 202-204; 154A4:61-62; 5:157; 6:237;
 7:283-284; 8:344-346; 155A6:93; 7:128-129;
 9:205; 10:246-247; 11:278, 280; 12:328-330;
 17:507-509; 18:542, 544; 19:575; 20:599-600;
 21:637-638, 641, 643, 645; 22:661-662;
 156A6:99; 7:203; 157A4:66-68; 7:332; 8:402-
 405; 9:445; 10:511-512; 159A5:80-81; 6:166;
 7:228-231; 8:266-267; 160A6:130; 7:161-162;
 8:222-223; 9:296; 160B34:438-441; 161A4:60-
 61, 64; 5:125-126, 128, 131; 6:191-193, 196;
 8:359-360, 362; 161B1:5, 12; 162A7:231; 8:261,
 263; 9:298; 10:353, 355; 164A5:73-74; 6:109-
 110; 7:181-182; 9:284; 165A3:56, 58-59; 4:145-
 146; 6:303-308; 166A6:79; 8:178-179; 9:241;
 10:298; 167A(1)4:55-56; 5:89-90; 10:246-247;
 14:395; 16:468; 168A5:110-111; 169A3:44-53,
 59-61; 5:208; 6:265; 171A_A3:27; 5:62; 6:84;
 171B_A3:53-54; 4:100; 6:250; 172A3:38; 5:171,
 173-174; 173A9:272; 174A_A3:57; 5:161-163;
 175A12:346, 351; 176B6:4; 177A5:6-7;
 178A4:8-9, 11; 5:9-10, 11-12; 8:6-7; 179A4:32-
 33; 180A5:9; 6:13-15; 8:7-12; 9:9-12; 10:8-11;
 12:10-13; 180B6:6, 10, 12-13; 181A3:8; 4:5;
 6:8-9; 7:8-9; 8:7; 182A4:8-9; 5:7-8; 6:8; 7:9-10;
 8:7-8; 9:7; 10:7-8; 11:5-6; 12:5; 183A3:5-6; 4:4;
 5:5-6; 6:5-6, 23, 35-36; 7:6; 184A7:8-9; 9:8;
 185A1:23; 4:14-15; 186A1:13; 4:17-18; 5:10-11;
 188A3:14-16; 4:12-13; 189A3:13-14; 5:12-13;
 6:14; 7:14-15; 190A4:7-8; 5:8-9; 6:6-8; 7:5-6;
 8:5-7; 191A4:13-14; 192A3:9-11; 6:6-8; 7:3-4;
 194A3:6; 4:7-8; 5:4-7; 6:4-5; 7:8-10, 11; 8:4-5,
 8; 9:5-7; 197A3:9; 4:7; 5:6; 198A3:13-14; 5:13;
 6:10; 7:10; 8:9-10; 9:10-11; 199A8:6; 10:8;
 11:8-9; 12:9-11; 13:7; 14:6-7; 15:5; 201A8:11;
 12:8-10; 202A7:8-9; 204A3:7-8; 4:5-7; 6:5-7;
 7:4-6; 8:7-8; 9:5-7; 10:7-9; 11:5-7; 207A4:7-8;
 5:7-8; 6:6-8; 7:7-9; 8:6-8; 208A3:8-9; 7:7-9;
 8:7-9; 209A3:4-5; 5:4-5, 7; 6:4; 9:3; 10:4-6

Unit IV, 129A2:39-44; 3:101-104; 4:183, 192;
 129B1:11; 2:32, 38; 4:119; 12:231-232; 14:268-
 269; 36:685-686; 130A10:504, 507;
 133A(1)3:59-60, 64-68; 4:91, 93; 6:183; 7:208;
 8:259; 12:462; 14:576-577; 16:694, 696; 17:777;
 134A7:106; 8:147, 149; 9:186-187; 11:333;
 12:402-403; 13:493, 495; 135A(1)11:591, 593;
 139A6:177, 179; 8:457; 143A6:123-124; 7:196;
 144A4:118; 5:159; 6:220; 8:295; 10:342-345,

349-350; 145A5:130, 132; 7:307; 8:342;
 149A4:59-62; 6:159-174; 150A6:72; 7:145-146;
 8:211-214; 9:272; 10:316-317; 151A5:65-66;
 11:359-360; 152A9:115; 10:170-173; 11:204-
 205; 155A7:129-130; 9:206-207; 10:247-248;
 11:280; 12:330-332; 17:509-510; 18:544-545;
 20:600-601; 22:662-663; 157A4:68-70; 7:332-
 336; 8:406-407; 9:445-448; 10:512-513;
 159A5:81-82; 6:166-170; 160A7:162; 8:223;
 161A6:193-196; 162A7:231; 8:263, 265; 9:298;
 10:355; 165A3:59-60; 4:146-148; 166A6:79-80;
 8:179; 9:241; 10:299-300; 167A(1)4:56; 5:92;
 169A4:167-168; 5:208-209; 6:265; 171A_A3:27;
 171B_A3:55, 59; 4:100-101; 6:250, 253-256;
 173A7:175-177; 8:234-236; 9:273; 175A12:351;
 176B6:4; 179A4:33-34; 180A5:10-18; 6:15-17;
 8:12-13; 9:9-12; 12:13-16; 180B6:6, 10, 13, 15;
 181A4:6; 7:9; 8:7-8; 182A4:9; 6:8-9; 8:8-9; 10:9;
 12:5-6; 182B12:3-4; 183A4:4-5; 5:6-7; 6:6-7;
 7:6-7, 13-14; 184A9:8; 185A1:23; 4:15-16;
 186A1:13; 4:18-19; 5:11-12; 188A4:13-14;
 189A3:14; 5:13; 6:14-15; 7:16-18; 190A4:8; 5:9;
 8:7-9; 191A4:14; 194A3:6; 4:8-9; 5:5, 7; 6:5;
 7:10, 12; 8:5-6, 8; 9:6-7; 197A4:7-9; 5:6;
 198A9:11-13; 199A8:6; 10:8; 11:9-10; 12:11;
 13:7-8; 14:7-8; 15:6; 201A8:11-12; 202A7:9;
 204A4:7-8; 207A4:8-9; 5:8-9; 6:8-9; 7:9-10;
 8:8-9; 209A3:5; 5:9; 6:4-5; 10:6

Unit V, 129A2:39, 44; 3:104; 4:183-184, 192;
 129B1:10; 2:32, 38; 4:119; 14:268-269; 32:597;
 36:675, 677; 133A(1)3:59-60, 64-68; 4:91;
 6:183; 7:208; 8:259-260; 12:462; 14:577-578;
 16:696; 17:777, 779; 134A9:187; 12:403-404;
 13:495, 497; 135A(1)11:594-595; 139A6:179-
 180; 8:457; 143A7:196-199; 144A5:159; 10:350-
 353; 144B59:1001-1003; 145A5:132-133;
 150A6:72-75; 7:146-147; 8:214-216; 10:317-
 318; 151A5:66; 152A9:115-116; 11:204;
 155A7:130; 10:248; 11:280; 12:332, 334; 18:545;
 20:602; 22:663; 157A7:336-338; 9:448; 10:513-
 514; 157B12:156; 27:456-457; 159A5:82-83;
 6:170-174; 162A8:265-266; 10:355-356;
 165A4:148, 150; 166A6:80, 82; 9:241-242;
 10:300, 302; 167A(1)5:92; 169A3:44-53, 61, 64-
 72; 5:209; 6:265; 171A_A3:27; 171B_A4:102-
 112; 6:256-259; 173A4:74-77; 8:236-241;
 176B6:5; 180A6:18-20; 8:13-14; 9:13-15;
 12:16-18; 180B6:7, 10, 13; 181A8:8; 182A4:10;
 10:9-10; 12:6; 182B12:4; 183A4:5-6; 6:7-8; 7:7-
 8; 184A9:8-9; 185A4:16-17; 186A5:12;
 188A4:14; 189A3:14-15; 5:13-15; 6:15-17;
 190A4:9; 5:9; 8:9; 191A4:15; 194A3:6-7; 4:9;
 5:5-7; 6:5-6; 7:10; 8:6-8; 9:6; 197A5:6-7;
 199A11:10; 12:11; 13:8-9; 14:9; 15:6; 204A4:9-
 10; 207A4:9; 5:9; 6:9; 7:10; 8:9; 209A5:7; 10:6

Unit VI, 129A2:39, 44; 3:104-106; 4:185-186, 190-
 192; 129B2:32, 36, 38; 23:444; 133A(1)3:59-60,
 65, 68; 4:91-94; 8:260; 16:696-697; 17:779;
 134A9:188; 12:405-406; 139A6:180; 143A7:199;
 144A5:159; 10:353; 145A5:133; 150A6:75;
 7:147-148; 8:216; 10:318-319; 152A9:116-117;

- 11:204–205; 155A11:280–281; 12:335; 18:545, 575–576; 20:603; 22:663; 157A7:338;
157B12:156; 165A4:150–151; 166A6:82–83;
10:302–303; 169A3:44–53, 73–78; 5:209; 6:265–
266; 171B_A4:112–116; 176A3:13–14; 176B6:5;
180A6:20–22; 8:14–15; 9:15–17; 12:18–19;
180B6:7, 11, 13; 181A8:8–9; 182A10:10–11;
12:7; 183A6:8–9; 7:8; 184A9:9–10; 185A3:7;
189A6:17–19; 194A4:9–10; 5:6, 8; 8:6–7;
199A13:9; 209A5:8–9
- Unit VII, 129A4:185, 190–192; 129B2:38; 23:444;
133A(1)3:63, 68; 4:94; 16:697–700; 17:779;
134A9:188–189; 12:406; 143A7:199–203;
150A6:76; 7:148–149; 8:216–220; 10:319;
155A22:663; 157A7:338–339; 157B12:156;
166A6:83; 10:303; 169A5:209–210; 6:266;
176A3:14; 176B6:5; 180A6:22–24; 8:15; 9:17–
18; 12:19–21; 180B6:7, 11, 13–14; 183A6:9;
184A9:10–11; 194A4:10; 209A5:7
- Unit VIII, 129A4:185–186, 190; 129B2:38; 23:444;
134A9:189; 166A10:303–304; 169A5:210;
6:266–267; 176A3:14; 176B6:5; 180A6:25–27;
9:18–19; 12:21–24; 180B6:7, 11, 14
- Unit IX, 129A4:186–190; 129B23:444; 134A9:189;
176A3:14; 176B6:6; 180A6:27–30; 9:19–20;
180B6:7–8, 11
- Unit X, 129A4:186–187; 134A9:189; 176A3:14;
176B6:6; 180A6:30–31; 9:20–22; 180B6:8, 11
- Unit XI, 134A9:189; 176A3:14–15; 176B6:6;
180A6:31, 35–38; 9:22–24; 180B6:8
- Unit XII, 134A9:190; 176A3:15; 176B6:6–7;
180A9:24–28; 180B6:8
- Unit XIII, 134A9:190, 192
- Unit XIV, 134A9:192
- Unit XV, 134A9:193
- Unit XVI, 134A9:193
- Unit XVII, 134A9:193
- Unit XVIII, 134A9:193
- Unit XIX, 134A9:193
- Unit XX, 134A9:193–194
- Unit XXI, 134A9:194
- Unit A1, 170A5:158–163
- Unit C1, 163X_A4:6–10; 6:5–19
- Unit L1–L3, 200B1:7–8
- Unit P1, 170A4:103–104
- Unit S1, 163X_A4:5–11; 5:4; 6:5–19; 7:3–4
- Unit T1, 170A7:219–225
- Unit U1–U4, 170A3:53–60; 4:104–108; 7:220–227;
205A4:26–33
- uranium logs, 172A5:240
- volcaniclastics, 192A1:15–17; 197A3:155; 210B9:5–14
- vs. age, 175A1:18; 184A1:66; 199A12:52
- vs. depth, 146A(1)4:87–94; 151A5:61; 6:117–118;
7:165; 8:228–229; 152A11:240–241; 153A3:107;
175A1:17; 185B8:11–12; 186A4:75–76;
192A1:43, 52, 60, 65–66; 3:49; 4:38; 5:43;
193A1:49–50, 66–67; 3:137–138; 4:114;
199A12:52; 205A4:79; 207A4:39; 5:45
- vs. seismic sequences, 182A4:84; 8:70
- vs. two-way traveltime, 194A3:59
- vs. well-logging, 129B29:507–527; 133A(1)4:111;
5:160–164; 7:224–225; 13:537, 540; 14:590–592;
15:647; 16:721–723; 17:786–788; 144B13:264–
267; 196A3:17–181 146A(1)4:96; 5:201, 203,
205–207; 6:279–280; 7:360–361
- well-logging, 151A6:142, 147–148; 173A7:212
- wet and dry resistivity, 185B12:17
- X-ray diffraction data, 183A5:175; 205A6:11
- See also metamorphic lithology; physical properties
units; well-log units
- lithology**
- association with laboratory measurements, 210B7:1–
21
- basement, 131A6:150–159; 149A4:76–77; 161A6:211–
213, 215–217; 168A4:59–77; 183A5:29–30;
203A1:25
- basins, 166B5:55
- bed-by-bed logs, 180A8:46
- borehole televiewer, 134A11:357
- Cenozoic, 129B4:120; 194A1:17–20, 25–27, 36–44
- clasts, 195A3:165
- clays, 172A6:302
- color, 161A4:61; 5:119
- composite depth scales, 178B5:6, 31
- control on alteration style, 148B11:158
- core-log comparison, 196A4:17–18
- core-seismic stratigraphy, 129A3:77–80, 154–156;
4:231–235
- correlation, 195B3:5–6
- Cretaceous, 207A1:70
- Cretaceous/Paleocene boundary, 120B(2)54:962
- dacite lava, 193B2:31
- décollement zone, 205A6:35
- deformation, 179B(synthesis):45–46
- description, 102A3:100–102, 112, 114, 148; 102B2:20;
143B21:334–348
- diatoms, 199A1:60
- discrete samples, 209A6:126
- Eocene/Oligocene boundary, 120B(2)55:981
- Eocene–Oligocene interval, 198A1:122
- Formation MicroScanner imagery, 180B25:20–21
- gas hydrates, 170A5:162; 204A1:45; 11:36; 204B1:8–9
- glaciation, 120B(1)12:164
- igneous rocks, 129A2:65; 147B2:24, 27–28; 148A2:112
- isotopes, 120B(2)44:843
- lava flows, 142A4:57–60
- lithology, 121B36:723; 173A7:186; 204A4:103
- lower sill complex, 210A3:70
- magnetic properties, 164B38:405–407
- marine environment, 120B(2)20:315–316
- microsequences, 159B43:587–588
- mid-Cretaceous, 207B2:5–8, 22
- Miocene, 194A1:21–23, 30–35
- middle Miocene, 194A1:13–15
- mud breccia, 160B46:598–600
- neutron absorption cross section, 149B37:595–599
- normalization factor, 129B29:524
- paleoenvironment, 160B38:485; 184A1:30–31
- Paleogene, 143B3:33; 199A1:9; 207A1:68
- photograph, 146B(2)9:138
- physical properties, 120B(1)13:180; 175A16:493–494

- Pigafetta Basin, 129B3:82–83
 prediction based on near-infrared spectroscopy,
 206A3:365
 proportions, 209A1:98
 Raggatt Basin, 120B(1)1:23, 26; 19:281
 recovery, 180A12:88
 reflectance, 138A(1)4:71; 138B18:413–427; 165A3:60–
 61; 175A23:570–571
 resistivity-at-the-bit images, 196A3:20–21, 52–54, 59
 sand, 146B(2)5:64–65
 sea level changes, 166B5:50–53
 sediments, 210B7:19
 seismic stratigraphy, 120B(2)47:88; 48:899–903;
 171B_A6:311
 seismic structure, 157B2:11–27; 28:476–478
 Site 747, 120A5:73–74, 95, 147; 120B(1)1:19
 Site 748, 120A5:76–79; 7:166–167, 227–228;
 120B(1)1:23; 9:115–117; 20:309
 Site 749, 120A5:80; 8:241, 273; 120B(1)1:25
 Site 750, 120B(1)1:26; 17:255; 19:286; 20:331–332
 Site 751, 120A5:81–82; 10:345–349; 120B(1)1:28;
 14:208; (2)60:1068
 Site 801, 129A3:130–132, 136–137
 Site 802, 129A4:178–179, 215–217
 Site 831, 134A11:363–372
 Site 834, 135A(1)4:86–88
 Site 865, 143A2:16–17
 Site 881, 145A3:42–43
 Site 883, 145A5:156–156, 160–161
 Site 884, 145A6:249–250
 Site 887, 145A8:360–361
 Site 1045, 171A_A4:42–45
 Site 1046, 171A_A5:57–60, 62–63
 Site 1047, 171A_A6:84–85
 Site 1048, 171A_A7:100
 Site 1188, 193A1:40–42; 3:102, 120
 Site 1189, 193A1:62–63; 4:68, 86
 Site 1190, 193A5:11
 Site 1223, 200A3:3–4, 8–29, 55
 Site 1224, 200A4:2–3, 24–36, 94; 200B1:25, 44; 3:19
 Sites 834 and 835, 135A(1)1:15
 Sites 836–839, 135A(1)1:18–19
 stratigraphy, 131A7:275; 145B29:437–452; 158A7:67–
 68; 8:142–144; 10:177–178; 158B18:232–236;
 21:286–288; 22:298–301
 structural geology, 156B22:281
 suboxic environment, 189A3:18–19
 sulfides, 158A11:210–211
 summary, 134A10:304–309; 170A5:159; 6:194; 7:220;
 177A3:21, 25; 4:26; 5:31–32; 6:21–22; 7:24;
 8:26–28; 9:22; 177B6:9; 179A1:16; 4:93;
 179B(synthesis):61; 180A5:46; 180B8:3;
 183A6:69; 7:113; 8:51; 187B5:24; 189A1:81;
 5:1181; 193A4:233–234, 236–239; 6:35;
 194A3:28; 4:35; 5:34; 6:32; 7:47; 8:28; 9:29;
 7:67; 199A1:57; 8:24; 9:18; 10:24; 11:42–43;
 12:44–45; 13:34–35; 14:27; 15:20; 199B1:29;
 14:10; 200A1:11–12, 22–30; 204A1:60; 3:45–47;
 4:36–40; 5:22; 6:29–30; 7:26; 8:37; 9:32–33;
 10:40–43; 11:23–24; 205A1:46; 205B1:40; 7:27
 symbols used, 129A1:10
 synthetic seismograms, 143B19:313–315; 157B1:5;
 165B12:205–217
 through-casing logs, 131A6:188
 transform faults, 159A1:10
 turbidites, 200A1:21–30
 volcanic ash, 145B23:348, 350–356, 358–359
 vs. age, 198B1:28; 207B15:19
 vs. distance from Cretaceous/Tertiary boundary,
 174AXS_A(summary):33
 vs. color, 178A5:45
 vs. continuous measurements, 138A(2)15:813–815
 vs. depth, 134A12:458–471; 13:536–547;
 135A(1)5:222; 145A3:42; 154A4:62–66; 5:158–
 160; 6:236–237; 7:286–288; 8:342–345;
 157B4:40–42; 9:98, 110; 158A7:70–71;
 166A7:156–157; 8:180; 170A3:47; 4:97; 5:154;
 6:190; 7:216; 172A4:83, 87, 90, 92; 5:165, 170,
 172; 6:255, 258; 7:317; 174A_A3:44, 47–53;
 4:104–110; 5:156; 174AXS_A4:36; 184A1:55–56,
 58, 60, 62, 64–65; 4:44; 5:39; 6:27; 7:43; 8:15;
 9:52; 189A3:60; 5:63–67; 6:68–74; 7:56–60;
 192A1:52; 5:35; 6:39–40; 7:21; 195A3:67; 4:70–
 73; 195B2:25; 196A1:22, 24; 197A1:33–34; 3:52,
 57; 4:37–41; 5:34; 6:29; 198A3:58; 5:42; 6:36;
 7:37; 8:32–33; 9:41; 10:18; 198B10:15; 14:5;
 17:18; 201A6:39; 202A1:118, 121; 4:29; 5:28;
 6:29; 7:39; 9:45; 10:45; 11:37; 12:47; 13:36;
 204A4:36–40; 5:22; 6:29–30; 7:26; 8:37; 9:32–
 33; 10:40–43; 11:23–24; 205A4:74; 5:45, 49;
 210A3:263–265
 vs. gamma ray logs, 178A4:91
 vs. magnetic susceptibility, 138A(2)19:1067;
 178A4:91; 5:45
 vs. porosity and depth, 144B46:801–802
 vs. reflectance, 175A23:569–573
 vs. seismic reflection, 191A4:39–40
 wave frequency, 102B4:57
 well-logging, 120A6:139; 9:325; 120B(2)58:1054;
 129B29:507–527; 151A7:202, 204; 8:259–260;
 9:301–302; 154A5:207, 210; 6:260, 263; 7:321,
 324–325; 8:371, 380; 159B16:157–170;
 166A3:27; 167A(1)14:412–413; 16:477–478;
 171A_A3:26–29; 173A4:51–54; 7:54–57; 8:57–
 61; 178A5:27–28; 6:29–30; 180A8:45; 9:64–65;
 10:22; 11:13; 12:55, 146; 180B25:112; 195A4:77
 wood, 120B(1)18:275
 X-ray diffraction data, 129B3:86–87
 lithology, graphic, vs. depth, 141A7:170
 lithology, in situ, vs. age, 150B11:203
 lithology index, magnetic susceptibility, 176B11:1–69
 lithology indicator ratio
 period vs. mean depth, 114B30:583
 Site 700, 114A7:298; 114B34:649, 651–653
 Site 704, 114A11:676–677
 vs. age, 114B30:582
 vs. depth, 114B30:578; 155A7:160; 166A6:103
 lithology logs
 vs. depth, 146B(1)20:320–321; 160A8:271
 See also silicon/(silicon + calcium) ratio
Lithophaga, lithology, 194A7:8
 lithophile elements, altered rocks, 193B1:47–48

- lithophysae
 - lithology, 193A3:31
 - See also* spherulites
- lithoporosity logs
 - Argo Abyssal Plain-Exmouth Plateau, 123A4:217
 - Site 752, 121A6:148–149, 154–156, 158–159
 - vs. depth, 135A(1)8:382; 9:472–473; 160A6:144–145; 12:446
- lithoseismic units
 - seismic profiles, 161B25:336–338
 - See also* seismic units; well-log units
- lithosphere
 - basement, 183A1:9–11; 183B1:14–16
 - contamination, 152B41:508–509
 - cooling effect, 125B38:646
 - decompression, 192B1:5–7
 - depth-dependent rheology, 123B37:673–675, 684
 - equivalent elastic thickness, 123B37:687–688
 - evolution, 198A11:3
 - extension, 121B33:663, 721; 149B1:13; 161A1:6–12
 - forearcs, 125B19:358; 36:611–612
 - geophysical data, 161B44:560–561
 - island arcs, 125B38:630–635
 - isostatic response, 121A1:8
 - kinematic model, 121A1:8–9, 11
 - large igneous provinces, 198B1:4
 - mantle sources, 125B13:254–255, 258
 - phase equilibria, 161B44:568
 - plateaus, 165B15:235
 - rifting, 149A1:5; 149B40:636–645; 173A1:7
 - simple normal-faulting model, 121A1:9–12
 - strength, 121A1:8–9
 - stretching models, 123B37:688–689; 127/128B(2)81:1304–1305
 - subduction, 125A15:367; 125B1:5; 38:649–650, 656–657; 161B27:371
 - sublithospheric mantle and initiation, 121A1:7–8
 - subsidence, 144B52:916–918, 927–929
 - thinning, 192B1:5–7
 - upwelling, 152B31:380
 - volcanism, 157A2:17; 157B27:450–451
 - See also* asthenosphere; crust; mantle
- lithosphere, continental
 - breakup, 180B(synthesis):3–4
 - development, 163X_A1:2–3
 - geochemistry, 183A1:36
 - isotope geochemistry, 120B(1)2:42–44
 - rifting, 149A1:5–10
 - See also* crust; lithosphere
- lithosphere, exhumed, Iberia-Galicia margin compared with Iberia-Newfoundland rift, 210B9:19–20
- lithosphere, oceanic
 - accretion, 153A1:5
 - subduction, 190A1:3
 - tectonics, 198A1:6–8
 - See also* crust, oceanic
- lithosphere/asthenosphere boundary, 195A1:17
- lithosphere extension
 - rifting, 149B40:636–645
 - tectonics, 149B38:607–608
 - See also* extensional tectonics
- lithosphere stretching
 - basins, 161B44:576
 - ocean–continent transition, 149B47:727–728
 - See also* crustal stretching
- lithostates
 - hand-specimen vs. wireline logs, 123B33:602, 611
 - transitions, 123B33:604, 616–619
- lithostratigraphy
 - accretionary wedges, 134B1:8–13
 - alkalic basalts, 129B19:362–363
 - alteration zones, 139B10:158–164
 - Ancora Site, 174AXS_A1:13–29
 - Angola Basin, 175A18:541
 - Angola-Benguela upwelling system, 175A18:533–542
 - architecture, 194B5:26
 - ash fall layers, 157B14:203–211; 16:271; 27:448
 - Barbados Ridge accretionary prism, 156A1:5–6
 - basalts, 129B19:365; 22:417
 - basement, 123A4:169–179; 123B10:201–204; 35:655; 125B8:131; 10:173; 127/128B(2)47:781; 55:884; 57:901; 131A6:194; 131B16:199; 133B37:536–537; 191A4:91
 - Bass River Site, 174AXS_A:9–35
 - Bethany Beach Site, 174AXS_A3:16–34
 - biogenic silica, 127/128B(1)20:344
 - biostratigraphy, 125B4:73
 - blue tuff, 127/128B(1)8:120–121
 - Broken Ridge, 121A6:165; 7:188; 8:235, 257; 121B9:219–220
 - Cape Basin, 175A18:536–538, 542
 - Cape May Site, 150X_A1:9–24
 - Cape May Zoo Site, 174AXS_A7:10–23
 - Ceara Rise, 154A9:421–430; 154B23:352–354
 - Cenozoic, 131B11:143; 26:315–316; 134B2:26–31; 135B8:133; 52:829–832; 143B34:571–572; 182A1:9–10, 47–48
 - clay–claystone transition, 125A11:256
 - clay mineralogy, 133B30:465–466; 190/196B6:3–4
 - composite section, 188A3:82–84; 4:51; 5:41–42; 188B3:24; 12:14–15
 - conjugate margins, 210A3:57–63
 - core-lithofacies comparison, 161B4:67
 - core-log comparison, 156A12:163–164; 160A7:194–196; 8:258, 260–263; 9:321, 323–324; 11:399; 170A3:88–89
 - core-physical properties comparison, 160A8:254–255; 9:317; 13:461; 14:488–489; 160B48:627–643
 - core-seismic stratigraphy comparison, 165A4:202–204
 - correlation, 149A7:215–217; 172A7:313; 180A1:41, 55; 180B(synthesis):32; 6:32, 40; 7:29, 38; 190/196B4:19; 191A1:26, 34–36; 4:54, 61
 - Cretaceous, 123B28:527; 129B18:345–348; 144B14:274–275
 - Cretaceous/Tertiary boundary, 130B45:745
 - deltaic sediments, 152B9:119
 - Demerara Rise, 207A1:37–39
 - deposition, 123A4:113; 125A14:318; 131A6:83
 - Eocene, 121A12:375; 150X_B16:207–228
 - Eocene–Miocene interval, 121A4:86
 - Eocene–Oligocene interval, 121A4:86
 - Eocene–Pliocene interval, 123A5:289

- Fort Mott Site, 174AXS_A4:10–28
gabbros, 179A2:11; 4:30–34; 179B2:4–5, 26
gamma ray logs, 127/128B(2)89:1416–1417
general section, 172B(overview):12
Great Bahama Bank, 166A2:14–20
guyots, 144B45:771–781
Hess Deep, 147B28:462–463, 469
Honshu, 127A1:15
Iberia–Newfoundland rift, 210A1:71; 3:241
igneous rocks, 123A4:173–179, 182–183; 5:313–319;
123B35:651; 125B9:144–149; 12:211–213;
147A3:57, 60–61; 4:116–117, 120–125;
147B2:31; 3:59–60; 6:116–117; 7:136–138;
176A3:12–16; 176B(synthesis):7–11, 49; 5:24;
6:2–7, 29; 10:20–21
interhole correlation, 121A12:375; 127/
128B(2)78:1233
Island Beach borehole, 150X_B2:13–24
Japan Basin, 127/128B(1)39:679
Japan Sea, 127A1:17–19; 127/128B(2)78:1229–1233;
80:1275; 82:1315–1316; 128A1:25–28
Jurassic–Cretaceous interval, 129B30:533
Jurassic–Lower Cretaceous interval, 129B32:573
lava flows, 152A9:139–140
Leg 27, 123B40:760
Leg 129, 129B6:154; 15:286–287; 16:297
lithofacies, 159B21:212
lithology, 121A9:242; 12:360, 374–375; 123A4:76–94,
96, 98, 102–112, 219–220; 5:277–285, 287–288;
123B6:143–144; 31:570–572, 574, 578; 33:603,
605–607; 43:806–807; 125A6:100–101, 109–
110; 7:117–120, 132; 8:151–152, 175–177;
9:180–182, 193, 195; 10:201–202, 221; 11:255–
256; 12:275–277; 13:309; 14:316–318, 338–339;
15:368, 370, 372–373, 375; 125B9:145; 18:328,
330; 19:344, 347–349, 351–352; 354; 131A2:15–
16; 6:81–93; 131B3:35–37; 134B5:82–87;
149A5:121–122; 149B45:687–688
lower sill units, 210A3:253
Maastrichtian–Eocene interval, 121A4:86
magnetic properties, 121B39:882; 134B33:577–585
mass accumulation rates, 208A1:95
mass flow units, 160B37:467–469
master column, 159A5:125–133; 6:152–155
Millville Site, 174AXS_A5:16–42
mineralogy, 123B2:57–59, 62; 31:565–570; 41:780,
783–784, 787
Miocene, 135B6:90
mud domes, 160A18:523
mud waves, 172B(overview):4–5
Nankai accretionary prism, 131A6:81–93; 7:284
Nankai Trough, 131B3:35–37; 26:318–322
natural remanent magnetization, 121A12:395
Neogene, 135B46:739; 161A6:190
North Aoba Basin, 134B9:133–134; 19:377–380
Ocean View Site, 174AXS_A2:15–33
Oga Peninsula, 127/128B(2)76:1203
Oligocene–Miocene interval, 125A14:316; 15:373
ooze, 130B10:139
opal dissolution transition zone (ODTZ), 127/
128B(1)20:347–349
Pacific Ocean E, 138B29:630–632
paleoceanography, 155A2:17–21
Paleogene, 135B16:245–249
paraconformities, 175A18:540
physical properties, 127A7:383–389; 127/
128B(2)72:1143; 128A4:182; 5:327–329
Pleistocene, 151B13:244, 246
Pliocene, 123A4:113; 133B17:240; 180B11:2–3
Pliocene–Holocene interval, 161B7:83–86
Pliocene–Pleistocene interval, 136B4:54–55
Pohang Basin, 127/128B(2)76:1205
principal results, 188A1:11–17, 20–21; 3:81; 4:50
Quaternary, 134B3:50–51; 146A(2)2:22, 24;
146B(2)27:347–351
Queensland Plateau, 133B4:51–52
reflectance, 172A3:38; 202A1:11–12
relative ages, 175A18:538–539
revised unit boundaries, 127/128B(2)78:1230–1233
Sakhalin Island, 127/128B(2)76:1206
Santonian–Miocene interval, Site 755, 121A4:86
Sea Girt Site, 174AXS_A6:18–48
secondary mineral distribution, 148B5:59
sediment source, 123B31:578–579
sedimentary overburden, 206A3:22–26
sedimentary structures, 127/128B(2)75:1177
sediments, 141B31:382–384, 386–387, 389, 391;
152B23:271–280
seismic stratigraphy, 123A5:341–342; 123B31:568–
570; 127A4:155; 5:174, 234–238, 243; 6:251,
312–313; 7:325, 403–408, 410; 127/
128B(2)72:1140–1143; 128A4:125, 193–194,
224; 5:351–353, 379; 131A6:201–202;
133A(1)15:651; 162A8:285; 9:332; 10:380;
157A6:386; 178A5:100; 185A4:4–6; 188B10:7–
12; 14:6–10
sequence relationships, 125B11:203–204
shallow structures, 134B1:7–8
shipboard identifications, 127/128B(2)78:1229
Site 398, 210B2:18
Site 504, 148A2:29–30, 32; 148B34:418–419
Site 680, 201B13:18
Site 681, 201B13:19–20
Site 684, 201B13:16
Site 685, 201B13:21
Site 752, 121A6:111–121, 151, 165; 9:257;
121B36:732
Site 753, 121A6:165; 7:171–179, 185, 188; 9:257
Site 754, 121A8:191, 194–198, 219, 224–225, 235;
9:257; 121B9:219–220; 36:733
Site 755, 121A9:237–242, 254–255, 257; 121B36:735
Site 756, 121A10:260, 265–267, 293–294; 121B9:219–
220
Site 757, 121A11:306, 311, 343–345, 347–350, 357
Site 758, 121A12:367–368, 372–374, 414, 418–419
Site 765, 123A4:76–94, 109–110; 123B4:96; 25:493
Site 766, 123A5:269, 276–288; 123B25:493; 35:655
Site 779, 125A7:145
Site 780, 125A8:177
Site 781, 125B16:296
Site 782, 125A10:243
Site 783, 125A11:272

- Site 784, 125A12:305
Site 786, 125B12:214–216
Site 794, 127A4:72–77, 91; 127/128B(1)1:5; 8:118;
29:494, 496; 37:655; (2)67:1049; 80:1277;
82:1313; 83:1336; 87:1377; 89:1413; 128A1:25–
26; 3:77–81
Site 795, 127A5:170–174, 186–192; 127/128B(1)1:5;
8:118; 37:655; 41:706; (2)80:1277; 82:1313;
83:1336; 87:1377; 89:1413; 128A1:26
Site 796, 127A6:248–250, 261–269; 127/128B(1)1:5;
7:105; 8:118; 9:133; 37:655; (2)80:1277;
82:1313; 83:1336; 87:1377; 89:1413; 128A1:26
Site 797, 127A7:324, 326–330, 340–351; 127/
128B(1)1:5; 7:105; 8:118; 9:133; 29:496, 498–
499; 37:655; (2)80:1277; 82:1313; 83:1336;
87:1376; 89:1413; 128A1:26
Site 798, 127/128B(1)1:5; 10:157; 37:655; 40:697;
48:800; (2)80:1277; 83:1336; 87:1376;
128A1:25, 27–28; 8:122–124, 136; 10:158
Site 799, 127/128B(1)1:5; 2:33–48; 6:76–77, 105;
9:133; 10:157; 37:655; 40:697; 48:800;
(2)72:1137; 80:1277; 82:1313; 83:1336;
87:1376; 128A1:25–28, 35–36; 14:238–244, 255
Site 800, 129A2:38–48; 129B15:285
Site 801, 129A3:99–113, 138; 4:285, 581; 144A9:315;
185A3:5–7
Site 802, 129A4:176–187, 230
Site 803, 130A5:107–118
Site 804, 130A6:181–187
Site 805, 130A7:230–232
Site 806, 130A8:297–307
Site 807, 130A9:375–393
Site 809, 132A3:55–59
Site 810, 132A4:81–82
Site 811, 133A(1)4:84–91, 92
Site 812, 133A(1)5:143–151
Site 813, 133A(1)6:180–185
Site 814, 133A(1)7:206–210
Site 815, 133A(1)8:253–261
Site 816, 133A(1)9:305–311
Site 817, 133A(1)10:351–364
Site 818, 133A(1)11:422–427
Site 819, 133A(1)12:459–463
Site 820, 133A(1)13:512–516
Site 821, 133A(1)14:573–578
Site 822, 133A(1)15:619–627
Site 823, 133A(1)16:685–703
Site 824, 133A(1)17:775–779
Site 825, 133A(1)4:91–94
Site 827, 134A7:101–108, 123–128; 14:566
Site 828, 134A8:144–149
Site 829, 134A9:183–194; 14:566
Site 830, 134A10:265–266, 268–273; 14:566
Site 831, 134A11:325–333; 14:566
Site 832, 134A12:400–409; 14:566
Site 833, 134A13:490–497; 14:566
Site 834, 135A(1)4:98–109
Site 835, 135A(1)5:190–201
Site 836, 135A(1)6:255–260
Site 837, 135A(1)7:295–305
Site 838, 135A(1)8:346–357
Site 839, 135A(1)9:410–418
Site 840, 135A(1)1:20–21; 10:500–520
Site 841, 135A(1)1:21; 11:585–598
Site 842, 136A4:39–41
Site 843, 136A5:67–68
Site 844, 138A(1)9:122–131
Site 845, 138A(1)10:191–208
Site 846, 138A(1)11:268–285
Site 848, 138A(2)13:680–685
Site 849, 138A(2)14:740–741, 743–744
Site 850, 138A(2)15:811–817
Site 851, 138A(2)16:895–897, 899–903
Site 852, 138A(2)17:970–972, 974–975, 980
Site 853, 138A(2)18:1026–1029
Site 854, 138A(2)19:1064–1068
Site 855, 139A5:109–110
Site 856, 139A6:173–174, 176–180
Site 857, 139A7:297–300
Site 858, 139A7:446–457
Site 859, 141A6:81–88
Site 860, 141A7:163–173
Site 861, 141A8:245–253
Site 862, 141A9:306–315
Site 863, 141A10:349–350, 352–363
Site 865, 143A6:121–125
Site 866, 143A7:190, 192–209
Site 869, 143A9:305–316
Site 870, 143A10:377
Site 871, 144A3:47–55
Site 872, 144A4:111, 113–119
Site 874, 144A6:212–214, 216, 218–225
Site 877, 144A8:288–297
Site 878, 144A10:337–356
Site 879, 144A11:417–425
Site 880, 144A12:443–444
Site 881, 145A3:41–45
Site 882, 145A4:86–87, 89–90
Site 883, 145A5:127–128, 130–134
Site 884, 145A6:213, 216–219
Site 887, 145A8:339–344
Site 888, 146A(1)4:59–71; 7:389–390
Site 889, 146A(1)9:391
Site 890, 146A(1)5:142, 144
Site 891, 146A(1)6:246–254
Site 892, 146A(1)7:308–319
Site 897, 149A4:46–62
Site 898, 149A5:118–127
Site 899, 149A6:151–175
Site 900, 149A7:214–223
Site 902, 150A6:69–76
Site 903, 150A7:135–149
Site 904, 150A8:209–220
Site 905, 150A9:260–272
Site 906, 150A10:312–319
Site 907, 151A5:60–68
Site 907, 162A7:227, 231
Site 908, 151A6:117–122
Site 909, 151A7:164–171; 151B9:172–173
Site 910, 151A8:227–230
Site 911, 151A9:274–277
Site 912, 151A10:322–326

- Site 913, 151A11:353–360; 151B9:173–174
Site 914, 152A6:57–62
Site 915, 152A7:75–78
Site 916, 152A8:90–94
Site 917, 152A9:113–117
Site 918, 152A11:191–208
Site 919, 152A12:261–264
Site 925, 154A4:60–66
Site 926, 154A5:156–160
Site 927, 154A6:235–238
Site 928, 154A7:282–285
Site 929, 154A8:341–347
Site 930, 155A6:91–96
Site 931, 155A7:125–131
Site 932, 155A8:178–183
Site 933, 155A9:204–209
Site 934, 155A10:244–249
Site 935, 155A11:276–281
Site 936, 155A12:324–339
Site 937, 155A13:386–394
Site 938, 155A14:411–419
Site 939, 155A15:440–445
Site 940, 155A16:466–472
Site 941, 155A17:506–512
Site 942, 155A18:541–549
Site 943, 155A19:571–578
Site 944, 155A20:594–605
Site 945, 155A21:637–646
Site 946, 155A22:659–666
Site 948, 156A6:98–108
Site 949, 156A7:202–205
Site 950, 157A4:55, 59–70
Site 951, 157A5:108, 112–114
Site 952, 157A6:138, 143–147
Site 953, 157A7:320, 329–341; 157B12:156
Site 954, 157A8:397–398, 402–407; 157B12:161
Site 955, 157A9:437, 443–449
Site 956, 157A10:501, 507–515; 157B12:161
Site 959, 159A5:74–87
Site 960, 159A6:161–177
Site 961, 159A7:225–234
Site 962, 159A8:260–270
Site 963, 160A4:59–60; 5:90–100
Site 965, 160A6:129–132; 160B38:487, 489–490
Site 966, 160A7:160–164; 160B38:485–487, 490
Site 967, 160A8:220–224, 264–267; 160B38:488–492
Site 968, 160A9:293–298, 324–326
Site 969, 160A10:338–344
Site 970, 160A11:381–385
Site 971, 160A12:420–431
Site 972, 160A13:452–454
Site 973, 160A14:468–477
Site 974, 161A4:58–64
Site 975, 161A5:118–132
Site 976, 161A6:188–197
Site 977, 161A7:304–309
Site 978, 161A8:357–362
Site 979, 161A9:393–397
Site 982, 162A4:101, 104–108
Site 983, 162A5:142, 146, 149, 152
Site 984, 162A6:173, 178, 181, 184
Site 985, 162A8:257, 261, 263, 265–268
Site 986, 162A9:292, 296, 298, 300–303
Site 987, 162A10:350, 353, 355–356
Site 988, 163A3:26
Site 989, 163A4:35
Site 990, 163A5:52–54
Site 991, 164A5:68–75
Site 992, 164A5:75–78
Site 993, 164A5:78–81
Site 994, 164A6:105–114
Site 995, 164A7:179–185
Site 996, 164A8:245–249
Site 997, 164A9:281–286
Site 998, 165A3:52–62
Site 999, 165A4:138–152; 165B18:277
Site 1000, 165A5:236–248; 165B18:277
Site 1001, 165A6:296–309
Site 1002, 165A7:362–368
Site 1003, 166A6:75, 77–84
Site 1004, 166A7:154–156
Site 1005, 166A8:176–180
Site 1006, 166A9:237–243
Site 1007, 166A10:293, 295–305
Site 1008, 166A11:350–353
Site 1009, 166A11:353–356
Site 1010, 167A(1)4:54–57
Site 1011, 167A(1)5:87–92
Site 1012, 167A(1)6:130–135
Site 1013, 167A(1)7:160–161
Site 1014, 167A(1)8:180–183
Site 1015, 167A(1)9:225–227
Site 1016, 167A(1)10:245–247
Site 1017, 167A(1)11:288–291
Site 1018, 167A(1)12:316, 318–320
Site 1019, 167A(1)13:357–359
Site 1020, 167A(1)14:393–395
Site 1021, 167A(1)15:435–438
Site 1022, 167A(1)16:465, 467–468
Site 1033, 169S_A2:20–22
Site 1034, 169S_A2:22–27
Site 1035, 169A3:44–51
Site 1036, 169A4:163–169
Site 1037, 169A5:207–211
Site 1038, 169A6:263–268
Site 1039, 170A3:52–61
Site 1040, 170A4:103–108
Site 1041, 170A5:158–163
Site 1042, 170A6:194–199
Site 1043, 170A7:219–227
Site 1049, 171B_A3:50–59
Site 1050, 171B_A4:96–118
Site 1051, 171B_A5:173–188
Site 1052, 171B_A6:245–262
Site 1053, 171B_A7:323–325
Site 1065, 173A4:70–77
Site 1067, 173A6:110, 112–114
Site 1068, 173A7:165–177
Site 1069, 173A8:225–241
Site 1070, 173A9:269–273
Site 1071, 174A_A3:43–58
Site 1072, 174A_A4:103–115

Site 1073, 174A_A5:155-163
Site 1075, 175A3:55-57
Site 1076, 175A4:89-92
Site 1077, 175A5:117-120
Site 1078, 175A6:150-155
Site 1079, 175A7:179
Site 1080, 175A8:205-206
Site 1081, 175A9:231-241
Site 1082, 175A10:276-283
Site 1083, 175A11:315-317
Site 1084, 175A12:343-352
Site 1085, 175A13:390, 392-397
Site 1086, 175A14:433-434
Site 1087, 175A15:460-465
Site 1088, 177A3:3-5
Site 1089, 177A4:5-8
Site 1090, 177A5:4-7
Site 1091, 177A6:4-6
Site 1092, 177A7:3-5
Site 1093, 177A8:6-9
Site 1094, 177A9:5-7
Site 1095, 178A4:4-13, 47-48; 178B25:16
Site 1096, 178A5:4-12, 43-45
Site 1097, 178A6:3-8
Site 1098, 178A7:3-6, 8-10, 34
Site 1099, 178A7:6-10, 38
Site 1100, 178A9:5-6, 33
Site 1101, 178A8:2-9, 29
Site 1102, 178A9:9-10
Site 1103, 178A9:6-9, 34-44
Site 1105, 179B(synthesis):7-11
Site 1108, 180A5:6-19; 180B6:14-15
Site 1109, 180A6:7-35, 84-85, 116; 180B6:9-12
Site 1110, 180A7:6-8
Site 1111, 180A7:9-10
Site 1112, 180A7:10-11
Site 1114, 180A8:3-16; 180B6:15-16
Site 1115, 180A9:5-28; 180B6:5-9
Site 1116, 180A10:4-12; 180B6:16
Site 1118, 180A12:4-25; 180B6:12-14
Site 1119, 181A3:4-11
Site 1120, 181A4:3-7, 54
Site 1121, 181A5:3-8
Site 1122, 181A6:4-12
Site 1123, 181A7:4-13
Site 1124, 181A8:3-11, 45-48
Site 1125, 181A9:3-9
Site 1126, 182A4:4-12
Site 1127, 182A5:3-9
Site 1128, 182A6:3-11
Site 1129, 182A7:4-12
Site 1130, 182A8:3-10
Site 1131, 182A9:3-8
Site 1132, 182A10:3-12
Site 1133, 182A11:3-7
Site 1134, 182A12:3-8
Site 1135, 183A3:3-7
Site 1136, 183A4:3-6
Site 1137, 183A5:3-8
Site 1138, 183A6:3-10
Site 1139, 183A7:4-9

Site 1140, 183A8:3-5
Site 1141, 183A9:5-7
Site 1143, 184A4:8-11
Site 1144, 184A5:6-9
Site 1145, 184A6:4-7
Site 1146, 184A7:5-10
Site 1147, 184A8:3-4
Site 1148, 184A9:5-12; 184B9:22
Site 1149, 185A4:11-17, 61
Site 1150, 186A4:14-22
Site 1151, 186A5:7-17
Site 1165, 188A3:11-21; 188B1:33; 12:3-4
Site 1166, 188A4:9-17
Site 1167, 188A5:7-13, 40, 58; 188B14:6-10, 30
Site 1168, 189A3:8-21
Site 1169, 189A4:6-9
Site 1170, 189A5:9-19
Site 1171, 189A6:10-25, 129
Site 1172, 189A7:10-21
Site 1173, 190A4:6-9, 40; 190/196B6:20
Site 1174, 190A5:7-10, 38, 101; 190/196B6:21
Site 1175, 190A6:4-8, 27, 69
Site 1176, 190A7:4-7, 23, 61
Site 1177, 190A8:5-9, 27, 64; 190/196B6:22
Site 1178, 190A9:6-9, 29, 75
Site 1183, 192A3:4-21
Site 1184, 192A4:4-11
Site 1185, 192A5:5-7
Site 1186, 192A6:4-12
Site 1187, 192A7:3-5
Site 1192, 194A3:4-8
Site 1193, 194A4:6-11
Site 1194, 194A5:3-8
Site 1195, 194A6:3-6
Site 1196, 194A7:5-12; 194B5:5-6
Site 1197, 194A8:3-9
Site 1198, 194A9:3-8
Site 1199, 194A7:12-16; 194B5:6-7
Site 1200, 195A3:11-15
Site 1201, 195A4:10-19
Site 1202, 195A5:6-8
Site 1203, 197A3:6-10
Site 1204, 197A4:4-9
Site 1205, 197A5:5-7
Site 1206, 197A6:5
Site 1207, 198A3:11-18
Site 1208, 198A4:9-16
Site 1209, 198A5:9-15
Site 1210, 198A6:7-13
Site 1211, 198A7:8-13
Site 1212, 198A8:7-12
Site 1213, 198A9:8-18
Site 1214, 198A10:4-9
Site 1215, 199A8:4-6
Site 1216, 199A9:4-6
Site 1217, 199A10:6-8
Site 1218, 199A11:7-10
Site 1219, 199A12:7-13
Site 1220, 199A13:6-10
Site 1221, 199A14:5-9
Site 1222, 199A15:4-7

- Site 1225, 201A1:59; 6:8–13
 Site 1226, 201A1:59; 7:7–13, 40
 Site 1227, 201A1:60; 8:8–13, 30–31; 201B13:16; 19:24
 Site 1228, 201A1:60; 9:7–12, 30–31; 201B13:18; 19:24
 Site 1229, 201A1:60; 10:8–12, 33–34; 201B13:19–20;
 19:24
 Site 1230, 201A1:60; 11:7–12, 43; 201B13:21
 Site 1231, 201A1:59; 12:6–11, 28
 Site 1232, 202A3:5–9
 Site 1233, 202A4:5–8
 Site 1234, 202A5:5–8
 Site 1235, 202A6:5–9
 Site 1236, 202A7:5–10
 Site 1237, 202A8:6–14
 Site 1238, 202A9:6–11
 Site 1239, 202A10:6–10
 Site 1240, 202A11:5–10
 Site 1241, 202A12:5–10
 Site 1242, 202A13:5–9
 Site 1244, 204A3:4–10
 Site 1245, 204A4:3–11
 Site 1246, 204A5:2–5
 Site 1247, 204A6:2–8
 Site 1248, 204A7:2–7
 Site 1249, 204A8:5–9
 Site 1250, 204A9:3–8
 Site 1251, 204A10:3–11
 Site 1252, 204A11:2–9
 Site 1253, 205A1:17–18; 4:3, 19–26
 Site 1254, 205A1:27–28; 5:2–3, 13–19
 Site 1255, 205A1:34; 6:2, 7–11
 Site 1257, 207A4:4–11
 Site 1258, 207A5:4–10
 Site 1259, 207A6:4–10
 Site 1260, 207A7:3–11
 Site 1261, 207A8:3–10
 Site 1262, 208A3:5–9
 Site 1263, 208A4:5–8, 73
 Site 1264, 208A5:3–6
 Site 1265, 208A6:5–10
 Site 1266, 208A7:4–9
 Site 1267, 208A8:4–9
 Site 1276, 210A1:13–15, 61; 3:20–64; 210B3:16; 8:24
 Site 1277, 210A1:22–23; 4:15–16; 210B9:44–45
 Sites 794–796 correlation, 127A6:269
 Sites 834–835 correlation, 135A(1)1:14, 16
 Sites 836–839 correlation, 135A(1)1:16–20
 Sites 867–868 correlation, 143A8:277–280
 Sites 875–876 correlation, 144A7:258–269
 Sites 885–886 correlation, 145A7:306–308
 Sites 914–917, 152A10:16–173
 Sites 1023–1025, 168A4:57–59
 Sites 1026–1027, 168A5:109–113
 Sites 1028–1032, 168A6:166–169
 Sites 1054–1055, 172A3:37–40
 Sites 1056–1059, 172A4:83–93
 Sites 1060–1062, 172A5:164–178
 Sites 1063–1064, 172A6:254–259
 Sites 1075–1077, 175A18:534
 Sites 1078–1080, 175A18:534–535
 Sites 1081–1084, 175A18:535–536
 Sites 1085–1087, 175A18:536–538
 Sites 1207–1208, 198A4:15–16
 Sites 504 and 896, 148A3:140–141; 148B35:437–439
 Sites 794 and 797, 127/128B(2)66:1038
 Sites 874 and 877, 144A8:296
 slope basin, 190/196B4:3–4
 slope-apron facies, 190/196B3:5–6
 stratigraphic inversions, 121B11:242
 summary, 102B1:4–9; 131A6:82; 152A13:285;
 171B_A7:351–353; 177A1:20–22, 49, 52;
 178A1:36, 45, 49; 7:80; 182A1:17–22, 25–28,
 31–34, 37, 39; 4:48–49; 5:33; 9:30; 11:20; 12:33–
 34; 186A1:29–33; 4:28; 7:105; 191B5:11;
 198A1:8–9, 53–56, 94, 111, 124; 8:32;
 198B1:28–34; 204A3:45–47; 206A1:22–23;
 3:119–122; 208A1:65, 69, 72, 75, 78, 82; 3:30–
 33, 64; 4:34–38, 41, 65; 5:28–35, 58; 6:40–44,
 53, 91; 7:32–36, 39, 66; 8:33–39, 64; 209A1:84,
 109, 116, 121, 129; 5:53, 67, 73; 10:48, 57
 synthetic seismograms, 188B10:22–23
 tephra, 157B15:219–291
 turbidites, 157B38:624–628; 190/196B3:3–4, 17
 upper accretionary prisms, 190/196B4:4
 vein abundance, 127/128B(2)75:1180
 vitric tuff, 127/128B(1)2:36
 volcanic ash, 198B18:11
 volcanoclastics, Site 956, 157B4:43–44
 volcanogenic components, 121B27:519–520
 vs. age, 207A1:65
 vs. depth, 137A2:18, 24–27; 137/140B27:313–319;
 148B34:419, 471; 150X_B6:69–74; 152B37:440–
 441; 38:453–455; 176A3:102; 183A3:42;
 188A1:41, 48, 55–57; 189A3:61–65; 201B15:12;
 202A3:26; 206A1:58–59; 209A3:57; 6:44, 54;
 9:35; 10:3–10; 209B4:2–3, 11; 210A3:127–129;
 210B2:17
 vs. index properties, 143A9:352
 Walvis Basin, 175A18:541
 weathering, 152B9:118
 Yamato Basin, 127/128B(1)39:679
 well-logging, 125A10:215–217; 131A6:151–153, 159–
 164; 200A4:54–55
 lithostructural units, structure, 169A3:107–112
 lithotypes
 assumed properties and compositions, 129B29:520
 error analysis, 129B29:519–520
 original and modeled lithology, 129B29:522
 physical properties and major oxides, 129B29:521;
 30:523, 526–527
 well-logging, 129B29:515–524
 Little Bahama Bank
 photomicrograph, 129B3:100–104
 physical properties, 129B29:508–517
 Site 800, 129B2:56
 Straits of Florida, 101A1:8
 X-ray diffraction data, 129B3:82
 littoral environment, lithology, 180A9:20; 183A7:25
 Lituolida
 Australian distribution, 123B14:279, 283
 Site 766, 123B14:272–273

- liverworts
 Site 750, 120B(1)17:257
 sporomorphs, 183B3:7
- Lizard Springs fauna, foraminifers, 159B31:392
- lizardite
 Bonin-Mariana region, 125B17:317
 breccia clasts and matrix, 173A7:195
 chlorine, 195B6:7
 composition, 106/109B9:109–112
 deformation, 147B14:264
 fault gouge, 180A11:4; 180B3:3–4
 formation temperature, 125B26:439
 harzburgites, 195A3:17
 hydrothermal alteration, 209A9:8–11
 hydrous fluids, 149B32:547
 igneous rocks, 163X_A6:21–23; 209A5:35
 lithology, 138A(1)10:199; 195A3:12–13
 mineral chemistry, 147B14:261
 peridotites, 173A7:189–190; 195A1:12
 photomicrograph, 149B32:552
 secondary minerals, 149A4:80
 serpentine sediments, 125B18:332; 19:361
 serpentinization, 147B14:282–283; 149B31:530;
 153B3:38–39, 42, 47; 173A7:192–193
 Site 779, 125B19:358
 textures, 106/109B9:115
 veins, 173A7:203
 X-ray diffraction data, 153B3:50; 209A1:86; 6:64;
 7:60, 63; 9:60–61, 65
- load casts
 bedding, 210A3:168
 hemipelagic origin, 146A(1)7:317–318
 lithology, 180A12:8, 11
 photograph, 135A(1)11:593; 146A(1)7:320;
 157B17:312; 159A6:174; 173A4:83
 photomicrograph, 180B8:41
 sedimentation, 157B17:304–305
See also microload casts
- load structures
 environment, 204A7:7
 lithology, 210A3:33–34
 photograph, 141A10:359; 151A10:327
 sandstone, 159A6:188
- loading
 factor analysis, 167B25:296
 models, 116B23:284–285
 sediments, 130B41:673–686
 vs. calendar age, 167B25:293
 vs. organic carbon, 167B25:294
- lobate structure, basalts, 169A6:272
- loess
 China, 127/128B(1)23:394
 clay fraction, 127/128B(1)23:401
 dark-light cycles, 127/128B(1)33:594–595
 deposition, 127/128B(1)23:403
 magnetostratigraphy, 132B3:43
 Northern Hemisphere glaciation, 127/128B(1)24:421
 oxygen isotopes, 127/128B(1)23:395
 quartz abundance, 127/128B(1)23:401
 source and deposition regions, 127/128B(1)24:411
- log-core correlation. *See* core-log comparison; core-log
 integration
- log-seismic correlation. *See* seismic-log comparison
- log units. *See* well-log units
- logging-while-drilling
 accretionary prisms, 196A1:1–29
 borehole images, 193A3:90–91
 data synthesis, 171A_B3:1–25
 density, 204A1:61
 fluid flow, 171A_A1:5–10
 formation evaluation, 193A3:89–90
 gamma density, 204A1:61
 magnetic susceptibility, 204A1:61
 multivariate analysis, 171A_A1:5–10; 171A_B2:1–29
 numerical modeling, 190/196B17:3–4
 porosity logs, 204A3:99
 quality control logs, 204A3:89; 8:29–30; 9:23–24;
 10:30–31
 resistivity, 204A1:61
 sapropels, 160B23:287, 289
 seismic data, 204A1:61
 stress orientation, 204B4:1–14
 summary, 204A3:90; 5:16; 204B27:2–3
 temperature, 193A3:87
 tools, 204B4:9; 27:12–13
 well-logging, 156B26:321–334; 204A7:19–20
 wireline logging comparison, 204A3:36; 4:29; 6:21–
 22; 9:25–26; 10:33–34
See also well-logging
- logging-while-drilling sonic data, 190/196B17:1–15
- loliolide
 concentration, 175B10:30
 sediments, 175B10:10
See also iso-loliolide
- lonestone
 bituminite, 188A5:11
 diabase, 188A3:16, 18–19
 diorite, 188A3:16; 5:11
 gabbro, 188A5:11
 gneiss, 188A5:11
 granites, 188A3:18–19; 5:11
 lithology, 188A3:11–14, 176; 4:9–11; 5:9–11, 45; 5:87
 metamorphic basement, 119A14:508, 530
 mudstone, 188A3:16
 photograph, 188A3:104
 quartzite, 188A3:18–19
 sandstone, 188A5:11, 46
 Site 736, 119A5:131
 vs. depth, 188A1:49
- long-spacing sonic (LSS) tool
 applications, 102A3:97, 109, 112, 113; 102B11:168
See also velocity logs
- longitudinal splitting, breccias, 148B17:254
- longshore bars, photograph, 171B_A6:260–261
- lopadolith scyphospherids, 115B15:217
- Los Alamos National Laboratory (LANL)/Leutert bore-
 hole samplers, 137A2:39–40
- loss on ignition (LOI)
 alteration, 127/128B(2)58:909; 168B10:121–121;
 187B5:10; 197A3:29; 4:22–23; 5:19; 6:16–17

- basalts, 158B17:215, 217–218; 169A3:95–96; 5:215–216; 183A5:34; 7:39; 192A3:28–29; 4:15; 6:17; 192B7:7–8; 195A4:22–23, 195–196
- basement, 123A4:199; 192B7:22–28
- clasts, 158B17:217–218; 173A7:196; 195B4:8
- felsic volcanic rocks, 183A5:36–37
- gabbros, 209A3:35
- harzburgites, 153A3:73
- hydrothermal clays, 158B17:217–218
- hydrous minerals, 127/128B(2)80:1282–1284
- igneous rocks, 205B9:7; 209A5:34–35
- jasperoids, 193B9:5
- lava flows, 197A3:22; 206A3:65
- metadiabase, 180A8:18
- mineral separates, 158B2:29
- negative silica correlation, 125B18:334–335
- peridotites, 209A3:33–34; 6:28; 7:21
- physical properties, 127/128B(2)80:1283
- sediments, 167B25:284–288; 172B5:22; 178B4:1–12; 204B12:6
- serpentinites, 195A3:20–21; 195B4:6–7
- Site 779, 125A7:122
- Site 780, 125A8:155
- Site 784, 125A12:280
- sulfides and sediments, 158B3:43
- troctolites, 209A10:23
- ultramafic rocks, 125A6:103–104; 195A3:150–151
- volcanic rocks, 152B28:336; 183B17:2
- vs. compressional wave velocity, 163B2:24
- vs. density, 127/128B(2)80:1291
- vs. depth, 139A7:356; 148B10:136; 167B25:285; 169A3:97; 183A5:98; 7:134; 183B17:2, 8; 195A4:110; 197A1:40; 3:106; 4:77–78; 5:75; 6:78; 200A4:111; 200B2:3; 203A3:56
- vs. distance from ridge axis, 168B10:122; 187B5:23
- vs. geochemistry, 127/128B(2)58:918–921
- vs. iron oxide, 163X_A8:28
- vs. iron/silicon ratio, 153A4:148
- vs. magnesium, 127/128B(2)51:839
- vs. magnesium number, 169A3:98
- vs. magnesium oxide, 163X_A8:28; 195B4:18; 206A1:89; 3:200; 209A6:102; 7:93
- vs. major oxides, 197A4:69; 148B10:139; 169A3:98; 200A3:105
- vs. oxygen isotopes, 148B10:144
- vs. porosity, 127/128B(2)80:1290
- vs. silica, 125A7:125; 125B19:336; 209A3:140
- vs. silica/magnesium oxide ratio, 195B4:18
- vs. strontium isotopes, 148B10:144; 153B6:113
- vs. velocity, 127/128B(2)80:1291
- vs. water, 200B2:9
- loughlinite, serpentine deposits, 125B19:358
- low-energy environment, 178A4:5; 8:6; 178B25:4
- low-latitude sites, correlation, 130B9:120
- low oxygen event, fauna, 164B34:360–361
- low-pass filters, frequency vs. attenuation, 178B19:26
- low-potassium tholeiite. *See* tholeiites, low-potassium
- low-resolution susceptibility logs, 171B_A5:236
- low-temperature minerals, 176A3:37–38
- low-velocity layer
Jurassic quiet zone, 129B28:504
- stress, 146B(1)22:356–357
- lower Campanian event (LCE)
Indian Ocean, 123A4:111
paleoceanography, 159B31:393–395
paleoenvironment, 159B35:488
- Lowrie-Fuller test
basalts, 197A4:26, 87; 5:77
basement, 197A3:33–34
domain structure, 133B38:557
hemipelagic sediments, 205A4:43–44
lava flows, 197A6:80
lithology, 197A5:21–22
saturation remanent magnetization, 205A4:139
sediments, 133B39:568–569
- lowstands
carbonates, 166B6:73–74; 182A2:14, 16; 182B1:27
diagenesis, 182B1:10–12
fluid flow, 166B3:28–30
glaciation, 183B1:23
Holocene, 133B22:308–309; 23:324–325
image facies, 166B7:78–81
lithology, 174AXS_A7:20, 49; 181A1:13; 194A5:8
Pliocene shedding, 133B17:237
sea level changes, 166A3:38; 7:168; 166B16:170–174
sediments, 166A11:365
seismic sequence boundaries, 166B5:46–47
See also highstands; sea level changes
- loxostomids
Pleistocene, 133B26:371–374
Site 821, 133B26:371–374
- LREE. *See* rare earth elements, light
- luene. *See* benzene/luene ratio
- luminance
digital color parameters, 146B(2)12:176
vs. age, 146B(2)12:192
See also chromaticity; color imaging; digital imaging; lightness
- luminescence
diagenesis, 144B23:435
vs. adenosine-5'-triphosphate proxy, 164B37:396
- luminosity, vs. depth, 201B14:22–23
- lunes, magnetic lineations, 129B26:477
- lupanes, Baffin Bay, 105B15:234
- lupenes, organic-rich layers, 161B30:396
- lupeol, sediments, 155B35:564
- Lutetian
biostratigraphy, 144B6:127–139; 189B5:36; 210A3:85–86
correlation, 171B_B9:15
magnetostratigraphy, 171B_A5:199; 207A5:20
rhyolites, 135B57:923
thin-skin tectonics, 149B1:13
See also Ypresian/Lutetian boundary
- lutetium
Paleocene/Eocene boundary, 199B16:3
Site 798, 127/128B(2)86:1370–1371
See also hafnium/lutetium ratio; lanthanum/lutetium ratio
- lutite, red
chromaticity, 172A6:256
distribution, 172A7:315

lithology, 172A4:84–93; 6:258
oxygen isotopes, 172B(overview):5–6
sedimentation, 172A7:311
vs. age, 172A7:315
vs. depth, 172A5:165, 170, 172
See also redbeds

lycopane
biomarkers, 207A10:5–6
chromatograms, 207A10:17
oxygen paleolevels, 207A10:11
Pisco Basin W, 112B34:541
sapropels, 160B23:287, 289
sources, 207A10:9

lycopsids, sporomorphs, 183B3:7–8

lysocline
aragonite, 133B16:207; 36:532
Bahamas, 101B20:280
biostratigraphy, 128A4:164; 134B13:301–304;
182A1:23; 192A3:23; 5:6–7, 10; 6:12, 14–15
calcite, 167A(1)15:438
carbonates, 130B3:46; 138A(1)6:87; 198B10:3–9;
208B1:9–21
climatic effects, 115A11:849
correlation, 130B3:41–43; 35:593–594
cyclic sedimentation, 115B29:564; 198A3:16
dissolution, 130B44:713; 135B11:169–170
Indian Ocean W equatorial, 115B25:468
indicators, 135B53:847–849
lithology, 154A7:285; 165B11:201; 208A8:5–9
Madingly Rise, 115B25:484
meteoric diagenesis, 144B48:865
Miocene, 115B25:483; 131B26:318
Miocene–late Miocene interval, 165A8:381–384
Neogene, 198B1:14
Paleocene/Eocene Thermal Maximum, 198B8:1–36
paleobathymetry, 130B5:72–75
Pliocene, 115B26:515
Quaternary fluctuation, 123B1:30
sedimentation, 138B9:172–174
shoaling theoretical model, 198B3:9–11
spectral analysis, 154B7:140–143
stable isotopes, 144B48:859
stratigraphy, 208A1:38–39
sublysocline zone thickening, 115B25:483–484
subsidence, 135B12:179–180
vs. depth, 134B13:307
vs. time, 208A1:59
See also carbonate compensation depth

lysocline, aragonite
shoaling of intermediate water masses, 115B29:564
Site 716, 115A13:1005–1006

lysocline, carbonate, Owen Ridge, 117A1:35

lysocline, foraminiferal
Madingly Rise, 115A7:462
Site 708, 115A6:403, 405
Site 711, 115A9:659
time-dependent variability, 115A7:593

M

Maastrichtian

age vs. depth, 189B10:37; 198A7:50; 8:47
biogeography, 198B6:9–11
biomagnetostratigraphy, 171B_A4:134
biostratigraphy, 129B12:231; 13:248, 252; 130B5:74;
132B2:17, 19, 22; 149B8:205–206;
150X_B21:287–292; 159B25:279, 282–285;
160B31:400; 165A4:158; 171B_A3:59–69;
6:263–278; 173A7:177–182; 173B5:6, 10; 9:1–
13; 174AXS_A(summary):32; 1:32–33, 36–37,
41; 5:44, 47; 6:50–52, 55, 98–99; 7:13; 8:13;
181A8:19; 183A4:6; 6:19; 183B1:21–22;
188B2:3; 189A7:34–35; 189B3:7–8; 5:31;
197A4:10–11; 198A1:57; 198B5:1–15; 6:5;
207A5:13; 6:14, 19; 7:13; 8:13, 17–19; 208A8:13,
16–17; 210A3:78, 80, 84; 210B13:11–12

bulk mineralogy, 189B11:3–6
carbonate compensation depth, 192A3:16
carbonate platforms, 144B47:831–834
chromatograms, 208A8:24–25
clay mineralogy, 189B11:4–5
cooling, 192B1:4
correlation, 171B_B9:14; 174AXS_A6:73
critical events, 208B1:9
deepwater circulation, 198B1:7
diagenesis, 144B23:435; 46:800–803
gateway history, 189B1:8–11
geology, 165B9:151; 171B_A1:5–10
hiatuses, 160B40:522–523
hydrothermal alteration, 159B10:98
limestone, 143A2:18; 165A6:346
lithology, 129B14:269; 132A4:81–82; 143A2:24–26;
9:306–308; 144A5:155–159; 6:214–220; 7:260–
267; 8:289–294; 159A6:166–170; 7:228–231;
165A4:150–152; 6:308; 171B_A6:251–256;
174AX_A1:27, 29; 174AXS_A1:22, 54; 5:31–33;
183A3:5–6; 6:5–6; 185A3:6; 189A7:16–18;
192A3:9; 6:6–8; 198A5:13; 6:10; 7:10; 207A4:8;
5:5–7; 8:7–8; 208A3:9; 8:7–9

magnetic polarity, 143B27:414
magnetostratigraphy, 171B_A3:71; 171B_B9:7, 10;
207A7:21; 8:21; 207B3:8; 208A1:85
mass accumulation rates, 171B_A6:273–274
micrite, 180B(synthesis):6
Neotethys, 160B54:726
paleoceanography, 171B_B(introduction):4–5
paleoclimatology, 192B2:1–15
paleoenvironment, 144B14:271–294; 15:305–310;
183B2:1–28; 192A3:24–25; 6:14

paleolatitude, 171B_A1:9
pelagic sedimentation, 165A8:378; 165B20:308
photograph, 192A3:58; 6:48; 207A5:46
preglacial sedimentary basin fillings, 163X_A8:5
quartz-feldspar-lithic fragments system, 210B2:26
quartz-potassium feldspar-plagioclase system,
210B2:29

remanent magnetization, 183A3:14
seafloor spreading, 189A1:9

- sedimentation, 165A4:162; 173A7:216–217;
183A3:20; 189B10:17–18; 198A8:19
- stable isotopes, 207B7:1–9
- stratigraphy, 160B32:412–413; 174AXS_A1:4; 5:61;
6:58–59; 198A6:4; 8:5
- strontium isotopes, 174AXS_A4:29; 5:50; 192B3:4
- synthetic seismograms, 183A6:61
- tectonic models, 160B54:769–771, 776
- transform faults, 159A1:12
- volcanics, 180B1:3
- zoning, 160B30:384
- See also* Albian–Maastrichtian interval; Campanian–
Maastrichtian interval; Campanian/Maastrich-
tian boundary; Campanian–Maastrichtian inter-
val; Cenomanian/Maastrichtian boundary;
Cenomanian–Maastrichtian interval; Cenoma-
nian–Maastrichtian interval; Maastrichtian–Eo-
cene interval; mid-Maastrichtian Event; mid-
Maastrichtian reversal; Santonian–Maastrich-
tian interval
- Maastrichtian, lower
- aggradation of skeletal sands, 144B45:783–784
- lithology, 171B_A3:51–54; 174AX_A1:28–30
- photograph, 171B_A3:57; 192A3:59–60
- planktonic foraminifers, 174AX_A1:37; 198A5:20;
198B5:1–15; 207A4:15
- sedimentation rates, 189B10:17
- Maastrichtian, middle
- extinctions, 171B_B10:9
- nannofossils, 207A4:12
- subaerial exposure, 144B45:784
- Maastrichtian, middle–upper, photomicrograph,
210A3:171
- Maastrichtian, upper
- biostratigraphy, 189A7:23–26; 192A3:23; 207A5:17;
210A3:81
- gabbro crystallization, 180B(synthesis):5
- lithology, 171B_A3:54; 4:101, 116–118;
174AXS_A6:27–28; 207A6:8
- magnetostratigraphy, 192A6:21
- microfaults, 171B_A3:55
- oxygen isotopes, 174AXS_A(summary):11–12
- photograph, 171B_A3:55–56
- photomicrograph, 192A6:47
- seismic reflection, 183A6:61
- Maastrichtian, uppermost, lithology, 192A1:22–24
- Maastrichtian–Danian interval, vs. age, 207A1:71
- Maastrichtian–Eocene interval, palynology, 189B3:27
- Maastrichtian/Eocene unconformity, 121A7:217
- Maastrichtian–late Eocene greenhouse period, 189A1:6
- Maastrichtian–middle Eocene interval, 189B10:3
- Maastrichtian/Paleocene boundary, 145B37:564
- Maastrichtian–Paleogene interval, 189B10:3
- Maastrichtian–Pleistocene interval, 192A3:12–18
- macerals
- abundance, 180B10:5–10, 18–19
- mud, 131B30:379, 382–385
- paleoenvironment, 152B24:289
- sediments, 141B9:125; 143B12:183; 152B24:285
- Sites 798–799, 127/128B(1)38:668–670
- See also* chlorophyllinite; collinite; corpocollinite; cu-
tinite; detritite; detrovitrinite; funginite; fusin-
ite; huminite; inertinite; inertinite/vitrinite
ratio; inertite; lamalginite; liptinite; liptodetrin-
ite; phlobaphinite; phyterals; phytoclasts; pyro-
fusinite; resinite; sclerotinite; semifusinite;
sporinite; suberinite; telinite; telocollinite; telo-
vitrinite; textinite; texto-ulminite; ulminite; vit-
rinite; vitrodetrinite
- mackinawite
- hydrothermal veins, 153B30:524
- sediments, 155B37:573
- mackinawite, magnesium
- pore water, 155A6:105–106; 7:141; 8:190; 9:217;
10:260; 11:295; 12:348; 13:398; 14:424; 15:449;
16:476; 17:520; 18:557; 19:583; 20:610; 21:650;
22:675
- vs. calcium, 155A15:457
- vs. depth, 155A6:112; 7:149; 8:192; 9:219; 10:261;
11:296; 12:354; 13:402; 14:426; 15:456; 16:481;
17:528; 18:558; 19:585; 20:615; 21:651; 22:677;
155B30:498–501
- Macoma* oxygenation event
- bacteria, 146B(2)10:141
- See also* oxygenation
- macrofacies
- photograph, 194A7:54, 64, 66
- photomicrograph, 194A7:52
- macrofauna, hydrothermal fields, 193A1:7
- macrofossils, lithology, 174AX_A1:26
- macropores, preservation, 171A_B1:2, 6
- macrocleres, Quaternary, 144B3:73
- macroscopic features
- décollement zones, 156B22:281, 284–285
- scaly fabric, 156B4:62–63
- mafic component
- detrital component, 167B23:268
- vs. depth, 167B23:270
- mafic composition. *See* mafic rocks
- mafic magmas. *See* magmas, mafic
- mafic minerals, vs. depth, 141A9:314
- mafic rocks
- alteration, 115B8:85–91; 149B30:525–527; 209A3:12–
13; 7:9–10; 9:9
- basement, 173A6:155–156
- bronzite andesite vs. boninite series, 125B38:632
- Conical Seamount, 125B36:606–607
- deformation, 125A7:133; 147A4:140–141
- fabrics, 147B20:361–366
- formation, 125B24:402, 406, 408
- geochemistry, 153A3:65–69; 153B10:181–241;
183A7:41–42; 209A3:35–36; 7:23–25, 97–100
- Iberia-Galicia margin compared with Iberia-New-
foundland rift, 210B9:21–22
- intrusions, 180B3:8–11
- lithology, 139A6:180
- magnetic properties, 139B30519–534
- Mariana forearc, 125B24:402–412
- metamorphism, 125B24:403–404; 36:606
- petrogenesis, 125A9:185
- petrography, 118A4:85; 125B24:403–405

- petrology, 149A7:232–235; 149B26:449–469; 27:580–581
- photograph, 209A7:49–50
- platinum group elements, 147B4:77–90
- sediment provenance, 180B6:16–24
- seismic properties, 139B38:601–608
- serpentine deposits, 125B19:355
- Site 778, 125A6:104
- Site 779, 125A7:124–125
- sources, 149A7:258
- structures, 153A3:98–100
- sulfur isotopes, 118B5:121–122; 147B5:91–101
- tectonic environments, 125B24:402
- textures, 180B3:5–7; 209A7:43
- titanium oxide content, 125B18:337
- Torishima Forearc Seamount, 125B25:427
- volcaniclastics, 180B3:3–4
- See also* hypabyssal rocks; intrusives; ultramafic rocks
- mafic rocks, ice-rafted debris, 163B14:160, 165
- mafic rocks, metamorphosed, 149B26:451–455, 459, 461
- maghemite
- alteration, 197A5:15
- basalts, 163B2:26; 183A4:25
- basement, 183A6:47
- Bengal Fan, 116B27:342, 344
- diffuse reflectance spectrometry, 188B7:10–11; 13:10–11
- factor score, 188B7:30, 35, 40, 45
- heat effect, 116B27:342
- lava flows, 197A6:12–13
- lithology, 183A7:5–6; 8:3–5
- oxidation, 172B2:5
- peridotites, 173B8:11
- petrology, 168A5:118–119
- photomicrograph, 183A7:120; 192A4:59; 193A3:180; 197A1:21; 3:87–90; 197A1:89; 4:16–17, 58–66; 5:56–57, 62–64; 6:50, 56–57
- properties, 133B40:582–583
- rock magnetism, 154B11:185–186; 166B11:127; 186A4:32–35; 192A4:20–21
- Site 749, 120A8:258
- thermal demagnetization, 195A4:122
- See also* titanomaghemite
- maghemite/titanomaghemite lamellae, 197A3:21
- maghemitization
- basalts, 187B7:7–9
- black halos, 148B12:180–183
- effect on magnetic properties, 107B7:103
- peridotites, 210B1:18
- magma chambers
- basalts, 142B1:7; 3:28
- fast-spreading ridges, 118B26:509
- fluid inclusions, 176B4:14
- fractionation, 129B19:372–373, 376; 148B2:17; 153B10:225
- gabbros, 118B1:14; 147B17:317–328; 179B(synthesis):33
- geochemical indicators, 142B2:16–19
- isotopes, 153B15:305–319
- lower oceanic crust, 176B(synthesis):20–22
- models, 142A2:40; 176B(synthesis):4–6, 37–38, 48; 6:22
- Ninetyeast Ridge, 121A1:14–15
- oceanic crust, 147A1:5
- petrogenesis, 135B52:837–838
- petrology, 137/140B4:49–51
- residence ages, 142B5:38
- rifted margins, 163X_A1:3–4
- slow-spreading, 118B4:86; 179A4:10–13, 29–48
- spreading ridge segmentation, 118A1:3
- vs. time, 118B6:140–141
- magma chambers, axial, morphology, 147B17:328
- magma chambers, oceanic, gabbros, 179B2:1–76
- magma channeling, peridotites, 153B12:265–275
- magma density, vs. pressure, 157B24:418
- magma flows, remanent magnetization, 192B5:8
- magma fluxes, stratigraphy, 152B41:514–515
- magma injection
- lower oceanic crust, 176B(synthesis):22–23
- magnetic susceptibility, 176B11:10
- magma lenses, gabbros, 147B2:21–58
- magma lobes, xenoliths, 193B6:4–5
- magma mixing
- fractionation, 153B10:225
- gabbros, 147B1:11–12
- magma production, igneous provinces, 192B1:2
- magma reservoirs, volcanism, 152B28:348
- magma sources, igneous rocks, 183A1:9–11
- magma transport, fractionation, 153B11:261–263
- magmas
- affinities, 129B5:144; 135B24:388
- alkalis, 183A7:40
- arc evolution, 134A14:564
- argon isotopes, 163X_A1:14
- basement, 127/128B(2)54:869–870; 128A3:96; 149A4:108–112
- batches, 127/128B(2)58:917
- blue-tuff eruption, 127/128B(1)8:119, 126
- breakup volcanism, 152A13:287–288
- brines, 137/140B16:196
- burial diagenesis, 115B35:656–657
- carbonate sediments, 115B35:656; 36:669–671
- Celebes Sea, 124A10:142
- Chagos Bank, 115A9:713; 10:749–750; 115B34:642–643
- composition, 147B2:46–50
- Cretaceous–Paleocene interval, 112B28:478
- crystallization sequences, 115B3:34–35, 40–41; 124B20:275–276; 125B10:182–183; 176B10:24–25
- degassing, 157B23:407, 427
- differentiation, 118B4:103–104; 137/140B5:59–60; 141B27:336–342
- evolution, 119B16:317; 120B(1)10:145–146, 151; 134B19:375–392; 140A2:42; 163B9:104–110; 200B3:9–12
- fluid sources, 118B26:487–488
- fractional crystallization, 192B1:6
- fractionation, 163B7:70–74; 9:104–110; 11:131

- geochemistry, 115B6:68; 123B42:796–797;
124B23:326–329; 135B31:550; 137/140B4:43–
51
- helium isotope ages, 139B19:389–390
- hotspots, 183A1:57; 183B1:4–7, 38
- igneous provinces, 183A1:2
- influence of lithospheric extension, 121B30:579
- injection, 176B(synthesis):12–14
- intrusions, 125B24:407; 127/128B(2)82:1323
- iron oxide, 152B30:371
- Japan Sea, 127/128B(2)47:787–788; 83:1340–1341
- layering as hydrothermal conduit, 118A6:139
- leakage, 135A(1)5:185–186
- lithology, 176A3:15–16
- magmas, 115B7:77; 127/128B(2)56:897; 163B7:69
- magnesium number, 187B2:7
- magnesium oxide, 123A1:7; 152B40:494
- mantle, 121B30:579; 125B38:637–641; 127/
128B(2)83:1341
- Mascarene Plateau, 115B6:67
- melting, 125B10:183; 12:227, 229, 233; 18:327
- Mesozoic Southern Hemisphere basalts, 11916:315,
317
- mixing, 118B4:85; 121A15:526–531; 121B31:592,
599; 32:628–629, 633, 637, 642; 124B35:476;
125B13:254–257, 260; 134B20:393–401;
135A(1)6:279, 281; 135B26:474–485; 29:530
- Nazareth Bank, 115B6:67–68
- neodymium isotopes and titanium, 127/
128B(2)57:902
- nickel oxide, 187B2:7
- oceanic plateaus, 130B1:14–20
- olivines, 187B2:5–7
- Peru margin evolution, 112B28:476–477
- petrogenesis, 135B24:393–394; 28:512–514; 55:888–
905; 139B6:100–101; 144B30:513–533
- petrology, 134B18:363–373; 176A3:31–33
- pore water, 115B34:630–631
- primary or parental sources, 153B19:370–373
- primary-phase mineral chemistry, 129B17:305–343
- rare earth budget, 137/140B9:109–110
- rock generations, 209A6:26–27
- secondary-phase mineral chemistry, 129B17:305–343
- segregation, 115B6:68; 137/140B12:136–137
- Site 701, 114B40:733, 736–740
- Site 794, 127/128B(2)47:780–782; 54:871, 875
- Site 797, 127/128B(2)54:871, 875
- sources, 115B3:41; 119B16:317–319; 121A13:474;
121B31:603; 32:633, 642
- structure, 176A1:2–5
- subduction zones, 135B55:899
- Sulu Sea, 124A11:220, 263–266
- suprasubduction zone, 135B25:454
- system origin, 135A(1)1:5, 7
- texture photograph, 144B36:629
- trace elements, 125B12:229; 127/128B(2)87:1378–
1379
- triple junctions, 141A3:23–25
- underplating sedimentation, 135B53:853–855
- veins, 176B9:19–22
- volcanism, 157A2:16; 157B18:321; 27:462
- Yamato Basin, 127/128B(2)47:782–784; 57:902
- See also* textures; veins; volatiles
- magmas, basaltic
formation, 119B16:299
partition coefficients, 136B9:114; 153B10:228
- magmas, boninitic, evolution, 135B55:898–899
- magmas, calc-alkaline, geochemistry, 134A11:341–343
- magmas, felsic
Cenozoic, 183A1:37–38; 183B1:19
eruptions, 183A1:37
- magmas, hydrous, fractional crystallization, 135B32:563
- magmas, mafic
sulfides, 176B7:7–9
water and carbon dioxide, 157B24:411–420
- magmas, mantle-derived, 124B22:317
- magmas, parental
augite, 127/128B(2)52:854
basalts, 127/128B(2)52:855–856
basement, 127/128B(2)56:893–894
boninite dikes, 125B12:227
composition, 157B23:407–408; 24:416–418
estimates, 127/128B(2)56:894
geochemistry, 153B17:341–346
heterogeneity, 118B4:83–86; 6:139–141
Japan Basin, 127/128B(2)58:927–928
Japan Sea, 127/128B(2)83:1341
lithology, 118B4:85
mantle source depletion, 125B12:227, 229
melt inclusions, 157B22:387–390
Ninetyeast Ridge, 121A10:277; 11:329–330; 12:393;
121B32:628
origin, 125B12:227–232; 127/128B(2)56:897
oxide content, 118B4:98–101
petrogenesis, 125B12:227
production depth, 127/128B(2)56:897
signature retention, 118B4:85–86
Site 794, 127/128B(2)51:844–845; 58:917
sulfur content, 118B4:101
tephra layers, 121B14:287
two-source differentiation, 125B10:187–189
Yamato Basin, 127/128B(2)58:927–928
- magmas, parental sodic, Atlantis Bank, 118B4:86
- magmas, primary, composition, 137/140B4:50–51
- magmas, rhyolitic, eruptions, 135B4:72–73
- magmas, tholeiitic, mineral chemistry, 200B3:11–12
- magmatic activity, geology, 178B8:5
- magmatic arcs, volcanism, 198B16:9
- magmatic contacts
contour plots, 205A4:126
gabbros, 205A4:27–35
igneous units, 205A4:36
photograph, 205A4:87–88, 95–101
photomicrograph, 205A4:109
pyroxene gabbro, 205A4:125
vs. depth, 205A4:87–88, 93–104
- magmatic differentiation
basalts, 148B2:16
geochemistry, 148B4:39–55
magmatic rocks, 153B11:261–263
trends within a solidification zone, 148B4:53

- magmatic events
 17-Ma episode, 125B11:207
 41-Ma episode, 125B11:205–208
 downward intrusion and evolution, 118B3:62
 Izu-Bonin forearc, 125B11:204–208
 Labrador and Southwest Greenland, 105B46:882
 Northeast Georgia Rise, 114B2:31, 37
 magmatic evolution, gabbros, 153B5:77–98
 magmatic fingers, lower sill complex, 210A3:69–70
 magmatic fluids, crystallization, 147B3:68, 70
 magmatic flux, mantle, 152B41:525–528
 magmatic foliation. *See* foliation, magmatic
 magmatic history, Lesser Antilles, 156B28:347–349
 magmatic–hydrothermal transition, 176B4:1–56
 magmatic layering
 distribution and orientation, 209A10:21
 stereo plots, 209A7:78
 magmatic–metamorphic transition, 176B4:4–5
 magmatic minerals, replacement, 148B11:155
 magmatic structures
 gabbros, 179A4:9
 textures, 176A3:54–58, 65–69
 magmatic systems, subaxial, 179B(synthesis):7
 magmatic texture. *See* textures, magmatic
 magmatism
 age, 192B1:4–5
 anomalous near-trench processes, 125B38:649
 basement, 180B(synthesis):6
 composition, 163B8:87–90
 dating, 180B2:12–13
 evolution, 161B27:359, 369–371
 extensional tectonics, 161B44:575
 geochronology, 183A1:9; 183B1:25
 Indian Ocean, 120B(1):2:33
 intrusions, 209A3:10
 lava flows, 152A9:137–139
 lower Aptian, 192B1:4
 major episodes, 107B18:292
 Mesozoic, 149B1:15–16
 Miocene, 161B44:574
 ocean–continent transition, 149B47:725–729
 origin, 147B9:182–183
 plate tectonics, 183A1:50–51; 205B1:12
 range and diversity, 192A1:8
 rifting, 149B40:636–645; 210B1:1–55
 subduction zones, 125B30:519
 tectonics, 159B15:137–138; 180B(synthesis):4
 Tertiary, 152A1:12–14
 Tortonian, 107B38:716
 magmatism, bimodal, petromagnetism, 141B4:56
 magmatism, postrift, rifting, 210B1:21–24
 magmatism, synrift, reflectors, 173A1:10–11, 19
 magnesio-augite, diabases 180B3:6
 magnesio-chromite, occurrence, 127/128B(2)51:840
 magnesio-ferrite
 magnetic properties, 144B36:621, 622, 625
 photograph, 144B36:630
 magnesio-hornblende
 alteration, 147B13:238
 chlorine content, 118B9:198; 27:543
 gabbros, 147B1:6
 geochemistry, 176B4:11; 9:9–10
 photomicrograph, 176B9:66; 180B3:28
 secondary minerals, 180B3:7–8
 veins, 147B10:194; 176B9:30
 magnesite
 alteration, 197A3:24–30
 chemical composition, 127/128B(1)6:82–85
 clay, 180B17:20
 derived from lansfordite, 127/128B(1)6:80, 91
 formation, 127/128B(1)6:76, 85, 91–92
 isotopes, 127/128B(1)6:83
 occurrence, 127/128B(1)6:80
 organic carbon, 127/128B(1)6:92
 paleoenvironment, 127/128B(1)6:94
 petrography and textural relations, 127/128B(1)6:81
 scanning electron microscopy, 127/128B(1)6:97
 Site 799, 127/128B(1)6:75–98
 spectra, 134B9:150
 ultramafic rocks, 125B26:437
 volcaniclastics, 134B9:138–144
 X-ray diffraction data, 127/128B(1)6:80–81
 See also hydromagnesite
 magnesite, ferroan, occurrence, 127/128B(1)43:745–746
 magnesium
 alkali basalts, 129B19:374–375
 alteration, 121A12:399; 127/128B(2)51:842; 58:909,
 911; 169A5:221; 186B14:9; 187B5:9; 193A3:50,
 69; 193B1:19–20, 47; 206A3:71
 anhydrite, 158B10:121–124; 11:133–135
 authigenesis, 172A3:63; 4:125–126; 5:225–228;
 201B1:26
 Baffin Bay, 105A4:103–104; 105B12:175, 179
 Barbados Ridge, 110A1:22; 6:331, 335; 7:408, 415,
 418–419; 8:495–496; 9:525, 528–529;
 110B11:158–160, 175–175; 13:195–200; 26:407–
 408
 basalts 139A5:137–138; 192A1:28–30
 basement, 127A6:280; 127/128B(2)56:892–893;
 79:1265–1266; 185A4:29–30
 bioreactors, 207A7:28
 biotite, 176B9:11
 black shale, 207A4:25
 brines, 112A19:834
 bulk sediments, 199A8:17; 9:11; 10:18; 11:26–27;
 14:19
 Cagayan Ridge, 124A12:330
 calcite, 175A20:550–551
 carbon dioxide reduction zone, 188A3:46
 carbonates, 134B6:91–93; 139B14:315; 160A4:67, 69;
 160B35:448; 165B19:291; 166B13:141–142;
 14:147–148; 168B11:139, 141; 182B16:5;
 198B13:5
 Celebes Sea, 124A10:157; 11:239; 13:356
 chemical gradients, 119B18:359
 chemical reactions, 150X_B24:338–339
 chromian spinel, 135B33:565–584
 clay minerals, 158B20:281–283; 169B6:9
 comparison of profiles, 177A5:52
 concentration, 102A1:5–6; 3:139–146; 102B9:127–
 128, 131, 133; 107B11:161; 131A6:128–138;
 133A(1)4:108

- cordierite, 161B19:271–272
Costa Rica Rift, 111A2:27–28; 3:77–92, 116–117, 125;
4:266–270; 111B17:197–200, 208–210
depletion, 107A6:158; 117B30:508
diabases, 180B3:6–7
diagenesis, 124B14:204–205, 214–215; 144B16:327;
150X_B3:28; 160A7:188; 161A5:146; 6:236;
7:319; 180A9:41–44; 180B6:19
diffusion, 110B12:188; 189A5:49
discontinuities, 119A6:187
dolomite, 112B25:426; 117A11:357; 127A7:363–364;
133A(1)15:636, 638; 201B13:11
Eocene cements, 112B7:100
equivalent fraction, 168B7:87–94
evaporite dissolution, 107A28:435
evaporitic diagenetic crystallization, 124B31:423–425
Exuma Sound, 101A9:348–351; 10:3960–399; 11:444–
447; 101B20:294
false-color map in clinopyroxenes, 179B(synthesis):84
ferromanganese micronodules, 199B14:4
foraminifers, 144B57:993–995
gabbros, 153B5:82, 93; 176B8:3–4; 180B3:7
Galicia margin W, 103A8:145, 150; 9:253, 255;
10:431–435; 11:541; 12:591
geochemical logs, 111B11:121–122; 127/
128B(2)88:1395; 89:1415; 133B57:799
geochemistry, 103B29:491–492; 141A6:117;
158A7:126; 8:140; 9:173
Hauterivian–Barremian interval, 103B29:498–499
high-resolution vs. regular sampling, 119B20:395,
397
hyaloclastite, 206A3:70
hydrothermal circulation, 139B20:401–402; 169A1:9
hydrothermal sediments, 169A6:281; 199B15:3
Indus Fan, 117A8:179–180
interlayer cation composition, 156B10:140–141
intersite variations, 121A7:180; 10:284
Japan Sea, 127/128B(2)78:1236; 79:1265
Jurassic basement, 185A1:18
Labrador Sea, 105A5:455–458; 6:709, 713; 105B8:104;
12:175, 179
lateral flow, 160A8:250
Lima Basin, 112A11:184, 186; 19:824, 827–828;
112B25:432
limestone, 144A6:232; 7:275; 8:302; 144B24:440
lithology, 210A3:54
Little Bahama Bank, 101A6:130–131, 136, 137; 7:225;
8:278–281, 289
Maldives Ridge, 115A11:857, 863; 12:930; 13:1012–
1015; 115B34:642–643
marine diagenesis, 182B13:10
Mascarene Plateau, 115A5:259–260, 265;
115B34:642–643
mass balance, 169A3:99
mineral chemistry, 179B2:10–12
Miocene cements, 112B7:100
mobility, 127/128B(2)51:838; 183B15:9–10
Nazareth Bank, 115A4:144; 115B2:12; 34:642–643
normative vs. measured occurrence, 118B1:5
Northwest Providence Channel, 101A12:498; 13:534
Norwegian Sea, 104A4:176–179; 5:492–494; 6:648–
649; 104B7:235–241; 10:275; 12:288
olivines, 129B17:330
Oman margin, 117A11:347; 12:403; 13:432; 14:462;
15:480; 16:521; 18:578
organic matter, 207A8:27–28
Owen Ridge, 117A9:229–230; 10:281; 19:617–618
Pacific Ocean W, 124B31:414–415, 418–419
Paleocene/Eocene boundary, 199A1:84; 13:23;
199B16:3
palygorskite sediment, 123B41:785–786
periplatform sediments, 115B35:654
phenocrysts vs. bulk-rock numbers, 125B10:196–197
phyllosilicates, 129B17:339, 342–343; 136B11:135
Pisco Basin W, 112A18:726–727, 735
pore water, 112A13:328; 116A4:59, 61, 65; 5:106–110;
6:166, 169; 116B10:128, 132; 13:146–147, 150;
34:422–423; 117B30:507–510; 119B19:380;
50:929–931; 121A8:213; 121B22:448–451; 127/
128B(2)79:1263, 1268; 129A4:207; 129B14:269–
275; 130A8:324; 131A6:163, 166–167;
131B31:388–390, 394–396; 133A(1)4:101, 105,
107; 5:154–156; 6:188–190; 7:215–216; 8:265–
267; 9:316–319; 10:369; 11:430–431; 12:467–
468; 13:520–521; 14:581–582; 15:632; 16:707–
708; 17:781–783; 133B35:517, 520; 48:707–713;
134A7:114; 9:203–204; 10:279; 11:347; 12:416;
13:506–507; 135A(1)8:365–367; 9:432;
135B42:680–688; 136A4:55; 5:71;
138A(1)10:224; 11:299; 12:355; 139A5:118;
6:191; 141B25:316–319; 143A6:136; 7:215;
9:330–331; 144A3:67–68; 4:129; 5:179; 6:232;
8:302; 10:366; 144B43:738; 145A3:53; 4:97–98;
5:151; 6:239; 7:313; 8:352; 146B(2)25:331;
149A5:136; 7:244; 150A7:170, 172; 8:235;
10:333; 151A7:181–182; 8:239–240; 9:285–286;
10:332–333; 11:366–367; 154A4:87; 8:361–362;
156A6:147–149; 157A4:78; 5:124–125; 6:155;
7:358; 8:418–419; 9:459; 10:523; 157B38:630;
159A5:111; 6:195; 7:244; 8:285; 160A5:113;
11:392; 14:485; 161A6:235; 9:403; 164A5:89;
6:128; 8:264; 9:300–301; 165A3:74; 4:167;
5:260; 6:319; 8:396–398; 166A3:35; 6:93; 7:161–
162; 8:189–192; 9:251, 267; 10:313–317;
167B32:343, 349, 352; 168A1:11; 4:83; 5:135–
136; 6:176; 169A3:113–117; 4:171–175; 5:218;
6:274–281; 170A3:74; 4:134; 5:175; 6:205;
7:236; 171B_A3:77; 4:143; 5:208–210; 6:285–
287; 7:334; 172A6:286–288; 7:311–313;
173A4:90; 174A_A3:72–73; 4:122–123; 5:171;
175A3:72–73; 4:101; 5:129–130; 6:164; 7:189;
8:212–213; 9:255–256; 10:295; 11:325–326;
12:367–368; 13:409; 14:444–445; 15:472;
177A4:17; 5:20–21; 6:14; 7:15; 8:16; 9:13;
178A4:22; 5:19–20; 6:14; 7:16; 8:14; 9:15;
180A1:25; 5:31–32; 6:54–56; 7:21; 8:31; 9:39;
12:37–38; 181A3:23; 4:19; 5:20–21; 6:29; 7:39;
8:31; 9:21; 182A1:18, 24, 32; 4:30–31; 5:19–21;
6:28–29; 7:21; 8:24; 9:9, 21; 10:24–25; 11:14;
12:20; 184A4:22; 5:18; 6:14; 7:18–19; 8:8; 9:22;
186A1:10; 5:26; 186B1:4; 14:6; 188A4:30; 5:24;

- 189A3:44, 161; 4:21–22, 60; 5:48, 158; 6:52, 166; 7:45, 140; 190A4:18, 64; 5:23, 70; 6:16–17; 7:13–15; 8:16–17, 44; 193B4:4–7; 194A3:15–16; 4:21; 5:17; 6:13; 9:16; 195A3:33–37; 4:34–36; 195B9:3–4; 198A3:36; 4:28; 5:28; 6:25; 7:24; 8:22; 9:30; 199A8:16; 9:10; 10:16–17; 11:26; 12:26; 13:22; 14:18; 15:12; 202A1:24–25; 3:13; 4:15; 5:13–14; 6:15; 7:18; 8:23–23; 9:19; 10:18; 11:16; 12:16; 13:14; 204A6:11; 8:13; 205A4:46–47; 5:30; 6:15; 206A3:39–40; 207A6:31; 208A3:20; 4:18; 5:14; 6:23; 7:21; 8:22
- pore water depletion, 129B14:270
- Prydz Bay, 119A8:312; 9:360; 10:385; 11:418; 12:466
- pyroxene, 153B27:484–487
- removal, 148B9:114–115
- replacement, 123B3:82
- Salaverry Basin, 112A12:266–267, 270; 13:323; 16:550, 565
- sea-surface temperature, 115B36:671
- seawater reactions with basement, 165B19:293–294
- sediment/water interface, 134A9:204
- sediments, 129B2:45, 50; 130A7:251; 134A8:156–157; 139A7:317; 149A4:99; 152A12:272; 156A7:231–232; 166A11:363–364; 166B14:148–151; 17:186–188; 167A(1)4:75; 5:104–105; 6:145; 7:166; 8:193; 9:232; 10:261; 11:295; 12:329; 13:368; 14:406; 15:447; 16:475; 169S_B1:40; 171B_B4:4–5; 186A1:13; 4:38–39; 190A9:18; 195A4:36; 201A1:31; 205A4:24; 206A3:42; 208A5:17
- Serocki Volcano, 106/109A4:62
- serpentinite, 149B31:532–535
- shipboard vs. shore-based digestion, 206B3:14
- shore-based flux vs. shore-based microwave acid digestion, 206B3:12–13
- silicate formation, 119A8:312
- siliceous deposits, 129B2:41; 198B17:9–10, 24
- Site 682, 112A14:389
- Site 685, 112A17:628–632
- Site 688, 112A20:912–913
- Site 690, 113A7:230
- Site 693, 113A8:375
- Site 694, 113A9:484
- Site 696, 113A11:648–649
- Site 699, 114A5:174; 114B37:692–695
- Site 700, 114A7:276
- Site 701, 114A8:389
- Site 702, 114A9:499
- Site 703, 114A10:567
- Site 704, 114A11:648
- Site 708, 115A6:414, 416; 115B34:642–643
- Site 709, 115A7:479–480, 486; 115B34:642–643
- Site 710, 115A8:609, 613; 115B34:642–643
- Site 711, 115A9:674, 680; 115B34:642–643
- Site 736, 119A5:139; 119B18:356
- Site 737, 119A6:185–186
- Site 738, 119A7:255
- Site 744, 119A13:491
- Site 745, 119A14:516–517
- Site 746, 119A15:544
- Site 747, 120A6:117–118, 136
- Site 748, 120A7:208–209
- Site 749, 120A8:260
- Site 750, 120A9:312–313
- Site 751, 120A10:357
- Site 765, 123A4:147; 123B3:82–83
- Site 766, 123A5:303, 308
- Site 779, 125A7:126
- Site 780, 125A8:159
- Site 782, 125A10:211
- Site 783, 125A11:260
- Site 794, 127A4:109–110
- Site 795, 127A5:174, 205
- Site 796, 127A6:280
- Site 797, 127A7:363–364, 370
- Site 798, 128A4:173–174, 182
- Site 799, 127/128B(1)34:611; 128A5:318, 329
- Site 804, 130A6:202
- Sites 849 and 850 comparison, 138A(2)15:855
- sources, 119A9:362
- Southern Ocean, 114B37:721
- spinel, 135B34:590–591
- Straits of Florida, 101A5:64–66; 101B20:282
- sulfate reduction, 112A1:17; 117B30:508; 188A3:44–45
- Sulu Sea, 124A11:239, 241, 263–265
- surface water salinity adjustment, 133A(1)13:524
- Tiburón Rise N, 110A5:231–235, 261; 110B11:159, 175; 13:194; 26:407–408
- transport, 101B24:376–377
- Trujillo Basin, 112A16:553–554, 565
- ultramafic rocks, 118A1:13
- veins, 176B9:33–34
- velocity and density, 199B13:6
- vertical distribution gradient, 119B18:363, 366–367, 371–373; 19:380–381, 385–388, 391; 121A12:398
- vesicle depletion, 135B37:615
- volcanics, 121A6:136; 10:283–284; 11:334; 13:492; 127A6:280; 7:363–364; 127/128B(2)87:1382; 131A6:172; 135B27:492–494; 163A3:28; 163X_A8:8; 183B17:2; 203B2:4
- vs. alkalinity, 139B20:402
- vs. aluminum, 157B12:167
- vs. aluminum/iron ratio, 111A3:120
- vs. ammonium, 185A4:118
- vs. assigned ages, 130A12:551
- vs. barium, 139B20:404
- vs. borehole-fluid components, 137/140B13:146
- vs. boron, 127/128B(1)36:642; 139B20:402
- vs. bromide, 139B20:401
- vs. calcium, 119A6:193; 7:259; 11:420; 13:493; 14:522; 121A10:286; 127A4:115; 134A7:114; 135B43:699; 137A2:43; 139B20:404; 148A2:55; 152B25:295, 298; 177A5:53; 184A4:22, 59; 9:69; 185A4:118; 186B14:10, 23; 188A3:130; 189A7:86; 194A3:47; 5:64; 6:49
- vs. calcium and sulfate, 110B11:174
- vs. calcium carbonate, 123A4:156, 159
- vs. calcium oxide, 117A11:357
- vs. carbonate trace elements, 148B10:149
- vs. cesium, 139B20:403

- vs. charge balance, 166A10:316
- vs. chloride, 139B20:401; 22:434; 185A4:118
- vs. copper, 139B20:405
- vs. depth, 103B29:492–496; 110A6:336; 111A2:31; 4:270; 113A5:129–130; 6:237; 8:380; 9:485–486; 10:561–562; 11:650–651; 12:736–737; 113B10:138–143; 114B37:687; 129A2:60; 3:125; 130A12:549–551; 133A(1)4:103; 9:318; 10:372; 12:474; 13:523; 14:582, 584; 15:633, 641; 16:710–711; 17:783; 134A7:113; 8:160; 9:207–209; 10:282, 285; 12:422–423; 13:506–507; 134B8:113, 117–118, 124–126; 135A(1)4:128; 5:220; 8:368; 10:539; 11:629; 136A4:56; 136B6:78–79, 82–83; 137A2:37, 42; 137/140B13:145; 138A(1)9:160; 10:234; 11:300; 12:362; (2)13:711; 14:776, 779; 16:937; 17:999; 18:1048; 19:1085; 139A5:128; 6:195; 7:338; 8:476; 139B14:319; 22:434; 32:689; 141A8:281–282; 10:406–407; 141B26:328; 29:369–370; 143A6:139; 9:332; 144A3:73; 4:130; 5:182; 10:368; 145A3:64; 4:105; 5:152; 6:244; 7:321; 8:361; 146A(1)4:86; 5:189; 6:270; 7:345; 146B(1)7:139–140; 148A2:55; 3:128; 148B9:112, 115; 149A4:100; 5:136; 6:192; 7:245; 150A6:103; 7:172; 8:236; 9:290; 10:333; 150B17:324; 150X_B24:334; 151A5:82; 6:130; 152A8:102; 11:238–239; 12:271; 152B25:298; 156A6:148; 7:239; 156B12:165, 168; 13:179, 181; 157A4:79; 5:125; 6:157; 7:365; 8:420; 10:527; 159A5:110; 6:194; 7:245; 8:285; 9:311; 160A4:80; 5:114; 7:192; 8:255; 9:314; 10:367; 11:394–396; 12:437; 14:487; 161A4:92; 5:152; 6:260–261; A7:332; 8:387; 9:412; 161B33:425–427; 164A6:131; 7:203; 8:271; 9:303; 164B15:155; 30:305; 165A3:75; 4:167; 5:260; 165B19:292–295; 166A1:9; 7:163; 8:189; 9:253; 10:314; 11:363; 166B13:142; 17:182–185; 167A(1)4:79–80; 5:110–111; 6:148; 7:170; 8:204; 9:232; 10:265; 11:302; 12:339; 13:371; 14:414; 15:447, 456; 16:480; 167B32:350; 168A4:83; 5:144; 6:181; 169A3:112–116; 4:176; 5:220; 6:276–282; 169B2:8, 18; 170A3:80; 4:134; 5:178; 6:207; 7:238; 171B_A3:84; 4:147; 5:217; 6:296; 7:341; 171B_B4:8; 172A3:62; 4:137; 5:227–228; 6:286–287; 174A_A3:75; 4:126; 5:173, 175; 175A3:78; 4:107; 5:134; 6:169; 7:191; 8:215; 9:260; 10:300; 11:331; 12:370; 13:415; 14:450; 15:478; 20:551–552; 177A3:33; 4:48; 5:51; 6:43; 7:34; 8:50; 9:41; 178A4:77; 5:70; 6:49; 7:52–53; 8:47; 180A1:49; 5:84; 6:164; 9:116; 12:120; 181A3:54; 4:40; 5:46; 6:73; 7:93–94; 8:75; 9:49; 182A4:64–65; 5:45; 6:68; 7:49; 8:52; 9:43; 10:53; 11:30; 12:45; 182B16:11–12; 184A4:59; 5:57; 6:38; 7:56; 8:23; 9:68; 185A4:117; 186A4:129; 5:74; 186B14:18–19; 188A3:126; 4:76; 5:65; 189A1:89; 3:94; 4:40; 5:93; 6:107; 7:85; 190A4:64; 5:70; 6:46; 7:38; 8:44; 193B1:67; 194A3:46; 4:80; 5:63; 6:48; 8:53; 9:43; 195A1:55; 3:116; 4:133; 195B2:25; 9:7; 10:6; 198A3:96; 4:67; 5:66; 6:59; 7:55; 8:53; 198B13:8–14; 199A8:35–36; 9:26–27; 10:39–40; 11:64–65; 12:69–70; 13:53–56; 14:38–41; 15:30; 199B15:5; 16:6; 202A3:36; 4:48; 5:42; 6:47; 7:55; 8:67; 9:63; 10:58; 11:53; 12:63; 13:51; 204A3:60; 4:62, 66; 5:29; 6:40; 7:37; 8:49; 9:47; 10:53; 205A4:146; 5:83; 206A3:149; 206B3:15; 207A4:58; 5:68; 6:67; 7:63; 8:59; 208A3:57; 4:58; 5:48; 6:67; 7:57; 8:56
- vs. elements, 137/140B13:151; 169A3:118; 4:172–173, 178
- vs. iodide, 139B20:401
- vs. iron, 139B20:405; 149B31:539; 33:555; 168B10:126; 179B2:40
- vs. lithium, 139B20:403
- vs. loss on ignition, 127/128B(2)51:839
- vs. magnesium/chloride ratio, 189A6:107
- vs. manganese, 139B20:405; 149B33:555–556; 179B2:42
- vs. oxygen isotopes, 141B25:318; 144B24:443; 148B10:148
- vs. pH, 139B20:402
- vs. potassium, 137A2:43; 139B20:403; 185A4:118
- vs. rubidium, 139B20:403
- vs. silica, 137A2:43; 139B20:402; 148A2:55
- vs. smectite, 127/128B(2)78:1250
- vs. sodium, 118B15:272; 137A2:43; 139B20:403; 148B9:112; 185A4:118
- vs. strontium, 139B20:404; 144B24:445; 177A5:53; 185A4:118; 207A4:59
- vs. strontium/calcium ratio, 139B14:325
- vs. strontium isotopes, 127/128B(1)36:645
- vs. strontium/zirconium ratio, 135B25:452
- vs. subbottom depth, 141A6:120; 7:217–218
- vs. sulfate, 137A2:43; 139B20:401; 166A10:316; 194A3:48; 5:65
- vs. zinc, 139B20:405
- vs. zirconium, 135B25:449
- water-sampling probe, 164A7:196
- weathered basalt, 152B9:119, 121
- weathering, 120B(1)8:103–104
- X-ray fluorescence data, 160B35:450
- Yaquina Basin, 112A15:464, 467
- See also* alkalis-iron-magnesium diagrams; calcium/magnesium ratio; iron-potassium-magnesium plot; iron/(iron + magnesium) ratio; (iron + magnesium)/titanium ratio; iron, total/(total iron + magnesium) ratio; lithium/magnesium ratio; silicon + aluminum + magnesium + iron system
- magnesium, dissolved
 - pore water, 201A7:15; 201B11:2–3
 - vs. age of sediment, 130A10:534
 - vs. depth, 169S_A2:55, 58; 201B11:9–14
- magnesium, excess
 - vs. charge imbalance, 182A9:46
 - vs. depth, 182A5:47; 8:54; 10:55
- magnesium, normalized, vs. depth, 166A6:95; 7:163
- magnesium, titration, vs. atomic absorption, 134A9:204
- magnesium, total, vs. total iron, 168B13:157
- magnesium/aluminum ratio
 - Japan Sea sediment, 127/128B(2)78:1236
 - lithology, 207B8:23

- nannofossil clay, 184B12:6–7
sediments, 171B_B4:4
Site 794, 127/128B(2)78:1249
volcanic input indicator, 127/128B(2)78:1239
vs. depth, 157B31:555; 160B17:210–212; 171B_B4:11
vs. potassium/aluminum ratio, 160B17:213
magnesium-brucite system, serpentinization, 147B14:282–283
magnesium-calcium-silicon-oxygen-hydrogen system, 209A6:17–18, 77
magnesium carbonate
authigenic carbonates, 204B5:2–3
calcite, 168B10:126
carbonates, 156B5:85–87; 168B11:139–142
sediments, 166B14:147–151
values, 156B5:95
vs. depth, 166B14:152; 204B5:5
magnesium/chloride ratio
diagenesis, 166A9:255
interlayer cation composition, 156B10:140
pore water, 207A6:31
secondary minerals, 142B9:71–72
vs. depth, 139A7:482; 146A(1)7:347; 146B(1)25:382; 160A8:256; 9:314; 14:487; 160B44:572; 161B33:430–431; 164A8:273; 166A3:35; 9:253; 189A3:95; 207A6:68; 8:60
vs. potassium/chloride ratio, 207A6:70; 8:61
magnesium chlorite. *See* chlorites, magnesian
magnesium chlorite, potassium logs vs. photoelectric effect logs, 178A5:85
magnesium ion, geochemistry, 193B1:27
magnesium + iron, vs. silica, 209B2:6, 8–9
magnesium/iron ratio
basalts, 127/128B(2)56:893–894; 180A12:27
biotite, 129B17:321
coexisting liquid in augite, 127/128B(2)53:868
diopside, 176B9:10, 65
metadiabase, 180A8:19
olivine vs. coexisting liquid, 127/128B(2)53:866
partitioning, 125B10:183
saponite, 129B17:323
magnesium-kutnohorite
carbonate veins, 156B5:84–85, 92; 29:356
X-ray diffraction data, 156A6:116
magnesium/(magnesium + iron + manganese) ratio, vs. aluminum, 153B21:394
magnesium/(magnesium + iron) ratio
transition zone, 148B34:425
vs. aluminum, 139B10:184; 148B10:125; 168B12:154
vs. chromium/(chromium + aluminum) ratio, 153B29:516
vs. interlayer potassium, 148B10:125
vs. octahedral occupancy, 148B10:125
vs. potassium, 168B12:154
vs. silicon, 137/140B13:149; 14:159; 18:210; 158B18:242
magnesium number
alteration, 168B10:120–121
amphiboles, 176B4:20
amphibolite, 173A6:133; 173B10:4
augite, 153B9:158–160
average in igneous and recrystallized clinopyroxene and orthopyroxene, 153B5:96
basalts, 129B19:379; 130A5:152; 137/140B5:54; 152B30:366; 158B17:215; 163A4:39; 163X_A8:10–11; 169A3:95–96; 5:215–216; 176B10:27; 183A5:35; 192A6:17; 7:8; 195A4:195–196
basement, 128A3:98; 183A6:48; 8:18; 9:26–27
breccia clasts, 173A7:196
bulk rock and mineral chemistry, 153B10:203–205
chemical stratigraphy, 176A3:51–53; 176B(synthesis):16, 33–45; 6:22–23
chrome spinel, 147B8:165; 159B14:134, 136
clinopyroxenes, 153B10:217; 11:256, 260; 163X_A8:23; 176B8:18–19; 10:12; 187B2:4; 200B2:15
compared to clinopyroxene and orthopyroxene of gabbros, 147B1:7
core-to-rim electron microprobe transects, 147B8:164; 147B9:179
crystallization, 153B10:210–211; 176B10:23–25; 205B9:12
diabases, 118B26:476; 153B10:223
diopside, 176B9:10
false-color map in clinopyroxene, 179B(synthesis):84
fractionation, 153B11:261–263
frequency distribution, 129B19:381
gabbroites, 153B5:93–94
gabbros, 118A6:100; 118B26:476; 153B6:108–109; 17:335–338, 342, 348; 18:352–355; 176A3:53; 176B(synthesis):17–18; 3:3; 6:16–17, 21; 8:5–14; 12:3; 179A2:5; 4:8, 45–47; 179B(synthesis):12–13, 16–26; 2:12–21; 205A4:34–35; 209B1:7
harzburgites, 153A3:74
histograms 179B(synthesis):68, 90
hornblende, 176B10:14
igneous rocks, 118B4:82; 139A6:237; 163X_A4:13; 5:5; 6:22; 7:5; 8:35; 176A1:17–18; 3:49–50; 209A10:25–26
intrusions, 176B10:18–19
lava, 163A5:59; 206A3:65; 206B1:6; 5:6
mafic and ultramafic rocks, 153B10:187–189, 198
mafic rocks, 153A3:68
magmas, 153B12:271; 187B2:7–9
melts, 147B2:42, 54; 152B30:365
metamorphism, 153B21:391–393
mineral chemistry, 179179B2:10–12
olivine gabbros, 176A3:21; 176B8:22
olivines, 152B33:406; 153B26:459; 176B8:18–19; 179B2:66–68; 187B2:3, 6–7
orthopyroxenes, 176B8:18–19; 10:14
oxide vs. olivine gabbros, 118B4:83
peridotites, 153B13:278–280; 209A3:34; 6:28; 7:21
phenocrysts, 163X_A5:6; 6:23
plutonic rocks, 153B10:218
pyroxenes, 179B2:32, 61–64
relative position, 163X_A1:16
samples, 153B5:98
saponite, 168B12:154
serpentinites, 173A7:196; 9:284; 195A3:20–21
silicates, 176B10:42

- Site 794, 127/128B(2):51:839
 Site 797, 127/128B(2):51:839
 Sites 735 and 1105 comparison, 179B(synthesis):82
 spinels, 127/128B(2):51:840–844; 152B33:407;
 163X_A8:22; 209B4:4
 stratigraphy, 163X_A8:12, 34
 tholeiitic basalts, 192A5:15; 203A3:13
 titanium oxide, 153B13:279
 troctolites, 209A10:23
 ultramafics, 195A3:150–151
 variations in deformed clinopyroxene, orthopyroxene, and olivine in lava, 163X_A6:43
 volcanics, 152B28:342; 163B7:67–74; 163X_A8:8–9
 volcanism, 163X_A8:15–16
 vs. across-channel distance, 153B12:272–273
 vs. aluminum, 176B4:11, 37; 179B2:38
 vs. aluminum number, 153B12:270
 vs. aluminum oxide, 139B6:87; 142A4:71;
 153B13:279; 14:299; 157B22:380; 176B4:34;
 10:39, 41; 179B(synthesis):85; 203A3:51;
 209B2:6, 8
 vs. anorthite percentage, 137/140B1:9; 3:39;
 153B11:251; 17:338; 176B8:18; 179B(synthesis):91; 179B2:46
 vs. basalt liquidus temperature, 176B8:19
 vs. calcium, 137/140B1:9
 vs. calcium number, 176A3:21, 120; 176B3:8; 8:20
 vs. calcium oxide, 139B6:87; 142A4:71; 153B17:349;
 176B10:41
 vs. calcium oxide/aluminum oxide ratio, 139A5:148;
 6:264; 7:377; 8:529; 176B8:20; 205A4:116
 vs. calcium oxide/(calcium oxide + sodium oxide) ratio, 153B10:218
 vs. chromium, 137/140B1:9; 148B3:28; 153A4:147;
 6:239; 153B31:538; 176B8:25; 179B2:38;
 209A10:117
 vs. chromium number, 149B21:386; 153B12:269;
 13:281; 14:299; 16:325; 157B22:381–382;
 159B15:137; 163B11:127–128; 209B2:7; 4:14
 vs. chromium oxide, 137/140B3:37; 142A4:71;
 153B11:254; 13:279; 17:339; 176B10:39, 41;
 179B(synthesis):85
 vs. clinopyroxene number, 176B8:24
 vs. clinopyroxenes, 176B8:24
 vs. copper/nickel ratio, 137/140B17:203
 vs. depth, 140A2:88; 147B1:13; 2:50; 29:485–486;
 149B27:482; 153A4:151; 153B6:111; 10:211,
 220, 223, 225; 11:255; 169A3:97; 173A6:140;
 176A1:62; 3:48–52, 166, 175–176; 176B(synthesis):51, 57–60, 64–66; 3:9; 4:22; 6:31, 40–41;
 7:14; 8:12–13, 27–30; 10:45–51; 12:8; 179B(synthesis):81, 92, 104; A4:125; 179B2:45; 183A5:98,
 121; 6:133; 8:65; 206A1:85; 3:65, 198
 vs. distance from dikelet, 153B11:259
 vs. forsterite, 176B10:43–44; 179B(synthesis):91
 vs. iron/magnesium ratio, 176B4:42
 vs. iron number, 163B11:127–128
 vs. iron oxide, 139B6:87; 142A4:71; 153B10:218
 vs. loss on ignition, 169A3:98
 vs. magnesium oxide/silica ratio, 153B10:210
 vs. magnetic susceptibility, 176B11:22–23, 27–28, 65
 vs. major elements, 148A2:59; 3:151; 153A4:147;
 5:194; 6:239; 163X_A8:29; 183A6:134; 8:64
 vs. manganese, 137/140B1:9; 179B2:38
 vs. manganese oxide, 179B(synthesis):85
 vs. minor elements, 205B9:26–27
 vs. nickel, 153A4:147; 5:194; 6:239; 153B18:354;
 173A6:140; 7:198; 176B8:25; 209A1:111, 133;
 7:95; 10:117
 vs. nickel oxide, 153B11:259; 179B(synthesis):93;
 187B2:17–18, 21
 vs. niobium, 176B8:26
 vs. olivine from peridotites, 149B21:383
 vs. oxides, 147B1:10; 168A4:71; 5:125, 139
 vs. oxides and ytterbium, 137/140B11:126
 vs. phosphorus oxide, 179B2:50
 vs. potassium oxide, 176B10:41
 vs. rare earths, 173B10:14–16
 vs. relative stratigraphic height, 163B7:69
 vs. remanent magnetization, 153B24:432
 vs. samarium/neodymium ratio, 147B1:12
 vs. silica, 137/140B20:238; 139B6:87; 153B9:175–176;
 209A1:88, 103, 118; 10:114
 vs. sodium, 153B31:538; 179B2:38
 vs. sodium number, 176B3:8
 vs. sodium oxide, 139B6:87; 142A4:71; 153A4:147;
 153B10:218; 11:254; 13:279; 17:339; 176B10:39,
 41; 179B(synthesis):85
 vs. strontium, 153B13:282; 176B8:26
 vs. titanium, 139A6:264; 8:530; 153B31:538;
 179B2:38
 vs. titanium/aluminum ratio, 179B2:39
 vs. titanium/zirconium ratio, 203A3:51
 vs. titanium oxide, 137/140B7:88; 139A5:148;
 139B6:87, 96; 140A2:86–87; 142A4:71;
 143B16:269; 147B2:54; 153B11:254, 260;
 17:340; 29:515; 157B22:380–381; 163B7:69;
 169A5:217; 173A6:140; 7:198; 173B10:11;
 176B4:34; 8:25; 10:39, 41; 11:64; 192A1:46;
 3:110; 4:16, 85; 5:73; 6:75; 7:37; 179B(synthesis):85, 94
 vs. trace elements, 148A2:59; 3:156; 205B9:26–27
 vs. vanadium, 176B8:25
 vs. water content, 140A2:90
 vs. yttrium, 153A4:147; 5:194; 6:239; 176B8:26
 vs. zinc, 153A4:147
 vs. zirconium, 153A3:79; 6:239; 153B13:282;
 176B8:26; 209A1:118, 137; 209B1:29
 vs. zirconium and chromium, 147B1:15
 See also iron/(iron + magnesium) ratio; nickel oxide/
 magnesium number ratio
 magnesium number, in clinopyroxene
 vs. aluminum oxide, 206B5:25
 vs. anorthite content, 153B5:94
 vs. major oxides, 153B5:95
 vs. titanium oxide, 206B5:25
 magnesium number, in gabbros, 209A1:136
 magnesium number, whole-rock
 vs. whole-rock chromium, 179B(synthesis):78
 vs. whole-rock copper, 179B(synthesis):78
 vs. whole-rock manganese oxide, 179B(synthesis):71
 vs. whole-rock modal oxide, 179B(synthesis):70

- vs. whole-rock nickel, 179B(synthesis):78
vs. whole-rock silica, 179B(synthesis):70
vs. whole-rock titanium oxide, 179B(synthesis):70–71
magnesium oxide
Albian–Turonian sedimentology, 210B8:7
alkalis-iron-magnesium diagram, 153B10:210;
205B9:24
alteration, 168A5:124; 168B10:128; 183A7:153;
183B1:12; 185A3:16–18; 187B1:7–8; 5:10–11;
193A3:69, 71; 200A3:31
Atlantis Bank, 118B6:136
basalts, 115B7:73; 8:87; 121A11:335; 12:393;
121B30:571; 123A4:194; 134A9:200;
152A11:229; 152B28:344; 30:363–366; 40:491,
498; 163B9:99–112; 163X_A8:9–11; 165A6:329;
169A3:95; 5:216; 180A12:27; 183A5:34–35;
185A4:24; 187A1:8–9, 13; 3:9–11; 6:10–11;
7:10–12; 8:11–12; 9:8–10; 10:5–6; 11:12–13;
12:11; 13:14; 14:7–8; 15:11–12; 192A6:17; 7:8;
192B1:5; 195A4:23; 196A3:32, 96; 200A4:36–37
basement, 183A1:7, 34–35; 6:48; 7:132; 8:18; 9:26–29;
197A4:18–19; 200B2:3; 206B8:2–3
black shale, 210B8:16
bulk rock and mineral chemistry, 153B10:199–205
carbonates, 168B11:139, 144; 176B9:14
chlorite, 176B9:11
clay minerals, 158B20:280–282; 169B6:6, 23
dacite lava, 193B2:8
diabases, 153B10:223; 19:364–365, 371; 209A7:23
diagenesis, 195A4:35–36
electron microprobe data, 148B14:210; 39:487
felsic rocks, 183A7:41
fractionation effects, 121B32:622, 624
gabbro-norites, 209A7:24
gabbros, 153B28:495; 176A3:53; 176B6:17; 8:4–14;
179A4:45–47; 205A4:34; 209A3:35; 10:24
garnets, 183B16:2
geochemical logs, 118B15:279
harzburgites, 153A3:73–74
igneous rocks, 123A5:325; 135A(1)4:149–151;
163X_A4:13; 209A5:35–39; 10:25–26
ilmenite, 118B3:56
lava, 121B32:626–628; 135B24:403; 152B28:341;
183A1:14; 197A3:22; 5:16–17; 6:14–15
Lima Basin C, 112B29:484
limestone, 143B13:210, 212, 217, 220
lithology, 183A1:22; 4:19; 7:39; 207B8:9; 210A3:29
magmas, 152B40:494
magnesium augite and pyroxene magnesium number,
115B3:30, 32, 36, 39
mantle domains, 187A3:11; 7:12; 12:11; 13:14
Mascarene Plateau, 115B2:14–16
melting regime, 187B1:15
metadiabase, 180A8:18
metamorphic clasts, 195B4:7–8
micas, 176B9:11
mineral separates, 158B2:29; 7:94
Nazareth Bank, 115B2:14–16
nickel, 135B24:412
Ninetyeast Ridge, 121A10:281
olivines, 153B14:300; 187B2:5
percent change from protolith, 137/140B17:203
peridotites, 153B14:289; 209A3:34; 6:28; 7:21
phlogopite, 176B9:11
phyllosilicates, 206B7:2–3
pillow basalts, 187A1:42; 4:6–7; 5:7
plagioclase, 135B27:492
profiles across microbially processed glass,
148B13:200
provenance, 200A3:34
quartz gabbros, 180A11:6
reduction, 168B10:131–133
residue-melt segregation, 121B32:633
sediments, 151A7:184; 8:241, 243; 9:287; 10:333–334;
11:367–368; 155A8:193; 167B25:284–288;
170A4:140–141; 6:206; 172B5:22; 180B6:8–10,
15–24; 184B19:6; 205A5:17
serpentinities, 125B18:334; 173A7:196; 9:284;
195A3:20; 195B4:6–7
Site 713, 115B2:14–16
Site 715, 115B2:14–16, 19
Site 765, 123A4:159, 160; 5:326; 123B2:69; 8:177
spinel, 152B33:407
stratigraphy, 163X_A8:12, 34
sulfides and sediments, 158B3:43
tektites, 150B13:248–250, 253–258
tephra, 186B9:9, 16–17
tholeiitic basalts, 121A10:277; 183A8:19; 192A5:15;
203A3:13; 203B2:4–8
titanium oxide ratio, 123A5:326; 123B2:69
troctolites, 209A10:23
tuffs, 129B4:130
variation diagrams, 136A5:86
veins, 176B9:15
volcanics, 125B8:136; 15:279; 131B14:178–182;
141B27:338, 342; 152A13:288; 161B27:364–
369; 163A5:64; 163B7:67–74; 165A3:82; 4:180;
183A7:40–42; 200B2:13–14; 201B19:10–11
volcaniclastics, 134B9:151; 157A7:354–355
volcanism, 197A3:22–24
vs. age, 184B19:19
vs. alteration, 137/140B6:70; 148B4:49
vs. aluminum, calcium, and iron oxides, 203A3:16–
17, 24
vs. aluminum oxide, 121A11:329; 125A18:328;
135B25:442–444; 137/140B4:45; 142B6:45;
151B17:317–322; 153A3:75; 153B19:366;
161B28:377; 173A7:199; 9:286; 180B6:18, 41;
183A5:118; 185A3:108; 197A1:73; 5:68; 6:70;
209A6:102, 108; 10:119; 210B8:26
vs. aluminum oxide/calcium oxide ratio, 183A5:118;
6:137
vs. anorthite, 137/140B15:173; 148B34:428
vs. barium, 135B24:409; 26:477; 197A3:97; 200A1:65;
3:108; 4:113
vs. barium/rubidium ratio, 135B26:477
vs. calcium, 135B26:479
vs. calcium oxide, 134B21:409; 135B24:404; 25:442–
444; 136B9:111; 137/140B4:45; 142B6:45, 47;
145B23:370; 148B13:197–199; 149B29:502;
151A5:86; 151B17:317–322; 152A11:229;
153B17:348–349; 19:366, 371; 157B12:150;

- 15:240-245; 180B6:8-9, 33; 197A1:73; 3:96;
5:68; 6:70; 200B1:43
- vs. calcium oxide/aluminum oxide ratio, 121B32:639;
135B25:445; 140A2:92; 152B30:367;
158B17:224
- vs. calcium oxide and aluminum oxide, 148B2:19
- vs. carbon, 134B9:161
- vs. cerium, 163B7:68
- vs. chloride, 157B16:283; 23:406; 25:426; 209B2:6-9
- vs. chromium, 153A3:78; 176A3:49, 169; 180B6:14,
16, 37; 209A7:99
- vs. copper, 180B6:14-16, 37
- vs. copper oxide, 168B14:171
- vs. depth, 134B18:368; 135A(1)9:449; 135B4:66-70;
137/140B7:91; 143B15:249; 148A2:60, 62;
3:157; 148B4:48; 10:136; 34:422; 39:484;
149B12:291; 23:422-423; 27:482; 151A5:86;
6:131; 151B19:358; 152B31:375; 32:394; 34:423;
156B1:24; 167B25:285; 169A3:97; 170A4:140;
176B6:39; 179A4:125; 180A6:131; 183A4:59;
6:133; 7:134; 9:92; 185A1:46; 3:107; 193A3:223;
4:191, 193; 200B1:26; 2:13; 205A4:83, 114;
5:60; 206A1:82; 3:152, 195; 210B8:48
- vs. distance from Southeast Indian Ridge, 187B5:23
- vs. fluorine, 157B16:283; 23:406; 25:426
- vs. iron oxide, 135B25:442-444; 29:523; 137/
140B4:45; 142B6:45; 145B22:337, 339;
151B17:317-322; 152B30:371; 153B19:366;
158B20:283; 162B16:228; 163X_A8:30-31, 36;
183A5:118; 6:137; 185A4:109; 186B9:25;
203B2:21; 209A3:138; 5:148; 6:103, 108; 7:93;
9:85; 10:116, 119; 209B2:6, 8-9
- vs. iron oxide/magnesium oxide ratio, 180A12:95;
200B2:16
- vs. kaolinite, 156B1:30
- vs. loss on ignition, 123A199; 136B11:140;
148B10:139; 149B29:502; 163X_A8:28;
169A3:98; 195B4:18; 209A6:102; 7:93
- vs. magnesium/(magnesium + iron) ratio,
144B28:481, 484
- vs. magnesium number, 148A2:59; 3:151; 168A4:71;
5:125
- vs. magnesium oxide/(magnesium oxide + iron oxide)
ratio, 141B28:359
- vs. major elements, 135B25:440; 148B3:23, 30-31,
34-35; 151B18:344; 152B8:100; 157B16:282-
283; 22:384-385; 162B16:228; 163B9:102, 106;
183A9:94; 187A3:24; 4:17; 5:17; 6:36; 7:33;
8:51; 9:21; 10:24; 11:35; 12:41; 13:41; 14:28;
15:42; 187B1:35; 2:20; 200B2:10; 206A1:88;
3:199; 209A7:97
- vs. major oxides and trace elements, 183A4:57
- vs. neodymium, 135B26:478
- vs. nickel, 121A12:402; 121B32:621, 629; 131A6:198;
135B29:523; 153A3:78; 153B19:366; 176A3:49,
168, 168; 180B6:14-16, 37, 39; 183A5:118
- vs. niobium, 135B26:478; 197A3:96
- vs. number of cations in octahedral sites of clay min-
erals, 148B11:163
- vs. oxides, 152B5:61
- vs. phosphorus, 157B23:406
- vs. phosphorus oxide, 134B21:409; 135B4:60; 25:442-
444; 136B9:111; 11:145; 137/140B4:45;
142B6:45; 197A1:73; 3:97; 5:68; 6:70;
200A4:112
- vs. phosphorus oxide/titanium oxide ratio,
157B22:385; 203B2:13, 22
- vs. potassium/titanium ratio, 136B11:145; 203B2:26
- vs. scandium, 197A3:96; 5:70; 6:71
- vs. silica, 134B18:370; 19:384; 135B4:59, 64; 26:479;
136B4:61; 137/140B4:45, 54; 144B29:503;
151A5:81; 151B11:357; 17:317-322; 152B2:23;
156B28:350; 157A7:362; 157B13:192; 18:324;
183A5:118; 7:133, 137; 193B2:21; 195B4:19, 26;
200A1:65; 3:108; 200B1:43; 201B19:27, 29;
209A3:137, 140; 5:148, 154; 6:102; 7:93; 9:84;
209B2:9
- vs. sodium oxide, 121A12:401; 135B24:405; 25:442-
444; 29:523; 137/140B4:45; 142B6:45;
153B19:366; 158B17:224; 197A1:73; 5:68; 6:70
- vs. sodium oxide/titanium oxide ratio, 187A1:4-5, 13,
43-44; 3:26; 4:19; 5:19; 6:38; 7:35; 8:53; 9:23;
10:26; 11:37; 12:43; 13:43; 14:30; 15:44
- vs. strontium, 135B29:523; 137/140B4:48;
145B22:337, 339; 163A4:41; 197A3:96-97
- vs. sulfur, 135B36:609; 151B18:346; 152B8:101;
157B16:283; 23:406; 25:426
- vs. sum of oxides, 200B3:23
- vs. tantalum, 148B10:142
- vs. temperature, 152B30:365
- vs. titanium oxide, 135B24:406; 25:442-444; 26:479;
29:523; 136B4:60; 9:111; 137/140B4:45;
142B6:45; 144B29:503; 145B22:337, 339;
148B10:138; 152B8:103; 27:316-318; 153A3:79;
153B19:366; 163X_A8:30, 36; 165B15:235;
173A7:199; 9:286; 183A5:118; 6:137; 7:40, 133,
137; 183B1:42; 197A1:73; 3:97; 4:17, 68; 5:68;
10:74; 200A4:109; 200B3:26; 209A6:108;
210B8:29
- vs. titanium/barium ratio, 197A5:71
- vs. titanium/strontium ratio, 197A5:71
- vs. titanium/zirconium ratio, 183A1:64
- vs. total inorganic carbon, 207B8:22
- vs. trace elements, 137/140B4:48; 144B29:503-504;
163X_A8:32; 187A3:25; 4:18; 5:18; 6:37; 7:34;
8:52; 9:22; 10:25; 11:36; 12:42; 13:42; 14:29;
15:43; 200B2:11; 206A1:89; 3:200
- vs. vanadium, 137/140B4:48
- vs. water content, 157B22:387; 158B19:264; 209A9:84
- vs. yttrium, 137/140B4:48
- vs. zinc, 180B6:14, 37
- vs. zirconium, 134A11:346; 135B24:411; 26:478;
29:523; 137/140B4:48; 145B22:337, 339;
157B12:168, 171; 197A1:73; 3:97; 5:68; 6:70,
74; 200A1:65; 3:108; 209A7:100
- vs. zirconium/barium ratio, 197A5:71
- vs. zirconium/strontium ratio, 197A5:71
- xenoliths, 193B6:3-4
- X-ray fluorescence data, 152B35:426
- See also aluminum oxide/magnesium oxide ratio; cal-
cium oxide-magnesium oxide-aluminum oxide-
silica diagram; iron number/magnesium oxide

- ratio; iron oxide/magnesium oxide ratio; iron oxide/magnesium oxide ratio (mineral); iron oxide/(iron oxide + magnesium oxide) ratio; iron oxide-magnesium oxide-aluminum oxide diagram; major elements; nickel/magnesium oxide ratio; phosphate/magnesium oxide ratio; sodium oxide/magnesium oxide ratio; titanium oxide-iron oxide/magnesium oxide correlation
- magnesium oxide, whole-rock, vs. whole-rock titanium oxide, 179B(synthesis):70
- magnesium oxide-aluminum oxide-iron oxide plot, 169B6:18
- magnesium oxide/calcium oxide ratio, 125B9:151
- magnesium oxide/FMM ratio, vs. aluminum oxide/FMM ratio, 153B10:215
- magnesium oxide/silica ratio
- serpentine muds, 125B17:317; 36:604
 - serpentinized peridotite, 125B18:334–338; 195B4:6–7
 - vs. aluminum oxide, 195B4:20, 28
 - vs. boron, 195B4:30
 - vs. calcium oxide, 195B4:21, 28
 - vs. iron oxide, 195B4:21
 - vs. lithium, 195B4:30
 - vs. loss on ignition, 195B4:18
 - vs. titanium oxide, 195B4:20, 29
- magnesium oxide/titanium oxide ratio
- basement, 126B27:409, 423
 - Site 757, 121B32:625–627
 - Site 791, 126A7:190
 - tephra, 186B9:10
- magnesium oxide vs. iron oxide, tephra, 186B9:25
- magnesium/potassium ratio
- pore water, 206A3:40
 - vs. depth, 206A1:68; 3:150
- magnesium-saponite, secondary minerals, 183A1:14
- magnesium-serpentine, serpentinization, 147B14:282–283
- magnesium/silicon ratio
- metamorphic clasts, 195B4:8
 - serpentinite, 195A3:20
 - vs. depth, 139B12:301
- magnesium-talc, serpentinization, 147B14:282–283
- magnesium/total iron ratio, vs. Tschermak substitutions, 147B13:238
- magnetic anisotropy
- crystalline rocks, 153A3:107–110
 - décollement zones, 156A7:281
 - magnetic fabric, 153B23:422; 159B19:192–195
 - magnetic susceptibility, 153B23:421–422
 - minerals, 158B25:349
 - reorientation of structural features, 153B32:553–556
 - sediments, 156B6:97–105
 - serpentinized peridotites, 153B23:419–427
 - structural domains, 156A6:127; 7:215
 - vs. depth, 156B6:100–103
 - vs. remanent inclination, 153A3:114
 - See also* anisotropy; magnetic susceptibility
- magnetic anomalies
- ages, 138B6:91
 - Atlantis Bank, 118B28:555
 - Atlantis II Fracture Zone, 118B1:1–5; 21:360, 382–388
 - backarc basins, 135B51:820–825
 - basalts, 136B12:149; 187B7:6
 - basement, 173A1:14–19
 - Bengal Fan, 116A3:38
 - Bonin-Mariana region, 125A3:43
 - Broken Ridge, 121A1:5
 - Celebes Sea, 124B5:69
 - charts, 149B42:659–663, 667
 - chronostratigraphy, 138A(1)10:240–245
 - cross-strike direction marine anomalies, 129B26:475
 - crust, 153B24:436
 - Davis Strait and Baffin Bay, 105B52:993
 - estimates, 209A7:114
 - fracture zones, 123B36:666, 668
 - gabbros, 176B(synthesis):25–26
 - hydrothermal circulation, 168A1:8; 169A1:10–11
 - induction logs, 145A5:161, 163
 - Hawaiian pattern, 123B28:523
 - Islas Orcadas, 114A4:70–71; 114B1:6–7
 - isochrons, 206A1:47; 3:109; 4:8
 - Japan Basin, 127A5:176, 178; 6:252–254; 127/128B(2)82:1314; 83:1345; 128A1:7
 - Japan Sea, 127/128B(2)83:1334; 128A1:15; 15:251
 - Juan de Fuca Ridge, 139B1:21
 - Jurassic Quiet Zone, 185A1:19–20, 30
 - Kerguelen Plateau Central, 120B(1)5:71; (2)57:1035
 - Kita-Yamato Bank, 128A5:247
 - Labrador Sea, 105B48:899–904, 908; 52:989–991, 999
 - Lau Basin, 135A(1)1:11; 4:95–96
 - lithology, 117A5:54, 58; 124A4:44–45; 10:125; 11:199
 - Little Bahama Bank, 101B26:394, 400
 - magnetic anomalies, 107A7:289; 118A1:1–2; 118B21:384, 388–389, 392, 395; 123B2:66; 28:523–524; 36:664; 129A3:95; 129B31:551; 33:617; 139B1:19–27
 - magnetic logging, 148B24:331–338
 - magnetic properties, 118B17:320; 147B24:413
 - magnetic-reversal correlation, 118B16:292
 - maps, 176A1:47; 210A5:34
 - margins, 152A1:12–15
 - marine patterns, 129B23:432
 - Mesozoic, 123B36:659
 - Meteor Rise, 114A3:29–33; 4:70–71; 114B1:5–11, 20
 - Mid-Atlantic Ridge SW, 114A4:70–71
 - models, 118B16:307; 148A2:80
 - Ninetyeast Ridge, 121B28:542–543
 - Northeast Georgia Rise, 114A4:70–71; 6:154; 114B2:23–24, 35–36
 - ocean-continent transition, 149B47:725–726
 - oceanic intrusive rocks, 118B16:300–305
 - Oki Ridge, 128A4:127, 132
 - Oligocene–Pleistocene timescale, 108A1:15
 - Pacific Ocean W, 124B5:70
 - patterns, 111B14:165; 115A7:477–478; 111B34:641; 117A1:6; 5:61
 - plate tectonics, 184A1:4
 - profiles, 149B43:668–673; 206A4:12, 24, 36, 48
 - rifted margins, 149B43:665–674
 - rock magnetism, 137/140B22:260
 - seafloor, 139A6:165; 139B30:527–529; 147B21:380–381

- seamounts, 144B33:579; 160A1:8–10; 160B53:711
- serpentinization, 210B1:17–19
- short normal polarity, 130B32:547–559
- Site 765, 123A1:4; 15; 4:66, 74, 138, 246–247;
 123B1:46; 28:527; 36:665–667; 38:730–731;
 43:804
- Site 766, 123A1:8; 5:299, 301; 123B28:527; 31:577;
 43:806
- Site 794, 127A4:80
- Site 800, 129B32:597
- Site 835, 135A(1)5:186–189
- Site 836, 135A(1)6:252
- Site 865, 143B31:530–532
- Site 866, 143B31:530–532
- source, 210B1:16–17, 52
- structure, 176A1:7–8, 22–23
- Sulu Sea, 124B24:339–341
- Taitao Ridge, 141A9:305
- tectonics, 123B36:667–668; 177A1:6; 185A4:2–3, 58
- transitional extension, 210B1:15–21
- Tsushima Basin, 127/128B(2)82:1314
- Tyrrhenian Sea, 107A2:9–10, 13–17
- Vine-Matthews model, 118A6:150; 118B17:309b
- volcanics, 151A1:11–16; 163B1:4
- vs. age, 200A4:78
- vs. depth, 148B24:336
- Yamato and Japan basins, 127/128B(2)59:942
- Yamato Bank, 128A5:247
- Yamato Basin, 127A4:77; 7:330, 334; 127/
 128B(2)82:1314; 83:1345; 128A1:7; 3:73
- Yamato Rise, 127/128B(2)82:1314; 128A5:247
- magnetic anomaly maps, Hatton-Rockall Basin,
 162A8:255
- magnetic Anomaly M0
 - Bay of Biscay, 103A5:84
 - calibration, 129A2:36; 4:174
 - crust, 210B1:15–16
 - data, 102B1:5
 - extension rates, 210B1:20
 - Galicia Bank, 103B2:20
 - Galicia margin W, 103A1:5, 6, 9, 12–13; A5:84; 8:123;
 11:540; 12:585, 601; 103B37:671–672; 41:741–
 742, 746–747; 45:825–826
 - plate tectonics, 149B25:439
 - rifting, 210A1:5–6, 41–42
 - Sites 1276 and Site 398 comparison, 210A1:27
 - skewness, 129B26:471–481
- magnetic Anomaly M1
 - crust, 210B1:15–16
 - polarity interval, 171B_A3:71
 - seismic reflections, 210A1:43–44
- magnetic Anomaly M2, polarity interval, 171B_A3:71
- magnetic Anomaly M3
 - crust, 210B1:16
 - origin, 210A1:11
 - polarity interval, 171B_A3:71; 4:134
 - Sites 1276 and Site 398 comparison, 210A1:27
 - structural asymmetries, 210A1:57
- magnetic Anomaly M5/Gilbert boundary, 164A7:190
- magnetic Anomaly M8
 - paleolatitude, 191B7:1–20
 - summary, 191A1:1–49
- magnetic Anomaly M11
 - extension rates, 210B1:20
 - Gondwana, 185A1:30
 - nannofossils, 185A4:21
 - paleolatitude, 185A4:37
 - tectonics, 185A4:3, 58
- magnetic Anomaly M12, tectonics, 185A4:3, 54
- magnetic Anomaly M13
 - Greenland Sea, 151B1:9
 - site description, 121A1:27
 - tectonics, 151A1:15; 151B1:11; 185A4:3, 54
- magnetic Anomaly M17
 - rift systems, 210A1:5–6
 - rifting phases, 210B1:8
- magnetic Anomaly M20, rifting phases, 210B1:8
- magnetic Anomaly M21
 - magnetic inclination, 191B8:6
 - site description, 121A1:28
- magnetic Anomaly M24
 - site description, 121A1:29
 - tectonics, 151A1:14–15
- magnetic Anomaly M33, site description, 129A2:33–89
- magnetic Anomaly M34
 - site description, 121A1:30
 - tectonics, 149B43:671
- magnetic azimuth
 - basalts, 192B5:5–6
 - See also* preferred magnetic azimuth
- magnetic azimuth, preferred
 - apparent polar wander path, 192B5:9
 - basalts, 192B5:21
- magnetic behavior, hook-type, sediments, 207B3:25
- magnetic bights, tectonics, 198A1:7–8
- magnetic boundaries
 - basalts, 143B23:385–387; 144B37:635–638, 645–646
 - seamounts, 144B37:632
- magnetic carriers, lava, 183B12:1–28
- magnetic data
 - basement, 173A7:203
 - igneous rocks, 152A11:225
 - Site 504, 148A2:71
 - Site 896, 148A3:167
 - volcanic rocks, 152A9:120
 - See also* aeromagnetic profiles
- magnetic declination
 - abundance, 155A11:292
 - apparent rotation, 131B8:109
 - basalts, 129B24:452–454; 163B4:37–38; 183A4:25
 - bias, 121B16:360
 - Brunhes/Matuyama boundary, 168A4:80
 - change with orientation, 153B32:556
 - conglomerate test, 173A8:248
 - corrected vs. uncorrected, 172A4:102
 - Cretaceous, 210B15:27–32
 - Cretaceous/Tertiary boundary, 165B8:145
 - discrete samples, 208B4:14
 - distribution, 175A12:366
 - gabbros, 176A3:71–72
 - histograms, 186A4:105; 209A6:116; 7:110; 9:99

- lithology, 115A8:602; 115B40:723–726, 730, 733–734;
116A5:114; 6:170–171; 116B26:328; 27:340–
341; 121B34:691; 35:705, 710–712; 127A4:106–
107; 5:200–202; 6:276; 7:358–359, 363; 127/
128B(2)61:960; 63:977, 979; 67:1052–1053;
82:1317; 128A3:101–102; 4:167–170; 5:313–315
- magnetic disturbance experiment, 190A6:14, 44
- magnetic excursions, 172B10:15–17; 11:2–6
- magnetic foliation, 186B16:5–6
- magnetic polarity, 138B5:60–62, 65; 199A8:11–12;
207B3:5–7
- magnetometers, 189A(appendix):11–12
- magnetostratigraphy, 130B32:549–550
- Miocene, 138B5:68–69
- nonmagnetic shoe, 182A(appendix):6–7
- orientation, 135A(1)11:623; 199A9:7; 10:12–13; 11:20
- overprinting, 178A4:64
- Pliocene, 135A(1)1:30
- principal component analysis, 206A3:135
- reduction, 182A(appendix):10
- rose diagrams, 209A5:170
- sample coordinates, 131B11:144; 210A4:37
- sediments, 133A(1)7:215; 133B38:548–549;
135B47:769; 143B38:594; 154A6:244; 7:293;
161B11:132; 167A(1)5:102; 167B28:312–314;
177A4:14; 184A4:51; 190A4:14; 6:12–15; 7:10;
9:14; 202A11:13–14; 12:13–14; 205A5:25–26;
6:13; 202B2:3–5
- Site 703, 114B21:370, 375; 22:399
- Site 704, 114B21:374
- Site 798, 128A4:141
- Site 799, 128A5:241
- Site 805, 130A7:246–247, 250
- Site 806, 130A8:317–319
- Site 807, 130A9:411–415
- Site 844, 149–152
- Site 884, 145B32:476
- soft-sediment and lithologic boundaries, 128A4:142
- U-channel paleomagnetic studies, 202B14:17, 22, 27
- uncorrected vs. corrected, 199A8:28; 9:21
- vector plots, 197A5:82–83
- vs. age, 138B6:89–94
- vs. anisotropy of horizontal compressional wave ve-
locity, 186A4:136
- vs. depth, 131A6:151; 133A(1)13:520; 14:581; 17:781;
134A7:119, 121; 8:166; 9:225, 228; 10:292–293;
11:348; 12:434, 438; 13:516; 134B25:453;
26:460–474; 135A(1)4:120–121; 5:211–213;
7:314–315; 8:366; 9:425–427; 135B46:749, 753–
754, 758–759; 136A4:44–54; 5:70–73;
138A(1)10:221–225; (2)13:696–697, 702;
15:840–841; 16:923–925; 17:990–992; 18:1038,
1040; 19:1075–1077; 138B38:782; 139A7:327–
330; 141B3:35, 38–44; 143A6:134; 144A3:67–
68; 4:127; 5:178, 180; 7:275; 10:364, 367;
11:430, 446; 145A6:234; 145B31:472; 32:479;
34:512; 149A5:131; 6:181; 152A12:271;
154A4:79; 5:168; 6:245; 7:297; 8:354;
153A3:106–107; 153B24:434; 32:549; 152A6:66;
155A6:109; 7:145; 8:188–189; 9:216; 10:258;
12:349; 13:398; 14:422; 15:452; 16:478; 17:525;
18:553–554; 19:582; 20:610–611; 22:674;
155B12:236–237, 240; 156A6:135; 7:235;
157A6:153; 157B5:48; 159A5:96; 6:184; 8:276–
277; 160A9:304; 15:503–504; 161A7:320; 8:378–
379; 9:404–405; 161B11:133; 164A5:83–84;
6:118–119; 7:189–190; 8:261; 9:293;
164B39:413–414; 165B8:145; 167A(1)6:141;
7:164; 8:198–199; 11:298–299; 12:332; 13:365;
14:407–408; 15:448; 16:475; 167B28:313–316;
169A6:298; 170A3:72; 4:126–129; 5:171–172;
6:205; 7:234–235; 172A3:44–45; 4:98–101;
5:185–186; 172B10:10, 12; 11:10–18; 173A4:84–
86; 174A_A3:70; 5:170, 172; 175A3:71–72;
4:100–101; 5:128–129; 6:164–166; 7:186–187;
8:212; 9:252–255; 10:293; 11:324–325; 12:365;
13:407; 14:443; 15:471–472; 176A3:214–217;
179A4:153; 180A5:80–82; 6:154–155; 7:52–55;
8:89; 9:110–112; 10:56–57; 11:32–33; 12:116;
182A(appendix):12–15; 9:36; 184A4:53–54;
5:47–48; 6:34; 7:50–52; 8:18–20; 9:62–63;
185A4:129; 185B7:17; 186A4:101, 104, 106,
169; 186B16:17, 19; 190A4:58; 5:63; 6:41, 44–
45; 7:35; 8:41; 9:47; 192A3:134, 136; 195A1:57;
3:113; 4:125; 198B22:13–19; 199A11:53;
200A3:109, 117; 4:123; 201A6:57; 201B16:13–
14; 202A1:90; 3:31; 4:40–42; 5:37, 40; 6:43–45;
11:50–51; 12:60–61; 13:49; 203A3:60;
205A5:77–78; 6:41; 206A1:60–63; 3:132, 142–
145, 302–303; 209A9:116
- vs. paleomagnetic secular variation, 202A1:88–89
- See also* paleodeclination
- magnetic declination, archive half, vs. discrete sample,
209A5:169
- magnetic declination, bidirectional, 172B4:7–8
- magnetic declination, core-coordinate, 161A4:77–79;
5:139–140; 6:208–209
- magnetic declination, discrete sample, vs. archive half
209A5:169
- magnetic declination, geographic, 161A7:320
- magnetic diagenesis, anoxic conditions, 164B38:402–
404
- magnetic disturbance experiment
cores, 190A6:13–14, 44
overprint removal experiment, 190A6:45
- magnetic domains
authigenesis, 130B31:534
basalts, 197A5:77, 79
climate optimum, 178B34:6
demagnetization, 205A4:140–141
diagenesis, 133B40:583
discrete samples, 208B4:15
grain separation, 133B40:578
magnetic minerals, 141B5:67–69; 154B11:183–184;
178B14:2–4
magnetization ratio, 205A4:140–141
mineral grains, 157B6:58
particle size, 148B38:476–477
rock magnetism, 161A5:140
sediments, 133B39:569–570; 154B10:172–173;
11:182–183; 167B28:314–315; 195B13:12
- vs. paleointensity, 157B6:59–60

- See also* multidomain grains; pseudosingle domain; single-domain behavior
- magnetic excursions
 Brunhes Chron, 172B10:1–18
 magnetostratigraphy, 172A3:46; 5:187–188; 6:263, 266; 7:316–317; 178B37:11
 paleointensity, 172A5:188
 split-core data, 172B(overview):7
 Stage 3, 172B11:1–20
See Biwa II excursion; Emperor excursion; Jamaica excursion; Lavantine excursion
- magnetic excursions, tool-deviation, 117A11:363–364
- magnetic experiments, overprints, 189A(appendix):1–15
- magnetic fabric
 basalts, 192B5:1–21
 basement, 183A6:55–56
 deformation, 186B16:5–6; 190/196B9:1–15; 209A9:24
 foliation vs. lineation, 153B23:421
 gabbros, 147B17:322–324
 geometry, 161B11:132–135
 mafic and ultramafic rocks, 147B23:393–403
 magnetic susceptibility, 193A3:237
 microfibrils, 185B9:6–7
 photograph, 159B20:195
 plutonic rocks, 147A3:95–97
 sediments, 149B17:335–342; 159B19:189–197; 161A4:77–78
 shape factor, 180B21:5
 summary, 190/196B9:15
 vs. degree of anisotropy, 153B23:422–424
 vs. depth, 161A6:216
See also fabric; petrofabrics
- magnetic fabric, coring-induced, 161B11:129–136
- magnetic field
 basement, 183A8:23–24
 coercive strength, 129B25:458
 components, 148B24:332–334; 197A3:139–141
 Earth, 162B(appendix):274–275
 Formation MicroScanner imagery, 180A8:41, 109
 horizontal and vertical variations, 143B22:374, 377–379
 hydrothermal mounds, 139B2:29–33
 magnetic properties, 178A4:29; 179A2:6; 4:56
 Matuyama–Brunhes transition, 157B6:60–67
 measurement, 102B7:82; 8:124; 157B5:50–51
 Site 1105, 179A1:9
 strength vs. depth, 148A2:80
 structures, 179A4:56
 transform faults, 159A4:61
 vs. depth, 143B23:383–384; 144A5:200; 11:437; 144B37:633–637, 642, 644; 148A3:174; 152B37:444; 178A5:41; 180A6:72–76; 9:55–56; 12:48–51; 184A5:70; 7:70; 9:82–83; 197A3:138; 205A4:64; 209A10:149
 within drill pipe, 143B24:389–393
See also paleofields; paleointensity; virtual geomagnetic poles
- magnetic field, horizontal, power spectrum, 143B22:375
- magnetic field, sign, vs. depth, 144B37:633–637, 644
- magnetic field, spatial differential downhole, 144B37:633–637, 644, 646
- magnetic field, total
 vs. depth, 134B33:586–588
See also magnetic field logs
- magnetic field logs
 basalts, 144A9:322–323; 185A3:44–45
 debrite, 157B3:36
 general purpose inclinometry tool, 209A7:34–35, 113
 igneous rocks, 209A10:41
 lithology, 134B33:579
 magnetic anomalies, 148B24:331–338
 magnetic field, 206A3:96–97
 magnetic intensity, 143B22:373, 378
 Site 504, 148A2:78–80; 3:169–173
 Site 896, 148A3:169–173
 vs. depth, 200A4:51, 146; 206A3:324; 209A7:34–35, 113
- magnetic field on x-axis, vs. depth, 197A3:138
- magnetic field on y-axis, vs. depth, 197A3:138
- magnetic field on z-axis, vs. depth, 197A3:138
- magnetic foliation
 anisotropy of magnetic susceptibility, 186B16:5–6
 bedding planes, 186B16:17–18
 deformation, 190/196B9:4–5
 fault planes, 186B16:16
 Flinn-type diagrams, 186B16:20
 magnetic susceptibility, 193A3:237
 shape factor, 180B21:2–3
 vs. depth, 161A6:216; 172B4:7–8; 186B16:14–15
- magnetic foliation dip, vs. depth, 190/196B9:14
- magnetic fraction
 binocular microscopic photograph, 199B14:11
 geochemistry, 199B14:3–4
 scanning electron microscopy, 199B14:12
- magnetic hardness
 sediments, 195B13:5
 vs. depth, 195B13:10–11
- magnetic hysteresis. *See* hysteresis
- magnetic inclination
 abundance, 155A11:292
 advanced piston corer temperature, 189A(appendix):7
 averages, 197A6:109–110
 basalts, 121B28:533; 129B24:452–454; 130B4:55–56; 143A7:215; 145A6:239; 163B4:37–38; 163X_A4:14; 5:6; 6:23–24; 7:5; 165B9:157; 183A4:25, 91; 8:112; 185A3:32–35; 191B7:6–8; 8:5–9; 192A6:112; 192B5:5; 206A1:34; 3:84–85
 basement, 183A9:36–37
 biases, 165B9:167–169
 Blake Event, 172A3:46
 Brunhes/Matuyama boundary, 168A4:80; 172A6:268
 Cenozoic, 130B31:530–531
 change with orientation, 153B32:556
 composite depth scales, 178B5:8–9
 conglomerate test, 173A8:248
 correlation, 155B39:602–603; 189B10:5–6
 Cretaceous, 143B27:408–412
 Cretaceous/Tertiary boundary, 165B8:145
 deep-sea sediments, 185B7:5–8
 demagnetization, 165A4:159–160; 178A4:17–18; 180A7:20; 206A3:291–299

- discrete samples, 182A9:14–15; 183A6:192; 7:202;
199A12:21–22; 209A10:141
- distribution, 175A12:366
- downhole logs, 143B23:384
- effect of drag along core liner, 175A5:129
- flattening, 125B32:538
- foliation planes, 173A6:126
- Formation MicroScanner imagery, 147B18:334;
180A8:109
- frequency of one-degree intervals, 130A9:412, 414
- gabbro intrusions, 170A3:70
- gabbros, 153A4:167–171; 6:253–254; 176A1:22–23;
3:71–72; 179A4:59; 205A4:43, 143; 209A3:45–
47
- histograms, 134B25:455; 138A(2)13:703; 139A5:124;
143B25:397; 147B23:400; 28:470; 153A3:110;
4:171; 151A6:127; 7:179; 9:283; 159B20:204;
21:205–207; 160B5:70; 174A_A4:122; 177A3:31;
178A5:59; 8:42; 186A4:107; 192B5:16;
197A1:48–49, 68, 77; 197A3:121–124; 5:84;
6:88; 209A5:168; 6:116; 7:110; 9:99
- igneous rocks, 147A1:12; 147B22:384, 388
- Jurassic–Cretaceous interval, 173A7:185
- lava, 183B12:6
- limestone, 143B26:401
- lithology, 110A7:415, 418; 110B25:381–391; 26:328;
27:339–340; 116A5:113–114; 6:168–171;
116B16:286, 291–293, 296–302; 17:315–317;
118A6:154–156; 121B16:367, 371, 373; 17:382–
385; 39:781, 785–794, 801–803; 127A4:106–
107; 5:200–202; 6:276; 7:358–359, 363; 127/
128B(2)61:960; 62:974, 977–981; 128A3:101–
105; 4:167–170, 173–174; 5:313–316;
183A5:189; 185A4:34–37
- logarithmic distribution, 176A3:219
- long-core data, 172A4:104; 182A4:24
- magnetic excursions, 172B10:15–17; 11:2–6
- magnetic foliation, 186B16:5–6
- magnetic inclination, 161A4:77–80; 5:139–141;
6:208–211; 7:320; 8:378–379; 9:404;
161B40:508
- magnetic polarity, 167A(1)15:442; 177A7:13;
203A3:19–20
- magnetic subdivisions, 206A3:331
- magnetic vs. nonmagnetic core barrel, 210A3:94–95
- magnetometers, 189A(appendix):10–15
- magnetostratigraphy, 130B32:549–550; 172A4:99–
100; 5:187–188; 173B11:21–23; 178A4:18–20;
208B4:3–4
- Matuyama/Brunhes boundary, 133B49:730
- median destructive field, 133B49:731–733
- metamorphic rocks, 173A6:124
- microfabrics, 185B9:6–7
- nonmagnetic core barrels, 189A(appendix):8, 10
- Northeast Georgia Rise, 114B19:342
- orientation, 199A8:11
- overprinting, 178A4:64
- paleolatitude, 165B9:159–163; 171B_A6:280, 282;
192A1:50; 6:23; 197A3:35–36; 5:24–25;
197B1:5–7
- paleomagnetism, 192A4:22–23; 5:120; 7:11
- petrologic units, 115B11:114
- plots, 132A4:90–92
- polarity, 133A(1)15:630; 138B5:60–62, 65
- principal component analysis, 165B9:158
- remanence variation, 209A3:152
- remanent magnetization, 186A4:29–30; 196A3:32–33,
97; 197A3:161–162; 4:118; 5:105; 198A9:25
- sand, 150B8:131, 135–138, 142
- schematic models, 179A4:150
- secondary components, 147A4:150
- secondary magnetization, 147A3:96
- sediment transport, 192A4:23–24
- sedimentary rocks, 129B23:443
- sediments, 131B24:294, 296; 25:301–303;
133A(1)7:215; 133B38:547–548; 39:566;
135B45:732–734; 47:769; 143B38:594;
151A6:127; 8:238–239; 11:365–366; 154A6:244;
7:293; 166A7:159; 10:310; 11:359–360;
167A(1)4:63–64; 5:102; 14:400; 167B28:312–
314; 168A6:175; 172A3:44–47; 173A9:276;
177A1:17; 3:11; 5:17; 180A5:28–29; 181A3:19–
20; 7:26–27; 9:17; 182A1:13–14, 17–18;
183A7:47–48; 8:22–23; 186A1:14; 190A4:14;
5:17–20; 7:10; 9:15; 195B13:4–5; 198A3:25–26;
4:22; 198B21:4; 202A7:16; 11:13–14; 12:13–14;
202B2:3–5; 205A4:42, 143; 5:25–26; 6:13;
207A4:17–19; 5:57; 6:53; 7:51; 8:51
- shallow magnetic inclination zone, 117A11:332, 333
- sills, 198B20:4–5
- Site 698, 114B22:391, 394–395, 406
- Site 699, 114A6:178–181; 114B19:343–347
- Site 700, 114A7:280, 283; 114B19:343, 348–349
- Site 701, 114A8:393; 114B20:361
- Site 702, 114A9:503; 114B20:365
- Site 704, 114A11:652, 658–659; 114B21:376–380
- Site 800, 129A2:55, 57
- Site 802, 129A4:294
- Site 805, 130A7:246–247, 250
- Site 806, 130A8:317–319
- Site 807, 130A9:411–415
- Site 884, 145B32:476
- smoothed frequency plot, 130B31:534–535
- Southern Ocean, 114A10:570–571; 114B22:394–396,
399
- split cores, 178A8:11
- stereographic projection, 131A6:157
- stratigraphic plot, 129B23:434, 440
- stratigraphy, 151A9:284
- Tensor tool orientation data, 175A3:70; 4:98; 5:127;
6:163; 7:185; 8:211; 9:252; 10:291; 11:323;
12:364; 13:406; 14:442; 15:470
- thermal demagnetization, 149A6:182; 197B1:26
- U-channel paleomagnetic studies, 202B14:16, 21, 26
- vector plots, 197A5:82–83
- veins, 147B10:201
- vs. age, 202A4:43
- vs. bedding dip, 131A6:156
- vs. composite depth, 145B31:472
- vs. depth, 129A4:205; 131A6:151; 133A(1)12:466–
467; 13:520; 14:580–581; 16:706; 17:781;
134A7:119, 121; 8:166; 9:225, 228; 10:292–293;

- 11:348, 350; 12:434–438, 441; 13:516–518; 134B25:453; 26:460–474; 135A(1)4:120–121; 5:211–213; 7:314–315; 8:366; 9:425–427; 11:620; 135B46:749, 753–754, 758–759; 136A4:44–54; 5:70, 73–74; 136B3:49–50; 137/140B22:255; 23:267; 138A(1)9:147–152; 138A(2)13:696, 697, 702; 15:840–841; 16:923–925; 17:990–992; 18:1038–1040; 19:1075–1077; 138B38:782; 139A5:120–121, 124; 6:189–190, 193; 7:327–331; 8:467, 470–471; 46:729; 139B30:531; 140A2:123; 141A6:94–95; 7:181; 8:260; 9:322; 10:370–371; 141B3:35, 38–44; 6:94; 7:95; 143A6:134; 143B27:413; 144A3:67–68; 4:127; 5:178, 180; 7:275; 10:364, 367; 11:430; 12:446; 144B34:593–596, 599–604; 37:633–637; 145A3:62, 64; 4:100, 103; 5:146–149; 6:234–236; 7:312–316; 8:353–356; 145B32:479; 34:496, 500–503, 506, 508, 511–513, 518–519; 146A(1)4:75–76; 5:164–165; 6:256; 7:325; 147A3:96; 147B22:386–391; 148A3:174; 148B15:222; 149A4:71–72; 5:131; 6:181; 7:233; 149B16:322, 327, 333; 17:340–341; 25:444; 45:694–696; 150A6:87–91; 7:158; 8:228–229; 9:281; 10:326; 150X_B22:297–303; 151A5:76; 6:128; 7:179–180; 8:239; 9:283–284; 10:331; 11:366; 151B21:379; 152A6:66; 7:82; 8:99; 9:121; 11:225; 12:267; 152B22:268; 153A3:106–107; 4:168–169; 5:210; 6:251; 7:271; 153B24:434; 32:549; 154A4:79; 5:168–169; 6:245; 7:297; 8:354; 155A6:109–110; 7:145; 8:188–189; 9:216; 10:258; 12:349; 13:399; 14:422; 15:452; 16:478; 17:525; 18:553–554; 19:582; 20:610–611; 22:674; 155B12:236–237, 240; 39:603–608; 156A6:135; 7:235; 157A4:75; 5:122; 6:153; 7:350; 8:413; 9:455; 10:522; 157B5:48; 158A7:139; 8:167; 158B25:342; 159A5:95–96; 6:184; 8:276–277; 160A4:72–73; 5:104–106; 6:136; 7:178, 180; 8:243–244; 9:304; 10:358; 11:392; 12:435; 13:458; 14:481; 15:498, 503–504; 160B5:64–67, 70, 72; 162A3:71–72; 4:113; 5:158; 6:189–190; 7:242; 8:270; 9:308; 10:364; 162B8:116, 120–124, 127; 9:134, 140, 142; 10:153–156, 162; 163A3:26; 4:35; 5:54; 164A5:83; 6:118–119; 7:189, 191; 8:261, 263; 9:293; 164B39:413–414; 165A3:68; 4:159–161; 6:314–315; 7:369; 165B8:145–146; 9:169; 166A6:90; 7:160; 8:186; 9:248; 10:311; 11:359–360; 167A(1)4:72–73; 5:105; 6:142–143; 7:164–165; 8:198–199; 10:259; 11:298–299; 12:332; 13:365; 14:407–408; 15:448; 16:475; 167B28:313–316; 168A4:79–80; 6:177–179; 169A3:138–139; 4:200; 5:235; 6:298; 170A3:67, 70, 72; 4:128–129; 5:171–173; 6:205; 7:234–235; 171B_A6:276–280; 7:331–332; 172A3:44–46; 4:98–101; 5:185–186; 6:264–267; 7:320; 172B10:9–13; 172B11:9–18; 173A4:84–86; 6:125; 7:183–184; 8:246; 9:277; 173B8:18; 11:29, 35, 39, 43, 46, 50, 54; 174A_A3:68–70; 4:122–123; 5:170–172; 175A3:71–72; 4:100–101; 5:128–129; 6:164–166; 7:186–187; 8:212; 9:252–255; 10:293; 11:324–325; 12:365; 13:407–408; 14:443; 15:471–472; 176A1:67; 3:214–215, 222; 177A4:46; 5:47–48; 6:40; 7:32; 8:47–48; 9:39; 178A4:67–70, 75; 5:62–65; 6:44; 7:44, 46; 8:43; 9:54–57; 178B37:27; 179A4:153; 180A5:80–82; 6:154–158, 206; 7:52–55; 8:87, 89; 9:107, 110–113, 148; 10:53, 56–57; 11:32–33; 12:112, 116–117, 151; 181A3:46–47; 5:39–40; 6:62; 7:81, 88; 8:62–65; 9:40–41; 182A4:55; 5:37; 6:59–60; 7:42; 8:46; 9:34, 36; 10:51; 11:25; 12:39; 183A3:31–35; 4:70–71; 5:142–145; 6:144–151; 7:155–161; 8:76–79; 9:107, 109; 9:111; 183B13:10–12; 184A4:53–55; 5:47–48; 6:34; 7:50–52; 8:18–20; 9:62–63; 185A1:5, 45; 4:126, 129–130; 185B7:17–18; 9:17; 186A4:101, 104, 106, 123, 169; 5:64–65; 186B16:15–19; 186B16:14; 188A1:50–51; 3:116–122; 4:74; 188B13:22, 24; 189A4:34; 5:78–82; 189A(appendix):15; 6:94–96; 7:68, 71–75; 190A4:57; 5:63; 6:41, 44–45; 7:35; 8:41; 9:47; 191A4:81, 85–87; 192A3:134, 136; 4:101–102; 5:100; 6:83, 86–87; 7:47–48; 193A3:239; 194A3:35–42; 4:66–72; 5:56–58; 6:39–45; 7:78–79, 83–84; 8:44–48; 9:38–39; 195A1:57; 3:113; 4:125–126, 130; 5:24–26; 195B13:10–11; 197A3:111, 138; 4:82; 198A3:82; 4:53; 5:53; 6:46; 7:42; 8:39; 9:72; 198B1:35; 20:12; 21:11; 22:13–19; 199A11:53; 200A3:37, 109, 112, 117; 4:123–124; 201A6:57; 201B16:13–14; 1:90; 202A3:31–33; 4:40–41, 44; 5:37–40; 6:42–44; 7:53–54; 8:60–65; 9:59–60; 10:56; 11:49; 12:60; 13:48; 202B3:13; 203A3:57–60; 205A4:137; 5:76–78; 6:41; 206A3:132, 142, 302–303; 207A4:49; 208A3:48, 51–55; 4:52–57; 5:44–47; 6:59, 64–66; 7:48, 52–56; 8:51–55; 209A3:149; 7:74, 107; 9:96, 100, 116; 10:135–136; 210A3:269, 272–273, 276; 4:29; 210B15:22–23
- vs. frequency, 188A4:73
 vs. lithology, 137/140B23:267–268
 vs. magnetic intensity, 160B5:70
 vs. number of samples, 134A9:226
 vs. paleolatitude, 197A1:28
 vs. remanent magnetization, 197A6:83
 vs. rotation about horizontal axis, 209A1:93
 See also paleoinclination; paleomagnetic inclination logs
- magnetic inclination, apparent, basalts, 143B23:383–387; 144B37:633–635; 38:645
- magnetic inclination, flattening, sediments, 135B45:719
- magnetic inclination, mean
 Argo Abyssal Plain-Exmouth Plateau region, 123A4:139–140, 202–203, 207–209
 Broken Ridge, 121B39:800–801
- magnetic inclination, natural remanent magnetization cored sediments, 129B33:615
 lithology, 129B23:440; 131A6:148–150
 vs. depth, 129B25:464; 141A6:94–95; 7:181; 8:260; 10:370–371
- magnetic inclination, paleomagnetic, rotation, 153A3:115

- magnetic inclination, remanent, vs. magnetic susceptibility, 153A3:114
- magnetic inclination, shallow
 origin, 121B16:371–374; 39:803, 805
 secondary mineralogy, 121B28:542
- magnetic inclination, split core, vs. depth, 178B37:34
- magnetic inclination, stable
 basalts, 129B24:448–449; 25:458–459; 130B4:56, 58
 Costa Rica Rift, 111A3:90–91, 97–98
 frequency, 137/140B22:260; 23:267
 histograms, 147A4:150
 Kerguelen Plateau-Prydz Bay region, 119B43:754–759, 766, 770
 Southwest Indian Ridge, 118A6:157
 vs. depth, 129B25:464; 147A4:150; 148A2:70
- magnetic inclination, U-channel and split core, 178B37:32–33
- magnetic inclination, U-channel and split core and discrete, 178B37:38
- magnetic inclination logs, vs. depth, 209A7:113
- magnetic inclusions, plagioclase, 197B1:11–13
- magnetic induction
 geological high-sensitivity magnetic tool, 165A3:94–95; 5:273–274; 6:340–341
 vs. depth, 165A5:274; 6:341–342
 vs. magnetization, 139B31:538
 vs. normalized isothermal remanent magnetization, 139B31:537
- magnetic induction, total, vs. depth, 165A3:95–96
- magnetic induction logs, vs. depth, 155A9:229–230
- magnetic instability, origin, 133B49:729–733
- magnetic intensity
 abundance, 155A11:292
 backfield isothermal remanent magnetization vs. applied impulse field, 193A3:245; 4:214
 basalts, 129B24:452–454; 135A(1)4:119; 163X_A4:14; 6:23–24; 183A4:91; 8:112; 191A4:25; 192A3:35; 5:116–118; 7:59–62
 basement units, 183A7:48–49; 9:36–37
 Cenozoic, 138B38:779–795
 changes with chemical treatment, 186A4:122, 194
 composite depth scales, 178B5:8, 34
 Cretaceous, 210B15:27–32
 curves vs. temperature, 141B5:62–71
 decay plots, 127A4:104–105; 5:206–207; 6:278–279; 7:360–361; 128A3:104–105; 4:173; 5:316–323; 182A9:35
 demagnetization, 178A4:17–18; 180A7:20
 demagnetization/natural remanent ratio, 205A4:138; 5:79
 discrete samples, 141A10:373–376; 183A6:192; 209A6:34
 Formation MicroScanner imagery, 147B18:334; 180A8:109
 gabbros, 176A3:71–77; 205A4:43
 histograms, 151A7:178; 9:282; 11:365
 Holocene, 195B3:11
 igneous rocks, 141A9:324
 isothermal remanent magnetization, 186A4:120; 193A3:81–83; 4:57–58, 213; 205A4:139
 isothermal remanent magnetization vs. applied impulse field, 193A3:242–244, 247
 lithology, 116A4:62–63, 68, 70, 73; 5:112–113; 6:168; 116B3:29–30; 26:322, 327, 329, 334–335; 27:337–342; 118B17:313–315, 318; 127A4:72, 103, 106–107; 5:174, 200–202; 6:251, 275–276; 7:324, 357–359, 363; 127/128B(2)59:934, 937; 60:957; 61:959–967; 62:969–981; 128A3:101–105; 4:167–170, 173; 5:313–315; 181A1:33; 183A4:90; 5:188–189; 199A14:15
 long-core measurements, 182A7:17–18
 long-term oscillations, 119A8:310
 Lower Cretaceous interval, 192B1:3–4
 magnetic polarity, 202A3:12
 magnetic susceptibility, 203A3:20
 magnetic vs. nonmagnetic core barrel, 189A(appendix):9–10; 210A3:94–95
 magnetometers, 189A(appendix):10–15
 magnetostratigraphy, 167A(1)10:256; 173B11:19–23; 201B16:4
 natural remanent magnetization, 117B7:167, 176–177; 193A3:79, 238; 4:56, 210; 6:11–12, 32; 195A3:26–28; 202A4:11–13
 normalized during progressive magnetization acquisition and demagnetization, 175B8:8–9
 ooze, 135B46:744
 peridotites, 147B24:409–411; 210B1:18
 reduction, 167A(1)5:103
 remanence variation, 209A3:152
 remanent magnetization, 173B8:5–6; 186A4:30–35; 192A3:160; 7:10–11; 198A9:25; 208A3:18; 4:16; 6:21; 7:19–20; 8:20, 48
 rock magnetism, 192A4:20–21
 S-ratio, 175B8:11
 samples, 210A4:37, 39
 saturation remanent magnetization, 205A4:139
 sedimentary rocks, 129B23:443
 sediments, 131B24:300; 38:546; 40:575; 133A(1)7:215; 135A(1)4:118; 136A5:69; 166A6:89–90; 10:310; 166B4:38–40; 169A6:294–295; 173A9:275–276; 175B8:3–4; 177A6:11; 8:14; 9:11; 180A5:28–29; 181A9:16–17; 182A1:13; 183A7:47–48; 8:22–23; 9:36; 190A4:14; 5:18; 6:12–15; 7:10; 8:13; 9:14–15; 191A4:24–25; 192A3:33; 6:20; 195B13:5; 198A3:25–26; 201A7:28–29; 202A7:15–16; 8:20–22; 9:17; 10:15–16; 11:13–14; 12:13–14; 13:12–13; 202B2:3–5; 205A5:26; 6:13; 206A3:30; 207A4:17–19; 5:57; 6:53; 7:51; 8:51; 208A5:13; 210A1:19; 3:90–93
 Site 805, 130A7:246–247, 250
 Site 806, 130A8:317–320
 Site 807, 130A9:411–415
 split cores, 206A3:32–33
 stratigraphic plot, 129B23:434, 440
 sulfate reduction, 130A9:409–410; 130B31:533, 545
 sulfides, 158A7:121–122
 vs. age, 195B3:28
 vs. alternating field, 195A4:121
 vs. applied DC field during progressive isothermal remanent magnetization acquisition, 175B8:10

- vs. applied demagnetization field, 148A2:72
vs. demagnetization, 182A4:56; 5:38
vs. depth, 129B25:457; 131A6:151; 133A(1)13:520;
14:580-581; 16:706; 17:781; 134A7:119, 121;
8:166; 9:225, 228; 10:292-293; 11:348; 12:434-
438, 441; 13:516-518; 134B26:460-474;
136A4:44-54; 5:70, 73-74; 138A(1)9:144, 147-
148; 10:221-225; 11:294; (2)13:694; 14:771;
15:839; 16:922; 17:994; 139A5:120-121, 124;
6:189-190, 193; 7:327-331; 8:467, 470-471;
139B30:527; 46:729; 141A6:94-95; 8:260; 9:321,
322; 10:371; 143A6:134; 144A3:67-68; 4:127;
5:178, 180; 7:275; 10:364, 367; 11:430; 12:446;
144B34:593-596, 599, 601; 145A3:64; 4:103;
5:149; 6:234; 7:314; 145B34:495, 499, 502-506,
509, 512, 516; 146A(1)4:75-76; 5:164-167;
6:256; 7:325; 147B22:384, 387; 148A3:174;
149A3:35-37; 4:71-72; 149B25:436; 150A6:87-
91; 7:158; 8:228-229; 9:281; 10:326; 151A5:75;
6:126; 7:177, 180; 8:238; 9:282; 10:330; 11:365;
152A6:66; 7:82; 8:99; 9:119; 153A3:106-107;
4:168; 5:210; 6:251; 7:271; 154A4:79; 5:168;
6:245; 7:297; 8:354; 155A6:109-110; 8:189;
9:216; 10:259; 12:349; 13:399; 14:423; 15:452;
16:478; 17:525; 18:554-555; 19:582-583;
20:611; 21:649; 22:674; 155B12:233-237, 240;
39:608-609; 156A6:135; 7:235; 157A4:76;
5:122; 6:154; 7:352; 8:414; 9:455; 10:521;
158A7:139; 8:167; 158B25:342; 159A5:95-96;
6:183-184; 160A4:72; 5:104; 6:136; 7:178;
8:243; 9:304; 10:357; 11:392; 12:435; 13:458;
14:481; 15:498, 503-504; 160B6:77-79;
161A4:77-79; 5:139-140; 6:208-209; 7:320;
8:378-379; 9:404; 162A3:72; 4:112; 162B8:119;
163A3:26; 4:35; 5:54; 164A5:83; 6:118; 7:189;
8:261; 164B39:413-414; 165A3:69; 4:159; 5:252;
6:314; 7:369; 165B9:163; 166A6:89-90; 7:159;
8:185; 9:247; 10:310; 11:358, 360; 166B4:41;
11:125-126; 167A(1)4:72-73; 5:105; 6:141;
7:164; 8:198; 9:259; 11:298-299; 12:332;
13:365; 14:407-408; 15:448; 16:475;
169A3:138-139; 4:200; 5:235; 6:298; 170A3:71-
72; 5:171-172; 6:205; 7:234-235; 172A3:44-45;
4:98-101; 5:185; 6:264-267; 172B11:15-18;
173A4:84, 86; 6:123; 7:182; 8:245; 9:276;
173B8:17; 11:29; 174A_A3:68-70; 4:123; 5:170-
172; 175A3:71-72; 4:100-101; 5:128-129;
6:164-165; 7:186-187; 8:212; 9:252-255;
10:293; 11:324-325; 12:365; 13:407; 14:443;
15:471-472; 175B6:5; 8:14; 176A3:214, 217;
178A4:67, 69, 75; 5:62-65; 6:44; 7:45-48; 8:43;
9:54, 57; 178B5:24-25; 37:27; 179A4:153;
180A5:80-82; 6:154-155, 158, 175, 207; 7:52-
53; 7:54-55; 8:89; 9:106, 110-112, 128, 148;
10:56-57; 11:32-33; 12:111, 116, 130, 151;
181A3:46-47; 4:33; 5:39-40; 6:61; 8:61; 9:39;
182A5:39; 8:43; 9:36; 10:49-50; A12:37;
183A3:31-33, 35; 4:70-71; 5:142-145; 6:144-
151; 7:155-161; 8:76-79; 9:107-111; 184A5:46;
186A4:101, 104, 106; 5:64, 66; 188A3:118-123;
4:74; 189A3:82-83; 4:34; 5:78-82; 189A(appen-
dix):14-15; 6:94-97; 7:71-76; 190A4:60-62;
5:63, 65; 6:41; 7:35; 8:41; 9:47; 191A4:80;
192A3:136; 4:100-101; 5:99; 7:48; 193A6:32;
194A8:51; 195A3:106, 113; 4:119, 123; 5:24-26;
195B13:10-11; 197A1:44; 198A3:81; 4:52; 5:52;
6:45; 7:41; 8:38; 199A8:27; 9:20; 10:30; 11:51;
12:56; 13:42; 14:32; 15:23; 200A3:109, 117;
4:123-124; 201A6:58; 7:61; 8:45; 9:44; 10:47;
11:65; 12:40; 201B16:12-14; 202A3:31-34;
4:39-41, 45; 5:37-38; 6:41-44; 7:52; 8:60; 9:58,
61; 10:53-55; 11:48; 12:58-59; 13:47; 203A3:57;
205A4:137-139, 168; 5:77-80; 6:42; 206A3:126,
132, 142, 302-303; 207A4:49; 208A3:48-49;
4:53; 5:41; 6:59-60; 7:48-49; 209A9:116;
210A3:269-275; 4:29
vs. magnetic inclination, 160B5:70
vs. magnetic susceptibility, 119A6:181-183;
155B12:237, 239, 242; 157A6:154; 202A3:34;
4:46
vs. reflectance and lithology, 160A5:95
vs. sulfate ion vs. depth, 130A8:320
vs. temperature, 139B30:521; 188A3:114; 4:70;
193A3:246; 195A3:107; 204B18:12
vs. time, 195A5:23
Z-intensity vs. depth, 194A5:57
zones, 190A5:65
See also geomagnetic paleointensity; paleointensity
magnetic intensity, isothermal remanent magnetization
acquisition results, 146A(1)5:166, 168
vs. depth, 146A(1)6:257
vs. temperature, 146A(1)5:167
magnetic intensity, natural remanent magnetization
lithology, 106/109A4:73-74, 77; 8:217-219; 106/
109B21:258-262; 23:269-270; 24:276-278;
25:285; 27:297-300; 111A3:87-88, 96; 4:267,
273; 114A5:111, 114; 6:177-180; 7:278, 282;
11:652; 114B19:342, 346-349, 352; 21:368-371;
22:391, 395-404; 116A4:62-63, 68, 70;
118B16:286; 28:554-555; 119A9:357;
119B43:752-754, 757-761, 766, 768; 44:778-
780; 45:804; 121B17:383; 123A4:132-133, 200;
5:299, 324; 129B24:447; 131A6:148-150;
135B45:732-733
sediments, 138A(2)18:1032, 1034
vs. demagnetization, 141A6:96-97; 7:183-184
vs. depth, 138A(2)16:922; 18:1037; 19:1078;
141A9:322; 145A3:55; 4:99; 5:145; 6:232; 7:312;
8:351; 159A7:239; 8:275
magnetic intensity, normalized
thermal demagnetization, 186A4:118-119
vs. depth, 202A1:90
vs. paleomagnetic secular variation, 202A1:88-89
vs. temperature, 186A4:118-119
magnetic intensity, relative, vs. depth, 175A10:294
magnetic intensity, uncorrected remanent, 193A3:235;
4:207
magnetic intensity bias, vs. depth, 189A7:75
magnetic intensity logs
correlation, 186B8:14, 18
vs. depth, 194A3:35-44; 4:66-72; 5:56, 58, 61; 6:39-
45; 7:78, 83-84; 8:44-48

- magnetic intensity/magnetic susceptibility ratio, vs. depth, 184A5:50
- magnetic intensity ratio, vs. depth, 186A4:116–117
- magnetic intensity zones, sediments, 190A5:18
- magnetic isochrons, seafloor, volcanic centers, 197B1:25
- magnetic lineaments
- Berriasian–Barremian interval, 129B32:598
 - hotspots, 198A1:7–8, 92
 - Jurassic–Lower Cretaceous interval, 129B32:574
 - lunes, 129B33:618
 - maps, 187A1:19
 - Mesozoic, 129B32:573
 - Pacific Ocean NW, 143B31:500
 - paleomagnetism, 129B26:471–481
 - seafloor spreading, 180A2:14
 - tectonics, 185A4:2–3, 57; 191A1:25, 32; 4:53
 - triple junctions, 132B1:4
 - uppermost Jurassic, 129B32:578
 - vs. depth, 186B16:14–15
- magnetic lineation
- cores, 161B11:135
 - vs. depth, 172B4:7–8
 - magnetic susceptibility, 193A3:237
- magnetic logs
- algorithm validation, 197B5:7–9
 - basement, 197A3:44–45
 - Bundesanstalt Geowissenschaftern und Rohstoffe (BGR) magnetometer, 106/109B29:309–312
 - data, 117A10:304; 11:370; 119B49:895–897, 900–901; 121A14:513–514
 - errors, 118B17:317–318
 - interhole correlation, 121A12:396–398
 - lithology, 188A4:41–42
 - magnetic polarity, 143B23:383–387; 144B37:633; 38:641–647
 - magnetostratigraphy, 145B30:455–468
 - Oman margin, 117A10:296
 - ratio vs. depth, 194A3:44
 - Vanuatu, 134B33:577–585
 - vertical magnetic field, 118B17:316–317
 - vs. core data, 145A5:169, 175; 6:270–271
 - vs. core susceptibility data, 145A6:271
 - vs. depth, 106/109B24:279–280; 114A8:396; 116A4:69; 133A(1)9:316; 147A3:107; 185A1:45; 197B5:16–21
 - See also* induction logs; magnetic field logs; magnetic susceptibility logs; paleomagnetic inclination logs; total magnetic field logs
- magnetic mineralogy
- alteration, 192A4:19
 - basalts, 121A10:282–283; 11:333
 - dissolution, 101B3:336, 338; 127/128B(2)60:951; 175B16:1–10
 - enhanced glaciation, 119B43:757
 - grain size, 106/109A4:72, 75; 121B39:822; 127/128B(2)60:949–951
 - hemipelagic drifts, 178B14:1–12
 - iron oxidation, 115A7:477
 - Labrador Sea, 105B34:657
 - magnetic concentrates, 117A13:430–431
 - magnetic groups, 111B13:148–152
 - magnetic overprint, 115A4:137
 - magnetic properties, 127/128B(2)60:947; 61:962; 132B3:43; 201B17:3–4
 - magnetite, 120B(1)15:238–239
 - mud volcanoes, 195A3:26–28, 155
 - North Pacific transect, 145B33:483–490
 - occurrence, 105B44:837–838; 45:843, 846
 - oceanic crust, 137/140B29:327–337
 - opaque mineralogy, 107B7:102–103; 111A3:91–92
 - oxide minerals, 118B4:78; 148B38:467–482
 - particle- and grain-size correlation, 105B4:837–838
 - peridotites, 147B24:405–413
 - rock magnetism, 192A4:20–21
 - sediments, 134B27:475–490; 167B28:314–315
 - sheeted dikes, 137/140B22:253–262
 - Site 504, 137/140B23:263–264
 - Site 797, 127/128B(2)60:949, 951
 - sources, 161B40:513
 - thermal demagnetization, 127/128B(2)60:949, 951
 - vs. depth, 188B13:23
 - See also* hematite; iron oxides; magnetite
- magnetic moment
- discrete samples, 175B8:13
 - vs. temperature, 175B13:11
- magnetic orientation
- igneous provinces, 192B1:3–4
 - vs. sedimentary features, 192A4:23–24
- magnetic overprinting
- coring-induced magnetization, 160A14:497–505; 175A5:127; 6:160
 - magnetic experiments, 189A(appendix):1–15
 - paleomagnetism, 189A(appendix):4–5
 - sediments, 172B2:6
- magnetic oxides, dissolution, 207A7:19
- magnetic period, vs. depth, 168A6:177–179
- magnetic polarity
- age, 165B8:144; 168A1:9; 181A6:66–67; 8:66–67; 196A3:81
 - age control, 143B31:512
 - age vs. depth, 184A6:58; 7:88; 8:40; 9:108; 195A4:127–128; 198A3:83; 4:54; 7:43
 - basalts, 135A(1)4:124–126; 163X_A4:13–14; 5:6; 191B8:8; 196A3:33; 198B20:5
 - biostratigraphy, 162B2:27, 29; 181A6:66–67; 183A7:48
 - block rotation, 129B25:459–460
 - Brunhes/Matuyama boundary, 172A7:318–319
 - Campanian–Eocene interval, 207B3:1–48
 - chron ages and correlated intervals, 157A7:351; 8:414
 - chron boundaries, 152B22:269; 160A7:179; 162A3:71, 73; 4:112–113; 5:158; 6:190; 7:241; 8:270–271; 10:365; 162B9:135, 138–139, 142–143; 10:155, 158; 165A4:161; 177A4:86; 198B1:35; 202A7:69; 8:98–99; 11:75
 - chrons, 157A4:75; 5:122; 162B9:139, 143; 167A(1)7:164–165; 15:442; 177A6:13
 - correlation, 143B25:396–397; 152A7:79; 178B31:5–6; 181A5:44; 202B3:4–5
 - Cretaceous, 143A9:326; 143B26:402–403; 27:408–409, 413–414; 31:530–532
 - deep-sea sediments, 185B7:7

- directional variability, 202A5:11–12; 9:17; 10:16;
12:14; 13:12–13
- directions and chron polarity ratings, 171B_B9:29–58
- excursions, 138B38:788–790
- fossil spreading centers, 138B5:60–62, 65
- gabbro intrusions, 170A3:70
- gabbros, 153A4:167–171; 5:211; 6:253–254;
153B24:432–433; 205A4:43
- Jurassic, 129B25:455–456
- lava flows, 163A5:54
- lithology, 129B23:437; 163A4:35
- Lower Cretaceous, 129B23:435
- magnetic anomaly skewness, 129B33:621
- magnetic declination, 207B3:5–7
- magnetic field, 178A4:29
- magnetic inclination, 177A7:13; 203A3:19–20
- magnetic reversals, 166A9:247; 166B11:124–125;
167A(1)4:64, 71–72; 8:187; 172A5:187;
191A4:85–87, 141
- magnetostratigraphy, 160B5:64–72; 161A8:372–373;
162B8:113–130; 20:265–269; 167A(1)5:102;
168A4:78; 171B_A3:71; 4:134; 5:196, 199–203;
6:275–282; 7:329–330; 172A3:46; 4:99–100;
5:186–187; 6:263; 175A3:70; 4:98–99; 5:127;
9:252–254; 178A4:18–20, 92; 5:28, 86;
178B31:1–23; 180A9:37–38; 181A8:25–27;
188A3:41–43; 4:28–29; 5:21–22; 192A3:33–34;
5:19; 6:21–22; 195A4:30–32; 199A8:11–12; 9:7–
8; 10:13; 11:21; 12:22; 13:18; 14:15; 199B2:15–
25; 200A3:38–39; 201B16:4; 207A5:20–21; 6:23–
25
- marine sediments, 157B6:57–69
- Miocene–Holocene interval, 198B22:1–39
- Neogene, 135B46:737–762; 145B1:6–9, 13–16
- normal to reversed polarity, 143B22:377, 379
- ooze, 143A6:134
- overprinting, 167B28:315–317
- paleomagnetic age, 202A7:70; 11:76
- peridotites, 149B25:436
- polarity ratings, 171B_B9:4–6
- remanent magnetization, 160A5:103–104; 8:233–234;
9:303–304; 11:390; 183A3:14; 184A5:11–13
- sedimentation rates, 162A5:156; 7:241–242;
178A5:143
- sediments, 133B39:566; 138A(2)18:1032, 1034;
150B8:137, 143; 150X_B22:296–304; 159A5:94;
163A3:26; 166A6:89–90; 7:159; 170A3:70;
5:167; 177A1:13–14; 180A5:29–30; 6:50; 9:17;
182A1:26; 183A4:23–24; 186A1:11, 14;
190A4:15, 62, 130; 5:17–20; 8:13; 194A6:11–12;
198A4:22; 198B21:4–5, 12; 202A3:12; 7:16;
8:21–22; 11:13–14; 205A4:41–42; 6:14;
207A5:57; 6:53–55; 7:19; 8:51–53
- sequences, 152A6:66
- short events, 138B5:67–69
- Site 800, 129A2:54
- Site 801, 129A3:121
- Site 844, 138A(1)9:146; 138B5:70–71
- Sites 1218–1219 correlation, 199B2:26
- stratigraphy, 151A5:76; 6:127–128; 7:178–179; 8:238–
239; 9:282–284; 10:330–331; 11:366; 189B10:6
- tectonics, 185A4:35–37; 198A1:7–8
- timescales, 154B3:74
- transitions, 173B11:2–3; 194A3:69; 4:105; 6:82–83;
8:75; 178A5:142
- Upper Cretaceous–lower Tertiary interval, 129A4:203
- vs. age, 136B3:47; 181A7:82
- vs. depth, 129B25:464; 135A(1)4:123; 5:215; 9:429;
138A(2)15:842; 143B27:414; 145A3:53; 4:103;
5:148; 6:238; 7:318; 8:350; 150A6:87–91; 7:158;
8:228–229; 10:326; 150X_B22:297–303;
151A9:284; 152A8:99; 164A7:191; 164B39:415–
417; 168A6:177–179; 170A4:128–129;
171B_A6:276–280; 7:331–333; 173B11:35, 39,
43, 50, 54; 178B37:28–31, 37, 40; 181A9:41;
182A7:42; 185B7:13; 188A3:120; 189A3:82–83;
4:34; 5:78–80; 6:94–96; 7:71–74; 192A3:133;
5:98; 6:82; 7:47; 197A4:82; 198A3:82; 202A7:54;
8:61–65; 202B3:13; 205A4:71–72, 88, 94–98,
101–104; 207A4:49; 7:52–53
- vs. Paleogene chronostratigraphy, 171B_A3:75; 4:138;
5:204
- zonation, 180A6:256; 198A3:25–26; 5:23
- See also* geomagnetic polarity timescale; Late Creta-
ceous–Cenozoic mixed polarity interval; paleo-
magnetic pole; paleopoles; reversed polarity
Chron M0; stable Cretaceous pole
- magnetic polarity, azimuthally oriented, 143B27:409
- magnetic polarity, inferred, vs. depth, 149B21:322, 327,
333; 45:694–696
- magnetic polarity, normal, Chron 4r.2r–1, 178A4:73–74
- magnetic polarity, stable
- deepest observed, 130A8:316; 9:410
- Site 805, 130A7:248
- vs. water depth and latitude, 130B31:530
- magnetic polarity timescale
- calibration, 138B6:84–85; 23:519
- Cretaceous, 12328:B523–525
- Late Cretaceous–Paleogene, 171B_B9:20–21
- polarity chron nomenclature, 123B28:524
- Site 854, 138A(2)19:1073, 1079
- See also* chrons; geomagnetic polarity timescale
- magnetic polarity zones
- biomagnetostratigraphy, 171B_A3:71
- Site 834, 135A(1)4:122
- Site 835, 135A(1)5:214–216
- Site 838, 135A(1)8:367
- Site 839, 135A(1)9:428
- vs. depth, 174A_A3:68–70; 4:122; 5:170–172
- magnetic pole positions
- apparent polar wander path, 192B5:8
- Cobb Mountain event, 135B46:760–762
- ellipse parameters, 129B26:476
- magnetic lineations, 129B26:471
- Neogene interval, 138B1:8–9
- plate tectonics, 129B26:475, 477
- sediments, 135B47:765–774
- virtual path, 155B12:234–243
- See* paleomagnetic pole
- magnetic properties
- alteration effects, 121B28:539–542; 148B12:171–189
- anisotropy, 180A8:29

- basalts, 143B23:385; 148A3:168; 148B15:217–226;
 187B1:9–10; 7:1–25; 192B5:20
- basement units, 183A6:55–56; 7:48–49
- changes with chemical treatment, 186A4:122
- cores, 158A10:207
- crust, 185B1:6–8
- crystalline rocks, 153A7:272
- directional disturbance, 121A2:51
- discrete samples, 153A3:107–110; 4:168–169; 5:210;
 6:252–253; 7:271–272; 176A3:282–287
- environmental control, 133B38:543–562
- flood basalts, 163B2:26
- gabbro directional changes, 118B16:291; 17:319–320
- gabbro discrete samples vs. logging data, 118B17:309–
 318
- gabbro magnetics vs. physical properties, 118A4:76
- gabbros, 147B21:377; 153A5:170, 211; 6:252
- lava flows, 163B4:41–49
- lithology, 149A7:230–231
- low temperature, 173B8:8–9, 27–32
- minicores, 147A3:92; 4:145; 193A3:300–304; 4:56–57,
 258; 6:11–12, 44, 46
- paleomagnetic units, 143A9:326–329
- peridotites, 147B24:407–409; 149B25:435
- pillow basalt, 192B5:18
- sapropels, 160B6:75–82
- sediments, 143B27:408; 173A7:182; 175B8:1–17;
 13:1–31; 184B1:1–8
- seismic correlation, 121A10:294
- serpentines, 195A1:14; 3:27
- Sites 504 and 896 comparison, 148B15:225
- stratigraphic distribution, 166B4:37
- summary, 153A3:108–109
- TAG-5 area, 158A11:223; 158B25:337–351
- timescale, 121A2:50–51
- trough-mouth fans, 188B1:12
- upper oceanic crust, 148B38:467–482
- viscosity index, 106/109B27:297–300
- vs. carbonate content, 121A12:360
- vs. depth, 163B5:43; 209A10:149
- whole-core and half-core measurements, 153A7:271
- whole-core measurements, 153A3:106–107; 4:167–
 168; 5:209–210; 6:251–252
- See also* Curie temperature; diamagnetic minerals; fer-
 rimagnetic minerals; hysteresis; Koenigsberger
 ratio; median destructive field; paramagnetic
 minerals; remanent magnetization; S-ratio;
 thermomagnetic properties
- magnetic quality index, vs. depth, 206A3:307
- magnetic quiescence. *See* Jurassic magnetic quiet zone
- magnetic reversals
- age, 138B6:86–87; 198B22:5–7; 202B4:37
- age models, 114B20:363–364; 23:412; 167A(1)15:442;
 189B9:8; 194A4:20
- Antarctic region, 114A12:798
- biostratigraphic datums, 189B9:21
- Blake Plateau, 101B23:330–331
- boundaries, 115B40:724, 728, 733; 133B49:729;
 138A(1)9:155; (2)13:708–709; 16:928; 17:988–
 989; 18:1043; 19:1079; 138B5:61, 71; 150A6:90;
 7:163; 8:228; 10:326; 165A3:69
- carbonate sediments, 166B11:124–125
- Cenozoic, 129B26:477
- characteristic remanent magnetization, 183B12:6
- chrons, 138A(2)13:695; 167A(1)6:141; 178A4:71–72;
 181A1:10
- composite depths, 199A10:50; 11:101; 13:75
- correlation, 134B25:454
- Cretaceous, 143B25:396–397
- demagnetization, 161A6:211
- depth to datums, 131A6:252
- dikes, 140A2:105–106
- Exuma Sound, 101B23:332–333
- first-order curves, 197B1:30
- Jurassic stratigraphy, 144B38:641–647
- Lingayen Gulf, 124E_A13:78
- lithology, 181A1:14, 17
- Little Bahama Bank, 101B23:332
- long-core data, 189A5:37
- magnetic polarity, 107A9:616–617; 107B1:13; 21:339,
 343–346; 22:337; 112A13:320; 115A4:138;
 12:927; 133A(1)5:153; 163X_A8:6;
 167A(1)8:187
- magnetic susceptibility, 176B11:20–29
- magnetometer measurements, 102A3:124–125
- magnetostratigraphy, 120B(2)15:227; 16:248;
 134A8:160; 167A(1)4:73; 6:142–143; 7:165;
 8:200; 172A3:46; 4:100; 5:187–188; 6:263, 266;
 174A_A5:169–170; 178B37:7–15; 192A3:34;
 4:31; 199A1:38, 41; 11:24; 12:4; 13:3; 201B16:4
- Mariana Basin E, 124E_A18:123–124
- Matuyama/Brunhes boundary, 112A13:327;
 145B32:475–482
- Neogene, 135B46:737–762; 145B4:77–78
- nomenclature, 114B20:360
- paleointensity, 138B38:790
- paleolatitude, 136B3:47–50
- paleomagnetic reversals, 117A12:397; 14:451; 15:476;
 16:506; 19:598–599
- Pliocene, 134A12:422–423
- rates, 197B1:32
- remanent magnetization, 184A5:11–13
- reversed polarity, 135B47:769
- sedimentation rates, 167A(1)7:172; 178B37:12, 15;
 199A8:14–15; 10:15; 11:24
- sediments, 133A(1)9:313–314; 143B23:383–387;
 144A10:365; 149B16:334; 167A(1)4:64, 71–72;
 167B28:313–314; 173B11:18–22, 73; 182A6:24;
 186A1:14
- Site 418, 102A3:95
- Site 699, 114A6:179–182; 114B19:343–351, 355–356;
 33:613
- Site 700, 114A7:280, 285, 304; 114B19:345, 350, 357
- Site 701, 114A8:393, 395; 114B20:361; 33:614
- Site 702, 114A9:502–503, 514; 114B20:366
- Site 703, 114A10:570–571, 574
- Site 704, 114A11:652, 656–660, 683; 114B1:17;
 21:375–376, 380–383; 33:615
- Site 851, 138B6:84
- Site 882, 145A4:101
- Sites 808, 1173 and 1174 correlation, 190A5:69
- stratigraphy, 132B4:47–55; 168A4:77; 185A1:52

- transitions, 144B55:979
- virtual geomagnetic pole path, 145B32:479–481
- vs. depth, 131A6:156; 144B55:977; 190A5:69
- well-logging, 102B7:90
- zonation vs. depth, 114B20:362–364
- magnetic reversals, primary, depths, 186A4:191
- magnetic signals, deep-sea sediments, 185B7:5–6
- magnetic signatures, peridotites, 149B25:431–446
- magnetic skewness
 - anomalous behavior, 129B33:618
 - average values, 129B26:476
 - lineation intersection plots, 129B26:478
 - magnetic Anomaly M-sequence, 129B33:615
 - magnetic lineations, 129B26:471–481
- magnetic smooth zones. *See* Jurassic magnetic quiet zone
- magnetic stability, lava, 144B36:624
- magnetic structures, lava, 144B37:631–638
- magnetic subdivisions, magnetic inclination, 206A3:331
- magnetic surveys
 - advanced hydraulic piston coring, 182A(appendix):11
 - Australia NE, 133B58:823, 836–845
 - high-resolution methods, 139B2:29–35
 - Norwegian-Greenland Sea, 151A3:47–48
 - Ontong Java Plateau, 130A4:77
 - Pacific Ocean equatorial, 138A(1)3:43
 - SCREECH transect 2, 210A5:1–36
 - shipboard data, 131A3:21
 - underway geophysics, 143A3:32; 4:36–37
 - volume vs. depth, 158A7:136–140; 8:165, 169; 9:172; 11:222
- magnetic susceptibility
 - abundance, 155A11:293
 - acoustic basement, 173A7:210
 - across seismic Horizon A, 204A4:79
 - age vs. biostratigraphy, 175B22:14
 - alteration, 148B12:183; 193A3:75; 4:53
 - anisotropy, 148A2:71; 172B(overview):4; 4:1–22; 176A3:75, 222, 288–299; 180A6:153, 161; 191B9:4; 192B5:17; 193A3:301; 4:209, 259; 6:11, 31, 45; 209A3:44, 165; 5:45, 186; 6:35, 128; 7:31, 133; 9:24–25, 98, 110; 10:35, 140, 165–166
 - anomaly photograph, 204A9:60
 - archive-half measurements, 193A3:78–79; 4:55–56
 - Atlantic Ocean E tropical, 108A2:44–47; 3:119–120, 123; 4:233, 239; 5:340–345, 353–354; 6:420; 7:496; 9:628; 15:1006–1011
 - Baffin Bay, 105A4:111–116
 - Barbados Ridge, 110A9:524–527; 110B24:370, 374–377
 - basalts, 130B4:52; 140A2:103–104; 142A4:62; 148B15:218, 221; 38:472–473, 477; 163B2:24, 26; 163X_A4:14; 6:23–24; 185A3:31–32, 37; 192B7:5, 30–32; 197A6:18; 206A3:89
 - basement, 183A7:48–49; 9:36–37; 197A3:37, 163; 4:25–26, 30–31, 119
 - boliviniids event, 208A1:105
 - breaks, 121A12:424–427, 452
 - breccia, 158B25:340
 - Brunhes/Matuyama boundary, 168A4:80
 - Campanian–Maastrichtian interval, 207A1:75
 - carbon isotopes, 208B1:47
 - carbonate content proxy, 154A9:422; 154B10:174–175; 25:379
 - chilled margins, 168A5:122
 - clasts, 195A3:165
 - color, 175A22:563–565
 - comparison of loop and point sensor, 204A10:72
 - comparison with b* chromaticity, 189A3:71, 73
 - composite depth, 160A4:66; 175B20:1–10; 177A4:8–9; 178B5:6–7, 32; 181A3:20–21; 4:16–17; 202A3:4–5; 5:4; 6:24–26; 7:29–32; 9:5–6; 10:5; 11:4–5; 12:4–5; 13:4–5; 207A4:20; 5:21; 8:22; 208A3:4–5; 4:4–5, 30–31; 5:25–26; 6:4–5, 37; 7:30; 8:4, 30
 - composite digital images, 208A3:40–42
 - composite section, 154A4:79; 5:169–171; 6:244–245; 7:296–297; 8:354; 175A3:71; 4:99; 5:128–129; 6:160–161; 7:187–188; 8:211; 9:254–255; 10:292, 294; 11:323–324; 12:364, 366; 13:406–408; 14:442–443; 15:471–472; 207A6:25–26
 - continuous sections, 141A6:92–93; 9:318, 320; 209A3:41–42; 5:42
 - core differential stretching, 208A4:32
 - core-core integration, 171B_A3:71–73; 4:134, 136–139; 5:205; 6:282–283; 7:330
 - core-log comparison, 162A6:202; 10:365–366; 162B20:269; 174AXS_A(summary):9; 189A3:116
 - cores, 137A2:30–31; 149A5:141; 6:196; 7:253; 164A7:190; 170A6:213
 - correlation, 108A6:421–422; 154B20:304; 23:351; 31:471–472; 169A3:128–130; 172A3:47–48; 4:102–104; 5:188–189, 194–201; 6:266–268; 180A6:225, 7:65; 184A4:32–34; 5:5, 27–29; 6:3, 19–20; 7:27–30; 8:3, 11; 9:5, 31–35; 189B4:27; 190A1:49–51; 4:84; 195B3:21; 202A1:115
 - Cretaceous/Tertiary boundary, 165B8:145; 198A7:25–26; 208B1:39
 - cycles, 133B15:191–194; 178B25:19–25; 154B5:103–104; 20:303–304; 208A3:34
 - décollement zone, 156B22:281, 284
 - deformation, 190/196B9:4–5
 - depth tie-points, 146B(2)12:174; 155B15:278
 - depth-scale representation, 208A1:90–92
 - depths of correlative peaks, 180A7:89
 - diabases, 180A6:53
 - discrete samples, 149A4:101; 180A5:78; 7:79; 11:9; 182A4:24–26; 8:20
 - distribution, 195A3:127
 - early Eocene Chron 24n clay layer Y, 208A1:101
 - eigenvector of tensor, 209A5:171; 6:117; 7:111
 - Eocene, 171B_A7:355
 - Eocene/Oligocene boundary, 198A5:56; 208A4:43
 - Eocene–Oligocene interval, 208A1:102–103
 - Exuma Sound, 101A10:356, 403, 408; 11:457
 - fast track, 202A1:9–10; 3:19–20; 4:24–26; 5:22–25; 7:4; 8:37–42; 9:35–40; 10:34–40; 11:29–33; 13:27–32
 - ferrimagnetic minerals, 180A8:29
 - Flinn diagrams, 156A6:129; 7:227; 193A3:237
 - Fourier transforms, 133B15:194, 196

- frequency dependence, 127/128B(2)59:934–937, 942;
133B38:549–550; 145B31:470; 151B34:600,
606–607; 154B20:305–307
- gabbros, 153A4:167–171; 6:253; 179A4:58; 179B3:9
- glaciation, 145B38:592
- hemipelagic marls, 161B9:111–116
- hemipelagite, 190A1:26
- high- vs. low-field susceptibility, 154B10:174; 11:182
- high-sensitivity tools, 165A3:94–95
- histograms, 147A3:9, 48, 74; 4:159; 147B24:410;
151A7:178; 9:282; 10:330
- igneous provinces, 192B5:9–10
- igneous rocks, 147A1:12; 4:146–149; 147B22:384,
388; 176A1:24; 3:70–77; 209A3:37; 5:40; 6:32;
7:26; 9:21; 10:28
- interglacial stages, 175A5:120
- intersite correlation, 133B49:733–739;
146B(2)12:169–192; 180A1:21–22
- Labrador Sea, 105A5:460–462, 466–469; 6:713–714,
717
- Lau Basin, 135A(1)1:30–31
- lava, 152B23:271–280
- limestone, 133A(1)9:314; 143B26:401; 144A10:362–
363
- linear regression parameters, 154A9:423
- lithogenic percentage, 117B21:374, 380–382, 386
- lithology, 106/109A8:220; 106/109B23:271–273,
24:276; 26:293; 27:297–300; 107A6:154; 9:618–
619; 107B7:100–105; 8:122, 127; 22:356;
110A4:91–92; 6:329; 7:414; 110B17:260;
24:367–377; 25:380, 386–389; 111A3:88, 96;
4:267, 270, 273–274; 111B13:149–155; 14:159–
161; 112A11:187; 112B47:677–682; 113A9:477,
482–483; 12:727, 732–734; 115A4:138–145;
5:253–259, 271–272; 6:413–415; 7:461, 476–
481; 8:589, 603–607; 9:670–671; 10:747–749;
11:857–858; 12:934–935; 13:1012; 115B25:484;
41:739–741, 744, 751–752, 757, 761, 766;
116A4:63, 66–74; 5:114–116; 6:170–173;
116B3:29–30; 26:318–331, 334–335; 27:343–
344; 117A2:24; 3:42; 4:49; 8:166–173; 9:218–
224, 238, 244; 10:269, 272, 276–279; 11:335–
337; 12:396, 398, 401–402, 414–415; 13:428–
429; 14:455–456; 15:473–474, 478–479; 16:507–
508, 511; 18:568–570; 19:604, 607–608;
117B18:310; 19:325; 20:347; 21:375–380;
22:405; 118A6:151–154; 118B16:286, 291;
17:314–316, 318; 119A2:34; 5:137, 139; 8:310;
119B43:757–761, 768; 46:821; 121A2:50; 6:130;
7:178–179; 8:206; 9:247; 10:279–284; 11:331,
336–337; 12:394, 397–398, 405–407, 416–417,
423–427, 449–452; 13:468, 475, 482–483, 491–
493; 121B14:277; 15:299–300, 306–313, 340–
355; 17:379, 384; 28:533; 39:799, 805, 823–827,
829, 855, 881; 123A4:131–133, 136; 5:297–299,
325; 124A10:150–151; 12:321–323; 13:353–354;
14:407–408; 125A8:167–168; 9:190–192;
10:213, 220; 11:265–266; 12:291, 293, 300;
13:311; 14:332, 339; 125B33:564, 567, 570, 573;
127A4:72, 105, 110–111; 5:174, 199, 203–204;
6:275, 277; 7:324, 358, 362; 127/128B(2)59:934,
937; 60:954; 61:959, 961; 62:973–981;
128A3:101–102; 4:167–171; 138A(2)19:1067;
154A4:64; 5:157–160; 168A4:88, 90, 92; 5:148,
150; 6:186, 188; 170A6:207; 175A9:237, 241;
183A3:16; 4:27–28, 90; 5:188; 6:58; 7:52; 8:26;
9:40; 185A4:39; 197A5:21, 25–26, 106; 6:22,
111; 199A8:12–13, 20; 9:14; 10:20; 11:22, 31;
12:32–33; 13:19, 28–29; 14:16, 23; 15:10, 16;
199B2:5, 15–19, 33–34; 200A3:43; 205A4:40
- lithology index, 176B11:1–69
- Little Bahama Bank, 101A6:135–136, 145
- log vs. core, 171B_A5:237–238; 6:317; 180A5:77
- logging-while-drilling, 204A1:61
- low-temperature tests, 133B38:558–559; 183B12:8–9
- magnetic anisotropy, 156B6:97–105
- magnetic fabric, 159B19:192
- magnetic intensity, 203A3:20
- magnetic minerals, 115B41:767; 201B17:3–4;
209A5:61
- magnetostratigraphy, 162B20:265–269; 173B11:19–23
- matrix material, 161B9:114; 195A3:166
- measured vs. normalized properties, 146A(1)5:169
- measurement procedures, 101A1:19
- metal contaminants, 101A4:39–43
- metasediments, 173A8:252
- microbial activity, 201A1:15
- microfabrics, 185B9:6–7, 29
- middle Eocene, 198A5:56
- mid-ocean-ridge basalt, 187B7:5–9
- mid-Paleocene biotic event, 208A1:98
- millennial-scale variations, 202A1:116
- mineralogy, 180A5:39–40; 6:66–67
- multisensor track data, 162B18:249–251, 254;
182A4:103; 5:83; 6:23–24, 106; 7:79; 8:20, 91;
9:75; 10:22, 80; 11:46; 12:73; 183A5:50
- natural remanent magnetization, 173A4:84; 6:121
- Neoglacial, 178B34:7
- Oligocene–Miocene interval, 154B37:529–532
- organic carbon and inverse correlation, 119B6:113
- orientation of principal directions in lower hemi-
sphere stereograms, 147A3:97; 4:152
- oxygen isotopes, 115B41:760; 175A3:564
- paleoceanographic proxies, 184A1:13
- Paleocene, 171B_A7:357
- Paleocene/Eocene boundary, 198A5:57; 208A3:43–44;
4:31
- Paleocene–Eocene interval, 208A1:99–100
- Paleocene–lower Eocene interval, 207A1:74
- paleoclimatology, 178B7:3–4
- Paleogene, 198B1:12
- pass-through core measurements, 150X_B6:65–74
- pelagic sediments, 143A6:134
- peridotites, 149B25:434; 173B8:9
- periodicity, 161A9:399
- petrology, 168A5:118–119
- photomicrograph, 168A4:68
- physical properties, 176A3:77–78
- pitting and dissolution, 117A13:429
- plots per unit volume, 133B49:728–729
- porosity, 178B30:4–7
- power spectra, 154B7:149; 162A6:191; 189A3:70, 74

- principal axes, 147A4:152; 147B23:402
principal ellipsoids, 156A6:129
probe data, 102A3:97, 103, 127, 131, 135, 136;
102B7:78, 81–82; 11:159, 162
projections, 156A7:226
pseudostratigraphy, 179B(synthesis):7–11
quiet zone, 139A7:304–305
ratio vs. depth, 174A_A3:72
remanent magnetization, 173B8:5–6
response functions of sensor, 176A3:224
rhyodacites, 193A6:10
rock magnetism, 161A6:206–207; 192A4:21
rocks, 192A3:33, 36, 160; 4:24–25; 5:23, 116–118;
6:20–24, 109–110; 7:12, 59–62; 192B7:14–15;
210A4:38–39
sapropels, 161A5:140
sediment supply, 117B6:155–156
sedimentation rates, 167A(1)5:103; 6:141, 143; 8:187,
190–191; 172A7:311; 175B22:3–5; 23:11–13
sediments, 133A(1)7:215; 133B22:303–309; 38:545,
549–551, 560; 39:566–567; 49:725; 136A5:69;
138A(1)7:95–96; 10:216–217, 220; 12:353;
(2)16:902; 139B45:724–726; 141A10:365–369;
144A3:66; 144B55:973–984; 146A(1)5:165;
(2)2:36–37; 146B(1)32:451–453; (2)11:145–168;
154B10:169–179; 11:182; 155A6:103; 7:138;
8:189; 9:213; 10:256; 11:293; 12:345; 13:397–
398; 14:423; 15:448; 16:474–475; 17:519;
18:553–555; 19:579; 20:607–608; 21:649;
22:670–671; 155B14:252; 15:271–278;
156A6:136–137; 7:220–221; 157A5:126; 7:359;
10:525, 527; 160A4:72–73; 5:118; 6:139; 7:191;
8:254; 9:314; 10:371–372; 13:460; 14:488;
161A4:80; 162A3:81; 9:319; 164A6:119–120;
8:258, 260; 9:293; 164B38:404–405; 165A4:185,
267; 166A6:89–90; 7:158–159; 8:186; 9:247;
10:310; 11:358, 360; 167A(1)4:72; 7:165; 9:229–
230; 10:256–259; 11:293–294; 12:325, 328;
13:366–367; 14:400, 405; 15:442, 447; 16:473;
168A4:86–87; 169A3:126; 4:186–188; 5:225–
227; 6:289–292; 170A3:83; 4:146–147; 5:181–
182, 186; 7:245; 171B_A3:78; 4:146, 152–153;
5:210; 6:287–289; 172A3:63–65; 4:129, 132;
173A6:151, 153; 7:206–207; 8:244; 9:276, 291–
292; 174A_A3:77, 80; 4:130; 5:176–177;
175A3:69–70; 175B8:3–4; 13:5, 21–30;
178A4:24; 5:21–22; 6:15–16; 7:17–18; 8:16;
9:16; 178B(synthesis):12–13; 6:3–5; 7:10–14;
180A5:27–28; 6:48–50; 7:20, 24–25; 8:36; 9:35,
50–51; 10:15–16, 19–20; 12:33–34, 44–45;
181A3:19–20; 4:15–16; 6:21–22; 7:26–27; 9:22;
183A7:47–48; 8:23; 184A4:25; 184B1:2–3;
188B9:3, 12; 190A4:15, 28, 78; 5:18, 33, 81;
6:23, 55; 7:20, 47; 8:23–24; 9:26; 190/196B12:3;
191A4:24–25, 39; 194A3:21–22; 4:27; 5:22;
6:20–21; 7:28–31; 8:21; 9:21; 195A5:10;
198A3:37–38; 4:29; 5:30; 6:27; 7:25; 8:23–24;
10:14; 198B15:7; 201A1:43; 6:25–26; 7:28; 8:22–
23; 9:18–19; 10:21–22; 11:25; 12:20; 201B17:15;
202A3:40–41; 4:7, 59–63; 5:49–51; 7:61–62;
9:81–83; 10:74–76; 11:63–66; 12:79–81; 13:59–
62; 204A3:27; 4:21; 5:12; 6:16; 7:17; 8:18; 9:18;
10:22–23; 11:15; 205A5:24–27; 6:12–13;
206A3:30–32, 48–49; 207A6:34–35, 53; 7:51;
210A1:19, 21; 3:90–92, 106–107, 340–341
sediments vs. basalts, 102B7:88
seismic horizons, 204A9:61; 204B1:33
shear zones, 134B27:479–480; 179A2:6
shipboard vs. shore-based records, 146B(2)11:153–
155
Sierra Leone Rise, 108A1:25; 10:750, 753; 11:798;
12:843, 846; 13:936; 15:1011, 1013
silicified iron oxides, 158A9:173
silt, 134B25:448
Site 698, 114A5:111, 114, 117; 114B22:393, 397, 400,
402, 406
Site 699, 114A6:177–180
Site 701, 114A8:392–394
Site 704, 114A11:652, 657; 114B29:553
Site 829, 134A9:216, 218
Site 830, 134A10:284
Site 831, 134A11:346
Site 832, 134A12:423–424
Site 833, 134A13:514
Site 834, 135A(1)4:122–126
Site 835, 135A(1)5:209, 212
Site 838, 135A(1)8:365
Site 840, 135A(1)10:533–534
Site 841, 135A(1)11:619, 621
Site 844, 138A(1)9:144, 147
Site 850, 138A(2)15:826, 830
Site 869, 143A9:326
Site 883, 145A5:145–147
Site 884, 145A6:228, 231–234
Site 894, 147A3:91
Sites 991–992, 164B38:404
Sites 998 and 999 comparison, 165A5:248
Sites 1218–1219 correlation, 199B2:26
sources, 147B23:393–403; 154B10:174–175;
161A7:314, 316; 186B16:4
Southern Ocean, 114A7:278, 280; 10:569–570;
114B22:400, 402, 406
spectral analysis, 117A10:272–273, 280; 117B22:400,
404; 175B22:12
spectrophotometry, 175A10:282–283
splice tie points, 154A9:431; 191A4:140
spliced records, 202A6:27; 8:36; 10:41; 11:34; 12:30–
36, 44; 13:33
stable isotopes, 175A22:563
stereonet plots, 180A10:54; 12:113
stratigraphy, 133B25:355, 358–360; 145B13:206–217
structural domains, 156A6:127
sulfides, 158A7:122; 8:167–168
Sulu Sea, 124A11:230, 233
summary, 189A1:38–40
terrigenous influx, 117B18:312; 19:339; 21:386;
22:390, 392, 396–397
thermal treatment, 142A4:72
Tiburón Rise N, 110A5:228–229; 110B24:367, 373–
377
timescales, 154B3:70–71
turbidites, 204A9:61

- U-channel paleomagnetic studies, 202B14:13, 18, 23
 uniformity of particle size, 117A13:429
 unsplit cores, 170A3:89; 4:147
 upper Paleocene, 198B9:5-8; 207A4:52
 variance density spectra, 154B7:147-148
 vectors, 186B16:13
 volcanic rocks, 163A5:66-67
 vs. accumulation rate of benthic foraminifers, 154B27:430
 vs. age, 133B15:196; 138A(1)10:257; 11:324; 138A(2)13:731; 15:880; 17:1019; 18:1061; 19:1092; 139A5:113-114; 144B42:714-718, 722; 145B15:243; 19:288-291; 20:295-300; 21:321, 324; 146B(2)11:164-168; 12:190-192; 149A4:73; 5:131; 6:182; 7:231; 154A9:432-434; 154B3:73-75; 7:145-146; 16:242; 165A3:58; 4:144-145; 8:382, 384; 167A(1)4:78; 5:109; 6:147; 7:169; 8:203; 9:263; 12:338; 13:369; 14:413; 15:455; 172A4:115, 119, 122, 126; 5:204, 207, 212-213; 6:277; 7:314; 175A17:526; 175B23:9, 13, 15, 31-36, 39-41; 180A1:47; 199A1:76; 202A4:51; 9:56
 vs. anhysteretic remanent magnetization, 145B31:470; 154B11:183, 186; 157A5:122; 9:456; 157B6:59
 vs. biostratigraphy, 154A6:252
 vs. bulk density, 147A3:96
 vs. calcium carbonate, 165A8:382
 vs. calibrated age, 178B34:14
 vs. carbon-14 age of marine sediments, 178A2:44
 vs. carbonate content, 133A(1)15:631; 133B15:194; 49:742; 154A4:117-118; 5:189; 9:424; 165A3:61; 5:252
 vs. composite depth, 138B3:34, 39; 145B15:233, 242; 19:286; 178A7:63-65, 69; 198A6:35, 49; 7:45; 8:42
 vs. compressional wave velocity, 192B7:18
 vs. cores, 139A5:112
 vs. deformation intensity, 176B11:60, 63
 vs. density, 147B24:411; 157A9:466; 10:533
 vs. depth, 101A4:40, 42; 133A(1)12:466-467; 13:521-522; 14:581; 15:631; 16:707; 133B25:358; 134A7:118; 8:161, 167; 9:229-230; 10:295; 11:351; 12:442; 13:519; 134B25:449-451; 26:460-474; 27:481; 28:493-494; 135A(1)4:123, 126; 7:317; 136A4:43-54; 137/140B22:254-256; 138A(1)10:221-225; 11:276-278, 294; 12:342-343, 356-357; (2)13:686, 688, 694; 14:750-752, 771; 15:818-820, 831, 839, 842; 16:904-906, 922, 929; 17:976, 994; 18:1031, 1037; 19:1070, 1073, 1078; 138B38:789; 139A7:327-331; 139B31:538; 140A2:124; 141A6:94-95; 7:182; 8:260; 9:321; 10:370-371; 144A3:89; 4:127, 142; 5:178, 192; 6:231; 8:301; 10:363; 11:429, 446; 144B34:593-596, 599, 601; 55:977-984; 145A3:55, 62; 4:96, 99; 5:145, 147; 6:232; 7:313, 315; 8:351-352; 145B13:206-208; 17:258; 33:485-489; 34:495, 499, 503-504, 508-509, 516; 146A(1)4:78; 5:169; 6:258; (2)2:38; 146B(1)14:235, 238, 244, 248; (2)11:148, 154-159; 12:172-173, 180-189; 147A3:94; 4:145; 147B21:378, 385, 388; 148B12:181; 38:482; 149B25:443, 446; 150A6:87-89; 7:159, 162; 8:228-231; 9:281; 10:326; 150B7:118-119; 19:351, 354; 150X_B6:66, 69-74; 152A6:69; 7:85; 8:104; 9:121, 127, 143; 11:226, 240-241; 12:273, 275; 152B23:272-274, 278; 153A3:107; 4:168; 6:251; 7:271; 154A4:62-64, 72, 87, 90-91, 99-101, 118, 132-133; 5:158-160, 170-171, 180-181, 188, 212, 215; 6:236-237, 250-251, 254-255; 154B5:120; 7:141-142; 10:173; 19:286-288; 20:298-299, 303; 22:342-345; 23:360-361, 364-365; 28:440; 37:530-532; 155A6:110, 146; 8:190; 9:216; 10:259; 12:350; 13:400; 14:423; 15:453; 16:479; 17:526; 18:555; 19:583; 20:611; 21:649; 22:675; 155B13:247; 15:274-277; 39:604, 606; 156A6:138; 7:237; 156B6:100-103; 157A4:76, 81-83; 5:122, 128, 131; 6:154, 161-163; 7:367-371; 8:421-425; 9:464-466; 10:528-533; 159A6:183; 160A4:72, 77, 84; 5:112, 123; 6:136, 140; 7:188-189, 198, 203-205; 8:252, 262; 9:311, 320; 10:365, 373; 11:392; 12:435; 13:458, 460; 14:481, 485, 490; 161A4:83, 94-98; 5:141, 143, 154-160; 6:218, 262-265; 7:308, 320, 322, 333, 343; 8:379, 388; 9:397, 413; 161B40:509, 512, 514; 162A3:59-65, 82-83; 4:100, 120-121; 5:147-153, 164; 6:179-185, 198, 202; 7:232-238, 250; 8:262-265, 282; 9:297-300, 325; 10:354-357, 376-377; 162B8:119; 9:136-138, 142; 20:268-269; 163A4:46; 5:67-68; 163B2:23; 5:43, 45, 48; 164A5:84; 7:191-192; 8:263; 9:294; 164B38:403, 406; 165A3:69, 87, 95-96; 4:149, 185, 187; 5:240, 243, 252, 266, 272, 274; 6:303, 306, 314, 332, 334, 338, 341-342; 7:369, 372-373; 165B8:145, 147; 11:196-197, 200-201; 166A6:90, 96-98; 7:159, 165; 8:180, 186-187, 193; 9:242, 247-249, 256-257; 10:311, 318-319; 11:358, 360, 366-367; 166B11:124; 15:161; 167A(1)4:75, 81; 5:105-106, 113; 6:144, 151; 7:167, 172; 8:201, 206, 210; 9:231, 235; 10:261, 268, 272; 11:301, 306; 12:335, 341; 13:367, 374, 379; 14:408, 410, 417, 421; 15:452, 457; 16:476, 482; 167B28:315; 168A4:95; 5:154; 6:190-192; 169A3:126, 129, 138; 4:189-190; 5:229; 6:291-294; 169S_A2:36, 43; 170A3:47; 4:97; 5:154; 7:216; 171B_A3:76-77, 85; 4:139, 148, 158; 5:208-209, 219; 6:286-288, 297; 7:334-337, 342, 355; 172A3:44-45, 50-51, 64-65; 4:83, 87, 90, 92, 107-113, 138-140; 5:165, 170, 172, 193-194, 197-204, 207, 212-213, 229-231; 6:255, 258, 264-267, 271-276, 289-290; 172B4:7-8; 7:15, 19, 21, 27, 31, 34; 8:20; 173A4:86; 6:124, 151; 7:206-207; 8:245, 254; 9:291; 174A_A3:78-79; 4:125, 129; 5:170-172, 179; 175A3:72-76, 85; 4:99, 103-104, 112; 5:121, 127, 130-131, 136, 138; 6:163, 166, 168, 175; 7:185, 188-189, 193-194, 197; 8:211-216, 220; 9:244, 252-257, 269, 271; 10:282, 293-296, 309; 11:324-328, 336; 12:365-369, 380-383; 13:398, 407-412, 424-427; 14:443-447, 454; 15:471-474, 482; 22:563; 175B8:15; 13:10, 14-15; 20:4, 7-8;

- 176A1:67; 3:213, 225–226, 300; 176B11:8–10, 33–62; 177A1:51; 3:23, 28, 36; 4:38, 41, 50; 5:39, 42, 55–56; 6:34, 37, 46–47; 7:27, 29, 36–39; 8:42, 44, 53, 56, 63; 9:34, 36, 43; 178A4:50, 75, 81–83, 88–92, 97–99; 5:65, 72–74, 82–83, 88–91; 6:51; 7:45, 48–49, 54–56; 8:33, 50–52; 9:58–59, 66–67; 178B5:16–19; 6:8–11; 7:24, 30–31; 14:9; 25:19–25; 30:11–12; 31:20; 32:20, 33; 37:27; 179A4:94; 179B(synthesis):64; 2:26; 3:15–16, 25–26; 180A1:46; 6:151–152, 175–180, 298; 7:50–51, 62; 8:86–87, 97; 9:104–107, 128–129; 10:52, 63; 11:34; 12:110–113, 130–131; 180B20:8–10; 181A3:46–47, 50, 52, 60; 4:33, 36–39, 43; 5:39–40, 49; 6:61, 68–71, 79–80; 7:81–88, 100–101, 106, 109; 8:61, 68–73, 79; 9:42–47, 50; 182A4:70–71; 5:50; 6:58, 61–64, 72–73; 8:43, 56; 9:47; 10:50, 58; 12:47; 183A3:31–35, 38–39; 4:70–71, 76–77; 5:142–145, 150–151; 6:144–151, 157; 7:155–161, 167; 8:76–79, 84; 9:107–111, 114–117; 184A1:55–65; 4:64; 5:46, 60; 6:40; 7:57; 8:24; 185A3:128; 4:135–136; 185B9:17; 186A4:78, 91–92, 101, 116–117; 5:51, 64, 67–68; 186B16:10–11; 188A1:50–51; 3:142, 145; 4:68; 5:59, 68; 189A1:86; 3:45, 60–65, 86, 99; 4:42; 5:49–50, 86, 95; 6:68–74, 109; 7:56–60, 78–79, 87; 188B1:38, 41; 9:8; 13:22; 190A4:60, 78; 5:81; 6:55; 7:47; 8:54; 9:60; 190/196B9:14; 191A4:83–84, 110; 192A1:43, 65–66; 3:49, 132, 136, 138; 4:38–39, 100, 105–106; 5:99, 103–104; 6:39–40, 83, 86–87; 7:50; 192B7:13, 16; 193A3:228, 236; 4:200, 208; 6:27; 194A3:42, 55; 4:88–89; 5:74–75; 6:60–63; 7:97–98, 104; 8:61; 9:52; 195A1:53; 3:106, 120, 124–126; 4:119, 123; 5:24–27; 195B13:10–11; 197A3:125; 4:38–41, 95–96; 198A1:101–102, 106, 110, 116–117, 120, 125; 3:55, 97; 4:36, 49, 68; 5:38, 43, 51, 55–57, 68; 6:33–34, 48, 61; 7:33, 39–40, 44–45, 57; 8:30, 41–42, 55; 9:82; 198B15:7–10, 13–15; 199A8:31, 33, 42; 9:23–24, 33; 10:33–35, 46; 11:57–59, 76; 12:62–65, 73, 82; 13:46–48, 58, 67; 14:34, 43, 48; 15:25–26, 39; 199B3:58–59; 24:15; 200A3:109, 129; 4:123, 132, 136, 140–141; 201A1:71, 73; 6:40, 56; 7:59–61; 8:31, 39, 44–45; 9:31, 43–44; 10:46; 11:64–65; 12:39–40; 201B17:8–9; 202A1:118, 121, 124–134, 137, 139, 141; 202A3:26, 30–33; 4:29, 32–33, 51; 5:28–29; 6:29, 32; 7:39, 41, 44; 9:45; 10:45–46; 12:47, 59; 13:36–37; 202B4:23; 203A3:64; 204A3:77; 4:51, 77; 5:41, –44; 6:35, 52–53; 7:51–52; 8:59–60; 9:43, 57–58; 10:44, 58, 71; 11:44–45; 204B8:17–21; 11:13–15; 205A4:136; 5:75, 80; 6:40, 42; 206A3:121–122, 126, 130–131, 156, 302, 312–313; 206B13:8–10; 207A1:73; 4:51–52, 63–65; 5:60, 62, 72–74; 6:56–59, 74–75; 7:55, 57, 67–68; 8:65; 207B14:6–8; 208A4:32–35, 44–48, 65; 5:28–29, 36, 38, 42; 6:40–41, 49–52, 56, 61; 7:32–33, 42–45; 8:33–34, 40–41, 44–45, 49; 209A3:144–145, 149; 5:159; 6:109; 7:74, 107; 9:96; 210A3:268, 271–273, 299–306; 4:29
- vs. dry bulk density, 146B(2)11:153
vs. electrical resistivity, 134B28:494–495
vs. forsterite, 176A11:24–25, 69
vs. gamma rays, 157A8:422; 9:466; 10:533; 178A6:53; 9:60
vs. gamma ray attenuation density, 168A4:95; 178B30:15
vs. glauconite, 150X_B6:67
vs. grain density, 137A2:34; 192B7:19
vs. grain size, 180A5:96–97
vs. hydrothermal alteration, 209A1:126
vs. hysteresis, 141B5:72
vs. iron oxide, 209A3:141
vs. lightness, 208A6:49
vs. lithology, 138A(2)15:814–815; 139A6:180; 150X_B6:67–68; 165A3:60–61; 178A5:45
vs. magnesium number, 176B11:65
vs. magnetic intensity, 155B12:237, 239, 242; 157A6:154; 202A3:34; 4:46
vs. natural gamma ray activity, 138A(2)13:727
vs. noncarbonated percent, 117B20:348, 351
vs. oxides, 209A10:66–67
vs. oxygen isotopes, 154B11:183
vs. planktonic foraminifers, 161B40:509; 198B9:13
vs. porosity, 133B41:619–621; 146B(2)11:153
vs. reflectance, 138A(1)4:72; 160A5:95; 194A6:63
vs. remanent magnetization, 153A3:114; 157A7:353
vs. sedimentation rates, 172A3:54
vs. seismic data, 204A4:78; 5:42
vs. stress, 141B3:46–48
vs. temperature, 139B4:730–733; 145B33:488; 147A3:96; 4:152; 154B10:173, 185; 158B25:347; 173B8:26; 175B8:12
vs. titanium oxide, 176B11:65
vs. total organic carbon, 146B(2)11:153
vs. turbidite layering, 149A4:75
vs. vein numbers, 176B11:57
vs. velocity, 157A9:466; 10:533
vs. velocity and density, 157A8:422–423
vs. water content, 146B(2)11:153; 209A3:141
wavenumber, 178B32:25–26
X-ray diffraction data, 117A9:220–221, 225–226
See also anisotropy; Koenigsberger ratio; low-resolution susceptibility logs; magnetic anisotropy; magnetic intensity/magnetic susceptibility ratio; magnetic susceptibility anisotropy; remanent magnetization
- magnetic susceptibility, anhysteretic
vs. depth, 161A6:213, 216, 161B40:512
vs. paleoclimatic curves, 161B40:512
- magnetic susceptibility, bulk
discrete samples, 199A9:7
lava, 163A4:35–36, 44
Paleocene/Eocene Thermal Maximum, 198B1:45
sediments, 159A5:93; 6:182; 7:238; 8:274
vs. depth, 141B3:36, 39–45; 147B23:397; 148A2:72; 3:166; 148B15:222, 224; 159A7:239; 161B9:111–112; 164A5:86
vs. median destructive field, 148B15:224
vs. temperature, 148B15:224

- magnetic susceptibility, corrected, vs. depth, 182A7:56–57; 209A7:102; 9:91; 10:128–129
- magnetic susceptibility, high-field, vs. low-field, 147B23:396
- magnetic susceptibility, high-temperature, 148B15:221–223
- magnetic susceptibility, loop, vs. depth, 206A3:130–131
- magnetic susceptibility, low-field
- anisotropy, 131B25:301–310; 29:365–378
 - basement, 197A3:32–33
 - breccia, 158B25:342–343
 - cores, 131A6:214
 - fabric, 131B7:83
 - heating and cooling curves, 147B23:397
 - matrix hysteresis, 161B9:112
 - measurements, 131A6:169
 - paleocurrents, 131B3:40
 - remanent magnetization, 173B8:7–8
 - sediments, 131B24:298; 169A3:136
 - vs. depth, 161A6:213; 9:405; 185B9:18; 188A3:113; 197A3:112; 4:85–86; 5:76; 6:79
 - vs. median destructive field, 197A3:114; 4:94
 - vs. natural remanent magnetization, 187B7:16; 197A3:113
- See also* magnetic susceptibility anisotropy
- magnetic susceptibility, low-frequency/high-frequency magnetic susceptibility ratio, 201B17:8–9
- magnetic susceptibility, mean
- vs. depth, 161A6:216
 - vs. density, 209A10:30–31, 134
- magnetic susceptibility, minicore, vs. sensor, 176B11:35
- magnetic susceptibility, multisensor track, spliced records, 202A3:5, 21; 5:26; 6:53–55; 7:37; 8:5, 78–81; 9:41
- magnetic susceptibility, normalized
- sediments, 146B(2)11:149–151
 - vs. temperature, 134B28:500; 139B30:523
- magnetic susceptibility, point, vs. depth, 206A3:130–131
- magnetic susceptibility, sensor, vs. minicore, 176B11:35
- magnetic susceptibility, single sample/magnetic susceptibility normalized to steady field
- Site 1225, 201B17:8
 - vs. depth, 201B17:9
- magnetic susceptibility, specific, magnetite, 133B11:131, 147–150, 159–160
- magnetic susceptibility, spliced data
- Eocene, 198A1:138
 - Eocene–Oligocene interval, 198A1:138
 - lower Eocene, 198A1:137
 - uppermost Cretaceous, 198A1:137
 - vs. depth, 169S_A2:38, 45; 198A1:138
- magnetic susceptibility, volume
- basalts, 129B24:448–449; 25:458; 135A(1)7:313
 - clasts, 195A3:40–43
 - igneous sequence, 130B4:51–52, 56, 58
 - logarithmic distribution, 176A3:219
 - pelagic muds, 195A4:37
 - sediments, 132B3:37–45; 135A(1)7:313; 9:425–428; 139A5:140–143; 195A5:11–12
 - sediments and basalts, 135B45:719–735
 - serpentine mud, 195A3:40–41
 - Site 809, 132A3:60–61, 64–65
 - Site 810, 132A4:91–92
 - Site 836, 135A(1)6:263, 265
 - Site 856, 139A6:239–240
 - Site 857, 139A7:349–353
 - Site 858, 139A7:513–515
 - temperature, 185B7:16
 - unconsolidated sediments, 133A(1)9:316
 - vs. age, 132B6:79
 - vs. anhysteretic remanent magnetization, 185B7:14
 - vs. depth, 129A4:205; 129B25:457; 132B3:39–40; 6:69–79; 7:101, 105–106; 133A(1)8:264; 10:369; 135A(1)5:217–218; 8:368; 9:430–431; 10:536–537; 11:626–627; 136A5:74–75; 139A5:120–121, 124, 152–153; 6:189–190, 193, 265–267; 7:378; 8:467, 470–471, 531–535; 139B30:527; 45:729; 143A6:135; 9:328; 149A4:74; 5:131; 6:182; 7:233; 159A5:93; 8:275; 159B40:541; 160B6:77–79; 173A7:183, 180A9:107; 10:53; 12:112, 185; 9:276; 173B8:17; 174A_A3:68–70; 4:122; 176A3:218; 185B7:13; 193A3:234; 4:206; 6:30; 195A4:136–144; 5:29–30; 195B3:21; 209A10:135–136
 - vs. saturation remanence, 139B31:537
 - vs. silica, 135A(1)8:353
- magnetic susceptibility, whole-core
- definition, 115B41:737
 - early diagenesis, 115B41:755–760, 765, 767
 - excursions, 133A(1)4:100
 - magnetizable material, 115A4:140
 - pipe-rust contamination, 115A4:139; 5:253–259; 7:475; 13:1012; 115B41:753, 755, 762–768
 - sediments, 164A5:83–85
 - sequence repetition, 115B41:751–753, 764
 - vs. depth, 179A1:22; 4:151–152
 - vs. paleoclimatic changes, 115B41:760–763
- magnetic susceptibility/anhysteretic remanent magnetization ratio, 161A7:322; 201B17:12–14
- magnetic susceptibility anisotropy (AMS)
- fabric, 146B(1)14:233–254
 - gabbroonites, 147B17:321–324
 - gabbros, 147A3:93–97; 4:146–149
 - igneous rocks, 147B23:398–399
 - lineation vs. foliation, 148A3:168
 - lithology, 110B17:259–275; 114B22:393, 397; 134B28:491–492, 497–500; 137/140B21:249–251; 141B3:32–33, 37–48; 146B(1)14:233–254
 - lower hemisphere equal-area projection, 148A2:73; 3:170
 - magnetic torque, 110B17:260
 - magnetism, 150B19:349–358
 - orientation in gabbros, 147B17:326–327
 - peridotites, 149B25:434, 436
 - sediments, 146A(1)6:261–263; 146B(1)32:451–453; 149B17:335–342; 161A4:80; 6:209, 216; 161B11:130–136; 164A5:86; 169A3:136
 - shape of ellipsoid in Flinn diagrams, 147A4:152; 147B23:400
 - Site 896, 148A3:160–161, 169
 - sulfides, 158A8:168
 - turbidity currents, 155B4:53–78

- vs. depth, 147A3:97; 4:152; 147B23:400; 149B25:444;
161A6:266; 161B11:131
- vs. remanence anisotropy, 147B23:401
- See also* anisotropy
- magnetic susceptibility events, sedimentology and physical properties, 204A5:43–44
- magnetic susceptibility/isothermal remanent magnetization ratio, 194A9:41
- magnetic susceptibility logs
- caliper logs, 134B33:584
 - clay beds, 188A5:33–34
 - gabbros, 176B11:10–11
 - lithology, 134B33:578–579
 - magnetic polarity, 178B31:7
 - processed logs, 188A4:97–98
 - sediments, 177A8:20–22
 - Site 883, 145A5:163, 169
 - Site 884, 145A6:264–265, 270–271
 - Sites 882 and 884 correlation, 145B34:503
 - Sites 883 and 884 correlation, 145B34:508
 - vs. depth, 145A5:190, 192; 6:285–288; 145B30:457, 459, 466; 155A7:162; 9:226, 229; 169A6:266; 171B_A4:166, 169; 5:236–238; 7:314, 317; 175A9:271; 16:494; 10:311; 12:383; 13:427; 176A1:68; 177A8:63, 65; 178A4:88–92, 97–99; 5:82, 84, 88–91; 9:66–67; 178B31:13–16; 32:19; 180A5:95; 181A3:66–69; 7:106, 109; 8:83–87; 182A4:75–76; 5:55; 184A1:75; 5:72; 7:67, 69; 9:80, 84–85; 186B8:11–13, 16, 19; 188A4:90, 97–98; 5:83; 189A3:109; 5:105, 113; 7:96
 - vs. lithology, 178A4:91
 - vs. velocity logs, 178B19:29
- See also* low-resolution susceptibility logs; magnetic logs
- magnetic susceptibility power, vs. frequency, 202A9:56
- magnetic susceptibility/saturation remanent magnetization ratio
- vs. Curie point, 141B4:53
 - vs. depth, 161A7:321
- magnetic domains, types 1–4, 166B4:40–42
- magnetic units
- Cretaceous, 143B27:408–417
 - horizontal and vertical component spatial differentials, 143B22:376
 - vs. depth, 144B37:633–637
 - well-logging, 143B22:375; 23:383–386
- magnetic zones. *See also* Jurassic Magnetic Quiet Zone
- magnetism, transform faults, 159A3:48–49; 4:61
- magnetite
- alteration, 111A3:67; 118B4:91; 137A2:28–29; 147A3:68–71; 4:132; 147B10:201–202; 13:237–238; 153B24:433–434; 187A1:11; 12:9; 192A4:19; 200B2:12; 206A3:66
 - amphibole/talc reaction zones, 118A6:127–128
 - amygdules, 193A3:29–30
 - Argo Abyssal Plain, 123A5:299; 123B10:207
 - background alteration, 148A2:48
 - backscattered electron images, 153B7:139–141
 - bacteria, 193A6:26
 - basaltic andesite, 127A5:217
 - basalts, 144A3:74; 144B29:497; 148B38:473–477; 185A3:14–15; 191A4:30–32; 195A4:21–22; 206A1:29
 - basement, 183A9:26
 - Bengal Fan, 116B26:326–327, 331; 27:341–344
 - Bonin-Mariana region, 125B7:118; 17:316
 - Cagayan Ridge, 124A12:313–314
 - Celebes Sea, 124A10:142
 - chemical composition, 149B10:461; 155B7:152; 193B3:24–26
 - clasts, 149A6:166; 173A9:284
 - climate optimum, 178B34:6
 - coercivity, 164A7:191–192; 8:261; 164B38:403–404
 - composition, 134B16:344–347
 - concentration fluctuations, 107A9:617
 - Cretaceous/Tertiary boundary, 121A14:519
 - Curie temperature, 188A3:41
 - deep-sea sediments, 185B7:5–6
 - deformation, 118A6:133–134; 118B8:155; 153B7:133; 176A3:22–23, 124
 - demagnetization, 152B21:263–264; 174A_A3:69, 71; 183A5:148; 204B18:5–6
 - deuteric oxidation, 137/140B29:332
 - diabases, 210A1:15; 3:243
 - diagenesis, 167A(1)5:103
 - dissolution, 107B8:118; 130A9:409–410; 146B(2)12:179; 167A(1)5:103; 177A6:11–12
 - domains, 183A4:24–26
 - electron microprobe data, 132B3:41–42; 148B8:105
 - exsolution, 137/140B23:267
 - flood basalts, 163B2:26
 - fractionation, 125B12:227
 - gabbros, 147B2:34–36; 153B17:338, 341; 205A4:27–28, 42
 - geochemistry, 131B16:202
 - gneisses, 161B19:267
 - grain size, 137/140B2:20–22; 140A2:59–61; 148A2:43–44, 114; 178B14:7; 206B5:22–23
 - groundmass, 163A5:57; 206A3:57–59
 - harzburgites, 147B5:93; 195A3:17
 - heat effect, 116B27:342
 - high-temperature minerals, 176A3:35
 - hydrothermal alteration, 111B14:162–164; 137/140B14:158; 179A4:43–44; 179B(synthesis):8; 193B1:15–16; 209A5:11–12; 6:11–14; 9:7–11
 - hydrothermal circulation, 169A1:11
 - hydrothermal veins, 153A3:79; 153B30:524
 - igneous rocks, 209A10:26–27
 - ilmenite intergrowths, 118A6:124–125
 - inclusions, 176B11:23; 193A4:36
 - intergranular material, 148A2:42
 - iron-nickel-sulfur-oxygen system, 209A3:97
 - isotopic profiles, 148B5:63–64
 - lava flows, 163A4:38; 197A3:20
 - lava ponds, 206B5:2–3
 - length, average maximum and equivalent diameter, 140A2:154–155
 - lithology, 118B17:312; 180B6:9; 209A10:7–10
 - lower sill complex, 210A3:69
 - magmatic veins, 206A3:63–64
 - magnetic carriers, 141B5:67–74

- magnetic domains, 154B11:183–184
 magnetic fabric, 153B23:422–423
 magnetic intensity, 208A5:13
 magnetic mineralogy, 147B21:379
 magnetic properties, 120B(1):15:238–239;
 133B40:582–583; 139B31:539–540; 46:730–733;
 145B33:489; 158B25:349–350; 173B8:8–9
 magnetic remanence, 101B23:334–335
 magnetic susceptibility, 152B23:273–278; 161B9:115;
 176A3:70–71
 magnetization, 194A5:15
 magnetostratigraphy, 173B11:19–23; 188B13:7
 major and trace elements, 148B38:475
 Marsili Basin, 107A6:152
 Mascarene Plateau, 115A5:264
 massive sulfides, 139B18:375; 169A3:66; 169B5:5–6
 median destructive field, 183A5:47–48
 Meteor Rise, 114B21:369
 microprobe data, 209B2:1–13
 mineral chemistry, 147B14:261; 153B31:539–540;
 161B19:271
 mineralization, 193B3:4
 modal composition, 176A3:18
 mylonites, 209A3:12
 natural remanent magnetization, 118B16:293
 Nazareth Bank, 115A4:140
 Northeast Georgia Rise, 114B19:339
 occurrence, 127/128B(2):52:853
 oxidative alteration, 118A6:127
 oxygen isotopes, 149B32:544–546, 552; 153B20:382–
 385; 26:466
 parallel to foliation, 118A3:54
 parental magma concentration, 118B4:93
 peridotites, 147B24:409–411
 petrography, 161B27:357–359; 193A3:55, 57
 photograph, 139B18:383; 148A2:41; 149A4:80;
 153A3:87, 89; 153B3:41; 23:427; 30:527, 529;
 169A3:73, 75; 193A3:128, 167; 4:94; 206A3:243
 photomicrograph, 161B19:278; 169A6:271;
 176A3:127; 176B11:66–67; 180A11:21; 12:91–
 92; 185A4:104; 187A12:40; 191A4:102–103;
 193A1:73; 3:156, 166, 169–170, 177–179, 183–
 190, 193–197; 4:83, 148, 155, 158, 165–167,
 184; 195A3:89; 195B8:12–13; 205A1:57; 4:89;
 209A6:68; 7:66; 10:83, 85, 92, 94
 platinum group elements, 147B4:83
 plutonic rocks, 147A3:61–62
 pressure-temperature conditions, 161B44:566–567
 protoliths, 180A11:4
 pseudosingle domains, 164A6:118
 recrystallized basalts, 206A3:60
 reduction, 101B23:337; 130A8:318; 164A6:119–120;
 7:192; 9:294
 remanent magnetization, 139B30:520–522;
 150B19:356; 154B10:173–174; 175B13:4–5;
 188A4:27–28; 194A4:76–78; 201B17:4;
 208B4:16
 rock magnetism, 164A6:120–122; 166B11:124;
 186A4:32–35; 192A4:20–21; 206A3:33–34;
 208A3:19
 Salaverry Basin, 112A12:266
 schists, 161B19:265
 secondary minerals, 148A2:45–53; 149A4:80
 sediments, 130B31:537; 146A(1):6:253; 156A6:136;
 159A5:94; 164A7:190; 170A5:167; 180B20:1–15;
 194A4:19
 Serocki Volcano, 106/109A4:59
 serpentinites, 125B33:561; 209A7:7–10
 serpentinization, 147B14:282–283; 153B3:42
 serpentinized peridotites, 125B33:563–566, 578–579;
 173A7:192–193
 Seychelles Dikes, 115B12:120
 shape, 113B1:13
 shear zones, 153B7:130–132
 silica metasomatism, 209A3:18–20
 silicification alteration, 193A3:41–47
 sill zoning, 210A3:67
 Site 698, 114A5:111
 Site 748, 120B9:118, 125
 Site 757, 121A11:323
 Site 778, 125B25:420
 sources, 161B40:513
 stability fields, 111B3:33
 stringers, 125A8:164–165
 tectonic breccia, 173A6:132
 thermal demagnetization, 195A4:122
 thermomagnetic curve, 106/109A5:152; 137/
 140B22:257–259
 thin sections, 176A3:23–28
 troctolites and gabbros, 147B14:267
 veins, 147A4:134–135; 169A3:75–76; 193A3:59–65;
 209A3:13–14; 5:80; 6:65, 71; 9:68
 Verwey transition, 178B14:2–4
 volume percentage in veins, 209A3:92
 vs. depth, 111A3:66; 140A2:61–62; 154B10:178;
 169B5:15; 179B3:25–26; 193A3:171; 4:117;
 209A5:60
 vs. gabbro magnetic susceptibility, 176B11:20–29
 vs. length of plagioclase, 140A2:61
 vs. pyrite, 139A6:254
 vs. saturation remanence, 154B10:178
 X-ray diffraction data, 209A3:73; 5:78; 6:63–64; 7:60,
 63; 9:60, 65
 zoning, 139B17:355–358
See also biomagnetite; ilmenite; ilmenite/magnetite
 ratio; ilmenite-hematite-magnetite solid solu-
 tion; sphalerite-pyrrhotite-pyrite-magnetite sys-
 tem; titanomagnetite; ulvospinel-magnetite
 solid solution
 magnetite, authigenic, magnetism, 150B19:356–357
 magnetite, average, vs. depth, 148A2:44
 magnetite, bacterial, environmental magnetism,
 155B14:252; 41:672
 magnetite, biogenic
 properties, 133B38:559
 remanent magnetization, 182A1:26–27
 See also biomagnetite
 magnetite, dendritic
 diabases, 180A12:26
 petrology, 180A11:5
 photomicrograph, 180A11:19; 12:93
 magnetite, disseminated, photograph, 193A3:157

- magnetite, equigranular, photomicrograph, 206A3:189
- magnetite, euhedral, photomicrograph, 209A7:64
- magnetite, heterogenous, sulfides, 169A3:68–69
- magnetite, lattice-textured, photomicrograph, 193A3:180
- magnetite, microlitic, photomicrograph, 193A1:81
- magnetite, modal, vs. depth, 209A10:68–71
- magnetite, pore, alteration minerals, 135A(1)8:370
- magnetite, skeletal, photomicrograph, 163A4:40; 185A3:91
- magnetite, stoichiometric, mid-ocean-ridge basalt, 187B7:4–9
- magnetite, titanian
- alteration, 135A(1)11:644
 - andesites, 135A(1)4:142–143
 - basalts, 131B16:200
 - chemical composition, 135B29:522; 30:535–536, 539, 542
 - electron microprobe data, 135B25:470
 - grain size and texture and magnetic properties, 115B10:105–107
 - groundmass, 135A(1)4:147
 - oxidation, 115B10:105
 - petrography, 135A(1)5:220, 222; 10:521; 11:639
 - phase equilibria, 153B31:540
 - photograph, 153B30:528
 - rock magnetism, 135B45:719
 - See also* ilmenite; titanomagnetite
- magnetite grains, volcanoclastic sand, 180B7:6
- magnetite groundmass, grain size vs. depth, 206A3:190
- magnetite inclusions. *See* inclusions, magnetite
- magnetite microphenocrysts. *See* microphenocrysts, magnetite
- magnetite phenocrysts. *See* phenocrysts, magnetite
- magnetization
- acoustic basement, 149B43:674
 - age, 210B15:9–10
 - foliation, 173A8:250–251
 - metasediments, 173A8:252
 - ocean–continent transition, 149B47:727–728
 - vs. depth, 178B31:20; 186A4:103
 - See also* Vine-Matthews-Morley type initial magnetization; virtual axial dipole moment
- magnetization, coring-induced
- advanced piston corer, 157B5:47–56
 - magnetic overprinting, 175A5:127; 6:160; 11:322; 13:406; 14:442; 15:468, 470
- magnetization, induced
- basalts, 140A2:103–104; 148A3:159–160
 - diabases, 148A2:69–70
 - sediments, 143B22:373–379
 - Site 865, 143B24:392–393
 - vs. natural remanent magnetization, 192B5:14
 - well-logging, 143B23:383–386
- magnetization, normalized, sediments, 184A5:12–13
- magnetization, radial, cores, 157B5:50
- magnetization, thermoremanent
- lithology, 106/109B27:297
 - magnetic polarity, 129B26:476
 - See also* remanent magnetization
- magnetization ratio
- magnetic domains, 205A4:140–141
 - vs. depth, 186A4:102
 - magnetized formations, inclinometry, 197B5:1–22
 - magnetobiochronology
 - Southern Ocean, 178B36:1–40
 - See also* magnetobiostratigraphy - magnetobiostratigraphy
 - age, 180B4:1–13; 181A7:159; 8:121
 - age models, 181A6:66–67; 7:34–36
 - analytical methods, 121B17:377–379
 - biochronologic correlation, 113B40:724–730; 52:915–936; 115A1:14; 4:148
 - biostratigraphic correlation, 107B38:671–674; 119B43:752–754; 44:781–782; 120B(2)57:1035; 121A6:132–133; 8:206, 210, 212; 121B36:730; 123B28:525; 33:624; 125A2:26–28; 125B3:60; 37:618–621; 126A8:256–257; 126B16:257
 - biostratigraphic datums, 108A2:48; 6:423; 7:496; 8:565; 112A13:314; 117A8:165; 9:213; 10:270; 117B5:135–141, 144; 7:163, 167–168, 172, 175, 178; 127/128B(1)10:163; (2)65:1222; 129B13:248–249; 130B47:773; 167A(1)7:165; 8:200; 15:449
 - Broken Ridge, 121B36:729
 - Campanian/Maastrichtian boundary, 121B16:367
 - chron boundaries, 121B16:363–367; 36:727–735; 180A9:37–38
 - chrons, 121B11:245; 36:732; 39:797–799; 167A(1)4:64, 71–72; 5:102–103
 - composite record, 181A7:73–78
 - correlation, 181A5:44
 - Cretaceous/Tertiary boundary, 119B46:825; 165B8:145
 - dipping and truncated sequence, 121A13:488–491; 121B16:359
 - Eocene/Paleocene boundary, 121B16:363
 - geomagnetic reversal timescale, 121B16:363
 - interhole correlation, 121A12:397
 - lithobiostratigraphic correlation, 117B7:164–169, 173–179
 - lithology, 181A1:22, 30; 5:17–18
 - low-stability overprints, 121B16:363
 - magnetic anomalies, 121B38:767
 - magnetic declination drift, 121A12:413
 - magnetic excursions, 180A9:38
 - magnetic polarity, 121A6:133; 13:489, 491; 121B39:794, 797, 801; 165A4:160–161; 180A6:51–52; 7:21; 9:37–38; 12:35; 181A7:28–32
 - magnetic reversals, 121A6:112; 121B15:302; 16:365; 39:855; 167A(1)4:73; 182A4:26
 - marker horizons, 117A10:297, 307; 11:365–366, 372; 12:406–408, 414; 15:481, 491; 16:531–532, 536; 18:581, 583
 - Neogene, 167B28:311–318
 - pelagic cap, 121A13:488
 - planktonic foraminifers, 120B(1)35:638
 - Prydz Bay, 119B46:836–838, 843, 846
 - Quaternary, 182A1:57
 - sedimentation rates, 180A1:4

- sediments, 180A5:29–30; 181A6:22–23; 8:24–27;
182A1:13–14
- seismic correlation, 121B16:385, 367
- Site 736, 119B46:825, 828, 838
- Site 737, 119B46:828–836, 843
- Site 738, 119B46:822, 834
- Site 744, 119B46:820–822
- Site 745, 119B46:817–820
- Site 746, 119B46:818–819, 822–823
- Site 747, 120A6:114; 120B(2)31:552; 35:633; 57:1037–
1038
- Site 748, 120B(2)31:556; 35:636; 57:1038
- Site 749, 120B(2)31:558
- Site 751, 120B(2)35:637; 57:1038
- Site 752, 121A6:131–136; 121B16:363–365; 36:725–
731
- Site 753, 121A7:171, 179–180; 121B16:367–368;
17:385; 36:732
- Site 754, 121A8:206, 210, 212; 121B16:369; 36:733–
735
- Site 755, 121A9:247, 121B16:367, 370; 36:735–736
- Site 756, 121A10:282
- Site 757, 121A11:332
- Site 758, 121A12:395, 407–409, 413; 121B39:779
- summary, 165A3:68–69; 182A1:23, 31, 37–40, 51–52;
5:17; 6:24; 7:18–19; 8:20–21; 9:15–16; 10:22;
11:11; 12:18
- vs. age, 165B17:256
- vs. depth, 180A5:80–82; 6:154–158; 9:112–113;
181A8:62–65; 182A6:59–60; 7:42; 8:46; 9:34
- See also* biostratigraphy; Cretaceous/Tertiary bound-
ary; magnetostratigraphy
- magnetochrons
- correlation, 152A7:82
- hyperthermals, 208B1:21
- volcanic history, 163B6:57
- vs. depth, 152A6:66; 8:99
- magnetometer logs
- Atlantis Bank, 118A6:210
- azimuthal reference readings, 118A6:192
- basalts, 143B23:381–393; 144A9:322–323
- conductivity signal, 118A6:192
- equipment, 118A6:191–193, 197
- gravitational orientation of elements, 118A6:191, 201
- magnetic susceptibility, 118A6:192, 197–198, 201;
28:554
- magnetostratigraphy, 145B30:466–467
- parameters, 118A6:192–193, 197, 202
- sediments, 143B22:373–379
- Site 878, 144A10:393
- Site 879, 144A11:435
- U.S. Geological Survey (USGS) magnetic-susceptibility
probe, 118A6:191–192, 200
- variability of magnetic north, 118A6:198
- vs. depth, 140A2:143; 144A5:190–191
- See also* magnetic logs
- magnetometer logs, three-component downhole
probes, 118A6:191, 200
- Site 865, 143A6:152–153
- Site 866, 143A7:239
- Site 869, 143A9:337, 340
- magnetometer logs, vertical, vs. depth, 144B39:657
- magnetometer tool rotation, vs. depth, 197A1:82
- magnetometers
- noise, 189A(appendix):10
- pass-through cryogenic data, 162A3:70; 4:112; 5:156;
6:189; 7:241; 8:269; 9:308; 10:363
- See also* Goettingen Borehole Magnetometer; towed
ocean-bottom instrument
- magnetometers, cryogenic, data, 207A4:91; 5:98; 7:91
- magnetometers, deep-tow, rifted margins, 149B43:665–
674
- magnetometers, Japanese downhole three-component
- Site 865, 143B23:383–393
- well-logging, 143B22:373–374
- magnetometers, three-dimensional
- data, 102A3:97, 124–127; 102B7:78–82, 89, 90, 94
- operation, 102A3:103, 106
- magnetosomes
- authigenesis, 201B1:26
- preservation, 201B17:1–17
- sources, 161B40:513
- vs. depth, 201B17:13–14
- magnetostratigraphic datums
- correlation, 182A6:97
- depth, 170A3:73; 4:130; 5:174; 7:236
- Mediterranean Sea E, 160B5:64
- sedimentation rates, 207A8:90
- magnetostratigraphy
- advanced piston cores, 105B45:844
- age models, 107B22:349, 353; 113B8:114;
117B20:346; 22:399; 145B21:315; 189B9:6;
198B22:28
- age vs. depth, 101B16:226; 113A5:122–127; 6:225–
227; 113B8:115; 114B5:105–107; 130A9:410;
189A5:38; 6:43; 7:38–39, 77; 194A3:13;
201B16:17; 202A7:57; 8:71; 9:75; 10:68; 11:57;
12:73; 13:53
- age-depth tie points, 208A3:84; 4:80; 5:65; 6:98; 7:73;
8:71; 208B4:17–22
- Albian, 207A7:52–53
- alteration, 169A3:137–139
- alternating-field demagnetization, 105B31:584–585,
588–589, 592, 594
- alternative event stratigraphy, 107B1:23
- analytical methods, 123B28:525–527
- anhysteretic remanence/magnetic susceptibility ratio,
105B35:614; 37:676–682; 45:837–841, 845
- Aptian–Eocene interval, 171B_B9:1–58
- Aptian polarity chronozones, 123B28:534–538
- Argo Abyssal Plain, 123A2:42–43; 123B28:525–526,
529, 542–548
- Atlantic Ocean E tropical, 108A2:43–44, 46; 3:119–
121; 4:232–238; 5:340–342; 6:419–420; 7:496;
9:628–632; 108B8:122–123; 25:415–418;
26:431–438; 27:445–446; 28:456
- back-isothermal remanence (BIRM), 105B45:843–844
- Baffin Bay, 105A4:102, 110–111; 105B45:843–844,
847, 850–859
- Barremian–Aptian interval, 123B38:735
- basalt basement, 123A4:201–202; 195A4:32–33
- basalt crystallization ages, 115B4:50

- basalts, 192A5:20; 6:22
basement polarity, 127/128B(2)59:936–938; 62:976;
128A3:86
Bengal Fan, 116A4:63
bioevents, 189B10:3
biostratigraphy, 149A4:70–73; 5:129, 131; 6:181;
7:231; 206A3:35; 151B35:641–642; 178B37:9;
195A4:31–32; 207A4:99; 5:104; 6:97; 7:99
Bonin arc-trench system, 126B16:238
Bonin-Mariana region, 125A2:29–30
Brunhes Chron, 107B21:337; 22:353
Brunhes/Matuyama, 108A4:233; 126A7:172, 174,
177; 8:257–261; 9:352, 354; 186A5:23
Campanian–Eocene interval, 207B3:1–48
Campanian–Maastrichtian interval, 207A5:21; 6:25
Campanian–middle Eocene interval, 207A7:52–53;
8:52–53
canted-antiferromagnetic minerals, 105B45:846
carbonate concentration, 105B45:848
carbonate platforms, 166A3:31–33
Cenozoic, 123B38:725, 727; 130B32:547–559;
132B2:29; 133B38:547–549; 136A5:69;
138B38:781–783; 145B14:226; 34:491–521;
149B16:315–334; 150A6:86–89; 151A13:416–
417; 157A9:454; 10:520; 157B9:97–114;
173B11:1–73; 178A1:9, 53; 202A1:14–16, 115;
208A7:20; 208B1:6
chron boundaries, 108B26:432; 114B30:580–583;
117A16:510; 177A4:86
chronozone biostratigraphic correlation, 115A9:670
chronozones, 103B37:659–665, 673–674; 123A4:132–
133, 136; 123B28:537–539; 38:723, 725, 730,
733, 735; 125B32:549; 126A8:257; 9:352;
126B16:249; 127A4:108; 138A(2)13:695;
149B45:693; 190A1:28; 201B16:4–5
chrons, 185A1:52; 189A3:36, 151; 191A1:16–17; 4:25;
208A3:18–19
claystone, 173A6:121, 124
compaction-related errors, 121B16:371–374
composite record, 195A4:204
core orientation, 127A4:103; 5:199; 128A4:167
cores, 151A6:129
Cornaglia Terrace, 107A2:18–19; 9:601; 11:879
correlation, 135A(1)1:29; 152B16:223–224;
171B_B9:28; 172A7:313; 177A4:43; 6:38; 7:30;
8:45; 9:37; 189B10:5–6; 190A1:77; 194A4:18–19
Cretaceous, 101B23:330, 331; 123A5:299–301;
123B28:529–530, 534–539; 38:719, 727–735;
136B3:45–63; 143A7:215; 143B26:399–403;
27:408–409, 413–414
Cretaceous–Eocene interval, 207A6:54–55
Cretaceous–Oligocene interval, 173A9:277
Cretaceous–Paleogene interval, 123A4:133–139;
144B49:873–885
Cretaceous/Tertiary boundary, 119A7:253;
119B43:757–760, 764–765; 120B(2)25:453;
54:962–963; 123A4:133, 136–139; 130B45:745–
746
cross section, 168A6:179
cyclicality, 115A9:671, 674; 117A10:305
data quality, 101B23:329; 104B40:851–901; 127/
128B(2)62:969, 975
demagnetization, 104B40:835–837; 108B26:430
depth to polarity boundaries, 108A10:749, 752; 127/
128B(2)62:973
diamicts, 178A6:12–13
diatoms, 127/128B(1)21:361–362; 185B2:4; 186A4:35
direction changes, 119B44:775
discrete samples vs. continuous measurements,
108A4:232
discrete-specimen fluxgate magnetometer data,
125B32:556–560
drift deposits, 178B37:1–61
drilling disturbance, 127A4:103
drying effects, 114B19:343
ebridians, 127/128B(1)14:240
Eocene, 114B19:350, 353; 150B25:429–430;
207A4:50; 6:24
Eocene–Cretaceous interval, 207A5:58–59
Eocene–Miocene interval, 150X_B22:295–304
Eocene/Oligocene boundary, 105B31:589;
120B(2)55:982; 189A7:38–39
Eocene–Paleocene interval, 171B_A6:281
Eocene–Quaternary interval, 174A_A5:169–170
flux jumps, 119A7:253
Galicia margin W, 103A9:248–249, 10:431, 432;
11:540; 12:586–587
general section, 172B(overview):12
geomagnetic correlation, 108A3:122; 114B19:352,
354; 119B44:782
geomagnetic polarity timescale, 104B40:832;
113A6:225, 228–229, 232–234; 8:372, 376, 378;
9:481, 484; 10:558–559; 11:646–649; 12:730,
735; 113B21:262, 290–292; 125B32:550–552
geomagnetic reference timescale, 127A1:22–23;
4:103–105, 108, 110; 5:199–203, 208; 6:275,
280; 7:359, 364; 5:317; 127/128B(2)62:970, 972;
128A4:170, 174–176
Gilbert Chron, 107A8:455; 107B38:645
glacial–interglacial cycles, 113B9:127; 117B18:312,
314; 19:338
Gortani Ridge, 107A11:900
hard isothermal remanent magnetization HIRM equa-
tion, 105B45:844
hiatuses, 113A9:123, 128; 119B46:821
igneous rocks, 127A4:104; 5:203
Indus Fan, 117B5:127
integration, 199B2:6–7
interhole correlation, 117A12:396–397
interpretation, 175A10:294; 12:366; 13:408; 14:443;
15:472
Izu-Bonin forearc, 125B32:548–552; 37:617
Jane Basin, 113A12:726–727, 740
Japan Sea, 127A1:22; 127/128B(2)62:969–982;
128A1:30–31
Jaramillo polarity transition, 121B17:379
Jurassic, 144B38:641–647
Jurassic–Eocene interval, 173A8:244
Kerguelen sediment ridge, 119B43:760
Kolmogorov-Smirnov test, 114B29:569–572

- Labrador Sea, 105A5:444–445, 459–460, 466;
105B31:587–589
- Lima Basin C, 112A11:184–190
- lithology, 115A4:139–142, 146–147; 6:413–414;
7:477–478; 8:603, 606; 9:671, 675–677;
115B41:745, 750, 757–759, 763–764;
116A6:171; 117A2:23, 25; 19:604; 118B17:310–
313; 121A6:130; 12:395, 397; 13:475;
121B39:882; 127A6:275; 127/128B(2)77:1219–
1228; 143A9:326–329; 185A4:35–37, 129–130;
210A3:93–94
- lower Cenozoic, 208A1:30–31
- Lower Cretaceous, 123B28:529–530; 143B25:395–398
- lower–middle Eocene, 207A5:20
- lower–middle Pleistocene, 175A8:210–211
- lower Miocene, 173A4:81
- low-field magnetic susceptibility, 105B45:843
- Maastrichtian–Pliocene interval, 207A8:21
- magnetic anomalies, 107B38:722; 119B44:782
- magnetic excursions, 172A6:263, 266; 7:316–317
- magnetic inclination, 105B31:584–592, 595; 45:849;
178A4:18–20; 208A6:64–66; 208B4:3–4
- magnetic polarity, 103B37:669–674; 117A10:268,
275; 119B46:819–820; 121A12:339; 127/
128B(2)59:943; 131A6:152; 135A(1)4:117–119;
7:314–315; 8:363, 365; 162B20:265–269;
172A4:99–100; 6:263; 173A7:182–183;
178A4:18–20, 92; 5:86; 178B31:1–23; 188A3:41–
43; 4:28–29; 5:21–22; 192A3:33–34; 195A4:30–
32; 199A8:11–12; 9:7–8; 10:13; 11:21; 12:22;
13:18; 14:15; 199B2:15–25
- magnetic properties, 103B37:667–669
- magnetic reversal boundaries, 104B40:848;
105B31:592, 598; 114B19:349–350; 115A8:602–
603; 9:670, 678; 115B7:178; 117A9:218, 220
- magnetic reversals, 105B31:589, 591; 117B5:131–132;
119A11:415; 13:489–490; 119B43:758, 760;
44:772, 781; 126B16:253; 166A8:186;
172A4:100, 102; 199A11:24
- magnetic susceptibility, 105B34:656, 660; 45:845
- magnetobiochronology, 178B36:4–5
- magnetostratigraphy, 113B21:268–280
- magnetozone boundaries, 107A6:142, 153; 7:311;
8:428; 10:770; 115B40:726; 117A15:478;
16:509; 130B32:549–550; 138A(2)15:826;
151A10:331–332
- MARK (Kane Fracture Zone) area, 106/109A2:18–22
- Marsili Basin, 107A11:879; 107B21:336–337
- Mascarene Plateau, 115B40:717–721
- mass accumulation rates, 141A6:93
- maximum angular deviation, 107B21:345
- Mesozoic, 123A3:46
- Messinian facies, 107B14:212
- microfossil zone correlations, 105A50:950–951;
105B31:589; 50:942–943, 946–947
- Mid-Atlantic Ridge, 106/109B19:231–235
- middle–upper Eocene, 171B_A7:356
- Milankovitch response, 115B41:761
- Miocene, 138B5:59–72; 21:479–502; 157A6:152–153
- Miocene and Pleistocene, 150B8:129–143
- Miocene–Holocene interval, 105B31:584–587;
117B7:162; 175A9:252–254; 10:292
- Miocene–Pleistocene, 117A18:568; 117B7:163, 165,
175; 175A14:442
- Miocene/Pliocene boundary, 105B31:587;
107A10:769; 115B40:729; 125A12:291, 300;
14:331; 15:375; 208A6:21
- Miocene–Pliocene interval, 117B7:165
- Miocene–Quaternary interval, 174A_A3:65, 68; 4:120
- models, 186A4:123
- multishot core orientation, 108B26:434
- Nankai accretionary prism, 131A7:276
- natural remanent magnetization, 113A8:384;
113B20:256–259; 21:264–267, 281–289, 295–
315
- Nazareth Bank, 115A4:128
- Neogene, 117B5:131–132; 119B43:760; 46:839, 842;
123A4:132–133; 123B38:719; 132B3:42–43;
4:47–55; 133A(1)5:153; 135B54:857–877;
138A(1)10:216; 145B1:5–13; 4:64–66;
162B9:131–151; 164A6:117–119; 170B2:9;
177B(synthesis):, 3–4
- nomenclature, 105B31:584
- normal polarity subchrons, 115B40:726
- Norwegian Sea, 104A4:166; 104B40:829–835, 838–
848; 41:903–910
- offset in subbottom depth, 105B31:585–586
- Olduvai–Jaramillo transition, 121B17:388
- Olduvai Subchron, 115A8:603
- Oligocene, 101B23:330–334; 114B19:349–350, 355;
207A6:23
- Oligocene/Miocene boundary, 115B40:725–726;
207A6:23
- Oligocene–Pleistocene interval, 115B41:748–749;
175A14:470–471
- Oligocene–Pliocene interval, 121B39:795
- Oman margin, 117B5:127, 131
- overprinting, 178A9:14
- Owen Ridge, 117B5:127
- oxygen isotope stratigraphy, 121B14:285
- Pacific Ocean W, 124B2:11, 14–17
- paleoceanography, 155A2:18
- Paleocene, 207A5:20–21; 6:24–25
- Paleocene and Upper Cretaceous, 208B1:36
- Paleocene/Eocene boundary, 174AXS_A(sum-
mary):34; 208A6:66
- Paleogene, 123B38:719; 152B20:253–257; 199B1:6
- paleolatitude, 121A12:395–396
- paleomagnetism, 119B45:797–798; 192A5:21, 119
- photographic orientation, 108A10:752
- Pleistocene, 135B46:737–762; 145B7:134–139;
175A4:98–99; 5:127; 6:160; 7:186–187
- Pleistocene magnetozones, 133A(1)12:466–472
- Pliocene, 101B16:224; 107B1:14
- Pliocene–Holocene interval, 130A7:248–249;
175A11:322–323; 12:364; 13:406
- Pliocene/Pleistocene boundary, 105B31:587, 589;
115B40:729; 41:758
- Pliocene–Pleistocene interval, 101B23:332–335;
114B19:347–352; 115B40:725; 117B7:172;
127A7:357; 127/128B(2)62:973, 975;

- 130A5:129–131; 6:193–194; 131A6:123–124;
149B5:158–160; 152B22:265–269; 160B5:61–73;
162B8:113–130; 175A3:70; 188B13:7–8, 24
Pliocene–Quaternary interval, 160B13:170, 172, 177–
178; 164B39:411–418
postsplitting sequences, 108A6:419
preglacial sequences, 105B45:847
primary magnetization, 107B8:114–122
principal results, 188A1:18
problems, 127/128B(2)77:1219
Prydz Bay, 119B1:16
Quaternary, 117B5:131; 22:396–398; 133B49:723–
747; 164A5:82–83
radiolarians, 120B(2)40:773–774; 199B3:1–76
Raggatt Basin, 120B(1)16:248
remagnetization, 115A2:32; 115B40:718–719;
126A8:256, 261
remanent magnetization, 189A7:37–39
Rodrigues Ridge anomalies, 115A1:7
rounded end-members, 113B7:101
Sardinian margin, 107A2:17–19; 11:879; 107B21:337–
339
saturation isothermal remanence (SIRM), 105B45:843
secondary component, 108A12:843
sedimentary series, 104B40:844
sedimentation rates, 104B40:849; 127/128B(2)62:976;
177A7:13–14; 178B37:16; 195A4:32; 199A10:15
sediments, 133B40:573–614; 139A6:187–188;
156A6:131–134; 7:220, 236; 157A5:121–122;
159A5:94; 8:276; 161A4:77; 5:140; 8:372–373;
163A3:26; 164A7:189–190; 8:258; 9:292;
166A6:89–90; 10:310–311; 170A3:70; 4:126–
127; 5:167; 171B_A3:70–71; 4:132–134;
178A5:16; 9:14–15; 178B(synthesis):11–12;
37:42–48; 189A4:18, 57; 5:147; 6:43, 156; 7:131;
190A4:15, 62, 130; 5:19, 67; 6:12–13; 7:11, 36;
8:13–14; 9:14–15, 97; 192A5:19–20; 6:20–22;
194A6:11–12; 7:22–24; 8:15; 9:13; 195A5:10–11;
198B21:4–6; 202A7:16; 207A4:17–19;
208A4:16–17; 5:13, 44–47; 6:21–22; 7:52–56;
8:20–21; 208B4:1–24
seismic reflectors, 150B6:108–110
shore-based vs. shipboard measurements, 119B44:772
Sierra Leone Rise, 108A10:747–752; 11:797–801;
12:843–845; 13:935–936; 108B8:125–126;
25:415, 418; 26:433–434, 438–439
silicoflagellates and ebridians, 127/128B(1)14:240;
128A4:162
Site 694, 113A9:477
Site 695, 113A10:555
Site 699, 114A6:178–181; 114B33:613
Site 700, 114A7:280, 282
Site 701, 114A8:393–396
Site 702, 114A9:484, 502–503
Site 703, 114A10:570–571; 114B21:380–382, 385;
25:467
Site 704, 114A11:652, 656, 660; 114B21:382; 26:476–
478
Site 709, 115B40:725–726
Site 710, 115A8:589; 115B40:726–728
Site 711, 115B40:719, 729–732
Site 720, 117A8:166
Site 722, 117A10:268–269
Site 724, 117B7:167
Site 725, 117A13:427–428; 117B7:168–172
Site 726, 117A14:453–455
Site 727, 117A15:473; 117B7:172–173
Site 728, 117A16:507; 117B7:173–175
Site 731, 117A19:603–604
Site 737, 119A6:183, 190, 218; 119B43:757; 46:828
Site 738, 119B46:822–832, 835; 47:851–852
Site 742, 119A11:451; 119B43:759–760; 46:843–846;
48:881–882
Site 744, 119B46:824, 829–830
Site 745, 119B43:752, 756; 46:818
Site 746, 119A15:550–551; 119B43:755; 46:818–821
Site 747, 120B(1)15:226
Site 748, 120B(1)16:249
Site 749, 120B(1)15:231
Site 750, 120B(1)16:249
Site 751, 120B(1)15:231
Site 757, 121A11:332
Site 765, 123A1:7; 4:136–138; 123B4:96
Site 778, 125A6:108
Site 779, 125A7:130, 140
Site 781, 125A9:187
Site 782, 125A10:212–213, 218–219; 125B32:548–549,
553–558; 37:618
Site 783, 125A11:265–266; 125B32:549, 551, 554, 558
Site 784, 125A15:290–292; 125B32:551–554, 558–559;
37:620
Site 786, 125A18:337; 125B32:552–555, 559–560;
37:621
Site 787, 126A5:84; 8:257, 262
Site 788, 126A6:118–119
Site 790, 126A7:169–170
Site 791, 126A7:170–174
Site 792, 126A8:254–257
Site 793, 126A9:352
Site 794, 127A4:72, 103–105; 127/128B(2)62:969–
972; 77:1221–1223; 128A3:69, 100–105
Site 795, 127A5:174, 199; 127/128B(2)62:970–972;
77:1223
Site 796, 127A6:251, 275; 127/128B(2)77:1223
Site 797, 127A7:324, 357; 127/128B(2)60:949, 951;
62:972–973; 77:1223
Site 798, 127/128B(1)23:399; 24:417; 62:972–974;
77:1223–1224; 128A1:30–31; 4:124–125, 166
Site 799, 127/128B(2)62:972–975; 77:1224;
128A1:30–31; 5:244, 312
Site 800, 129A2:54
Site 801, 129A3:120
Site 802, 129A4:202
Site 835, 135A(1)5:211
Site 836, 135A(1)6:263–264
Site 837, 135A(1)7:309–311
Site 838, 135A(1)8:366
Site 839, 135A(1)9:423–425
Site 840, 135A(1)10:531–533
Site 841, 135A(1)11:615–619
Site 842, 136A4:43–44
Site 844, 138A(1)9:144–145, 154

- Site 848, 138A(2)13:706
 Site 851, 138A(2)16:912–916, 924–927
 Site 881, 145A3:51
 Site 882, 145A4:95
 Site 884, 145A6:234
 Site 887, 145A8:350
 Site 903, 150A7:157–159
 Site 905, 150A9:280
 Site 906, 150A10:325–326
 Site 909, 151A7:180–181
 Site 911, 151A9:284–285
 Sites 808–1174, 190A5:20
 Sites 885–886, 145A7:310–311
 Sites 1023–1025, 168A4:78–79
 Sites 1173–1174, 190A5:19–20
 Sites 1218–1219 correlation, 199B2:26, 36–38
 stability, 108A5:340
 stable isotope stratigraphy, 120B(2)45:859
 stratigraphy, 115A9:671; 145B2:28
 structural dips, 103B37:669
 Subchron 3r, 107B1:23
 subchron boundaries, 119B46:833, 841
 summary, 189A1:37–38, 95–97; 199A1:73; 206A1:24, 113; 3:355
 tectonics, 198A1:7–8
 tephrostratigraphic correlation, 115B41:745–749, 754–755, 768
 terrigenous sediments, 105B31:584
 Tertiary anomalies, 119A7:279
 thermal demagnetization, 127/128B(2)60:947
 Thvera Subchron, 107A8:428; 107B1:24
 timescales, 138B6:74, 84–85
 time series analysis, 117B22:392, 394
 Tortonian/Messinian boundary, 107B21:339–340
 Tortonian sediment, 107B8:119
 Tyrrhenian Sea, 107A11:879; 107B21:337
 upper Miocene–Holocene interval, 198B22:1–39
 upper Miocene–lower Oligocene, 207A4:17–18
 upper Oligocene, 202B3:1–15
 variations, 108A4:236
 volcanoclastics, 200A3:38–39
 vs. age, 199A1:76
 vs. biostratigraphy, 150B2:32; 151A10:331–332; 11:366
 vs. depth, 105B45:846–849; 133A(1)12:466, 468; 135A(1)11:617; 138A(2)15:842; 16:927; 17:993; 18:1041; 19:1080; 141A6:98; 145A7:316; 152A11:224; 12:267; 162B8:266–267; 171B_A3:72–74; 4:135–137; 5:200–203; 6:276–280; 7:331–333; 173B11:35, 39, 43, 46, 50, 54; 177A5:44–45; 178A4:67–70; 5:62–65, 86; 6:44; 7:48; 178B37:28–31, 37, 40; 188A1:50–51, 58; 3:118–123; 4:66; 5:64; 189A7:71–74; 190A4:62; 5:67; 6:42; 7:36; 8:42; 9:49; 192A6:82; 194A3:35–40; 195A1:57; 4:125–128; 198B22:13–19; 199A8:30; 9:22; 10:32; 11:53–55; 12:58–60; 13:43–44; 14:33; 15:24; 200A3:112, 117, 154; 206A1:60–63; 3:142–145; 207A4:50; 7:52–53; 208A1:85; 3:51–55; 4:54–57; 8:51–55
 vs. event stratigraphy, 107B8:220–221
 vs. geomagnetic polarity timescale, 151A5:77; 194A6:46; 8:49
 vs. gamma ray attenuation density, 138A(1)6:87–90
 vs. lithology, 107B21:336, 338, 341–344; 22:336, 357; 108A9:632; 114B19:339–340; 134B27:484–485
 vs. volcanic ash content, 121A6:130
 well-logging, 178B31:1–23; 37:9–12, 15, 35
 whole-core cryogenic magnetometer polarity, 125B32:553–555
 zonation, 149A5:128; 171B_A6:275–282
 See also biomagnetostratigraphic datums; biomagnetostratigraphy; chrons; geomagnetic polarity timescale; magnetobiostratigraphy; magnetozones; paleomagnetism; pre-Gilbert Chron
 magnetostratigraphy, in situ
 Cenozoic, 134B26:457–474
 New Hebrides island arc, 134B35:616
 Site 828, 134A8:159–161
 Site 832, 134A12:422–423, 442
 Site 833, 134A13:511, 514
 tectonics, 134B25:447–456
 Vanuatu, 134B33:577–585
 magnetozones
 boundaries, 151A7:180; 9:285; 10:332
 Cenozoic, 151A13:416–417
 identification, 151A5:76
 vs. depth, 150A7:162
 major elements
 alteration, 127/128B(2)48:799; 57:901; 58:909, 911; 139A7:503–507; 148B10:126–134; 13:192–196; 183B15:19–20; 187B1:7–8, 28; 5:8–11; 193B1:63; 6:16; 197A4:22–23; 209A1:90–91; 3:36–37
 aluminum-normalized concentrations, 127/128B(1)39:687
 amphibolites, 173A6:139; 173B10:18
 analyses, 183B17:2, 9
 andesites, 134A11:341–343; 135A(1)7:323, 325
 apatite, 179B2:74
 augite, 127/128B(2)52:852–854
 backarc basins, 135B25:441–447
 basalt clasts, 143B16:268, 271; 149B29:499–502; 157B12:155–156, 160; 158B19:259
 basalts, 113A6:201, 203; 124A11:263–264, 267–268; 124B20:278–281, 291; 130A9:445; 10:524–526; 127/128B(2)47:782; 56:893; 51:839; 54:869–870; 128A3:98; 130B1:7–8, 14–19; 131A6:156–157; 131B16:200, 205–206; 134A9:200; 135A(1)5:223–224, 230; 135B26:471–485; 27:488–503; 28:512–513; 29:519–531; 35:598; 36:606; 38:630–632; 136A5:78; 136B9:109–111; 137A2:27–28; 137/140B5:53–61; 142A4:60–63; 142B3:23; 143A6:141, 143, 152; 7:228; 144B29:503–504; 145B22:335; 148B2:22; 30:390; 149A6:172; 151B19:354–358; 158B17:215–218, 222, 224; 163X_A8:9–11; 169A3:95–96; 183A4:19–20; 5:34–36, 183–185; 6:137; 187A3:9–11, 31; 4:6–7, 22; 187A5:6–7, 22; 6:9–12, 41–42; 7:10–12, 38–39; 8:11–12, 56; 9:8–10, 26; 10:5–6, 29; 11:12–13, 41–42; 12:10–

- 11, 47; 13:14, 46; 14:7–8, 33; 15:11–12, 48;
192A6:17; 7:8, 58; 192B1:5–7; 197A4:17–18,
114–115; 200B2:18–19; 203A3:13–15, 79
basement, 161B28:375–379; 173A6:133–135;
183A5:47–48; 7:39; 8:110; 9:130; 197A3:158–
160; 6:106–107; 206B8:5–16
biotite, 179B2:75
breccia, 149A6:165; 173A6:139; 7:195–196
bulk samples, 193A3:288–289; 5:14; 6:38
Cagayan Ridge, 124A14:403–405
carbonates, 156B5:85–87, 93–94; 160B35:448
Celebes Sea, 124B22:312, 314
chemistry of olivines and pyroxenes, 147B1:6
chilled margins, 137/140B3:38–42
clay fraction, 125B7:121
clay minerals, 158B20:279–284; 169B6:23
clinopyroxenes, 137/140B11:123, 125; 176B10:11–12,
39; 179B(synthesis):117–119
comparison of plutonics, 179B(synthesis):80
correlation coefficients, 164B14:148; 187B5:27–29
cumulate gabbros, 149B27:473–474, 478–480, 488
dark–light cycles, 127/128B(1)32:568–571
diabases, 137/140B9:114; 148A2:57–60; 148B4:39–53;
153B19:364–365; 180A1:64–66; 6:248; 8:126;
12:180; 180B1:16–17
differentiation index, 120B(1)10:147
diopside, 153B13:277–280
factor analysis, 167B25:286–288
felsic rocks, 183A5:186
fine-grained sediments, 210B8:60–63
fractionation models, 127/128B(2)54:881
fresh and altered dacite, 193B12:3–4
gabbros, 176B3:1–13; 6:16–18, 81; 8:3–14, 54–59;
12:1–18; 179A4:45–47, 179–182; 179B(synthe-
sis):12–15, 27–30, 108–110
gabbros, 153B18:352–355; 28:492; 170A4:138;
180A1:22–23; 11:6; 205A4:33–35; 209A3:35;
6:30
geochemical logs, 143A4:80–81
geochemistry, 125B17:318; 127/128B(1)39:677–695
glass, 148B11:167; 38:483–487; 157B22:381–385,
396–401; 23:404–405; 186B10:19–20; 192B1:7
hemipelagic sediments, 186B13:1–12
hydrothermal alteration, 139B6:98; 158B2:27–39;
4:49–63; 7:94–96
hydrothermal deposits, 129B22:415–427
hydrothermal mounds, 158B27:367, 370–376
igneous rocks, 129B35:653–669; 131A6:197;
134B16:340–341; 17:355; 135A(1)1:34–35;
4:150–152; 6:272–274; 8:370–372; 9:444–448;
139A7:519; 139B6:80–81, 85–86; 140A2:78–82,
121; 176A1:17–18; 183B15:37–39; 192A6:108;
205B9:7–8, 35–38; 209A3:159–160; 5:34–39,
177–178; 6:122; 7:124; 9:106; 10:158–159
igneous units, 183A6:188–189
ilmenite, 127/128B(2)52:856–857; 179B2:69–73
interelement comparisons, 127/128B(1)39:690
Japan Sea sediment, 127/128B(2)78:1235–1237,
1246–1248
Japanese volcanic outcrops, 127/128B(2)54:874
Jurassic basement, 185A1:18–19
lava, 134A10:277–278; 135B24:388–390; 144B30:514–
523; 197A5:16–18, 101–103; 6:13–15; 197B1:37
lithology, 125B18:337–338; 183A4:88; 200A1:28–30;
207B8:29–32
mafic rocks, 149A7:235
magnetic minerals, 127/128B(2)52:856–857;
148B38:475, 478–479
Mascarene Plateau, 115B2:18–19
mass transfer, 193B1:64
melt, 137/140B12:135; 187B1:14–15
metabasite, 195B4:44–47
metamorphic clasts, 195B4:7–8
metamorphic rocks, 173A7:197
metamorphosed mafic rocks, 149A7:236
metasedimentary rocks, 152B10:133–135
mineral chemistry, 209B4:4–5
mineral separates, 209A6:123
mobility during alteration, 127/128B(2)51:838
neutron absorption cross section, 149B37:596–597
oceanic crust, 137/140B29:327–337
olivines, 127/128B(2)52:850; 179B(synthesis):120–
122; 2:66–68
onshore magmatism, 124B23:326–327
oxides, 193A3:284–285, 290–291; 4:243–244
Pacific Ocean W, 124B41:531–539
partial melts, 137/140B4:47
partitioning, 129B2:57
peridotites, 149B23:417–423; 153B10:181–241;
14:289
petrography, 139B6:81–82
pillow basalts, 151A13:418; 183A8:18
plagioclases, 127/128B(2)52:852–853; 179B(synthe-
sis):123–125; 2:56–60
pore water, 129B14:267–281; 131B31:387–396;
135A(1)4:126–127; 139B22:430–434;
152B26:307–311; 204A3:17–19; 4:14–15; 5:8;
6:11–12; 7:11–12; 8:13; 9:11–12; 10:15–16
primary and secondary variations, 137/140B6:65–80
pyroxenes, 179B2:61–65
reference samples, 137/140B32:353–354;
147B30:494–495
samples, 129B2:73, 78
sapropels, 160B17:207–217
secondary clays, 168B12:149–157
sediment molar ratios, 127/128B(1)34:616–619
sediments, 117B23:429; 121A13:473–474; 123B8:170–
173; 129B1:19, 21; 2:72–73; 14:271, 279;
131B35:427–450; 135B43:691–694; 139A5:138;
6:209–213; 7:351–352; 141B7:101; 143B13:200–
201, 204–208; 151A5:82; 6:130–131; 152B2:19–
28; 155A7:150; 8:193; 9:220; 10:262; 11:297;
12:355; 13:403; 14:427; 15:457; 16:482; 17:529;
18:559; 162B14:200–202, 206–207;
164B14:147–149; 15:154; 165A3:77; 4:170;
5:262; 6:321; 167B25:284–288, 296; 170A3:76–
79; 4:137–141; 6:206; 171B_B4:4–5, 17–23;
172B5:4–5; 177B1:8–14; 178B4:1–12; 181B1:27–
28; 6:13, 16–24, 44–53; 7:5, 24; 184B19:6;
185A4:176–177; 186B15:26–30; 191B4:23;
200A3:146; 202B10:1–9; 205A4:23–24; 5:94;

- 6:10; 205B3:14–15; 206A3:42–43; 210A3:323–328
- serpentine mud, 195B4:17, 37–43
- serpentinites, 149A4:80–81; 149B30:519–527, 532–538; 173A7:196; 9:284, 286; 195A3:20–21
- sideromelane, 157B25:423–425
- silica, 127/128B(1)39:682
- siliceous rocks, 135B40:656; 198B17:6–7, 44
- siliceous sediments, 170A3:76
- siliciclastics, 170A5:180; 6:209
- sills, 139B6:96; 210A3:68–69, 330
- Site 782, 125B7:120
- Site 784, 125B7:122, 130
- Site 786, 125B7:122; 9:152–155
- Site 794, 127/128B(1)39:680, 682, 686–687; (2)47:782; 51:839; 52:858; 54:869–870; 56:893; 58:912–913, 918
- Site 795, 127/128B(1)39:680–683, 686–687; 58:913–914
- Site 796, 127/128B(1)39:681
- Site 797, 127/128B(1)39:681, 686–688; 51:839; 52:858; 54:869–870; 56:893; 58:914–916, 920
- Site 798, 127/128B(1)34:616–617; 42:720–722
- Site 799, 127/128B(1)34:611, 618–621; 42:722–723, 726–727
- Site 800, 129A2:58
- Site 802, 129B4:124
- Site 803, 130A5:149
- spinel, 127/128B(2)51:840–842; 52:856–857
- Sulu Sea, 124B19:256–258; 21:300–302; 29:384–385
- tephra, 152B5:56; 186B9:5; 205A4:25
- terrigenous input, 202B1:8–9
- tholeiitic basalt, 192A5:14–15
- titanomagnetite, 179B2:69–73
- tonalite gneiss, 173A6:139
- troctolites, 153B21:396
- tuffs, 129B4:125
- turbidites, 135B7:108; 10:154–161; 149B10:286–287; 157B32:561; 33:577, 580
- ultramafic rocks, 149B21:384–385, 390–395
- veins, 176B9:60–61
- volcanic ash, 131B14:175–183; 134A13:503; 145B23:348–349, 357, 360–375, 378–381; 44:668; 151B17:316–323; 18:338–343; 152B6:72–77; 162B16:218, 224–230; 165A3:84; 4:181; 6:324; 201B19:11
- volcanic glass, 125B8:138–139; 127/128B87:1378; 135B3:27–34; 136B4:57–59; 161B12:139–148
- volcanic pebbles, 161B44:569
- volcanic rocks, 134A8:153; 12:415; 141A9:317; 141B4:54; 27:334–338; 28:351–352; 152B28:336–338; 36:431–435; 161B27:364–369; 163B7:63–75; 8:81; 10:113–117; 183B17:2
- volcaniclastics, 141B12:172–174; 36:430–431; 157A7:354–355; 8:417; 9:458; 157B12:148, 151–155; 13:191–192; 15:252–253; 210B9:68–69
- volcanism, 197B1:14–17
- vs. age, 184B12:20–21; 19:19
- vs. depth, 135B31:546; 136B6:80–83; 149B23:422–423; 171B_B4:8; 179A4:159; 200B1:26–28; 2:3–4; 205A4:114; 206B3:15
- vs. loss on ignition, 127/128B(2)58:918, 920
- vs. magnesium oxide, 130B1:15; 135B25:440; 148B3:23; 187A3:24; 4:17; 5:17; 6:36; 7:33; 8:51; 9:21; 10:24; 11:35; 12:41; 13:41; 14:28; 15:42; 187B1:35; 200B2:10
- websterite, 153B16:323–325
- welded ignimbrite, 157A10:525
- whole rocks, 157A7:360–361; 192A3:159; 4:120
- xenoliths, 144B30:525–528
- X-ray fluorescence data, 127/128B(2)65:1025–1035; 131B28:345, 350, 353–355, 359–361; 135B58:925–926; 170A5:177–178; 180A11:41; 183A7:198–200
- major elements, anhydrous
- altered gabbroanorites, 209A1:91, 101
- altered peridotites, 209A1:90, 105, 110, 119, 123
- major elements/aluminum ratio
- black shale, 210B10:16
- sapropels, 160B17:209
- major oxides
- basalts, 129B18:348–349; 165A6:326, 329; 206A3:375–382
- clays, 156A1:23
- diabases, 129B18:348–349; 153A4:148
- fractionation indexes, 129B19:368–369
- gabbros, 153A4:142–143; 5:192; 6:233
- geochemical logs, 135B59:938, 941, 944–945, 948–949; 138B44:862, 864, 868–869, 872, 873, 876–877, 880–884; 154A8:401
- glass shards, 186B9:5–7
- hydration, 186B9:21
- Mascarene Plateau, 115A18:271
- percentage calculation, 129B34:638
- peridotites, 153A3:61, 66–68
- Pigafetta Basin, 129B5:146
- samples, 129B2:70–71
- sediments, 138A(2)13:717
- Site 715, 115A12:949
- tektites, 150B13:248–250, 253–255
- volcanic ash, 165A4:179–181; 5:266
- volcanic rocks, 163A3:28–29; 4:38–41; 5:57–61
- volcaniclastics, 129B5:145, 147
- vs. aluminum oxide, 161B28:377
- vs. depth, 131A6:106; 156B1:24–25; 165A6:330; 186B9:21
- vs. kaolinite, 156B1:30
- vs. magnesium oxide, 206A1:88
- vs. silica, 150B13:257; 161B27:366; 165A4:183; 201B19:27, 29
- vs. water, 129B22:422
- weight fractions, 129B34:644–645, 648–651
- X-ray diffraction data, 129B14:278
- X-ray fluorescence data, 129B19:361–388
- malonate, pore water, 144B27:470
- Malvaceae, Site 717, 116B21:255
- Mammoth/Gauss boundary, Site 798, 128A4:156
- Mammoth Subchron
- correlation, 145A3:51; 145B34:494; 180A1:21
- magnetic polarity, 135A(1)4:117; 11:615–619; 180A12:35

- magnetostratigraphy, 132B3:43; 4:51–55;
138B38:781, 788, 794–795; 141A6:93;
160B5:67; 173B11:13; 180A9:38
Oman margin S, 117B5:131
remanent magnetization, 160A7:179; 8:234; 10:357
sedimentation rates, 121B15:302
sediments, 194A3:12; 202A8:21; 202B4:14
Site 744, 119B46:820
Site 745, 119B43:753
Site 798, 127/128B(2)77:1224
Site 832, 134A12:423
Site 833, 134B26:469–471
Site 846, 138B15:348
Site 850, 138A(2)15:840–842; 138B6:84
Site 851, 138A(2)16:912–916, 924–927
Site 852, 138A(2)17:990–993
Site 853, 138A(2)18:1038–1041
Site 854, 138A(2)19:1075–1077
timescales, 138B6:86–87
- manganese
alteration, 108B17:308; 193B1:19, 47
Atlantic Ocean E tropical, 108B17:302
authigenesis, 172A5:225–228
basement secondary mineral geochemistry, 206B8:3
Bengal Fan, 116B9:119
biogeochemical flux model, 201B1:27
bioreactors, 207A7:27–29
black shale, 207A5:27–28
bulk sediments, 199A8:17; 9:11; 10:17–18; 11:26;
12:27; 13:22–23; 14:19; 199B14:15; 22:23
calcite, 139B14:325–327; 149B33:554–555
carbon dioxide reduction zone, 188A3:45–46
carbonates, 115B36:671–673; 123A4:156–157;
123B3:82; 160B35:448; 166B13:141–142;
182B16:5–6; 198B13:5
Celebes Sea, 124A10:136; 13:347
clay geochemistry, 184B12:10
claystone, 126B7:114–117
Costa Rica Rift, 111B17:198–199, 202
Cretaceous clays, 123B8:178
Cretaceous/Tertiary boundary, 121B20:424
depletion, 129B32:603
deposition, 108B17:308; 126B7:117
detrital component, 167B23:267–270
diagenesis, 156B12:168
dolomite, 175B15:14
electron microprobe data, 194B8:18, 22
enrichment, 156B13:173
ferromanganese crusts, 144B44:751–753
ferromanganese micronodules, 199B14:4
fractionation, 129B32:604
gabbros, 176B8:3–4; 180B3:7
garnets, 161B19:267
genetic classification, 126B7:113
geochemical controls on pore water composition,
166B9:109–110
geochemistry, 103B29:491–492, 498–499; 133B36:532
grain infillings, 144B14:285
hardgrounds, 144B5:97–126
hydrothermal alteration, 147B26:450
hydrothermal deposits, 135B5:77–82
hydrothermal fluids, 126B7:113; 139B20:404
hydrothermal mounds, 158B27:370–373
hydrothermal sediments, 199B15:3
Izu-Bonin arc, 126B7:114–117
Japan Sea, 127/128B(2)78:1236
Jurassic–Cretaceous interval, 129B32:603
Labrador Sea, 105B8:103; 10:145
limestone, 144A6:232; 7:275; 8:302
lithology, 151A11:357–359; 207B8:10; 210A3:35, 54
low concentration, 129B32:582
Lower Cretaceous, 129B32:606
Mariana Basin E, 124E_A18:123
mass balance, 169A3:98
metalliferous sediments, 138B37:771, 774
microbiology, 205B8:6–11
micronodules, 145B27:418; 173A9:270, 272
mineral chemistry, 126B7:115, 117, 122–123;
179B2:10
mobilization, 161A5:146; 183B15:9–10
nodules, 138B40:807–811
Ontong Java Plateau, 130A5:135–136
organic matter, 161A7:320–321; 201B1:8
oxic conditions, 157B32:565–567
oxidation, 191B4:3–5
Paleocene/Eocene boundary, 199A1:85; 199B1:18;
16:3
particulates, 202B1:4
photograph, 160A9:298; 10:346
pore water, 116B9:118–119, 123–125; 13:146, 153;
127/128B(1)34:607; 129B14:270–275;
131B13:165–174; 135A(1)4:127; 5:216; 7:316–
318; 8:366; 9:429, 432; 135B42:680–688;
145A3:52; 4:96; 5:149; 6:237–238; 7:312; 8:351–
352; 145B45:671; 149A5:135; 6:191; 7:244;
154A4:92–93; 8:359; 155A6:108; 8:192; 9:218;
10:260; 11:296; 12:350; 13:399; 14:424; 15:452;
16:478; 17:521; 18:558; 19:584; 20:612; 21:651;
22:675; 156A6:150; 159A6:195; 7:245; 8:284–
285; 161A4:89; 165A4:167; 5:259; 6:319;
165B19:288; 166B9:104–105; 169B1:2, 4;
172A7:311–313; 177A4:17; 5:22; 7:15; 8:17;
9:13–14; 178A4:21; 5:18; 6:14; 8:13; 9:15;
178B8:9; 181B5:1–5; 188A4:30; 5:23–24;
191A4:21–22; 193B4:4–5; 194A3:16; 4:22;
195A3:33–37; 198A3:35; 4:26–27; 5:27; 6:25;
7:24; 8:21; 9:30; 199A8:16; 9:10; 10:16; 11:25;
12:26; 13:22; 14:18; 15:12; 202A3:13; 4:14; 5:13;
6:14; 7:17; 8:23; 9:18; 10:17; 11:15; 12:15;
13:13; 202B8:1–19; 204A6:11; 205A4:47; 5:31;
6:16; 207A6:30–31; 208A3:21; 4:19–20; 5:15;
6:23–24; 7:22; 8:23
productivity, 199B22:10–11
radiolarians, 124B25:346
redox, 161A6:236, 238; 165A5:257
reduction, 151B24:423–425; 168B10:133; 185B3:1–11
rock-water reaction zone, 188A3:46
seawater-peridotite mud interaction, 195B4:6
sediments, 129B2:44, 50; 130A7:251; 135B52:840–
841; 149A4:98; 156A7:235; 166B17:184–188;
167A(1)4:74; 5:104; 6:144; 7:166; 10:261;
11:295; 14:406; 15:447; 167B23:265;

171B_B4:4-5; 177A6:15; 191B1:4; 4:1-24;
195A4:36; 199B14:4; 204A3:18; 208A5:17
shipboard vs. shore-based digestion, 206B3:14
shore-based flux vs. shore-based microwave acid di-
gestion, 206B3:12-13
siliceous deposits, 129B2:41
siliceous rocks, 198B17:9-10, 27
Site 699, 114A6:156, 159, 164, 193; 114B35:662, 664
Site 700, 114A7:260
Site 701, 114A8:371, 375, 393
Site 702, 114A9:489
Site 703, 114A10:557
Site 736, 119B18:356
Site 744, 119A13:482-484
Site 752, 121B21:439
Site 765, 123A4:147; 123B3:83
Site 766, 123A5:303
Site 787, 126A5:88
Site 788, 126A6:122
Site 795, 127/128B(1)41:710-711, 714
Site 798, 127/128B(1)42:722; 79:1263; 128A4:172-
173, 180
Site 799, 127/128B(1)9:90-91; 34:610; 42:722, 727-
729; 128A5:317, 328
Site 800, 129B1:7
Site 801, 129B1:7
smarl turbidites, 123B4:120-121
spectra, 191B4:13
submarine ferromanganese hardgrounds, 194B8:5-6
sulfate reduction zone, 188A3:44
sulfides and sediments, 158B3:44
Sumisu Rift, 126B7:114
turbidites, 135B10:154-161; 52:832
Upper Jurassic, 129B32:606
volcanic rocks, 135B30:533-542; 183B17:2
vs. aluminum in bulk sediments, 199B14:16
vs. barium in bulk sediments, 199B14:16
vs. carbon isotopes, 139B14:327
vs. cerium, 127/128B(1)42:726-727, 737; 199B14:16
vs. chlorinity, 139B22:436
vs. cobalt in bulk sediments, 199B14:16
vs. depth, 103B29:492-495; 129A2:59-60; 3:126;
4:208; 135A(1)4:128; 5:220; 7:320; 8:369;
10:539; 135B7:127; 136B6:80-83; 137/
140B13:145; 138A(2)13:714; 139B14:325-326;
17:359-367; 22:436; 43:688; 49:749-750, 755;
145A3:64; 4:105; 5:151; 6:241; 7:321; 8:360;
149A4:100; 5:136; 6:192; 150A6:103;
150X_B24:331; 154A4:103-104; 8:381;
155A6:112; 7:149; 8:192; 9:219; 10:261; 11:296;
12:354; 13:402; 14:426; 15:456; 16:481; 17:528;
18:558; 19:585; 20:615; 21:651; 22:677;
156A6:149; 7:240; 156B12:165, 169; 13:179,
181; 159A5:110; 6:194; 9:311; 161A4:93; 5:153;
6:260-261; 7:333; 8:387; 9:412; 164B15:158;
165A3:74; 4:166; 5:257; 6:319; 165B19:294;
166B9:104; 13:142; 167A(1)4:79-80;
167B23:268; 168B9:107-114; 169B1:13;
171B_B4:8; 172A5:227-228; 6:286-287;
175B13:15; 177A1:48; 4:48; 5:51; 6:43; 8:50;
9:41; 178A4:77; 5:70; 6:49; 7:52; 8:47;

178B14:9; 181B5:4; 182B16:13-14; 185A4:114;
185B1:31; 3:11; 188A3:126; 4:76; 5:65;
191A4:77; 191B4:12, 14; 195A3:116; 4:134;
195B10:7; 198A3:94; 4:66; 5:65; 6:58; 7:54;
8:52; 198B13:8-14; 199A8:35-36; 9:26-27;
10:39-40; 11:64-65; 12:69-70; 13:36, 54; 14:38-
41; 15:30; 199B15:5; 16:6; 22:18; 201B14:22-23;
202A3:36; 4:48; 5:42; 6:47; 7:55; 8:67; 9:63;
10:58; 11:53; 12:63; 13:51; 202B8:14; 204A3:60;
4:62; 5:29; 6:40; 7:37; 8:49; 9:47; 10:53;
205A4:145; 5:85; 206A1:81; 3:149, 194;
206B3:15; 207A1:79; 4:58; 5:68; 6:67; 7:63;
8:59; 207B3:25-30; 208A3:57; 4:41, 58; 5:35, 48;
6:53, 67; 7:39, 57; 8:39, 56
vs. forsterite, 179B2:36
vs. iron, 193B4:12; 143B13:218; 199B14:16
vs. magnesium, 137/140B13:146; 139B20:405;
148B10:149; 149B33:555, 556; 179B2:42
vs. magnesium number, 137/140B1:9; 179B2:38
vs. neodymium, 199B14:16
vs. oxygen isotopes, 139B14:326; 148B10:148
vs. phosphorus, 199B14:16
vs. zinc, 199B14:16
vs. zinc + copper + nickel + cobalt + chromium sys-
tem, 135B43:702
X-ray fluorescence data, 175B13:5-6, 20-30
See also aluminum/(aluminum + iron + manganese)
ratio; aluminum-iron-manganese system; cop-
per/manganese ratio; (copper + cobalt + nickel)-
iron-manganese system; hardgrounds; iron/
(iron + magnesium + manganese) ratio; (iron +
manganese)/(aluminum + titanium) ratio; iron-
manganese oxides; nickel/manganese ratio;
nodules; silicon + iron + manganese system; ti-
tanium/(titanium + iron + manganese) ratio
manganese, acid-soluble fraction, vs. carbonate percent-
age, 150B17:318
manganese, dissolved
boreholes, 181B1:28; 181B5:1-5
microbial activity, 201A1:12-15
pore water, 130A8:324; 201A1:20, 28, 33, 37, 41, 45;
6:15; 7:14, 46; 8:15; 9:12; 10:14; 11:16-17;
12:12-13
sediments, 113B13:171-173
vs. depth, 201A1:66, 72, 74; 6:43; 8:35; 9:37; 10:39;
11:51; 12:32; 201B1:40; 17:13-14
manganese, hydrogenous, rare earths, 127/
128B(1)42:729
manganese, shipboard, sediments, 199B22:22
manganese/aluminum ratio
bulk sediments, 199B14:4, 15
clay geochemistry, 184B12:10
lithology, 207B8:23
Neogene, 115B38:701
vs. age, 184B12:24
vs. depth, 157B31:556; 160B16:200; 185B7:13, 18
manganese/calcium ratio
calcite, 130B33:561-572
limestone, 144A6:232
Maud Rise, 113B47:833
Pliocene-Pleistocene foraminifers, 202B11:1-19

- sediments, 135B43:706; 166B13:138–140
 veins, 206B10:3–6
 vs. depth, 144A6:234; 9:303; 157B31:556; 202B11:7
 vs. strontium/calcium ratio, 135B43:701; 206B10:5
- manganese carbonate
 calcite, 168B10:126
 carbonates, 156B5:85–87; 168B11:139–142
 mineralogy, 123B2:17
 radiolarian claystone, 123B2:18
 values, 156B5:95
- manganese crusts
 Albian, 159A9:307
 lithology, 159A8:268
 photomicrograph, 198A3:72
- manganese hydroxides, lithology, 210A3:38
- manganese-iron oxyhydroxide, 187A8:36
- manganese/iron ratio
 claystone, 129B32:597
 geochemistry, 138A(2)15:838
 hydrothermal alteration, 135B43:697–698
 sediments, 135B43:706
 sources, 138A(2)13:700–701
 vs. cobalt/nickel ratio, 144B44:754
 vs. depth, 138A(2)13:715; 15:861
 vs. zinc + copper + nickel + cobalt + chromium system, 135B43:703
See also iron/manganese ratio; iron-manganese oxyhydroxides
- manganese micronodules. *See* micronodules, manganese
- manganese minerals, scanning electron micrograph, 156B13:180
- manganese nodules. *See* nodules, manganese
- manganese oxide/aluminum oxide ratio
 Cretaceous/Tertiary boundary, 123B8:178–179
 sediment alteration, 185A4:31
 sediments, 131B28:350–355, 359, 361
 vs. depth, 131B35:441; 185A4:120
- manganese oxide/iron oxide ratio, sediments, 136B6:82
- manganese oxide/silica ratio, volcanic ash, 125B15:287
- manganese oxide/titanium oxide ratio
 oxidation, 191B4:4–5
 vs. depth, 191B4:16
 vs. distance from land, 191B4:15
- manganese oxides
 AFM diagram, 153B10:210
 Albian–Turonian sedimentology, 210B8:8
 alteration, 183A7:153; 187A1:11; 3:7–8; 4:3–4; 6:5–6; 7:5–8; 9:5–7; 11:7–10; 12:8–9; 13:10; 14:4–5; 15:7–9; 187B1:7–8; 5:10
 amphiboles, 118B3:56
 basalts, 169A3:95; 195A1:59; 4:114
 biogenic sediments, 201B14:9
 calcareous sediments, 123B1:19
 calcite, 203A3:8
 carbonates, 168B11:144
 chlorites, 176B9:11
 clinopyroxenes, 118B2:51, 53, 65
 digital images, 208A7:40
 diopside, 176B9:10
 dissolution, 178A5:18; 9:15
 fine-grained sediments, 210B8:14
- forearc seamount 126B7:191
 gabbros, 176B6:17; 8:4–14; 179A4:45–47; 179B(synthesis):14
 geochemistry, 156B13:173
 guyots, 144B5:115
 hemipelagic sediments, 126B32:497, 499
 hydrothermal fields, 158A1:7
 ignited sediments, 138A(2)15:846–847
 ilmenite, 176B9:13
 light microscope images, 208A6:68
 limestone, 143B13:210, 212, 220–221
 lithology, 135A(1)5:197; 171B_A3:51; 5:180; 180B6:6; 187A6:4–5; 13:6; 199A11:8; 201A6:9; 12:8–10; 208A7:5–6; 210A3:33, 53–54
 lower Campanian–upper Paleocene, 210B8:10
 microbial activity, 205B8:7–8
 middle–upper Eocene sedimentology, 210B8:13
 mineral separates, 158B2:29
 olivines, 118B3:56
 origin, 126A6:117; 126B32:497–498
 orthopyroxenes, 118B3:53, 67
 photograph, 138A(2)17:978; 171B_A3:54; 187A6:25; 8:39; 10:12–13; 11:22; 12:22; 13:34
 photomicrograph, 187A1:39; 6:27–28; 8:20, 36, 40; 10:14; 12:24, 33; 15:26, 37; 187B1:27
 pore water, 178A8:13
 pumice pebble, 126A6:107
 redox, 185A4:27
 reduction, 151B24:423–425
 Sardinian margin, 107B1:14
 scanning electron microscopy, 129B1:27; 2:36
 sediments, 167B25:285–288; 170A3:77; 172B5:22; 180B6:15; 205A4:24
 serpentinites, 149B30:522–523
 Site 701, 114A8:391
 Site 765, 123A4:93–94, 160
 sulfides and sediments, 158B3:43
 tektites, 150B13:248–250, 253–258
 tephra, 186B9:16–17
 vs. alteration, 148B4:49
 vs. barium, 180B6:14, 38
 vs. calcium carbonate, 157B31:556
 vs. calcium oxide, 157B12:150; 15:240–245
 vs. depth, 135B7:114; 137/140B7:92; 14:164; 138A(2)15:857; 139A6:223–250; 139B23:445; 140A2:90; 147B26:449; 148A2:60, 62; 3:157; 148B4:48; 10:137; 34:423–424; 151B19:358; 152B2:24; 157B31:556; 167B25:285; 169A3:97; 170A3:81; 176B6:38; 183A8:70; 206A3:152; 210B8:47
 vs. forsterite, 179B(synthesis):83, 93
 vs. iron oxide, 148B14:212; 180B6:14, 37; 210B8:32
 vs. loss on ignition, 136B11:141; 148B10:139
 vs. magnesium number, 148A2:59; 3:151; 168A4:71; 5:125; 179B(synthesis):85
 vs. magnesium oxides, 206A1:88; 3:199
 vs. phosphorus oxide, 151A5:86
 vs. silica, 151A5:81; 151B19:357; 152B2:23
 vs. subbasement depth, 148A3:159
 vs. total inorganic carbon, 207B8:22
See also iron-manganese oxides

- manganese oxides, dendritic, photograph, 187A3:19
manganese oxides, whole-rock, vs. whole-rock magnesium number, 179B(synthesis):71
manganese oxyhydroxide
 color, 135B52:832
 deep-sea sediments, 185B7:5
 photomicrograph, 192A5:91–92
 turbidites, 135B10:154–161
manganese/phosphorus ratio, lithology, 185B1:13
manganese reduction
 bacteria, 201A6:21–22
 sediments, 201A1:34
manganese/silica ratio, vs. depth, 156A6:149; 7:240
manganese stain, photograph, 156A6:127
manganese/titanium ratio
 pore water, 165B19:288
 See also manganite
manganite
 lithology, 210A3:38
 Pigafetta Basin, 129B1:19
 Site 765, 123A4:99–103
 See also manganese oxyhydroxide
manganosiderite
 cement formation, 105B10:147–148
 Labrador Sea, 105B10:140–141, 150
Mangapanian, foraminifers, 181A7:18; 8:19; 9:12, 14
mangroves
 Celebes Sea, 124B27:369–372
 concentration, 175B10:30
 pollen, 133B9:109; 10:118–119
 See also *Avicennia germinans*; *Rhizophora*
Manheim squeezer, hydraulic conductivity, 195A6:1–15
mantle
 acid magmas, 125B38:649
 advection, 135B28:505–517
 aluminum oxide/silica vs. magnesium oxide/silica, 153B10:213
 anisotropic velocities, 127/128B(2)69:1075
 anomalies, 144B31:535–545; 187B1:2–3
 asthenospheric entrapment, 115B5:59–60
 attenuation, 135A(1)1:9
 basalts, 142B1:7
 basement, 149B38:613; 183A1:9; 183B1:14–16
 beryllium isotopes, 127/128B(2)49:815
 chrome spinel, 159B15:138
 composition, 127/128B(2)47:786–787; 58:927; 153A1:10–11; 153B29:505–521; 163B8:87–90
 conductive boundary layer, 209B1:1–33
 contamination, 127/128B(2)49:807–812; 152B29:353–356; 41:522–523
 continental crust breakthrough, 107A11:879
 Deccan flood basalt volcanism, 115B5:54
 decompression, 192B1:5–7
 deformation, 209A1:1–139
 delamination, 161B44:574–576
 depletion, 127/128B(2)47:786–787; 49:807–815; 57:903; 136B9:116–117; 192B1:8
 diabases, 153B19:375
 diapir models, 115B1:9; 125B27:458
 diopside, 153B13:277–284
 dunite dikes, 147B6:131
 dynamics, 153B15:317
 emplacement, 152B41:522–528
 end-member compositions, 127/128B(2)49:815
 enrichment, 127/128B(2)47:786–787; 57:903; 180B(synthesis):5
 evolution, 157B27:447; 180A3:4–5
 exhumation, 147B28:472; 210B1:9–11; 9:1–69
 flow, 147B6:120; 187A1:3–4
 fracture zones and ridge spreading rate, 118A3:42
 geochemical indicators, 142B2:16–19
 geochemistry, 115B5:54, 59; 121A15:525; 135B38:631–632; 149B23:420; 158B17:225
 geophysical data, 161B44:560–561
 Gortani Ridge uplift, 107B38:634
 harzburgites, 147B6:119–121
 heterogeneity, 120B(1)3:59, 61; 127/128B(2)58:927; 153B13:282–283; 15:305–319; 187B3:1–24
 incompatible element averages, 192A1:40
 island-arc evolution, 135B28:514–515
 isotope geochemistry, 120B(1)2:42; 121A15:526
 Japan Sea basalt, 127/128B(2)57:903; 83:1341
 large-ion lithophile element enrichment, 125B12:229
 layers, 195B1:13–14
 lithospheric vs. asthenospheric composition, 125B9:157
 magmas, 115B5:53–54; 134B20:399–400
 melt-wallrock interaction, 147B8:157–172
 melting, 123B42:791, 797; 43:805; 125B9:155; 12:231–232; 28:498, 501, 506; 38:638–639, 644–648, 657–658; 152A1:12–14; 152B27:321–324; 153B10:214; 192A1:7
 mineral/melt partition coefficients, 153B10:228
 mixing, 125B38:639–640; 127/128B(2)49:817
 modern trend, 105B46:870, 872, 880
 ocean–continent transition, 149B47:723
 ocean plateaus, 130B48:791–795
 olivines, 152B27:316–318
 partial melting, 123B10:209–210; 125B28:492, 494, 502; 38:641, 645–647; 173A9:293; 180B1:6
 peridotites, 137/140B12:137–138; 149B23:413–424
 petrology, 209A3:3–10
 plate tectonics, 187B1:19–21
 plateau origin, 120B(1)5:76
 plumes, 115B1:3, 9; 5:53–60; 121B30:578–581; 144B52:929–932; 145B22:343; 192B1:8–9
 pressure-temperature conditions, 195B2:19
 processes, 127/128B(2)58:927–928
 replacement, 135B24:399–406
 retention of platinum-group elements, 147B4:84–85
 rifting, 149B40:636–645
 sediment contamination, 127/128B(2)49:805
 seismic velocity, 209A1:85
 serpentinized peridotites, 149A4:82
 Site 701, 114B40:738
 Site 703, 114B1:20
 Site 704, 114B25:470
 Site 794, 127/128B(2)58:917
 slab rollback, 135B28:510–512
 sources, 115B5:60; 143B16:270, 272
 stationary volcanic formation, 115B5:53

- structure, 161B44:572; 176A1:3; 195A1:17; 195B1:16; 2:4–7
- subarc development, 125B9:156–157
- subduction, 127/128B(2)49:812–815; 187B3:10
- subforearc event, 125B24:407–408
- sulfides, 192B1:6
- sulfur, 147B5:99
- sulfur isotope composition, 126B29:449
- suprasubduction zone, 135B25:454
- tectonics, 179B(synthesis):7
- temperature, 209A1:13–14
- thermal boundary layer, 176B8:8
- uplifts, 149B22:406, 409–410
- upwelling, 173A1:17–19; 209A1:6–12, 83
- volcanism, 163B6:59–60
- water flux, 186B1:8–10
- Yamato Basin, 127/128B(2)47:786–787; 58:927
- Yamato seamount chain, 127/128B(2)49:812
- See also* asthenosphere; crust/mantle boundary; crust–mantle transition; depleted end-member mantle (DMM); 127°E Fracture Zone; Layer 3; low-velocity layer; transitional Pacific-type mantle
- mantle, altered, crystalline rocks, 153A3:114–115
- mantle, anomalous melt-yield, 152B41:522–528
- mantle, fertile fluid-modified, mid-ocean-ridge basalts, 125B38:638–639
- mantle, oceanic, structure, 136A1:5
- mantle, primordial
 - Cagayan Ridge, 124B21:308
 - Celebes Sea, 124B22:317–318
 - Sulu Sea, 124B21:305
- mantle, refertilization, chemistry, 153B10:205–208
- mantle, residual, crystallization, 153B10:208–213
- mantle, shallow
 - melt evolution, 147B6:103–134
 - serpentinization, 147B14:255–291
- mantle, upper
 - evolution, 192B1:2
 - gabbros, 147B20:357–370; 153B11:243–264
 - hotspots, 205B9:12–13
 - hybridization, 209B4:1–23
 - hydrothermal alteration, 147B15:293–309
 - magnetic susceptibility, 147B23:393–403
 - mineral chemistry, 153B12:274
 - petrology, 147A1:13
 - seafloor spreading, 147B22:388
 - seismic velocity, 147B25:417–440; 153B25:437–454
 - serpentinization, 149B39:628–629
 - structure, 149B1:16–17; 195B2:6–7
 - uplift and exposure, 153B1:17–18
 - velocity constraints, 147B29:477–490
- mantle depletion
 - basin evolution, 161B44:576
 - extensional tectonics, 161B44:576
- mantle domains
 - barium/zirconium ratio, 187A4:7; 5:7
 - composition, 187A1:13–15; 3:10–11
 - distribution, 187A1:14–15
 - isotopic signatures, 187B1:10–14
 - magnesium oxide, 187A12:11; 13:14
 - sodium oxide/titanium oxide ratio, 187A7:12; 8:12; 10:6; 11:13
 - zirconium/barium ratio, 187A6:11; 9:9–10; 14:8; 15:12
 - Zone A, 187A9:10
- mantle flow
 - Indian/Pacific mantle isotopic boundary, 187B1:3–4
 - peridotites, 147B19:347–356
- mantle-melt interactions, troctolites, 147B7:135–155
- mantle lithosphere, subcontinental, 210B9:1–69
- mantle plumes
 - hotspots, 197B1:9, 17
 - petrology, 191A4:31
- mantle sources
 - mid-ocean-ridge basalt, 187B2:1–26
 - volcanism, 157A2:16
 - water, 157B24:418–419
- mantle wedges
 - seismic properties, 195B11:1–12
 - stiffening, 186B1:24
- maps
 - bathymetry, 193A1:34; 198A11:7
 - Eocene/Oligocene boundary, 189A1:72
 - function depth in core, 138B3:37
 - geology, 163X_A1:13
 - gravity anomalies, 210A5:35
 - Holocene, 151B1:4
 - hydrothermal circulation, 169A1:16
 - Japan Trench, 186A4:69
 - landslides, 136B4:54
 - magnetic anomalies, 210A5:34
 - middle Eocene paleogeography, 189A1:71
 - Neogene, 150B14:269–280
 - pre-Mesozoic geology, 188A1:33–34
 - seismic lines, 197B6:7–9
 - seismicity, 186A1:25; 4:157
 - structures, 189A1:74
 - tectonics, 170A1:8–9; 177A1:40; 193A1:32; 210B2:32
 - transects, 210A1:45–46
 - See also* contour maps
- maps, geologic
 - Golfo de Penas, 141A3:28
 - Juan de Fuca Ridge, 139A6:172; 7:444
 - New Hebrides island arc central, 134A3:34, 36
 - Taitao Peninsula, 141A3:24
- MAR. *See* mass accumulation rates
- marble
 - basement/sediment contact, 161A6:211, 215
 - breccia, 161B25:333
 - composition, 161B18:252, 254
 - dolomite, 161A6:215
 - hydrothermal alteration, 210A3:56–57
 - photograph, 161A6:231–232; 161B25:341
 - photomicrograph, 161B18:260
 - schist interlayers, 161B19:264–265
 - Site 654, 107B2:30
 - structure, 161B23:310, 313–314
 - thin sections, 161A9:1001–1003, 1013
 - See also* calcite marble; dolomite marble

marcasite

alteration, 139A6:213–231; 147A3:71; 176A3:38;
 185A3:25–26; 192A7:9; 192B6:4
 authigenic minerals, 144B51:900
 crystallinity, 144B51:910
 electron microprobe data, 135B40:659
 geochemistry, 129B15:290–293
 halos, 206A3:68
 hydrothermal circulation, 169A1:11
 hydrothermal fields, 158A1:10; 158B1:9–13; 15:194;
 27:368–369
 lithology, 193A6:5; 207A6:8
 mafic and ultramafic rocks, 147B5:92–93
 mineralization, 169A3:69
 photograph, 158A8:149, 152; 10:181–184, 187–189;
 11:217; 158B15:198
 photomicrograph, 169A3:72; 193A1:82; 4:150; 6:20
 secondary minerals, 148B12:173
 sediments, 155B37:573
 Snake Pit hydrothermal area, 106/109A5:149
 sulfides, 106/109A5:154; 139B18:375; 169A3:59–61;
 6:269–270
 sulfur isotopes, 158B1:17–19
 veins, 169A3:75; 192A6:19
 vesicles, 128A3:90
 vs. depth, 169B5:15
 X-ray diffraction data, 106/109A5:150–153
 zoning, 139B17:356
See also pyrite-marcasite series
 marcasite, euhedral, lithology, 193A6:6
 marcasite, massive, colloform, 158A10:181
 March model
 deformation ellipsoid, 131B11:145, 151–152
 X-ray goniometry, 131B11:146–147, 150
 margin. *See* continental margins
 margin subsidence. *See* continental margins, subsidence
 marginal basins
 alteration, 124B14:203
 basalts, 124B20:271–272
 location, 124B3:40
 origin, 124B3:39
 Pacific Ocean W, 124A1:5; 3:35; 127/128B(2)82:1311;
 83:1333–1334
 structural maps, 124B23:322
 subsidence, 124B30:399, 402
 tectonic controls, 133B27:402
 temporal development, 124B3:45–46
 marginal environment, Messinian, 161B43:543–551
 marginal ridges
 basins, 159B4:41
 evolution, 159B8:76–78
 paleofluids, 159B6:49–52
 Paleogene, 159B32:421–423
 subsidence, 159B9:81–91
 tectonics, 159B1:3–11
 transform faults, 159A9:301
 uplifts, 159A9:301
 marginal seas
 formation, 127A1:5
 Japan Sea, 127/128B(1)22:365–366
Marginopora facies, assemblages, 133B4:58, 60

marine environment

biomarkers, 167B12:189–190
 biostratigraphy, 159A5:97; 161B36:459–462;
 183A4:10, 13–14; 183B3:6–9; 188B3:7
 carbonate content, 189A3:38–39
 Cenozoic, 161B42:539
 deposition, 159B8:72–73
 grain size, 159B43:594
 lithology, 161A5:128; 6:195; 169S_A2:24–25;
 174AXS_A1:26–27; 182A4:10–11; 10:12; 12:7;
 183A1:22; 5:8; 7:8, 25–26; 8:7; 188A4:12;
 207A5:9
 lower–middle Eocene, 189B1:10
 marine organic carbon, 159B41:570
 Messinian, 161B43:543–551
 nitrogen isotopes, 202B9:1–22
 nodules, 188B15:4–7
 paleoenvironment, 159A6:174–175; 174AXS_A4:10–
 12
 Pigafetta Basin, 129B2:31
 Pleistocene, 161B30:391–400
 preglacial sedimentary basin fillings, 163X_A8:4–5
 Quaternary, 161B36:457–468
 rifting, 159B12:115–116
 sediments, 175B10:7–13, 16
 seismic units, 188B8:5–8
 terrigenous organic carbon, 159B41:570–571
 vegetation, 167B32:361–362
 vs. age, 159B41:569; 43:588
See also mass accumulation rates; sedimentation rates
 marine geology, Ceara Rise, 154A3:42
 marine isotope excursions, radiolarians, 185B6:6
 marine isotope record, MIC amino acids, 174AXS_A7:28
 marine isotope Stage 1–34
 age models, 177B12:5; 181B1:13
 bulk mass accumulation rates, 172B11:20
 marine isotope stages
 biostratigraphy, 165B4:88–94; 16:244; 172B8:6, 18;
 175A3:60; 175B7:5–7; 12:3–8; 19:4; 177A4:12;
 8:12; 9:10; 177B14:8; 181B1:19, 23; 184B9:8–9
 carbonate dissolution, 177B(synthesis):17
 chronology, 167B7:136
 color reflectance, 172B7:16, 22, 32, 35
 deglaciation, 167B11:163–182; 23:268–270
 depth, 182B15:13
 detrital component, 167B23:268–270
 diagenesis, 167B23:265–266
 geochronology, 167B7:134, 136, 139; 9:146; 10:159;
 11:163–182; 32:356–359; 182B8:4
 glaciation, 167B11:163–182; 177B(synthesis):11
 ice core correlation, 177B(synthesis):19, 46
 ice-rafted debris, 181B1:36–37
 ice sheets, 177B(synthesis):14
 interglacials, 177B(synthesis):12
 lithology, 174AXS_A2:16; 177A3:5; 181A4:7
 magnetic excursions, 172A5:188; 172B(overview):6–7
 magnetic susceptibility, 172B7:15, 21, 31, 34
 magnetostratigraphy, 175A4:99
 millennial cycles, 167B25:277–296
 missing stages, 177B9:24

- oxygen isotopes, 172B(overview):5; 177B(synthesis):16; 181B1:29–31; 184B2:5–10; 19:14–15, 18–21; 194B4:4
- paleoclimatology, 167B21:253; 177A6:12; 177B(synthesis):22–23; 9:4–5; 181B1:34
- paleohydrography, 172B(overview):6
- paleomagnetism, 172B11:1–20
- paleoceanography, 172B(overview):5
- position, 184B11:20
- Quaternary, 202B1:6
- red lutite, 172B(overview):6
- sea ice extent, 177B(synthesis):12–13
- sedimentation, 167B11:167
- sediments, 151B25:438–442; 167B22:259–260; 25:284, 286, 289; 175B5:7; 177A1:11, 13, 27; 8:15; 181B1:13
- stable isotopes, 182B15:4
- stratigraphy, 202B1:11–13
- Subtropical Front, 181B1:37
- temperature oscillations, 177B(synthesis):11
- tephra geochemistry, 186B9:9–11
- Termination V, 177B(synthesis):12
- time series, 167B32:360–361
- unconformities, 181B1:13
- vs. age, 175B23:31
- See also* isotope stages; marine oxygen isotope events; oxygen isotope stages
- marine overprinting, porosity, 143B13:210–211
- marine oxygen isotope events
 - biostratigraphy, 141B30:376; 189B4:15
 - See also* benthic oxygen isotope events; marine isotope stages; oxygen isotope stages
- marine oxygen isotope Mi events
 - age models, 189B9:6–7
 - biostratigraphy, 189B9:4
 - climate events, 177B(synthesis):39
 - correlation, 189B1:6
 - oxygen isotopes, 177B(synthesis):7
 - sedimentation rates, 189B10:12
 - stable isotopes, 208A1:56
- marine oxygen isotope Oi events
 - biostratigraphy, 183B7:8; 189A5:33; 189B2:8
 - climate events, 177B(synthesis):39
 - glaciation and Cenozoic stable isotopes, 208A1:56
 - hiatuses, 177B(synthesis):4
 - paleoceanography, 182A1:13
 - paleoclimatology, 199B1:2–3
 - stable isotopes, 182B14:17
 - vs. age, 182B1:30
- marine sediments. *See* sediments, marine
- marine signal
 - mass accumulation rates vs. age, 175B11:21
 - siliceous microfossils, 175B11:8–10
- marine sources
 - organic carbon, 151B22:397–398
 - organic matter, 201B4:7–11
- Marinobacter alkaliphilus*, pore water, 195B1:9
- Marinobacter* cluster, microbial populations, 187B6:9
- Marion Dufresne* cruise, coring, 120B(1)1:10
- “maritime continent,” paleoceanography, 184A1:8–10
- marker beds
 - Eocene volcanic ash layer correlation, 171B_B8:5–7
 - lithology, 177A6:5
 - location and description, 177A6:53
 - photograph, 160A10:346; 177A6:32–33
- marker horizons
 - photograph, 169A4:165
 - pyroclastics, 161B12:151–152
- marker particles, fabric, 131B4:49
- marker species, coccoliths, 168B4:43
- Markov chain analysis
 - cyclic sequences, 123A4:95–97
 - graded carbonate sequence, 123A4:106–107
 - self-transitions, 123B33:608
 - Site 765, 123B33:602
 - turbidites, 123A4:111–112; 123B6:144
- marl
 - alternations, 166B16:170–171, 174
 - basin margins, 161B43:549
 - bioturbation, 110B5:53–54, 57
 - carbon isotopes, 103B31:523
 - Celebes Sea, 124A13:346
 - Cenozoic, 103B36:637
 - clay, 110A5:221
 - claystone, 110A7:404
 - composition, 110B5:53, 57–58
 - dating, 110A6:350; 7:436; 9:544; 110B5:51
 - depth, 110A4:126
 - Exuma Sound, 101A1:7–8
 - Galicia margin W, 103A8:129–133, 160, 162; 9:221–223, 239, 268; 103B11:173–174, 177; 31:513–514
 - gamma rays, 103A10:445
 - grain-size analyses, 110B5:56, 62–83
 - Hauterivian–Barremian interval, 103A9:276
 - ion concentration, 185B11:10
 - lithofacies, 165B7:131
 - lithology, 103A10:416–418, 421–422, 451; 12:572, 577–580; 171A_A3:27; 174AX_A1:22–26
 - Little Bahama Bank, 101A1:7–8
 - magnetic susceptibility, 161B9:111–116
 - Messinian gypsum, 160B36:459–460
 - Miocene, 135B11:164
 - nannofossils, 103A9:232–233, 236, 238; 124A11:201, 269
 - Neogene, 149B12:283–284
 - oxygen isotopes, 103B31:523
 - paleomagnetism, 103A10:430
 - physical properties, 103A9:274; 10:434; 11:542–543; 12:591–593; 185B11:6
 - seismic velocity, 103A9:255
 - Site 750, 120A9:293
 - Sites 543 and 27 comparison, 110B5:55
 - slump folding, 110A5:221
 - Straits of Florida, 101A1:8
 - thickness ratio with clays, 103A9:231–232
 - Tiburón Rise N, 110A5:217
 - Valanginian, 103A9:276; 103B37:660
 - Valanginian–Aptian interval, 103B37:667
 - water content, 134B30:544
 - See also* hemipelagite

- marl, calcareous
 - lithology, 171A_A6:84
 - photograph, 185A4:89–91
- marl, calcisphere-nannofossil
 - bentonite, 123B4:102
 - Site 761, 123B4:95, 97
- marl, calcite needle-rich, Site 261, 123B1:26
- marl, diatom-bearing ferruginous
 - provenance, 119B7:138
 - Site 739, 119B7:134, 140
- marl, dolomitic, lithology, 161A5:120–121, 125, 130–131
- marl, foraminiferal, Cagayan Ridge, 124A12:312–313
- marl, nannofossil
 - Cagayan Ridge, 124A12:302–306, 312–313, 338; 14:400–401, 404–405, 410
 - carbon isotopes, 185B6:4–5
 - Site 261, 123B1:23–25, 43
 - Site 688, 112A20:880
 - Site 782, 125A10:201–202
 - Site 786, 125A14:316–317
- marl, phosphatic, middle Miocene, 171B_A1:6
- marl, radiolarian, photograph, 185A4:81–82
- marlstone
 - alternations, 166B16:170–171
 - Cagayan Ridge, 124A12:315
 - Cretaceous, 103A9:226
 - deposition, 124A11:221
 - lithology, 171A_A3:27; 210A3:26–28, 32–33, 41–42, 46–47
 - Miocene, 135B11:164
 - photograph, 171B_A6:259; 210A1:66; 3:162, 177
 - postrift sedimentation, 210B1:27–28
 - Sulu Sea, 124A11:208–210, 212; 12:315
 - Valanginian, 103A1:11
 - well-logging, 171A_A5:62
- marlstone, calcareous, lithology, 171A_A6:84
- marlstone, iron-stained, photomicrograph, 210A3:152
- marlstone, laminated, photograph, 210A3:191
- marlstone, radiolarian, lithology, 185A4:15–16
- marlstone, radiolarian-bearing calcareous
 - photograph, 185A4:86
 - photomicrograph, 185A4:83–84
- marlstone, recrystallized calcareous, lithology, 185A4:16–17
- marsh environment
 - lithology, 174AXS_A2:22–23; 3:18–19
 - paleoenvironment, 174AX_A1:18
 - Site 750, 120B(1)8:106
- Marshall Paraconformity
 - age models, 189B9:4, 8, 12
 - biostratigraphy, 181A8:17, 19; 181B1:16; 2:1–22
 - Cenozoic, 181B1:11, 14, 41–42, 107
 - Chondrites*, 181B1:107
 - Eocene/Oligocene boundary, 181B1:42–45
 - gateways, 189B1:15
 - hiatuses, 182B4:10
 - lithology, 181A1:29–30; 7:8–11, 14; 8:7–10; 181B1:15; 3:2–3
 - magnetostratigraphy, 181A8:27, 29
 - models, 189B1:6
 - photograph, 181A7:67; 8:55; 181B2:13
 - Powell Basin, 181B1:45–47
 - thermohaline circulation, 181B1:55–56
- mass absorption coefficients, 183B17:2
- mass accumulation rates
 - age models, 173B5:24, 26; 184A5:83; 202A1:16–21; 4:53, 76; 9:75; 10:68, 93; 11:57; 207A1:72; 4:100; 5:22, 105; 6:98; 7:24, 100; 208A3:23, 92; 4:87; 5:19, 73
- aragonite, 165B17:261–262
- Bahamas, 101B29:470
- barium, 127/128B(1)37:660–661, 665; 178B23:28
- biogenic opal, 178B23:7–8; 184B21:2–3
- biogenic silica, 128A4:122, 158; 192A3:17–18
- biohorizons, 144A5:183
- biostratigraphy, 149A5:122; 6:155; 7:218; 157A5:134; 7:384–385; 8:430; 9:479; 10:543; 157B29:501–520; 173B5:9–10; 175B18:5, 20–21; 178B7:10–14; 180A5:76; 184B8:7–8; 199B24:9
- black shale, 207A8:23–24
- Brunhes Chron, 127/128B(1)27:468
- bulk sediments, 138A(1)10:238–239; 165B17:254–255, 270–272
- carbonate and noncarbonate fractions, 165A4:162; 165B6:118–123
- carbonate compensation depth, 115B25:474–475; 185A3:9
- carbonate crash, 206B4:1–24
- carbonates, 114B25:464–465; 120B(2)61:1075; 127/128B(1)25:428; 154B12:192–196; 15:234–235; 18:271; 19:287–289; 21:326; 23:352; 27:396–397; 164A7:221; 165B6:120; 17:261; 167B11:173–175; 172A3:49, 55; 175B1:18, 22–23; 186B11:3–4; 206B2:9–10
- Cenozoic, 145B37:573–574
- chronostratigraphy, 138A(1)10:229; 12:357
- claystone, 127A5:191
- climate optimum, 178B34:6
- climate reversals, 178B34:4–5
- composite depths, 202A1:10
- control points, 138A(1)12:357; (2)13:715
- Cretaceous–Miocene interval, 207A6:27–28
- Cretaceous/Tertiary boundary, 120B(2)54:968–969; 121B20:426–427; 208B1:8, 42
- cyclostratigraphy, 154B7:138–140; 207B2:12
- Demerara Rise, 207A1:43–44
- deposition, 138B28:619–623; 145B14:222–228; 27:416–417, 422–423
- depth to biostratigraphic datums, 131A6:252
- dispersed ash vs. age, 165B6:120–122
- dust, 130B28:471–472, 476–477
- Eocene, 173B4:1–35; 199B20:11–17
- Eocene–Oligocene interval, 115B25:477–478
- Exuma Sound, 101A9:348–349; 10:396–397, 415; 11:444–445; 101B14:205–207
- factors, 114B28:515–516
- geochemical end-members, 121B21:439, 442
- geochronology, 150X_B11:140–141; 182B8:4–6, 18
- glacial fan deposits, 162B10:150–159
- hemipelagic sediments, 131B12:160
- hydrothermal alteration, 135B43:698–699

- ice-rafted debris, 145B11:180–183, 187–194;
163B14:157–166; 178B10:4–5, 12–16, 18
- Indian Ocean W equatorial, 115A1:12–13;
115B25:467–468, 471
- interpolated ages, 165A3:72; 4:162; 5:255; 6:317
- Japan Sea, 127A1:22, 24; 128A1:31
- Jurassic–Cretaceous interval, 129B20:532
- latitudinal transects, 199A1:15–17
- linear sedimentation rates, 198A7:74; 8:73
- lithology, 154A9:421–422; 154B30:467–469;
164A6:147, 149; 9:313–314; 199A8:52; 9:40;
10:15–16, 56; 13:21; 14:17–18; 208A1:95
- Little Bahama Bank, 101A6:130–134; 7:223–224;
8:278–279; 101B14:205–206
- low-resolution reconstruction, 154A9:436
- magnetostratigraphy, 141A6:93
- marine organic matter, 186B11:4–6
- Mascarene Plateau, 115A5:236; 115B25:475, 490–492
- Mesozoic, 129B2:31
- middle Eocene–Paleocene interval, 207A6:62
- middle Miocene, 205B1:14–15
- middle–early Holocene, 201B15:6, 14
- Miocene, 145B38:591–592; 165B5:111, 113
- models, 175B9:6–7
- Mogan interval, 157B15:262
- Neogene, 101B29:471; 144A3:70–71; 144B54:953–
971; 151B32:569–582; 198A3:87; 198B1:14
- Neoglacial, 178B34:6–8
- noncarbonated sediments, 120B(1)13:189
- Northwest Providence Channel, 101A12:496–497;
13:533–534
- Oga Peninsula, 127/128B(2)76:1204
- Oligocene/Miocene boundary, 115B25:472, 475
- organic carbon, 127/128B(1)25:425, 428; 151A5:86;
9:288, 291; 13:413–414; 151B22:393, 397;
152B24:285, 292; 162A7:245; 172A3:49, 55;
4:116–119, 123, 126; 5:205, 208, 213; 6:279;
175B1:18, 22–23
- organic materials, 130B34:574–575; 131B5:62;
157B21:364
- Paleocene/Eocene boundary, 208A6:31–32
- paleoproductivity, 130B44:737; 131B30:381–382
- pelagic cap, 144A4:128–129; 5:181; 144B41:675–689
- pelagic interbeds, 157A6:164–165, 172
- perimeter ridges, 144B53:946
- phosphorus, 154B32:479–481
- physical properties, 173B4:29; 199A15:11
- Pliocene, 115B25:479–480; 130B44:736–737
- Pliocene–Pleistocene, 149B5:160; 182B1:7–9
- Pliocene–Quaternary interval, 160B19:228
- productivity, 146B(2)8:112–115
- radiometric dating, 142B5:38
- sediment flux, 145B34:501–503; 183B7:7–8
- sediment thickness, 190A1:34, 84
- sedimentation, 165A8:377–380; 184A1:37–38
- sediments, 129B2:32, 39, 57; 131B5:60; 141A6:85;
146B(1)26:386–387; (2)9:130; 154A5:185, 188–
189; 6:251; 7:308; 8:363; 155A6:104;
157A5:131–132; 160B19:231, 234, 237, 240;
162B14:206–207; 165B2:22–23; 171B_A5:190,
196; 6:273–274; 7:329; 175B1:3, 18, 22–23;
11:8; 178B3:1–20; 180A5:27; 202B2:3–4;
206A3:43–46; 207A8:91
- seismic units, 157B28:495
- silica, 167A(1)4:78
- siliceous claystone, 127A5:191
- Site 699, 114B32:604; 33:625, 628
- Site 701, 114B32:604; 33:625, 628
- Site 704, 114B25:465; 28:521–522; 33:625–6278
- Site 708, 115A6:403; 115B25:476, 492–494
- Site 709, 115A7:461–462; 115B25:477, 494–497
- Site 710, 115A8:591; 115B25:478, 497–500
- Site 711, 115A9:657, 659; 115B25:479, 500–502
- Site 714, 115A11:848, 850; 115B25:480, 502–504
- Site 751, 120B(1)13:182, 188–189
- Site 752, 121B20:426–428
- Site 794, 127A4:72, 105–107
- Site 795, 127A5:174, 203–204
- Site 796, 127A6:250–251, 277–278, 281–282
- Site 797, 127A7:324, 359–362
- Site 798, 127/128B(1)24:409–420; 25:428; 26:446;
32:563–564; 128A1:31; 4:124–125, 171, 176–
177
- Site 799, 128A1:31; 5:244, 259–260, 315–316, 324
- Site 801, 129B2:40
- Site 808, 131A6:213
- Site 848, 138A(2)13:701–704
- Site 849, 138A(2)14:753
- Site 850, 138A(2)15:838–843
- Site 871, 144B54:964–966
- Site 872, 144B54:967
- Site 873, 144B54:969–971
- Site 950, 157A4:87, 89; 157B29:509–510
- Site 951, 157B29:510
- Site 952, 157A6:164–165; 157B29:510, 513–514
- Site 953, 157A7:372
- Site 954, 157A8:422–424
- Site 955, 157A9:468
- Site 956, 157A10:533–534
- Site 998, 165A3:69–71
- Site 999, 165A4:161–163
- Site 1000, 165A5:252–254, 275
- Site 1001, 165A6:315
- Site 1143, 184A4:17–18
- Site 1144, 184A5:13
- Site 1145, 184A6:10
- Site 1146, 184A7:13–14
- Site 1147, 184A8:7
- Site 1148, 184A9:16
- Site 1207, 198A3:26
- Site 1208, 198A4:22–24
- Site 1209, 198A5:24–25
- Site 1210, 198A6:21–23
- Site 1211, 198A7:21–22
- Site 1212, 198A8:19–20
- Site 1213, 198A9:25–26
- Site 1214, 198A10:12–13
- Site 1215, 199A8:13–15
- Site 1216, 199A9:9
- Site 1217, 199A10:14–16
- Site 1218, 199A11:23–25
- Site 1219, 199A12:24–25

- Site 1220, 199A13:20–21
 Site 1221, 199A14:17–18
 Site 1222, 199A15:11–12
 Site 1232, 202A3:14
 Site 1233, 202A4:16–17
 Site 1234, 202A5:15
 Site 1235, 202A6:16–17
 Site 1236, 202A7:19–20
 Site 1237, 202A8:25–26, 107
 Site 1238, 202A9:23–24, 101
 Site 1239, 202A10:22–23
 Site 1240, 202A11:17–18, 82
 Site 1241, 202A12:18–19
 Site 1242, 202A13:15–16, 74
 Site 1262, 208A3:23
 Site 1263, 208A4:25
 Site 1264, 208A5:19
 Site 1265, 208A6:31–32, 107
 Site 1266, 208A7:24–25, 79
 Site 1267, 208A8:25–26
 Sites 1054–1055, 172A3:48–49
 Sites 1056–1059, 172A4:104–107, 113–116
 Sites 1060–1062, 172A5:201–207
 Sites 1063–1064, 172A6:268–271
 Sites 844, 845, and 846 comparison, 138A(1)11:301
 Straits of Florida, 101A5:64–65
 stratigraphic interval, 101B29:470
 stress, 207B15:11–13
 sulfate, 127/128B(1)36:637, 646
 surface sediments, 138A(1)8:101–115
 tephra layers, 165B20:301
 terrigenous component, 165B6:120–121;
 167B18:228–229
 time intervals, 138B35:730–731
 total organic carbon, 151A5:87; 151B22:405;
 162A7:247; 164A7:221; 164B5:53
 turbidites, 149B10:289, 294; 157B38:626–627;
 180B9:29
 unconformities, 208A1:5; 7:24–25
 upper Pleistocene, 202A3:14, 101
 vs. age, 138A(1)11:306; 12:366; 145B11:182–185;
 20:295–300; 21:319–320; 146B(2)7:101; 8:113;
 11:166; 152B24:292; 154B18:280; 165A3:71;
 4:163; 5:253–254; 6:318; 8:383; 167B11:177–
 181; 173B4:20; 175B11:21; 178B10:18;
 184B8:36–37; 16:8; 19:14; 21:7; 198A1:133;
 199A11:63; 13:52; 14:37; 15:29; 202A7:57, 74;
 8:71–72; 9:75; 10:68; 12:73; 13:53; 206A3:153;
 206B2:22; 4:21; 208A1:66, 70, 73, 76, 79, 83, 94,
 96; 3:60; 4:25, 68; 5:53; 6:86; 7:61; 8:59, 77
 vs. calibrated age, 178B34:14
 vs. color bands, 130B44:731
 vs. composite depth, 138A(1)11:305
 vs. depth, 130B44:729–733; 131A6:254;
 138A(1)9:166–167; 12:365; 144B54:957, 959,
 963; 145A3:49; 4:104; 5:150; 6:240; 8:358;
 145B16:251–253; 149B45:703; 164A6:149;
 7:221; 9:313–314; 164B5:54; 165A3:71–72;
 4:162–163; 5:253; 6:317; 8:379–380; 172A4:117,
 120, 124, 127; 5:205, 208, 215; 6:279;
 184A1:55–65; 9:70; 184B1:6; 198A1:101–102,
 106, 110, 120, 125, 140; 3:55; 4:36, 60; 5:38, 63;
 6:33–34, 55; 7:33, 51; 8:30, 48
 vs. linear sedimentation rates, 184A4:56; 5:51; 6:36;
 7:53; 8:21; 9:64
 vs. time, 131A6:254
See also calcite flux; sedimentation rates
 mass accumulation rates, aluminosilicates, 162B14:205
 mass accumulation rates, aluminum
 Pacific Ocean E, 138A(1)8:106
 Site 848, 138A(2)13:701, 716
 Site 850, 138A(2)15:839, 849
 vs. age, 138A(2)13:716; 15:862; 199A1:69
 vs. depth, 138A(2)15:862
 mass accumulation rates, apparent
 Site 699, 114B31:593–594; 32:600, 603–607
 Site 701, 114B31:594; 32:604–607
 Site 704, 114B31:595; 32:604, 606–607
 vs. ice-rafted debris, 114B32:606
 mass accumulation rates, barium, 162B14:205;
 199B20:29
 mass accumulation rates, benthic foraminifers,
 175B1:11–12
 mass accumulation rates, biogenic component
 opal, 202A1:96
 paleoproductivity, 199B1:9–10
 sediments, 129B32:608; 199B21:8–16
 Site 704, 114B28:527–528
 vs. age, 199B20:28
 mass accumulation rates, biogenic silica
 Pacific Ocean E equatorial, 138A(2)15:838–839
 vs. age, 199B21:24
 mass accumulation rates, bulk
 carbonates, 151B32:575, 576
 marine isotope stages, 172B11:20
 Neogene, 151B32:570–571
 sediments, 151B31:518–524; 181B1:102, 104; 3:11–19
 vs. age, 145B15:243; 151B31:558–559; 32:579, 581;
 181B3:9; 199A12:68; 206B4:22
 vs. productivity, 199B1:33
 mass accumulation rates, calcium
 vs. age, 199A1:67; 7:13
 vs. paleolatitude, 199A1:72
 mass accumulation rates, carbonate
 bathymetric variations, 115B25:486
 bottom-current velocities, 115B25:473–474
 bulk density, 115B26:511–512
 dissolution effects, 115B25:473, 482–483; 26:513
 Eocene, 115B25:481
 Eocene/Oligocene boundary, 115B25:481
 Eocene–Oligocene interval, 115B25:477–478
 Gauss/Matuyama boundary, 115B26:511–512
 glacial–interglacial cycles, 115B25:475, 478–479
 grain size, 115B25:485
 Indian Ocean W equatorial, 115B25:467–507
 Madingly Rise, 115B25:475–477
 magnetostratigraphy, 115B26:510–511, 515
 maps, 138B35:736–742; 42:834–835
 Mascarene Plateau, 115A5:236; 115B25:472–475, 484,
 490–492
 Miocene, 115B25:477, 482–485; 138B1:13–14
 Neogene, 138B19:452–455

- Oligocene, 115B25:481–482
 Oligocene/Miocene boundary, 115B25:475–476, 479–480
 Owen Ridge, 117A1:35, 40
 Pacific Ocean E, 138A(1)8:102, 109–110; 138B1:14–16; 14:324–333
 paleobathymetry, 138B42:827–830
 Paleogene, 115B25:481–482
 Pliocene, 115B25:479–480; 26:509–510
 Quaternary flux rates, 115B25:484–485
 sedimentary regimes, 115B25:480–487
 sedimentation rates, 115B25:471
 sediments, 165B17:259–261; 181B1:102, 104
 Site 708, 115B25:474–476, 492–494
 Site 709, 115B25:477, 484, 494–497
 Site 710, 115A8:591; 115B25:478, 497–500; 26:510
 Site 711, 115A9:657; 115B25:477–480, 500–502
 Site 714, 115B25:480, 502–504
 Site 846, 138A(1)11:305
 Site 850, 138A(2)15:843
 subsidence history, 115B13:126
 surface productivity, 115B25:467, 473, 484; 26:513–515
 vs. age, 138A(2)13:721, 732; 14:735, 743, 746, 750, 786; 15:866; 16:942; 18:1054; 19:1089; 138B27:611; 144B42:696–700, 711–712, 715–721; 145B16:253; 20:295–300; 146B(2)8:113; 162B14:205; 165B17:250; 184B21:7; 186B11:14–15; 199B21:24–25, 29; 202A1:95, 109; 206B4:22
 vs. carbon isotopes, 206B4:21
 vs. depth, 138A(1)8:109; 138A(2)13:720; 14:785; 15:865; 16:941; 17:1004; 18:1053; 19:1086; 144B54:957, 959, 963
 vs. linear sedimentation rates, 184A1:71–72
 vs. organic carbon mass accumulation rate, 146B(2)8:114
 vs. rain-preserved calcium carbonate, 199B21:26
 vs. water depth, 138B42:832
 vs. weight percentage, 145B21:315–325
 winnowing effects, 115B25:473, 482–483
 zero isopleth, 115B25:485
 mass accumulation rates, chlorin, 175B23:38–41
 mass accumulation rates, chlorite, 145B15:244
 mass accumulation rates, diatom, 146B(2)17:235–240
 mass accumulation rates, echinoids, 175B1:14
 mass accumulation rates, eolian
 upper Pleistocene, 198B19:2, 5
 vs. age, 144B42:721–722
 vs. depth, 144B54:957, 959, 963; 198B19:5
 mass accumulation rates, fish debris, 175B1:15
 mass accumulation rates, foraminifers, 175B1:11
 mass accumulation rates, inorganic carbon, 138A(2)17:1005
 mass accumulation rates, iron
 Site 848, 138A(2)13:701, 716
 Site 850, 138A(2)15:839
 vs. age, 138A(2)13:716
 mass accumulation rates, iron oxide
 Site 850, 138A(2)15:840–842, 849
 vs. age, 138A(2)15:862
 vs. depth, 138A(2)15:861–862
 mass accumulation rates, kaolinite, 145B15:244
 mass accumulation rates, magnetic minerals, 108B25:418–419, 422, 424
 mass accumulation rates, manganese
 Japan Sea, 127/128B(1)6:90–91
 Pigafetta Basin, 129B32:588–589, 594–598
 rate vs. distance to Lau Spreading Center, 135B43:703, 705
 Site 848, 138A(2)13:701, 716
 Site 850, 138A(2)15:839–840
 vs. age, 138A(2)13:716
 mass accumulation rates, mean, Pliocene–Pleistocene, 159B41:562–563
 mass accumulation rates, nannofossil, 138B9:168, 171
 mass accumulation rates, noncarbonate
 Mascarene Plateau, 115B25:475, 490–492
 Neogene, 115B25:477
 Oligocene/Miocene boundary, 115B25:479
 Pliocene, 115B25:479–480; 26:512
 Site 708, 115B25:476, 492–494
 Site 709, 115B25:477, 494–497
 Site 710, 115B25:478, 497–500
 Site 711, 115B25:478, 479, 500–502
 Site 714, 115B25:480, 502–504
 vs. age, 144B42:698, 710–720; 154A4:119; 6:257; 7:309; 8:391; 9:437; 202A1:95
 vs. depth, 144B54:957, 959, 963; 154A4:119; 5:194; 6:257; 7:309; 8:390
 mass accumulation rates, noneolian, 144B42:722
 mass accumulation rates, opal
 lateral sediment supply, 178B23:10–11
 maps of mean concentration, 138B35:736–742
 Neogene, 138B19:452–455
 Pacific Ocean E, 138A(1)8:102–103, 111–112; 138B1:14–16
 power vs. frequency, 175A3:53
 relation to weight percentage, 145B21:315–325
 Site 848, 138A(2)13:726
 Site 850, 138A(2)15:840–842
 Sites 885–886, 145B14:228
 vs. age, 138A(2)13:716; 15:862; 138B35:733, 743, 749; 144B42:711; 145B16:252; 20:295–300; 178B23:26–31
 vs. depth, 138A(2)15:862
 vs. opal content, 178B23:9–10
 mass accumulation rates, organic carbon
 geochemistry, 138A(2)16:921
 Pacific Ocean E, 138A(1)8:103, 113–114
 sediments, 146B(2)9:134–135
 Site 846, 138A(1)11:305
 Site 848, 138A(2)13:703–704, 720–721
 Site 850, 138A(2)15:843
 vs. age, 138A(2)13:721; 14:786; 15:866; 16:942; 17:1005; 18:1054; 138B27:611; 146B(2)8:113; 186B11:14–15; 199B21:24; 206B4:22
 vs. depth, 138A(2)13:720; 14:785; 15:865; 16:941; 17:1004; 18:1053; 172A3:56
 vs. latitude, 138A(1)1:11
 vs. measured new productivity, 146B(2)8:108

- mass accumulation rates, organic matter
 Site 851, 138A(2)16:921
 Site 852, 138A(2)17:997
 Site 853, 138A(2)18:1042
 Site 854, 138A(2)19:1083
- mass accumulation rates, pelagic, 157A5:131–132
- mass accumulation rates, phosphorus, 138B36:762–763;
 199A1:69
- mass accumulation rates, phosphorus oxide
 Site 850, 138A(2)15:840–842, 849
 vs. age, 138A(2)15:862
 vs. depth, 138A(2)15:862
- mass accumulation rates, plagioclase, 145B15:244
- mass accumulation rates, planktonic foraminifer,
 138A(2)15:847; 138B19:455
- mass accumulation rates, radiolarian, 175B1:13
- mass accumulation rates, sediments
 Baffin Bay, 105A4:102
 basement, 107A7:326
 Brunhes Chron, 107B21:337
 carbonates, 107A8:433
 compaction, 105B40:788
 Cornaglia Terrace, 107A9:612
 dropstones, 105B5:67–68
 Eocene–Oligocene interval, 105B11:159, 161;
 124B33:449–452
 Indus Fan, 117A7:157, 169
 Kerguelen sediment ridge, 119B18:373
 Labrador Sea, 105A6:708, 712
 magnetostratigraphy, 107B38:678
 Marsili Basin, 107A6:141–142, 168–169
 modern surface sediments, 138B42:824–826
 noncarbonates at Cretaceous/Tertiary boundary,
 119B47:854
 organic carbon correlation, 119B18:364
 Owen Ridge, 117A9:221–222, 227; 10:273–274, 279,
 281
 oxidation-reduction potential, 119B18:367
 Pacific Ocean E, 138B6:92, 96–101; 35:730–731
 Sardinian margin, 107A8:419; 107B20:332
 Site 844, 138A(1)9:150–151
 Site 860, 141A7:172
 Site 861, 141A8:251
 stable isotopes, 138B39:803–805
 Tortonian, 107B1:22
 Tyrrhenian Sea, 107A7:303
 upwelling influence, 117A9:243–244
 vs. age, 138A(2)13:721; 14:786; 15:866; 16:942;
 17:1005; 18:1054; 19:1089
 vs. depth, 138A(2)13:720; 14:785; 15:865; 16:941;
 17:1004; 18:1053; 19:1086; 141A6:87; 7:175–
 176; 8:251
- mass accumulation rates, silica
 middle Eocene, 199B24:6
 Site 848, 138A(2)13:701, 716
 Site 850, 138A(2)15:849
 vs. age, 199A1:67; 7:13
 vs. paleolatitude, 199A1:71
- mass accumulation rates, terrigenous
 mean concentration maps, 138B35:736–742
 synthesis, 144B42:691–736
- vs. age, 138B35:734, 743; 145B15:243, 253
- mass accumulation rates, titanium, 199A7:13
- mass accumulation rates, total
 linear sedimentation rates, 202A1:93
 vs. age, 162B14:205; 184A1:71–72
 vs. linear sedimentation rates, 184A1:71–72
- mass accumulation rates, total organic carbon
 sediments, 181B1:102, 104; 3:11–19
 vs. age, 145B20:296–209; 162B14:205; 175B23:39–41;
 202A1:96, 108; 206B4:22
 vs. weight percentage, 145B21:3158–325
- mass accumulation rates, volcanic ash, 206B4:23
- mass balance
 alteration, 169A3:96–101
 chemistry, 139B11:223–226
 erosion, 157A1:7–8
 methane, 164B7:76; 22:225–226
 vs. sea-surface temperature, 188B14:32
 See Gresen's calculation
- mass boundaries, biogeography, 183B4:17
- mass chromatograms. *See* chromatograms, mass
- mass extinctions, Cretaceous/Tertiary boundary,
 165A1:7; 174AXS_A(summary):2
- mass flow deposits
 Barremian to Aptian, 149A6:203
 basement, 149A4:110
 breccia, 149A6:167–168
 deposition, 149A4:59–62
 depositional-tectonic models, 160B37:478–479
 Kerguelen Plateau Central, 120B(1)10:140, 144
 lithology, 139A5:110; 149A5:119; 155A7:163, 165;
 9:232; 19:573; 172A3:39–40; 4:93; 178A7:5–6;
 180A7:8, 10; 184A9:11; 190A6:5; 210A4:5–6;
 210B9:8–11
 location, 172A3:40
 lower Pliocene, 160B37:465–481
 Miocene, 135B6:87–100
 Neogene, 150B14:280
 ocean–continent transition, 149B47:719–722
 parallel laminations, 205A4:20
 photograph, 143A9:323; 150A6:75; 155A19:573;
 172A3:40; 210A3:179; 4:20
 schematic representation, 143A9:324
 sedimentation, 135B3:44
 sediments, 155A9:227–228; 10:265; 174A_B(synop-
 sis):8
 serpentinite breccia, 149B35:572; 36:584–585
 serpentinite tectonic models, 210B9:28
 structure, 210A3:168
 synrift sedimentation, 210B1:26–27
 turbidites, 173B6:2–4
 volcanoclastics, 183A4:13
 See also debris flows; gravitational sliding; gravity flow
 deposits; landslide deposits; mass movements;
 mass transport deposits; mass wasting; rock
 falls; slope failures; slump deposits; talus
- mass flow deposits, distal, lithology, 194A5:8
- mass flow deposits, subaqueous, photograph,
 210A3:132, 146–147, 157, 214
- mass flow unit, stratigraphy and tectonics, 160B37:465–
 481

- mass fragmentograms, organic matter, 139B24:449–456
- mass movements
- carbonates, 130B3:46
 - photograph, 171B_A4:115
 - Site 804, 130A10:504
 - See* mass flow deposits; mass transport deposits
- mass pyrograms, volatiles, 142B3:27
- mass spectra
- bacteria, 201A7:23
 - basalts, 163B10:113–117
 - carbonates, 146B(1)6:121
 - hexane eluates, 208A6:71
 - See also* inductively coupled plasma–mass spectrometry data
- mass spectra, FISH-secondary ion, incubation, 201A6:22
- mass spectra, inductively coupled (ICP-MS), 126B31:469, 477–478
- mass transfer
- alteration, 193B1:64
 - hydrothermal systems, 147B10:205, 207
 - subduction, 185B11:1–14
 - volcanic rock, 183B17:2
- mass transport deposits
- age, 155B6:134–135
 - correlation, 155B39:603
 - fabric, 155B27:452, 460–464
 - grain size, 155B2:7–52
 - interglacial deposits, 155B20:355
 - lithology, 150A6:69, 71; 155A11:310–312; 17:526, 528; 20:601; 155B40:635; 164A5:79–81
 - Oligocene–Holocene interval, 150B11:189–228
 - photograph, 150A9:268–271; 155A7:136; 8:184; 20:601–603
 - physical properties, 155B6:130, 132; 29:491–492
 - sedimentation, 155B41:663, 665
 - sediments, 155A11:310, 313; 164A8:247–249
 - seismic stratigraphy, 155B6:109–146
 - slumps, 174A_B(synopsis):8
 - stable isotopes, 155B19:335–352; 20:353–365
 - stratigraphy, 155B38:591, 594
 - tomography, 155B28:465–475
 - See also* debris flows; gravity flow deposits; landslide deposits; mass flow deposits; mass wasting; slump deposits; slumps
- mass transport facies, correlation, 150B11:216
- mass/volume moisture and density, 201A8:48–49; 9:48–49
- mass wasting
- alteration, 118B25:435
 - deposition, 150A9:299
 - downslope transport, 150B11:221–226
 - evidence, 130B3:41–44
 - hydrothermal fields, 158A1:8
 - Izu-Bonin-Mariana arc, 126B42:640
 - lithology, 150A10:312–316
 - magnetization, 147B24:413
 - neovolcanic zones, 158A2:18–21
 - ocean–continent transition, 149B47:729
 - Pigafetta Basin, 129B5:146
 - ridge/transform intersection, 118B25:431
 - sedimentation, 134A7:125
 - sediments, 173A1:12–15
 - seismic reflectors, 157B2:23–26
 - submarine canyons, 150B15:291
 - tectonic erosion, 134A2:29–30
 - tektites, 150B13:259
 - volcanoes, 144B33:570
 - See also* debris flows; gravity flows; mass flows; slump deposits
- massive basalt. *See* basalts, massive
- massive deposits
- stratigraphy, 158A7:67–68
 - See also* sulfides, massive
- massive diamict facies, lithofacies, 178A6:5–6
- massive facies, lithology, 178A5:5, 10–12; 8:3–6; 178B25:4–5
- massive flow unit, photomicrograph, 192A1:69
- massive layers, lithofacies, 146B(2)22:296–299
- massive units, basalts, 148A3:129
- master column, lithology, 159A5:125–133
- materials balance, crystal melt equilibria, 135B27:499–502
- matrix
- breccia, 173A7:188–189; 173B1:1–14
 - calcareous chalk, 173A7:175–177
 - deformation, 173A4:198–199; 9:285–288
 - depth of origin, 160B50:669
 - diagenesis, 160B45:587
 - lithology, 160A11:383; 12:431; 160B45:586–587; 183A5:176
 - micrite, 173A7:176–177
 - mineral composition, 180B8:32–33
 - mud breccia, 160B46:599; 50:668
 - mud volcanoes, 160B45:575–595
 - petrography, 160B37:471; 45:579–580
 - petrology, 173A9:279
 - Pigafetta Basin, 129B6:155
 - sediment matrix density, 102B3:39
 - sieving vein fillings, 127/128B(2)75:1179–1180
 - volcaniclastics, 180B7:7; 8:4
 - vs. carbon and oxygen isotopes, 144B13:265
 - vs. depth, 144B13:262; 180B7:30–34, 39–42; 183A5:86; 6:140
 - See also* carbonate-clay matrix; silt matrix; vesicles/matrix ratio
- matrix, anhydrite, photograph, 193A4:180
- matrix, chloritic, photograph, 210A4:21
- matrix, clay-rich, photograph, 193A3:122
- matrix, glassy, photomicrograph, 180A10:34
- matrix, pyrite, photograph, 193A4:180
- matrix, quartz, photograph, 193A4:180
- matrix, quartz-breccia, photomicrograph, 193A4:140
- matrix, quartz-pyrite, photomicrograph, 193A4:145
- matrix, quartz-rich, photograph, 193A4:144
- matrix, sparry calcite, photograph, 210A4:22–23
- matrix-supported breccia. *See* breccia, matrix-supported
- mats, laminated
- diatoms, 138B29:629
 - paleoceanography, 138B30:641–645
 - sedimentation, 138B35:727
 - See also* diatom mats

- maturation
 biomarkers, 135B41:672–673
 bitumens, 139A7:487–490; 169A3:119–120
 hydrocarbons, 131B15:187–189; 139A7:321–325
 lipid/bitumen ratio, 139B24:447–465
 organic matter, 131A6:190; 139A5:124; 141B9:119–132; 143B12:181–182; 157A6:166; 157B21:369; 164A9:298; 166A6:91; 7:160; 8:188; 9:250–251; 169A4:178; 6:285–287; 180B10:5–7; 190A1:35; 9:21
 phytane, 156A6:147
 reflectance, 139B27:491–493; 28:499–504; 180B10:6
 sediments, 139B35:566–569; 169A5:222–225
See also thermal maturation
 maturation, geothermal
 fluorescence, 141A9:327–329
 organic matter, 141A8:270–272
 sediments, 135B44:712–713
 maturity index, vs. depth, 157A6:173
 Matuyama/Brunhes boundary
 Atlantic Ocean E tropical, 108A9:628; 108B27:441–446
 Baffin Bay, 105A4:144
 biostratigraphy, 127/128B(1)12:208; 128A4:161; 5:305; 133B11:138; 145B7:134–139; 149A7:231; 167B6:120; 175A12:354; 177A4:12–13; 8:12; 177B14:8; 181A3:13; 6:15–16; 182A9:13; 188B13:11
 Bonin arc-trench system, 126B23:341–351
 carbon isotopes, 130B23:404
 carbonate/oxygen isotope stratigraphy, 104B9:257
 carbonates, 104A4:65
 Cenozoic, 133B38:547–548
 chronostratigraphy, 167B7:130; 10:155; 188B14:10–11
 correlation, 133A(1)15:629–631; 133B40:585; 49:729; 145B34:494, 498; 151A6:129; 162B(appendix):275
 cyclic oscillations, 133B49:740
 deep-sea sediments, 185B7:7–9
 grain size, 182B15:4
 hematite, 127/128B(2)62:972
 hiatuses, 114B33:630
 Indus Fan, 117A8:166
 Lima Basin, 112A11:186; 19:827; 112B22:370
 lithology, 181A1:25
 long-core data, 189A5:37
 magnetic anomalies, 139B1:22
 magnetic properties, 127/128B(2)62:974; 128A4:172; 151A6:127; 172A6:268; 182A10:51
 magnetic polarity, 104B41:905; 136A5:69; 145B32:475–482; 157B6:57–69; 9:109; 172A7:318–320; 177A6:11–12; 8:14–15; 9:11; 180A5:29–30; 6:51, 158
 magnetic polarity transition field behavior, 127/128B(2)62:970–974, 978
 magnetic reversals, 127A1:22; 133A(1)8:264; 145A4:101; 8:364; 166A8:186
 magnetostratigraphy, 104A4:166; 104B40:845; 41:903–910; 132B3:42–43; 4:54; 135A(1)4:117; 136B3:47–48; 138B38:785, 791, 794; 149A4:72, 129; 152B22:268–269; 160B5:64–66, 70; 161A4:77; 5:140; 161B13:162; 162A3:70–73; 4:112; 5:154, 156; 6:189; 7:241; 10:358; 162B8:113–116; 9:135; 10:151; 166A6:89; 7:159; 167A(1)6:141; 7:187; 12:325; 13:364–366; 14:400; 167B28:311–318; 168A6:175; 172A3:46–47; 4:99–100, 114–115; 5:186–188; 6:263; 7:316–317; 173B11:9–13, 21–23; 174A_A3:68–69; 4:120; 5:169–170; 175A3:70; 4:98; 5:127; 9:252–254; 10:292; 11:322; 12:364; 15:470; 178A1:11; 4:18; 5:16; 8:11; 178B36:9; 37:13; 180A1:4; 9:37; 182A1:40; 7:18; 8:20; 10:22; 12:18; 186A5:23; 201B16:4
 magnetostratigraphy, 133A(1)5:153; 6:187; 7:213–214; 12:466–468
 Mariana Basin E, 124E_A18:124
 microtektites, 121B25:489–490
 Milankovitch cycles, 17:526
 oceanic crust, 193A1:4–5
 Oman margin, 117A12:396; 14:454–455; 117B5:131; 7:167–168, 172, 175
 organic carbon, 104B6:197–199
 Owen Ridge, 117A10:268; 19:603; 117B8:165
 oxygen isotopes, 121B15:306; 177B(synthesis):44; 178A8:12
 paleoclimate cycles, 130B21:387, 390
 paleomagnetism, 104A6:637; 105A5:459
 Peru margin, 112A20:915
 Pisco Basin W, 112A18:715; 112B23:393
 Pliocene–Quaternary paleoclimatology, 104B6:213–214
 Quaternary, 130B21:369; 29:501
 remanent magnetization, 160A7:177, 179; 10:356–357; 13:458; 14:481
 Salaverry Basin, 112A12:268, 273; 13:320, 327; 112B21:357; 22:370; 23:393
 sedimentation, 107A7:327; 127/128B(2)61:961; 151A13:417–418; 172A7:311; 181A7:10
 sediments, 149B21:322–323, 327, 333; 164A6:119; 7:189; 8:258; 9:292; 177A1:13–16; 4:14; 182A1:13, 26, 29, 34; 184A1:21, 23; 4:16; 6:10; 7:13; 8:6; 9:15; 186A1:11, 14; 190A4:15; 5:19; 190A6:12; 7:11; 194A3:12; 202A7:16; 8:21; 11:14; 12:14
 sequence stratigraphy, 174A_B(synopsis):5
 Sierra Leone Rise, 108A13:931
 Site 701, 114A8:395; 114B20:361
 Site 704, 114B11:224
 Site 745, 119B43:752
 Site 765, 123A4:132; 123B38:723
 Site 790, 126A7:170
 Site 791, 126A7:163
 Site 794, 127/128B(1)12:218, 224; (2)62:970; 77:1221
 Site 795, 127A5:199; 127/128B(2)62:972; 77:1223
 Site 797, 127/128B(1)12:218, 224; (2)62:973
 Site 798, 127/128B(1)10:164; 32:563; (2)62:973; 77:1224; 128A4:30, 156, 165, 167
 Site 799, 127/128B(2)62:974; 77:1224; 128A5:314
 Site 807, 130A9:409
 Site 832, 134A12:423
 Site 833, 134A13:511; 134B26:469–471

- Site 852, 138A(2)17:987
 Site 881, 145A3:51
 Site 883, 145A5:146
 Sites 1173–1174 comparison, 190A5:19–20
 Sites 885–886, 145A7:311
 Sites 1060 and 1063 comparison, 172A7:319
 stratigraphy, 151A10:331; 184B2:9
 summary, 206A1:24
 virtual geomagnetic poles, 121B17:377; 145B32:480
 volcanoclastics, 157A9:454
 vs. depth, 182A8:46; 182B15:9
 vs. gamma ray attenuation density, 138A(1)6:87
 water masses, 164B34:359
- Matuyama Chron
- Antarctic regions, 114B5:98
 bioevents, 135B54:872–873, 876
 biohorizons, 167B1:17
 biostratigraphy, 117B7:172; 128A4:159; 149A7:231;
 175B(synthesis):33–35; 177A4:13; 5:15; 6:9, 12;
 177B(synthesis):21; 177A8:13; 181A3:11
 Bonin-Mariana region, 125B2:22
 carbonate/oxygen isotopes, 104B9:255–259
 carbonate platforms, 166A3:31, 33
 chronostratigraphy, 177A5:18
 core orientation data, 135A(1)8:363
 correlation, 132B2:29; 4:51–55; 162B(appendix):275
 deep-sea sediments, 185B7:7
 glacial–interglacial cycles, 151B28:477–482
 lithology, 181A1:30
 magnetic excursions, 172A6:266
 magnetic intensity, 151A6:127
 magnetic polarity, 135A(1)4:117; 5:208–209; 7:311;
 9:423–424; 11:615–619; 177A6:11; 8:14; 9:11;
 180A5:29–30; 181A7:28–32; 9:17
 magnetostratigraphy, 104B40:841, 843; 131A6:156;
 135B46:737–762; 136B3:47–48; 138B38:788;
 145B1:9–13; 149A4:72; 5:129; 152A11:221;
 160B5:64–69; 13:178; 162A3:71; 4:112; 5:154;
 6:189; 7:241; 9:306; 10:358; 162B8:113–114,
 10:151, 154–155; 17:243; 166A10:310;
 167A(1)10:256; 168A4:78; 172A3:46; 4:99–100;
 5:186–188; 6:263; 7:316–317; 173B11:12–13;
 174A_A3:65, 68; 4:120; 175A8:211; 9:252–254;
 178B37:13; 180A9:37; 181A6:22; 8:25–27;
 182A1:23, 31, 37–38; 5:17; 6:24; 7:18; 9:15–16;
 10:22; 11:11; 191A1:16–17; 4:25; 201B16:4
 magnetozones, 133A(1)7:214; 12:466–468; 15:629–
 631
 opal maximum, 175A17:513, 518, 526–528
 paleomagnetism, 104A5:485
 remanent magnetization, 130B32:547–559; 160A4:63,
 78; 5:104; 6:136, 143; 7:177, 179; 8:234
 sediments, 149B16:323; 157A4:75–76; 5:122; 6:153;
 159A5:94; 159B43:599–600; 173B11:8–10;
 177A1:15–16; 182A1:26; 190A4:15; 5:19; 6:13;
 7:11; 8:13; 194A8:15; 202A11:14
 sequence stratigraphy, 166A3:37
 Site 704, 114A11:637; 12:802; 114B23:419–420;
 30:580–583
 Site 723, 117A11:332; 117B7:165
 Site 727, 117B5:131
- Site 737, 119B43:757
 Site 744, 119A13:490
 Site 782, 125B32:548
 Site 783, 125A11:265; 125B32:551
 Site 786, 125B32:552
 Site 792, 126A8:255–256
 Site 796, 127A6:275
 Site 797, 127/128B(2)62:973
 Site 798, 128A4:124, 170
 Site 803, 130A5:128
 Site 805, 130A7:248
 Site 832, 134A12:422–423
 Site 833, 134A13:509, 511, 514; 134B26:469–471
 Site 842, 136A4:43–44
 Site 851, 138A(2)16:912–916, 924–927
 Site 852, 138A(2)17:993
 Site 853, 138A(2)18:1041
 Site 854, 138A(2)19:1075–1077, 1080
 Site 859, 141A6:93
 Site 889, 146A(1)5:163
 Site 902, 150A6:87
 spectral analysis, 114B30:580–581
 stratigraphy, 151B3:53–54; 177A9:12
 volcanoclastics, 157A9:454
 water masses, 164B34:359–361
See also early Matuyama diatom maximum; Gauss/
 Matuyama boundary; late Matuyama diatom
 maximum
- Matuyama diatom maximum
- Miocene–Pleistocene interval, 175B(synthesis):89–90;
 6:4–5
 silicate expansion, 175A17:527; 175B(synthesis):43
 upper Pliocene, 177B(synthesis):8
See also early Matuyama diatom maximum; late
 Matuyama diatom maximum
- Matuyama/Jaramillo boundary
- biostratigraphy, 145B7:134–139
 depth tabulations, 117A10:272
 magnetostratigraphy, 128A4:172; 133A(1)8:264;
 152B22:268
- Matuyama/Olduvai boundary
- correlation, 133A(1)5:153
 magnetostratigraphy, 104B41:903–910; 133A(1)8:264;
 133B39:566; 49:725–726
- maximum angular deviation
- demagnetization, 144B34:586–593
 magnetism, 166B11:123–125; 198B21:4; 22:3–4;
 210A3:340–341
 vs. depth, 144B34:593–596, 599, 601; 178A4:67; 5:62;
 6:44; 7:48
- maximum flooding surfaces
- gamma ray peaks, 150B23:419
 intrasequence architecture, 174AXS_A(summary):7
 lithology, 174AXS_A4:13–14
 Oligocene, 150X_B15:193; 17:239
- MCG. *See* Miscellaneous Crenarchaeotal group
 MCU. *See* Mid-Cretaceous unconformity
 MDF. *See* median destructive field
 MeCS. *See* Messinian carbon shift
 mean destructive field. *See* median destructive field
 mean stress, vs. shear stress, 204B12:50–66

- meander loops, abandoned, lithology, 155A10:265;
155B40:631–632
- mechanical coupling, deformation, 186B1:7–8
- mechanical parameters, sediments, 131B20:250–251
- mechanical properties, sediment cores, 204B1:13–14
- mechanical units
sediments, 152A6:70–71
vs. depth, 152A8:104; 11:240–241
- median destructive field
Argo Abyssal Plain-Exmouth Plateau, 123A4:200
basalts, 183A4:25; 183B12:11–12, 18; 192A3:161;
5:116–118; 6:22, 109–110; 7:59–62; 197A6:19
basement, 183A6:55–56; 7:49; 8:24; 9:37; 197A3:32–
33; 4:25–26
Costa Rica Rift, 111A3:89–90, 97; 111B13:151–152
demagnetization, 144B34:586–593; 183A5:141, 147;
209A3:43–44, 151
discrete samples, 183A5:47–48
gabbros, 147B21:377
histograms, 147A3:95; 4:149; 147B22:389; 24:412;
160B5:69
igneous rocks, 141A9:321, 324; 198B20:3–4
lithology, 119B43:757, 761; 121A12:395; 197A5:21;
210A4:39
magnetic domains, 195A3:28–29
Mid-Atlantic Ridge, 106/109A4:71–75; 106/
109B24:276–278; 25:285; 26:292–295; 27:297–
300
natural remanent magnetization, 129B24:447, 449;
150B19:349–358; 174A_A3:69, 71; 4:120–122;
186A4:31–35; 192A7:10–11; 208A3:19;
210A1:24
ooze, 143B38:593
peridotites, 147B24:411
rock magnetism, 192A5:20
sediments, 132B4:50; 133B49:735; 139A6:186–187;
152A6:70–71; 161A7:314; 175B8:3–4;
183A8:22–23; 9:35–36
Site 798, 128A4:164
Site 799, 128A5:307
Southwest Indian Ridge, 118A6:153–155; 16:291–292,
300, 305
vs. angular displacement of stable remanence,
144B34:587
vs. depth, 132B3:41; 133B50:750–751; 143B26:401;
144B34:593–596, 599, 601; 147B21:378;
148B15:222–224; 150B19:351, 354; 152A9:122;
11:226; 161A7:321; 174A_A3:72; 4:125;
176A3:218; 186A4:116–117; 5:68; 192A5:99;
6:63, 83, 86–87; 7:48; 195A3:106; 197A3:112;
4:85–86; 5:76; 6:79
vs. low-field magnetic susceptibility, 197A3:114; 4:94
- median ridges, transform valleys, 179A4:7
- Mediterranean assemblages, paleobioprovinces,
144B50:891–892
- medium-grained sandstone. *See* sandstone, medium-
grained
- medium resistivity logs
porosity trends, 129B29:510
vs. depth, 180A6:182–185; 8:99–100; 9:131–134;
12:132–136; 182A4:75–76; 5:55; 6:79; 7:61;
8:62; 9:53; 10:63; 12:51; 183A8:92; 184A4:74,
78; 5:68–69; 7:67; 9:80; 189A6:124; 191A4:117;
192A1:65–66; 6:39–40, 88, 90; 193A4:217, 226;
194A7:111–112; 201A6:71–72; 7:76–77; 9:57;
10:61; 11:77; 202A9:68; 10:63; 12:67; 204A4:90;
6:62; 10:83; 11:48, 51; 205A4:163
- MEG-191, instrument, 191A3:9–13, 53
- mega-cross-bedding. *See* cross bedding
- megabanks
continental margins, 166A1:6
seismic reflectors, 165A5:234–236
- megabreccia
tectonics, 149A4:61
See also breccia
- megacrysts
clinopyroxenes, 137/140B11:121–130
diabase and basalt, 148A2:44–45
percentage vs. depth, 148A3:138
plagioclases, 192A1:12
photograph, 148A3:137; 187A13:24
- megacrysts, plagioclase
basement basalts, 123B10:204
glass inclusions, 123B10:207, 211, 213
photograph, 187A13:24
photomicrograph, 197A5:48–49
- megamullions, structure, 176B(narrative):9–12
- megapillows, lava flows, 183A8:15
- megaquartz, photomicrograph, 129B3:108–110
- megaspores, sporomorphs, 183B3:7–8
- megatsunamis
Cretaceous/Tertiary boundary, 174AXS_A(sum-
mary):12–13
impacts, 178A2:18
- megavesicles
basement, 183A5:15, 22; 6:25–26, 37–38; 9:14–16
photograph, 183A9:51, 58; 197A3:103; 4:76
- meiofauna, laminations, 160B27:338
- mélange
basement, 173A1:10
composition, 190A1:3
hydraulic conductivity, 146B(1)17:289
orogenic belts, 160B51:693–695
serpentine, 195A1:3–4; 195B1:17
Site 892, 146A(1)7:329–330
tectonics, 149A4:61; 160B54:757–758, 763, 773
- melanite, formation temperature, 137/140B15:177
- melanocratic layering. *See* igneous layering
- melanogranophyres, inhibited evolution, 118B4:102–
103
- melanoidins, formation, 117B32:538
- Meliaceae, Site 717, 116B21:255
- melobesoids, biogenic components, 161B6:80
- melt channels, pyroxenites, 153B10:211
- melt density, iron-rich differentiation, 118B4:98
- melt distribution, electrical resistivity, 128A3:111
- melt flow
hybridization, 209B4:1–23
transport, 209A1:6–12
- melt-fluid evolution, gabbros, 147B11:213–226
- melt impregnation
constraints, 147B8:167–168

- gabbros, 147B20:359–367
 photograph, 147B8:159
 ultramafic rocks, 149B21:386
- melt inclusions. *See* inclusions, melt
- melt injection
 deformation, 147B20:367–369
 petrology, 147A4:127
 photograph, 147B20:365
- melt interactions, troctolites, 147B7:135–155
- melt lenses, crystallization, 147B2:48
- melt-mantle interactions
 fractionation, 153B11:261–263
 mass balance, 147B6:129
- melt migration
 deformation, 118B26:488, 507
 magnetite, 153B7:133–134
 permeability and pressure controls, 118B26:487
- melt porosity
 deformation, 118B4:81
 phosphate content, 118B4:81
 residuals, 118B4:79–82, 106–107
 shear zones, 118B4:82
 vs. Skaergaard Intrusion, 118B4:81
 zirconium content, 118B4:80–83
- melt-rock interactions, composition, 153B5:82–83, 93
- melt segregation, volcanology, 197A3:17
- melting
 altered basalts, 137/140B4:44–47
 aluminum oxide/FMM ratio vs. zirconium/FMM ratio, 153B10:216
 anhydrous melting-phase relations, 127/128B(2):56:896
 basalts, 120B(1):3:56, 59; 142B6:41–49; 152B30:359–372
 basement, 149A4:108–112
 bulk rock and mineral chemistry, 153B10:205–208, 215
 crust, 152B28:344; 40:498
 depth and degree, 153B19:373–376
 diabases, 153B10:227
 fractional crystallization, 209B4:6
 gabbros, 205A4:31–32
 geochemistry, 153B10:183–186
 heterogeneity, 153B13:282–283
 igneous provinces, 163X_A1:2–3
 isotope geochemistry, 120B(1):2:42
 Kerguelen Plateau, 120B(1):10:146
 magmas, 130B1:14–20; 137/140B12:136–138
 mantle, 147B6:118; 152A1:14–15; 152B27:321–324; 31:373–386; 158B17:225
 migration, 209B4:5–6
 olivines, 187B2:5–7, 23
 overprinting, 205B9:12–13
 peridotites, 210B1:14–15
 residual arc, 187B1:20–21
 spider diagrams, 153B10:214
 submarine emplacement, 192B1:9
 tectonics, 153B10:234–235
 transport, 209A1:6–12
 variations, 187B1:14–15
See also partial melting
- melting, decompression, basalts, 152B31:380
- melting, fractional
 composition, 147B2:41–45
 crystallization, 148B3:21–35
 evolution and transport in mantle, 147B6:103–134
 harzburgites, 147B6:120–121
 magmas, 147B17:324–325
 migration, 147B2:21–58; 8:157–172
 models, 135B24:394–399
 rare earths, 147B3:66–68, 73
- melting, partial
 magmas, 130B1:14–20
 oceanic crust, 129B19:373
 oceanic layers, 137/140B4:47–50
- melting, synrift, basement, 173A6:155–156
- melts
 aluminosilicates, 161B23:314
 basalts, 163B9:95–112
 composition, 163B11:119–134
 crystallization, 153B10:208–213; 176B8:5–14; 10:27
 gabbros, 153B5:93–94; 6:109–110, 113; 179B(synthesis):47–49; 179B2:14–16
 geochemistry, 163B8:84–85
 gneisses, 161B19:272; 20:283–284
 in equilibrium with clinopyroxene, 153B10:231–234
 layered intrusions, 176A3:30–33; 176B10:19–22
 low-pressure crystal fractionation, 163B9:110; 12:139
 magnesium number, 163B11:127–128
 migmatitic gneiss, 161A6:228, 230
 model composition, 176B8:60
 olivines, 152B30:369–371
 perfect fractional crystallization, 153B10:229
 peridotites, 153B14:294
 segregation, 152B40:494–495
 shear zones, 176A1:5; 176B6:22–25
 tectonic controls of migration, 176B10:22
See also intercumulus melts; mineral-melt partition coefficients; partial melting
- melts, basaltic, density, 148A3:140
- melts, leucocratic
 Atlantis Bank, 118B24:425
 dikelets, 118B24:426
- melts, mineral equilibria
 evolved magmas, 125B10:186–187
 primitive magmas, 125B10:183–186
- melts, parental, basalt flows, 142B2:16–19
- melts, sublithospheric, composition, 163B8:87–90
- melts, tholeiitic, crystallization models, 118B26:487–488
- melts, trapped
 cerium and magnesium number, 179B(synthesis):104
 expelled during deformation, 118B2:82
 olivine gabbros, 118B3:59
 phosphate/zirconium ratio, 118B4:79
- meltwater
 deposition, 178A8:7
See also glacial meltwater
- meltwater events, Baffin Bay, 105B30:568; 32:602, 614
- membranes, clay, ultrafiltration, 129B16:295, 298

menaquinones. *See* ubiquinones/menaquinones ratio
Mercenaria, D-alloisoleucine/isoleucine ratio,
174AXS_A7:53–54
mercury, mineral separates, 158B2:33
Merlin reflector. *See* seismic Merlin reflector
mesh rims, ultramafics, 209A3:11
mesh texture. *See* textures, mesh
mesocumulate
fractional crystallization, 179A4:41–42
gabbros, 179B(synthesis):18
mesolite
alteration, 183B15:8; 205A4:33
occurrence, 120B(1)4:64
photomicrograph, 205A1:58; 4:113
volcaniclastics, 197A3:19
X-ray diffraction data, 205A4:111
mesophiles
bacterial cells, 169B2:5–6
vs. depth, 169B2:14
mesophiles/thermophiles ratio, temperatures, 190A1:36;
5:28
mesophyll, photomicrograph, 180B10:34
Mesorbitolina texana, photograph, 144B16:331
mesostasis
alteration, 163A5:60–64; 168A4:73; 5:125–133;
183A7:46; 9:31–32; 187A1:10; 13:10–11;
197A3:28–30
basalts, 121A12:389; 135A(1)4:145–147; 142A4:57–
60; 151A5:78; 169A5:213–214; 6:271; 183A5:31,
38–43; 191A4:27; 197A3:19–20
basement, 183A5:15, 22, 25; 6:23, 32, 36, 38, 47;
7:19–35; 8:15; 9:13, 17–21
Celebes Sea, 124B20:277
chilled margins, 168A5:120, 122
clay minerals, 127A5:217
groundmass, 163A3:27; 5:57; 206A3:58
hydrothermal alteration, 209A10:12–15
igneous provinces, 192B1:6
igneous rocks, 139A7:337
lava flows, 163A4:38, 42; 183A6:52–53; 197A3:15
lithology, 163X_A4:8; 5:4; 168A4:60–70; 180A6:23–
24; 183A1:28; 4:20–21; 187A11:4; 13:4; 14:3
minerals, 135A(1)11:644–645
Ninetyeast Ridge, 121B28:526
petrography, 129B19:363; 135A(1)5:220, 222;
187A8:4
petrology, 144B29:501; 168A5:119
photograph, 135A(1)5:224; 163A5:59; 183A5:89, 133;
9:52, 69–70, 76
photomicrograph, 163A5:60; 163X_A4:20; 6:40;
168A4:68–69; 169A3:94; 6:271; 183A7:128;
187A1:32; 3:15–18; 10:14; 13:31; 14:13–14;
15:36
phyllosilicates, 129B17:322
reddish brown zone, 168B10:130
sills, 139B6:94
Site 795, 127/128B(2)50:821
Sulu Sea, 124A11:253
volcanic rocks, 135B37:620–623
vs. depth, 183A5:140
mesostasis, cryptocrystalline, 135A(1)5:228; 139A5:136

mesostasis, felsic
andesites, 180A7:13–14
lamprophyres, 180A7:15
photomicrograph, 183A6:127
mesostasis, glassy
basement rocks, 131A6:155
Sulu Sea, 124A11:259–263
mesostasis, interstitial, photomicrograph, 168A5:125
mesostasis, variolitic, andesites, 135A(1)8:370
mesotrophic environment, foraminifers, 198B9:8
Mesozoic
argon isotopes, 149B28:494
basement, 160B54:734–736
biostratigraphy, 130B6:85–92; 145B40:634; 149A4:66;
149B2:27–59; 159B35:481–490; 183A3:12–13;
4:9–10; 6:14–16, 19–21; 188B3:10–12;
210A3:335
continental breakup, 133A(1)1:16
diagenesis, 210B8:1–63
geology, 160B54:738–741
magmatism, 149B1:15–16
oceanic crust, 185B1:8
Pacific Ocean W, 132A1:11
paleoceanography, 160B52:701–708; 53:710–713
paleogeography, 160B54:740
paleolatitude, 185A1:41
paleomagnetism, 171B_A1:8–9
rifting, 173A1:8–12
sediments, 185A1:6–7
stratigraphy, 182A1:3–5
suture zones, 160B51:682–683
tectonics, 143B31:504–508; 149B1:8–11
terranes, 146A(1)1:5
volcanic history, 151A1:11–16
See also Barremian; Cretaceous; Hauterivian; Jurassic
Mesozoic, upper
biostratigraphy, 129B8:179–187
collisions, 160A17:513, 515
M-sequence magnetic anomalies, 129B20:399; 31:551
paleolatitude motion, 129B32:579
Pigafetta Basin, 129B2:57
siliceous biogenic deposits, 129B1:16
Site 800, 129B1:3–30; 7:170
Site 801, 129B1:3–30
volcanism, 129B20:390, 404
Mesozoic–Cenozoic interval, paleogeography, 183B4:26
Mesozoic–Paleogene interval, glaciation, 188B1:5–7
Mesozoic–Tertiary evolution, 160B54:723–782
Messinian
basins, 161B43:543–551
biostratigraphy, 151B14:263–264, 273; 14:257;
160B2:16, 19; 161B15:201, 213; 181A9:15;
189B5:41
brines, 161A6:235–236
chemostratigraphy and biostratigraphy, 160B2:17, 21
correlation, 160B36:455; 161B44:560
dessication, 161A1:14
evaporites, 160A1:14–16; 5:87–88; 9:324–326; 13:451;
14:466–467; 160B50:669, 673–674; 54:734, 743,
754
Formation MicroScanner imagery, 160B47:619

- geochronology, 191B1:8
geology, 160A9:290; 10:337, 374
glaciation, 138B15:348
gravel, 161B44:568
gypsum, 161A5:145; 161B33:425–426, 430–431
lamproite, 161A1:11
lithology, 160A9:296; 161A5:120–121, 125, 130–131
magnetostratigraphy, 188B13:24
mud matrix, 160B45:587–588; 51:688
nonmarine deposition, 160B34:437–445
paleoecology, 161A5:137
paleoenvironment, 161B42:529–541
petrology, 161B1:3–20
photograph, 160B36:456
reefs, 161B43:546
salinity, 138B35:748; 160A17:515–516; 160B37:477;
51:685–686; 53:716, 718; 54:774
sedimentary cover, 161B44:562
sediments, 161B5:70–76
seismic stratigraphy, 161A6:247–248; 161B25:338;
166A9:264; 10:327
sequence stratigraphy, 166A3:37
stratigraphy, 161B43:545
sulfate reduction, 161B32:416
upwelling, 175B(synthesis):45
volcanic pebbles, 161B44:574
See also Lago Mare facies; Tortonian/Messinian
boundary; Tortonian–Messinian rate peak
Messinian carbon shift, sedimentation, 130B44:715–716
Messinian desiccation event, carbon isotope depletion,
121B11:250–251
Messinian/Pliocene boundary
lithology, 107A9:599
paleoceanography, 160B1:9–28
sedimentology, 160B1:3–8
Messinian salinity crisis
factors precipitating, 107A9:601
lithology, 107B1:17
sedimentation, 107B38:660; 114A8:413; 114B25:464,
470, 472; 26:479–480
sediments, 105B25:423–424
termination, 107B25:405; 107B26:414
Tyrrhenian Sea, 107B1:3, 12
transition to open-marine environment, 107B1:14
Messinian/Zanclean boundary
biostratigraphy, 151B14:263–264, 273; 160B9:115–
118
sedimentation rates, 189B10:10, 12, 16, 19
meta-andesite, petrology, 125A14:326
meta-anorthosite
breccia, 173A7:188–189
emplacement, 173A6:137
geochemistry, 173A7:195–199
lithology, 173A6:127–130
petrography, 173A6:131–132
photograph, 173A7:188
photomicrograph, 173A6:137
See also anorthosites
meta-arenite
lithologic motifs, 173A7:173–174
lithology, 173A8:238–241
See also arenite
meta-arkose
petrology, 173A8:245–249
See also arkose
meta-arkose, dolomitic, foliation and magnetization,
173A8:252
meta-arkose wacke
foliation and magnetization, 173A8:252
petrology, 173A8:245–249
photomicrograph, 173A8:251
meta-igneous rocks
Pleistocene, 180A1:13
tectonics, 173A7:215–217
See also charnockite; igneous rocks
metabasalt
fluid inclusions, 137/140B16:196; 153B22:410
geochemistry, 125A7:124; 125B18:328; 158B17:217–
218, 221; 195B4:5–10
late-stage fracturing, 125B25:416
lithology, 163A4:35; 187A13:3–4
metamorphism, 118A5:86; 118B25:435
petrography, 118A4:67
petrology, 125A11:257; 12:279; 152A7:80–81
photomicrograph, 187A13:16, 19, 31
Precambrian, 182A1:5
primary mineralogy, 118A4:65
replacement pattern, 118A4:70–71, 75
Site 778, 125A6:102; 125B36:606
Site 779, 125A7:121
See also basalt
metabasalt, foliated, phosphate/titanium oxide compo-
sition, 118B4:88
metabasalt, granoblastic, geochemistry, 118A5:86–87
metabasite
De Marchi Seamount, 107B2:34
major elements, 195B4:44
metamorphism, 161B23:310
mud, 195A3:19–20
ocean–continent transition, 149B47:719
petrology, 149B36:581
photomicrograph, 173A7:192
pressure-temperature conditions, 180B3:10–11
metabasite, chloritized, deformation, 173A7:193
metabentonite, clay mineralogy, 123B2:68
metabolic diversity, microbial populations, 201A1:4–5
metabolic products, enrichment cultures, 187B6:6, 25–
26
metabolism, remineralization, 199B20:17–19
metabolization, organic carbon, 161A5:145
metacarbonate, basement, 161B44:565–568
metachert
photograph, 198A9:61
photomicrograph, 198A9:69
See also chert
metaclaystone
photograph, 152A9:116
See also claystone
metadacite, Site 786, 125A14:327
metadiabase
alteration, 187A13:8
breccia, 180A1:14–15; 180A8:82

- geochemistry, 125A7:124; 153B28:491–495;
180A1:64–66
lithology, 180A5:8–9; 7:9–10; 8:15–16; 187A13:4
petrography, 187A13:5
petrology, 180A7:14–15
photograph, 180A8:64; 187A13:28
photomicrograph, 180A7:37, 43–44, 66; 187A13:20,
29
physical properties, 180A11:11
Pleistocene, 180A1:13
recovery logs, 180A7:34
Site 779, 125B24:403
structures, 180A8:24–26
Tyrrhenian Sea, 107A7:305
See also diabases
- metadiabase, brecciated
petrology, 180A8:17–18, 82
photomicrograph, 180A8:60, 63, 65
- metagabbro, altered, photograph, 153A3:96
- metagabbro, brown
metamorphism, 118A4:68–69
protoliths, 118A4:75
replacement pattern, 118A4:69–71
- metagabbro, cataclastic, photograph, 153A4:126
- metagabbro, deformed, photomicrograph, 173A7:201
- metagabbro, foliated
Atlantis Bank, 118A6:89
magnetic properties, 118B16:287; 17:311
physical properties, 118A6:157
plastic deformation, 118A4:75
primary mineralogy, 118A4:65
pyroxene porphyroclasts, 118B27:549
sulfide and oxide mineralogy, 118A6:125
sulfur depletion, 118B5:121, 123
- metagabbro, gneissic, photograph, 153A3:90
- metagabbro, green
gneissic foliation and lineation, 118A4:69
metamorphism, 118A4:67–68
protoliths, 118A4:75
- metagabbro, mylonitic
physical properties, 118A6:157
velocity, 118A6:163
- metagabbro, mylonitic veined, fluid inclusions,
118B9:202
- metagabbro, olivine, photograph, 153B22:402
- metagabbro, oxide, alteration, 153A3:81–82
- metagabbro, porphyroclastic
alteration, 153A3:83–84
geochemistry, 118A5:86
phosphate/titanium oxide composition, 118B4:88
- metagabbro, sheared
contact with serpentinized dunite, 147B14:268
photograph, 147A4:134
photomicrograph of gabbros, 147B14:291
- metagabbro, veined
fluid inclusions, 118B10:202–204
modality and extent of deformation, 118B9:186–187
petrography, 118B9:186–187, 214–215
- metagabbro clasts. *See* clasts, metagabbro
- metagabbroic rocks, alteration, 147A4:133
- metagabbronorite, ductile deformation, 118B24:423
- metagabbros
acoustic basement, 149B47:721
alteration, 153A3:81–82; 187A13:8
amphibole veins, 118A6:136
anisotropy and preferred orientation, 118B11:234,
236
breccia, 173A7:188–189
De Marchi Seamount, 107B38:623
differentiation, 173A6:155–156
fluid inclusions, 118B9:190
foliation, 118A4:67–68; 125A7:128–129; 176B5:30
geochemistry, 173A7:195–199; 173B10:4
hornblende replacing clinopyroxene, 118B9:198
incompatible elements, 118A5:86
lithology, 173A6:127–130; 176B6:3, 8; 187A13:4
magnetic properties, 118A4:60
metamorphism, 118A5:86; 118B25:435
ocean–continent transition, 149B47:722–725
petrography, 187A13:5
photograph, 153B4:70; 173A7:188
photomicrograph, 149B36:587; 176B5:30; 187A13:21
physical properties, 118A4:60, 75–76; 6:157
plagioclase composition, 118B9:199
plastic deformation, 118A4:60
protoliths, 118A4:60
radioactivity, 173B3:2
Site 732, 118A3:50
Site 734, 118A5:78
whole-rock geochemistry, 173B10:1–20
See also gabbros; metamicrogabbro; microgabbros;
mylonites; veins
- metagrainstone, sill/sediment contacts, 210A3:66
- metagraywacke, erosion, 181B1:27
- metal oxide, mass accumulation rates, 129B32:593
- metal reducers, enrichment, 204A3:23
- metals
altered/parent rocks, 193B6:17
basalts, 135B35:595–602
calcium carbonate, 123A4:152, 156
chimneys, 193B1:33–35
diagenesis, 156B12:168
geochemical logs, 119B50:903, 908–925
geochemistry, 156B12:163–170
hydrothermal fields, 158A7:93–94, 97–98;
158B28:395, 397, 412
lithology, 157A5:108
mass accumulation rates, 206A3:45, 153
mineralization, 169A3:88
organic carbon relationship, 117B23:418
sediment alteration, 185A4:31
sediments, 129B32:606; 199B14:5; 202B10:1–9;
210A3:98
sources, 169A3:89
Upper Jurassic, 129B32:606
zoning, 139A6:229–230; 169A3:89
See also alkaline earth metals; alkali metals; noble
metals
- metals, precious, X-ray spectra, 147B4:83
- metals, transitional
hydrothermal fluids, 139B20:402–405
sediments, 205B3:4

- Site 756, 121B32:621
- metalliferous sediment index, vs. depth, 205B3:10
- metamicrogabbro, Site 779, 125A7:121–122
- metamorphic clasts. *See* clasts, metamorphic
- metamorphic core complexes
 - emplacement, 180B(synthesis):12
 - high-grade metamorphism, 180B(synthesis):8–10
 - tectonics, 160B54:761, 766; 180B(synthesis):4
- metamorphic facies
 - alteration, 187A13:9–10
 - gabbros, 153B31:536
 - See also* blueschist facies; greenschist facies; prehnite-pumpellyite facies; zeolite facies
- metamorphic grade
 - assemblages, 161A6:230
 - See also* amphibolite facies; eclogite facies; granulite facies
- metamorphic grains, vs. age, 195B3:24
- metamorphic lithology
 - basement, 173A7:186; 9:279
 - breccia, 173A7:175–177, 194
 - clasts, 173A7:186, 194
 - composition, 173A7:168–177, 195–196
 - deformation, 173A9:288–290
 - deposition, 173A8:256–258
 - geochemistry, 173A6:195–196
 - lithology, 173A6:110–114, 127–129; 7:186–189
 - magnetic data, 173A8:244–245
 - metamorphic rocks, 173A6:124–130
 - paleomagnetic characteristics, 173A4:83–84
 - petrology, 173A9:279–282
 - photograph, 173A8:236; 9:274
 - photomicrograph, 173A8:233, 236; 9:274, 282, 283
 - serpentinites, 173A7:186–190
 - serpentinized peridotites, 173A7:192–195; 9:284
 - structural data, 173A4:86; 7:197–203; 8:249–250; 9:285–288
 - well-logging, 173A4:101
 - X-ray diffraction data, 173A4:84–85; 7:194, 197; 9:249, 285
- metamorphic petrology
 - analytical methods, 125A2:30–35
 - Antarctic Peninsula, 176A1:14–16; 3:33–47; 176B1:3–6; 179A4:42–48
 - Site 778, 125A6:102
 - Site 779, 125A7:121
 - Site 780, 125A8:153–155
 - Site 781, 125A9:183–184
 - Site 782, 125A10:205, 207
 - Site 783, 125A11:256–257
 - Site 784, 125A12:278–280
 - Site 897, 149A4:73–83
 - Site 900, 149A7:231–236
 - Site 920, 153A3:72–92
 - Site 921, 153A4:151–158
 - Site 922, 153A5:193–204
 - Site 923, 153A6:235–244
 - Site 924, 153A7:265–267
 - Site 1109, 180A6:35–38
 - Site 1114, 180A8:16–20
 - Site 1117, 180A11:3–7
- Site 1118, 180A12:25–27
- Site 1200, 195A3:16–21
- Site 1253, 205A1:18–19; 4:3–4, 27–35
- Site 1268, 209A3:10–20
- Site 1269, 209A4:2–4
- Site 1270, 209A5:3–20
- Site 1271, 209A6:9–18
- Site 1272, 209A7:7–11
- Site 1274, 209A9:7–11
- Site 1275, 209A10:10–17
- Site 1276, 210A1:15; 3:64–70
- Site 1277, 210A4:3–8
- Sites 1110–1113, 180A7:11–17
- metamorphic rock assemblages, 161A6:228, 230
- metamorphic rock fragments
 - photomicrograph, 190/196B3:25–27
 - quartzose sand, 190/196B3:7
 - sand, 190/196B3:6
 - sedimenticlastic sandstone, 190/196B3:9
- metamorphic rocks
 - age, 161B21:295–305
 - Atlantis Bank, 118A6:130
 - Baffin Bay, 105B3:46
 - basement, 112A6:95–99; 161B44:565–568
 - Cagayan Ridge, 124A6:93
 - Celebes Sea, 124A10:138
 - composition, 149B26:451; 161A6:248–249; 161B28:289; 178B15:4–5
 - correlation, 161B23:307–317
 - faults, 173A6:143–144
 - fragments, 149A4:50; 5:119
 - geochemistry, 148A2:57–60; 149A7:236; 149B27:471–488; 195B4:1–49
 - geology, 188A1:7–8
 - Lima Basin, 112A7:110
 - lithology, 133A(1)4:94; 173A4:71–73; 139A7:511–512; 173A6:124–130; 180A5:8–9
 - mafic rocks, 149A7:233–235
 - magnetic data, 173A6:124
 - mineral paragenesis, 125B25:423–428
 - mineralogy, 125B25:416–423
 - ocean–continent transition, 149B47:728–729
 - origin, 125B25:426–427
 - petrography, 125B25:415–416, 420–421; 173A6:131; 7:187
 - petrology, 112A6:105–106; 153A3:72–91; 4:151–158; 5:193–204; 6:235–244; 7:265–267
 - Philippine mobile belt, 124A3:40
 - photograph, 149A7:234; 180A7:30
 - photomicrograph, 188A3:103
 - physical properties, 161A6:241
 - protoliths, 180A7:11–12
 - provenance, 155B7:156; 159B12:119–120; 180B6:20–24; 7:21–22
 - rock magnetism, 161A6:207–209
 - Site 778, 125A6:102–105
 - Site 779, 125A7:122–124
 - Site 780, 125A8:155–156
 - Site 781, 125A9:184–185
 - Site 782, 125A10:207
 - Site 783, 125A11:257–258

- Site 784, 125A12:280–281
 Site 786, 125A14:327–331
 spreadsheets, 176A1:35–38
 stratigraphy, 118B8:156–157, 172, 175
 structural domains, 180A8:24–26
 Sulu Sea, 124A6:93
 Trujillo Basin, 112A6:97
 volcanoclastics, 152B10:129–144; 180A7:16
See also amphibolites; biotite schist; charnockites;
 chlorite-tremolite schist; chlorite schist; eclogite
 facies; epidosite; gneisses; granulite facies;
 greenschist-amphibolite facies; greenschist fa-
 cies hornfels; marbles; meta-anorthosite; meta-
 arenite; meta-arkose; meta-igneous rocks; meta-
 basalt; metabasite; metabentonite; metachert;
 metadacite; metadiabase; metagabbro; metagab-
 bronorite; metagrainstone; metapelite; meta-
 peridotite; metasandstone; metasedimentary
 rocks; metasediments; metasiltstone; meto-
 nalite; mica schist; mica-chlorite schist; mylo-
 nites; ophicalcite; phyllites; quartzites; schists;
 subgreenschist facies
- metamorphism
 age, 152B10:139
 alteration, 147B15:302–304; 148B8:97–109; 187A1:11
 amphibolites and metagabbros, 173B10:5
 assemblages, 153B4:68–69
 associated with cataclastic deformation, 147A3:74–76
 Atlantis Bank, 118A9:209
 basalts, 126A7:174
 basement, 183A1:11
 clasts, 173A7:193
 deformation, 118A6:139; 118B8:171–172
 dredged vs. drilled gabbros, 118B21:381
 evolution, 180A7:16–17
 extent, 118B8:153–154
 fluid evolution, 153B22:401–404
 gabbros, 147B11:217–218; 153B9:159–161; 21:389–
 398; 31:531–546; 179A4:9; 209B1:8–11
 geochemical effects, 125B24:404–405
 geochemistry, 173A6:133
 greenschist facies, 135A(1):11:644
 halogens, 195B6:9–10
 heat sources, 126B12:191
 hydrogen isotopes, 147B13:249
 intrusions, 139A6:236; 180B3:8–11
 iron oxides, 159B10:97–98
 Izu-Bonin forearc, 126B12:189–191
 lithology, 147B3:59–60; 152A9:116; 161B23:308;
 209A6:10–18
 mafic rocks, 118A5:86; 147B14:283–284
 magnetic properties, 118B16:294–296, 300, 303
 marine magnetic anomalies, 118B16:303–304
 mineral assemblages, 118B8:159–170
 mineral paragenesis, 125B25:423–426
 mineralogical effects, 118B8:171–172
 neoblasts, 176B9:17–19
 olivine gabbro cumulates, 147A1:9
 ophiolites, 148B34:431
 origin, 126B12:189–190
 oxide-sulfide relationship, 118A6:134–136
 pressure-temperature conditions, 161A6:227–230;
 161B19:263–279
 paragenesis, 195A1:7; 209A1:49–50
 peridotites, 149B22:397–413; 153B1:16–17;
 209A1:18–20, 26–28, 42–43, 61–62
 petrography, 147A1:11–12
 petrology, 139A5:136; 147A1:13; 180A11:5
 phase equilibria, 161B18:257–258
 photomicrograph, 209A6:72–76
 pore water, 195B5:5
 prehnite-actinolite facies, 125B25:426
 prehnite-pumpellyite facies, 126B12:189
 pressure-temperature conditions, 125B26:439–410;
 152B10:137–138; 34:422
 Prydz Bay, 119A1:8; 10:380
 quartz gabbros, 180B3:5–6
 rare earth budget, 137/140B9:109–110
 recrystallization, 153A7:267
 rifting, 173A7:217
 rodingite, 125B24:403–404, 409
 seawater penetration, 118B8:153, 174–175
 sediments, 152B41:519–520
 serpentinization, 153B3:44, 47
 shear zones, 153B9:157–159; 176A1:5; 176B6:20–23
 Site 504, 140A2:64–78, 121–123
 Site 504, 148A2:45–53
 Site 894, 147A3:68–78
 Site 895, 147A4:128–138
 Site 896, 148A3:141–150
 Site 1271, 209A1:37–38
 Site 1274, 209A1:47–50
 spinel overprint, 147B8:160, 163
 spreading centers, 209B1:4–6
 styles, 179A4:43–44
 tectonics, 126B12:185; 147B15:307; 161B24:319–329;
 25:331–344; 195A3:53–54
 temperature, 176A3:45–47
 terrains, 161B44:557, 560
 textures, 161A6:225–230
 timing, 126B12:190–191
 veins, 147B31:497–513
 volcanoclastics, 180B8:9–13
See also anchimetamorphism; catagenesis; granulite
 facies; greenschist facies; magmatic-metamor-
 phic transition; shock metamorphism; thermal
 metamorphism
- metamorphism, blueschist-facies
 Conical Seamount, 125B36:606
 convergent margins, 125B36:611
 subduction zones, 125B25:426
- metamorphism, contact
 diabases, 129B18:346
 lithology, 210A1:14
- metamorphism, dynamic, gabbros, 153A5:197–201;
 6:238–241
- metamorphism, dynamothermal
 Atlantis Bank, 118A4:90
 gabbro textures, 118A6:129–132
 mineralogical changes, 118B5:113–114
 sequence of events, 118A6:129
 sulfur depletion, 118B5:121

- metamorphism, early, amphibole veins, 147B10:201–202
- metamorphism, fracture-controlled
 evolution with temperature, 147B10:206
 gabbros, 147B10:189–212
- metamorphism, high-grade
 mineral assemblages, 161B23:313–314
 pressure-temperature conditions, 161B20:281–294;
 25:339
- metamorphism, high-temperature
 gabbros, 176A1:15
 mineral assemblages, 118B27:543–544
- metamorphism, hydrothermal
 gabbro alteration, 118B9:208
 sills, 210B1:23
 Sulu Sea, 124B19:255
- metamorphism, late, chlorite veins, 147B10:202–203
- metamorphism, low-grade, zeolite facies, 131B16:199
- metamorphism, low-temperature, breccia, 118B8:172
- metamorphism, medium-temperature, cataclastic deformation, 118A3:51–53
- metamorphism, retrograde
 amphibolites, 173A6:130–131
 breccia, 173A6:131–132
 greenschist facies, 173A6:155–156
 meta-anorthosite, 173A6:131
 petrology, 125B26:439; 36:611
- metamorphism, static
 basaltic rocks, 147A3:71
 facies, 147B20:361
 gabbros, 147A3:68–71; 147B12:228; 153A5:197–201;
 6:238–241
 petrology, 147A4:128–133
 pseudomorphous and coronitic replacements,
 118B8:163
 sulfur depletion, 118B5:121
 troctolites and gabbros, 147B14:267–268
- metamorphism, static high-temperature, hydrothermal
 alteration, 147B13:237–238
- metamorphism, synkinematic, mineral assemblages,
 118B24:420–421, 423, 426
- metamorphism, two-stage, petrology, 125B25:416
- metaquartzite, lithology, 177A8:8
- metapelite
 basement, 161B44:565–568
 geology, 188A1:7–8
 lithology, 180A7:8
 metamorphism, 161B18:252, 254
 photomicrograph, 161B18:260; 23:313
 pressure-temperature conditions, 161B19:264–265;
 20:283
 Site 701, 114A8:369
- metaperidotite, carbon dioxide, 209A1:124
- metasandstone, lithofacies, 133B37:536
- metasediments
 clasts, 173A8:256–258
 debris flows, 149B47:719
 lithology, 173A8:238–241
 magnetization, 173A8:252
 petrology, 173A8:245–249
 photograph, 173A8:230, 238–240
- transform faults, 159A1:10
- metasedimentary rocks
 Baffin Bay, 105B3:52
 basement, 183A8:13–15
 clasts, 190A7:6
 composition, 152B10:129–144; 40:489–490
 crust, 152B39:466–467
 facies, 133B37:535–540
 Honshu-Izu collision zone, 190A1:27
 lithology, 198A9:11–13
 mineral composition, 152B10:132
 mineralogy and texture, 198A9:94
 petrology, 129B1:16; 180A7:12–13
 photograph, 152B10:144; 183A8:49; 198A9:60
 photomicrograph, 210B2:22–23
 Pleistocene, 180A1:13
 sedimentation, 141B10:141
 volcanic pebbles, 161B44:568
- metasiltstone
 foliation and magnetization, 173A8:252
 lithofacies, 133B37:536
 lithology, 173A4:75, 77
 petrology, 173A8:245–249
 photograph, 152A9:116
See also siltstone
- metasomatism
 alteration, 115B8:91; 139A7:537–538; 148B8:97–109;
 153B21:397; 193A3:42–47; 209A3:12–13; 5:16
 asthenospheric fluids, 125B28:500
 calculation, 137/140B17:202–204
 extensional tectonics, 161B44:576
 geochemical effects, 115B8:85
 guyots, 144B22:424
 hardgrounds, 144B22:421, 423
 hydrous fluids, 149B32:546–548
 isotopic effects, 125B13:258
 mantle, 149B23:420
 mineral composition, 144B30:513–533
 noble metal concentrations, 115B7:82
 peridotites, 153A3:66–67; 209A1:18–20, 26–28, 42–
 43, 61–62
 petrology, 125B38:647
 photomicrograph, 180B8:43
 quartz gabbro, 180A11:6
 secondary mineral zonation, 148B8:102
 sediments, 139A7:328–329
 silica, 209A3:18–20
 Site 1271, 209A1:37–38
 Site 1274, 209A1:47–50
See also hydrothermal alteration
- metasomatism, calc-silicate, troctolites, 147B6:123
- metasomatism, magnesium, hydrothermal alteration,
 169A6:259
- metasomatism, sodium, vein structures, 118A6:136
- metatonalite. *See* tonalites
- metatonalite, deformed, photomicrograph, 173A7:191
- metatroctolite
 petrology, 153A5:182
See also gabbros; troctolites
- metavolcanic rocks, origin, 126B12:190

- metavolcaniclastic rocks, petrology, 125A11:257;
12:279–280
- meteoric waters, pore water chemistry, 119B19:388
- meteorology, modern, 130B28:472–473
- meters composite depth scale
correlation with index properties, 167B31:333–338
magnetic susceptibility, 202A5:4; 6:24–26; 7:29–32;
8:5–6; 9:5–6; 10:5; 11:4–5; 12:4–5; 13:4–5
splice, 202A3:4; 4:4
vs. depth, 167B31:337–338; 202A3:22; 4:28; 5:27;
6:28; 7:38; 8:43; 9:43; 10:43; 11:36; 12:46; 13:35
- methane
acetogenesis, 204B17:6
advection, 164A8:266, 272; 164B22:225–226;
204A7:11
alkalinity, 125A10:209; 204B15:14–16
anaerobic oxidation, 164B8:79–85; 207B1:8–9; 9:4–5
anomalies, 146A(1)4:79, 81–83
basalts, 115B9:99; 142B4:32–34
Broken Ridge, 121A6:140–141; 8:212, 215; 13:492
bubbles, 160A11:401
Cagayan Ridge, 124A12:332; 14:409
carbon cycling, 204A7:10–11
carbon isotopes, 112B32:520–521; 33:530;
141B24:308–311; 172B3:1–16; 174A_B1:1–7;
184B13:4, 15; 195B7:10; 204B15:5; 20:3
carbonates, 124B14:211; 165B19:292
Celebes Sea, 124A10:154, 157–160, 183; 25:358
chemical interfaces, 201B1:22–24
chimney structures, 125B21:376
chloride uptake, 125B21:381
chlorinity, 125A8:163; 207A7:30
clathrates, 137/140B16:194, 197
composition, 194A9:69
compressibility, 161B10:125–127
concentration, 162A8:276; 164B9:92, 94; 11:122–123;
190A4:20–21
continental margins, 164B3:29–36
core void gas, 204A3:113–114; 4:112–113; 5:35, 58;
6:46, 74; 7:68; 8:53, 86; 9:51, 84–85; 10:61, 102–
103; 11:40, 57
cores, 144A3:74; 5:129, 131; 6:233; 8:304
data, 113B3:35; 127A4:119; 139A7:489
deformation, 205A5:33
detection in pressure core sampler, 164B11:113–126
deuterium in void gas, 204B15:46
diagenesis, 151A12:389–391; 13:412–414; 160A5:110;
180A5:31–33
diffusion, 168A4:83
dissolution, 204A4:14; 10:60; 11:39; 208B1:20
distributed low flux, 204B1:6–7
drilling, 168A1:14, 19
enrichment, 201B3:7–9
Exuma Sound, 101A10:398, 405; 11:455
fault transport, 164A8:261
fluid flow, 171A_A5:67–68
fluid inclusions, 153B22:406
fluoride, 204B16:1–22
gas composition and carbon isotopes, 204B1:29
gas escape, 150B21:384
gas hydrates, 112B32:519–520; 127A6:288–290;
146A(1)1:7–9; 146B(1)25:382–383; 29:432;
164A1:7; 26:255; 164B2:15–16; 3:30–35; 4:40–
41, 44–45; 5:51–56; 25:247–249; 28:273–281;
170A5:171–172; 175A5:130–131; 204A3:16–17;
4:114; 5:8, 59; 6:75; 7:69; 8:97; 9:86
gas venting, 164B1:6
gases, 160B50:669; 169S_B1:37, 39; 173A7:204–205
genesis, 124B16:228–229; 127A5:216; 127/
128B(1)44:749–750; 146A(1)5:229; 188B15:1–
15; 207A9:6–8
geochemical cycles, 205B6:1–26
geochemistry, 139A6:197; 146A(1)4:109; 154A4:87;
5:178; 6:248–249; 7:300; 8:355; 207A6:29–30
headspace gases, 133A(1)13:525; 14:585–586; 15:639–
640; 16:711; 134A7:114; 8:157–158; 9:204;
10:280; 12:417; 135A(1)4:127; 8:367–368;
9:431–433; 10:537–538; 11:625–631;
138A(1)11:299, 302; 12:359; (2)13:729; 14:782;
16:939; 157A6:158; 159A6:192; 8:284;
167A(1)4:80; 5:111; 6:150; 7:171; 8:205; 9:233;
10:265; 11:303; 12:340; 13:372; 14:415; 16:481;
173A4:92; 6:151; 7:205; 8:253; 178A7:105;
180A11:10; 182A1:54; 185A4:174; 198A3:126;
4:84; 5:92; 6:23, 80; 7:75; 8:74; 9:100;
201A6:79–80; 7:88; 8:61; 10:69–71; 11:94–95;
12:14, 60; 202A3:51; 8:22, 101; 9:18; 10:88;
11:14, 52, 77; 12:15, 62, 97; 13:13, 70;
202A4:13, 71; 5:12, 60; 6:13, 46, 63; 204A3:112;
6:59; 207A6:64
hydrogen isotopes, 204B15:5
hydrothermal fields, 193A1:6–7
in situ determination, 201B20:1–11
Indus Fan, 117A8:182, 185
isotopes, 164B2:21–23; 7:67–77; 10:101–112
Leg 76 site comparison, 112B31:511
Leg 84 site comparison, 112B31:511
Leg 104 site comparison, 112B31:509–510
Lima Basin, 112A11:179–180; 19:820–821, 826, 834;
112B31:507
lithology, 146A(2)2:31; 164A6:112–113; 181A1:33
mass balance, 164B7:76
microbiology, 164B7:73–75; 168B13:164–165;
169B2:8; 187B6:6, 25–26; 190A1:36; 201A1:12–
16; 204B15:1–52
migration, 190A5:26–27
modeled concentration vs. depth, 204B1:29
mud domes, 160A11:394; 18:522–524
Negros Trench, 124A9:113–117
noble gases, 164B16:165–170
nodules, 164B30:307–311
Norwegian Sea, 104A4:174, 177; 104B13:293; 15:323
organic acids and dissolved gases, 125B22:388, 394–
395; 36:603
organic matter, 160A4:67; 201B1:5–6
oxidation, 112B33:532–533; 124B14:208;
139B12:303–305; 13:309; 14:312–322; 15:336–
337; 146B(1)27:403–406; 160B29:366, 368;
161B34:434–436; 164A8:248–249; 164B8:80–85;
9:87–99; 166B17:192; 172B(overview):2–5; 3:2;
174A_B(synopsis):9

- Pacific Ocean W, 124B14:213
Pisco Basin W, 112A18:724, 728, 733; 112B31:507;
33:532–533
plagioclase inclusions, 118B9:204, 206
pore water, 119B18:366; 125B21:380; 133B35:516–
517; 146B(2)25:331; 150A9:289; 151A6:129;
155B36:567–569; 157A9:458; 162A9:310;
172A7:311–313; 180A1:26; 188A3:43–47;
195A3:38–40; 195B7:1–12; 201A1:21–25, 28–33,
37, 41–42, 45; 6:16–17; 7:17; 8:16; 9:13; 10:15–
16; 11:17; 201B5:5; 204A6:10–11; 10:14; 11:12;
204B17:20; 210A3:98
potential production rates, 127/128B(1)46:771
precipitation, 164B29:290–291; 178A5:20
pressure cores, 201A3:7–8; 204A1:67; 4:115; 6:76;
8:88–89; 9:87; 10:104–105
Prydz Bay, 119A10:385; 11:420, 422
recalculated concentration in pore water, 188A3:135
recycling, 146B(2)15:213–218
reduction, 118B9:209; 190A4:18, 64
release experiments, 164A7:193–194
retention times, 113A8:383
Salaverry Basin, 112A1:19–20; 12:265; 17:317–319
salinity, 153B22:411–412
sediments, 139A5:121; 7:319–320; 8:479–482;
141A6:110–111; 7:202–203; 8:269; 10:392;
141B21:280–281; 143A9:331; 146A(1)5:177–
178; 6:287; 146B(1)8:153–154; 26:389–392;
146B(2)10:142; 150A6:91–92; 7:163–164; 8:231;
9:282–283; 10:328; 151A6:131–132; 7:184, 186;
8:241–242; 9:288; 10:334, 336; 11:368–369;
12:386–392; 152A7:82; 11:230–231; 12:269;
155A7:138; 9:215; 10:256, 259; 11:293; 12:345;
13:398; 14:423; 16:475; 17:519; 18:555; 19:579,
582; 20:608; 21:649; 22:671; 156A6:137–138;
7:225; 157A4:79; 6:156–157; 7:358; 8:420;
159A5:108–109; 160A4:69; 5:113; 6:136; 7:188;
8:250; 9:313; 10:367; 11:394–395; 12:437–439;
13:459; 14:485; 161A5:144; 6:233, 258–259;
8:375–378; 9:403; 162A3:73; 4:113; 5:156–157;
6:191; 7:243; 8:271–273; 9:306–307, 311–312;
10:359–361, 369–370; 164A5:87–88; 6:125–128;
7:197; 8:262–263; 9:296–297; 165A3:73; 4:164–
165; 5:256; 6:316; 7:369; 166A7:159–160; 8:187;
9:250; 10:311; 11:360–361; 167A(1)5:105;
7:166; 8:193; 9:232; 10:261; 11:296; 12:332–
333; 13:368; 14:408; 15:447, 449; 16:475;
169A3:117, 119; 4:178; 5:221–222; 6:281–282;
170A3:72; 4:129, 131; 5:171; 6:203; 7:234–235;
171B_A3:73–75; 4:139–141; 5:205; 6:283–284;
7:330, 332; 172A3:53–55, 59; 4:116, 118; 5:207–
211; 6:272–277; 173A4:92; 6:151; 8:252; 9:290;
174A_A3:74, 76; 4:123, 127; 5:172, 175–177;
175A3:76, 82; 4:103, 109; 5:134, 136; 6:167,
173; 7:193, 195; 8:216, 218; 9:260, 265; 10:299,
305–306; 11:327–328, 335; 12:375–377; 13:412,
421; 14:446–447, 452; 15:474, 480; 177A3:12,
58; 4:15–16, 87; 5:19, 93; 6:13, 76; 7:14, 76;
8:15–16, 96; 9:12, 66; 178A4:20; 5:16–17; 6:13;
7:12; 8:12; 9:15; 180A1:8–9; 5:34; 6:59; 7:22;
8:32; 9:45; 10:17; 12:40; 180B(synthesis):15;
16:4; 18:4–14; 181A3:24; 4:20; 5:22; 6:30–31;
7:40; 8:33; 182A1:15, 18–23, 27, 29, 32, 35, 38,
40; 4:29, 95; 5:17–18; 6:27, 99; 7:19; 8:23, 84;
9:17–18; 10:23; 11:13; 12:19; 182B1:11–12;
184A1:24–25, 29; 4:18; 5:14–15, 84; 7:14–15,
90–91; 9:17–18, 110–112; 184B13:4; 186A1:10,
13; 4:37; 5:25, 27; 186B14:7–8, 12; 188A3:48–
49, 181; 5:24–25; 189A3:40–42, 158–160; 4:20,
59; 5:44–45, 156–157; 6:49–50, 165; 7:42–44,
139; 190A1:35; 4:21; 5:25–27, 135–136; 8:18–
19; 9:20; 194A3:14; 4:20–21; 5:16; 6:12–13, 86;
8:17; 9:15; 195A3:33–34; 198A3:27; 4:24; 7:22;
8:20; 202A3:12; 9:96; 10:16; 204A3:19–20, 87;
4:16–17, 110–111; 5:8–9, 57; 6:12–13, 73; 7:12–
13, 67; 8:14–15, 67, 85; 9:12–13, 83; 10:16–17,
100–101; 11:13, 56; 205A5:34–35; 6:18–19;
207A4:24, 105; 5:25–26, 112–113; 6:103; 7:26,
105–106; 8:95; 208A3:19–20; 4:17; 5:14; 6:22;
7:21; 8:21; 210A1:20; 3:95
sediments and rocks, 149A5:133–134; 6:190; 7:243
seismic studies, 146B(1)9:163–174; 175A16:500, 503
shallow presence, 127A6:259–260
shoaling theoretical model, 198B3:9–11
Site 533, 112B31:514–515
Site 565, 112B31:514–515
Site 568, 112B31:514–515
Site 644, 112B31:514
Site 680, 112B31:507
Site 681, 112B31:507
Site 682, 112A14:385; 112B31:507, 509
Site 685, 112A17:623, 625, 630; 112B31:507, 509
Site 688, 112A20:904, 906; 112B31:507, 509
Site 693, 113A8:377
Site 694, 113A9:485
Site 696, 113A11:650
Site 714, 115A11:859, 866
Site 716, 115A13:1015–1016
Site 721, 117A9:235, 244
Site 722, 117A10:288, 298
Site 723, 117A11:353, 356–358
Site 724, 117A12:406, 412–413
Site 758, 121A12:419
Site 779, 125A7:125–126, 129
Site 780, 125A8:157–158, 161
Site 781, 125A9:187
Site 783, 125A11:260
Site 784, 125A12:281
Site 786, 125A12:328
Site 794, 127A4:119
Site 795, 127A5:174, 213–216, 220
Site 796, 127A6:287–290, 315
Site 797, 127A7:368
Site 798, 127/128B(1)46:771–772, 776; 79:1263;
128A4:175–176, 180, 187
Site 799, 128A5:244, 321–322, 339
Site 881, 145A3:54
Site 882, 145A4:98
Site 883, 145A5:153
Site 884, 145A6:242
Site 887, 145A8:357
Sites 885–886, 145A7:313, 315

- sources, 118B9:209; 125A4:73, 75; 149A4:96–97;
159A7:243; 164B3:35; 7:67–77; 175A21:558;
175B(synthesis):4; 204A1:9–10
- stability fields, 146A(1)10:415
- stable isotopes, 146B(1)21:439
- subduction zones, 204B1:4–5
- sulfate reduction, 181A6:29; 201B2:6–7
- sulfate zone, 168A6:177; 201B1:8
- Sulu Sea, 124A11:244–247
- thermogenic sources, 127A6:251, 288
- time-pressure-volume plots, 164A8:265
- Torishima Seamount, 125B21:381
- transport-dominated regime, 204B1:7–8
- Trujillo Basin, 112A16:544, 545; 112B31:507
- Vacutainer samples, 169S_A2:47, 51; 201A11:96
- veined metagabbros and trondhjemite, 118B9:182
- velocity logs, 204B22:10–11
- vent fluids, 125A1:12; 8:148; 125B36:595
- volcaniclastics, 157A9:459–461; 10:523
- vs. carbon dioxide, 207A9:17
- vs. chloride, 189A6:104; 201B20:6–7
- vs. core number, 165A7:370
- vs. depth, 112B31:510–512; 32:520; 33:529;
113A5:131; 6:238; 7:313; 8:382; 9:487; 10:563–
564; 11:652–653; 12:738; 116A4:58; 5:105;
6:166; 127A5:220; 134A7:115; 9:210; 10:284;
12:425; 13:508; 134B8:128; 138A(1)11:307;
12:367; 138A(2)14:787; 15:867; 16:944;
138B26:603; 139A6:212; 7:341–342; 8:483–485;
139B25:471–472; 141B21:282–283;
146A(1)5:180; 6:266, 269; 7:337–338;
146B(1)10:180; 26:388–392, 396; 27:403–406;
31:443–447; 149A4:98; 5:134; 149B14:303;
46:708–709; 150A8:234; 155A6:110; 7:146;
8:190; 9:217; 11:293; 12:350; 13:400; 14:424;
15:454; 16:479; 17:526; 18:556; 19:583; 20:612;
21:649; 22:675; 151A6:132; 7:185; 8:244; 9:288;
10:334; 11:369; 12:387–390; 13:412;
152A12:270; 156A6:138, 147; 7:237;
156B25:314; 157A1:9; 4:80; 5:126; 6:157; 7:365;
9:461; 157B38:629–630; 159A5:108, 110; 6:194;
7:244; 9:311; 160A4:80; 11:397; 12:438;
160B29:371; 161A6:257; 7:318–319, 330; 8:385;
9:409; 161B32:419; 34:435–436; 162A3:75–76;
4:116; 5:160, 162; 6:192, 196; 7:245; 8:274;
9:310; 10:368; 164A5:88; 6:125–126; 7:199–200;
8:268–269; 9:299–300; 164B1:7; 3:34; 5:53;
8:82–83; 9:89; 23:230; 166A6:91; 7:161; 8:187;
9:250; 10:312; 11:361; 166B17:193;
167A(1)5:111; 6:149; 7:170; 8:204; 9:233;
11:303; 12:340; 13:371; 14:415; 16:480;
168A4:85; 5:146; 6:185; 168B13:164;
169A3:119; 5:223; 6:284–285; 170A4:130;
5:175; 7:229; 171A_A3:36; 5:58, 74; 6:78; 7:94;
171B_A4:140, 143; 5:212; 6:289; 7:338;
172B3:11; 4:128; 5:216; 6:284; 7:317;
173A7:205; 8:254; 174A_A5:176; 175A3:83;
4:109; 5:137; 7:194; 8:217; 9:265; 10:307;
12:377; 13:421; 15:481; 17:511; 22:557–558;
177A3:32; 4:47; 5:50; 6:42; 7:33; 8:49; 9:40;
178A4:76; 5:66; 8:44; 180A1:48; 5:86; 6:166;
7:57; 9:118; 12:122; 180B(synthesis):35;
181A3:56; 6:74; 9:49; 182A5:41–42; 7:45; 9:40;
182B1:29; 184A1:69; 5:52; 184B13:12;
185B1:31; 3:11; 186A4:126; 5:71; 186B14:22;
188A3:127, 132; 188B15:10; 189A1:89; 3:91;
5:90; 6:103–105; 7:82; 190A4:65, 69–70, 133;
5:71; 6:47; 7:39–40; 8:45; 195A3:118; 195B7:8;
198A1:140; 3:88; 4:62; 201A1:67–70, 74; 6:45;
7:47; 8:36; 10:41; 201B1:40; 202A3:35; 4:47;
5:41; 8:66; 9:62; 10:57; 13:50; 204A1:69; 3:66,
68, 71; 4:65, 68–70, 87; 5:33–34; 6:42–48; 7:41–
45; 8:52; 9:50–53, 66; 10:56, 59–62, 80; 11:37–
41; 204B1:35–36; 15:36; 205A4:148; 5:86–87;
6:43; 205B6:23; 207A4:56; 5:66; 6:64; 7:60;
8:57; 9:12–16; 207B1:22; 9:14–15; 210A1:73, 75;
3:277–278, 289
- vs. ethane/propane ratio, 124B16:228
- vs. nitrogen, 127/128B(1)44:750; 142B3:26
- vs. organic carbon, 207A9:7–8
- vs. sulfate, 112A13:317–318; 17:622; 127A7:368;
164A6:131; 168A4:85; 5:138–139; 172A5:222–
225; 198A4:61
- vs. total organic carbon, 207A6:65; 7:61; 9:18
- vs. vitrinite reflectance, 139B27:492
- Yaquina Basin, 112A15:460; 112B31:507, 509
- Zamboanga Trench, 124A9:114–118
- See also* advanced piston corer methane tool; anaero-
bic methane oxidation zone; gas hydrates; hy-
drogen sulfide; methanogenesis; sulfate/
methane boundary; sulfate–methane transition
horizon; upper methanogenic zone; water-
methane-carbon dioxide
- methane, bacterial
- concentration, 131A6:190
- generation, 131B15:189
- molecular composition, 131A6:191
- sediments, 131B12:161; 15:186–195; 146A(1)7:338,
341
- Site 682, 112B33:533
- sulfate reduction zone, 131A6:140
- methane, biogenic
- genesis, 127A6:251, 288
- Oman margin, 117A4:49
- Site 682, 112B33:531
- Site 728, 117A16:524
- methane, dissolved
- in situ determination, 201B20:1–11
- vs. depth, 201A1:75; 8:36; 9:38; 11:50; 12:33;
201B1:43; 20:10; 204A6:45
- methane, expansion void gas, vs. depth, 146A(1)5:182
- methane, headspace
- sediments, 149B46:710
- vs. depth, 164B36:383–387; 169S_A2:47, 51;
172A3:57–58; 175A11:334
- methane, outgassing, isotopes, 115B9:98–99
- methane, thermogenic, isotopes, 146B(1)6:133
- methane, total, vs. depth, 146A(1)4:81, 84–85
- methane bubbles, seafloor observations, 204A1:5
- methane/carbon dioxide ratio, vs. depth, 164A6:126;
7:200; 9:299
- methane escape, photograph, 201A11:82

- methane/ethane ratio
 bacteria, 180A9:46
 core void gas, 204A4:112–113; 5:58; 8:86; 9:84–85;
 10:102–103; 11:13, 57
 decomposed gas hydrates, 204A4:114; 5:59; 8:97; 9:86
 deep-sea sediments, 149B46:710
 diagenesis, 151A13:412–414
 ethane fractionation, 204B15:17–19
 ethane generation mechanism, 204B15:16–17
 gas hydrate proxies, 204B1:12
 gas hydrates, 164A1:10; 164B1:9; 204A1:42–43; 5:10;
 7:14; 9:13–14
 gas transport, 204B15:4–5
 geochemistry, 207A8:26
 geothermal gradient, 204B15:38
 headspace gases, 167A(1)11:303; 202A4:13, 71; 5:12,
 60; 6:13, 46, 63; 10:88; 11:77; 13:13, 70
 hydrocarbons, 151A7:187–189
 Indus Fan, 117A8:185
 Lima Basin, 112A11:181, 202; 19:820–821
 mud domes, 160A18:523–524
 Owen Ridge, 117A9:237, 244
 Pisco Basin W, 112A18:724, 727–728
 pressure cores, 204A4:115; 6:76; 8:88–89; 9:87;
 10:104–105
 Salaverry Basin, 112A12:264
 sediments, 151A6:131–132; 8:241–242; 9:288; 10:334,
 336; 12:386–392; 159A5:71; 162A5:156–157;
 6:191; 9:307–308, 311–312; 10:360–361, 369–
 370; 164A6:125–128; 9:298; 166A6:90; 7:160;
 10:311–312; 11:361; 167A(1)6:146; 7:166;
 8:193; 9:232; 10:296; 12:332–333; 13:368;
 16:475; 169A4:178; 5:221–222; 6:281–282;
 172A3:53–55, 59; 4:116, 118; 5:209–211; 6:272–
 277; 7:314; 174A_A3:74, 76; 5:172, 175–177;
 175A3:76, 82; 4:103, 109; 5:134, 136; 6:167,
 173; 7:193, 195; 8:216, 218; 9:260, 265; 10:299,
 305–306; 11:327–328, 335; 12:375–377; 13:412,
 421; 14:446–447, 452; 15:480; 177A4:16;
 178A5:17; 180A1:27; 5:34–35; 6:59, 61; 9:45;
 12:40; 180B(synthesis):15, 35; 18:4–14;
 181A3:24; 182A1:21, 32; 4:95; 5:18; 7:19; 9:18;
 184A5:14–15; 7:14–15, 90–91; 184B13:4;
 186A1:10, 13; 4:37; 5:25; 186B14:7–8, 12;
 188A3:48–49; 189A5:44–45, 156–157; 7:43;
 190A6:19; 195A3:33–34; 202A9:96; 10:16;
 204A3:19–20; 4:16–17, 110–111; 5:8–9, 57;
 6:12–13, 73; 7:12; 8:14–15, 85; 9:13, 83; 10:17,
 100–101; 11:56; 207A4:24, 105; 5:112–113;
 6:103; 7:26, 105–106; 8:95; 210A3:95
 seismic Horizon A, 204B1:31
 Site 682, 112A14:371, 384, 399
 Site 685, 112A17:622–624
 Site 688, 112A20:905, 930
 Site 716, 115A13:1016
 Site 742, 119A11:421–422
 Site 766, 123A35:06
 Site 779, 125A7:129
 time-pressure-volume plots, 164A8:265
 Trujillo Basin, 112A16:544, 546
 void gas samples, 204B15:39–40
 vs. carbon isotopes, 164B7:75; 204B15:28
 vs. depth, 108A3:124; 116A5:106; 6:166;
 133A(1)16:722; 139A7:485; 141A7:211; 8:276–
 277, 283; 10:400; 146A(1)4:81; 6:266;
 151A6:132; 7:185; 8:244; 9:288; 10:334; 12:389;
 13:412; 141A6:117; 156A7:237; 157A6:158;
 9:461; 159A5:109; 160A11:397; 12:438;
 162A5:160; 6:192; 9:310; 10:368; 164A5:88, 96;
 6:125–126; 7:200; 8:269; 9:299; 166A6:91;
 7:161; 8:187; 9:250; 10:312; 11:361;
 167A(1)6:149; 7:170; 8:204; 11:303; 12:340;
 13:371; 16:480; 168A5:146; 169A5:223; 6:284–
 285; 170A5:175–176; 171B_A4:140; 172A3:57–
 58; 5:219; 6:284; 7:317; 175A4:557; 6:557;
 12:557; 13:558; 180A1:48; 5:86; 6:166; 9:118;
 12:122; 180B16:13; 182A5:41–42; 7:45; 9:40;
 184A7:54; 9:66; 186A4:126; 5:71; 186B14:22;
 188A3:133; 190A1:86; 195A3:118; 201A8:36;
 202A4:47; 5:41; 9:62; 10:57; 13:50; 204A1:66;
 3:69; 4:71; 5:36; 6:47; 7:44–45; 8:54; 9:52;
 10:62; 11:41; 204B15:26; 207A9:12–16
 vs. gas volume, 164A8:266
 vs. temperature, 151A7:188; 12:390; 188A3:134;
 204A3:70; 4:72; 6:48; 8:55
 Yaquina Basin, 112A15:458–459, 466, 476
 methane/(ethane + propane) ratio
 gas hydrates, 164B3:30–35; 4:40–45
 vs. carbon isotopes in methane, 164B5:58; 184B13:13
 vs. depth, 139B25:472; 164B5:55–56; 189A3:40–42,
 91; 5:44–45, 90; 6:49, 103; 7:82
 methane gradient, depth correlation, 201A11:53
 methane/higher hydrocarbons ratio, vs. depth,
 162A9:311–312; 166A6:91; 171B_A4:143
 methane oxidation
 biogeochemical cycling, 164B36:388–389
 vs. depth, 164B36:383–389
 See anaerobic methane oxidation zone
 methane oxidation, anaerobic
 carbon cycling, 204A7:10–11; 8:13; 9:11
 community structure, 201A1:17
 gas hydrates, 204A1:6; 3:16
 geochemical cycles, 205B6:1–26
 pore water, 201A11:12–13, 18; 204A6:10
 redox, 204B15:9–10
 sediments, 201A1:15; 207B1:8–9; 9:4–5
 sulfate/methane interface, 204A6:10–11
 sulfate reduction, 204B15:11–14
 methane oxidation rate, vs. depth, 164B8:83
 methane production rate
 assumptions, 204B1:29
 parameters, 204B15:52
 vs. depth, 204B15:37
 methane/propane ratio
 sediments, 162A9:311–312; 205A5:35
 Site 798, 128A4:176, 188
 Site 799, 128A5:339
 vs. depth, 141A10:400
 methane-seawater-hydrate stability zone, thermal anom-
 alies, 204A7:16
 methane/sulfate ratio, sulfate depletion, 164A5:90
 methane volume, vs. carbon isotopes, 164B10:108–110

- methanic zone, pore water, 188A3:45–46
Methanobacteriales
 microbiology, 190/196B1:8
 sediments, 201B1:23
Methanobrevibacter, sediments, 201B2:7
Methanocaldococcus-related phylotypes, sediments, 201B2:7
Methanoculleus submarinus, enrichment, 201B1:15; 3:8
methanogen-specific gene, sediments, 201B1:23
methanogenesis
 acetate, 164B36:389
 anaerobic environment, 204A3:22; 4:18
 bacteria, 127/128B(1)46:767–771; 146A(1)4:80–83; 7:374; 161B34:436; 185B3:5
 carbon dioxide, 174A_B(synopsis):10; 175A21:558–559
 carbon isotopes, 127/128B(1)6:88–90; 164B10:107–111
 carbonate cements, 150B17:321
 community structure, 201A1:17
 diagenesis, 155B30:498–501; 168A4:80; 172A3:60; 4:118; 5:209–211, 223, 225, 228
 dividing cells, 138B26:602
 gases, 162A6:192–193
 high-resolution sampling, 164B9:90
 marine pore water, 201A1:4
 Oman margin S, 117A18:578
 organic matter degradation, 127A5:207; 127/128B(2)79:1262–1263; 149B46:705–712; 161B32:420; 166A9:251; 202A1:22–23
 Peru margin, 112A1:16
 pore water, 127/128B(1)34:607; 161B33:427; 162A8:274, 309; 181A9:19–20; 202A4:14
 processes, 127A5:216
 redox, 161A6:238
 reduction, 151B24:423–425, 429; 162A5:157
 Salaverry Basin, 112A2:41; 112B31:507; 40:612, 615
 sediments, 135B9:148; 146A(1)5:181–183; 146B(1)26:389–391; 27:407–409; 150A8:231; 150B18:329–344; 162A8:272–273; 10:361; 164A6:126–128; 9:298; 166A11:361; 172A6:286–288; 174A_B(synopsis):9; 175A4:103; 177A4:16
 Site 682, 112A14:398
 Site 796, 127A6:267
 Site 797, 127A7:368
 Site 798, 127/128B(1)46:772–773, 776
 sulfate, 168A4:85; 172B3:2–3
 sulfate reduction, 112B31:507; 40:615; 151A12:389–391; 164B8:80–84
 Trujillo Basin, 112A16:544, 563; 112B33:531–532
 vs. depth, 146B(1)27:403–406; 164B36:383–389; 201B1:43
 Yaquina Basin, 112A15:475
 See also sulfate reduction
methanogenesis, microbial, alkalinity, 204B15:14–16
methanogens, enrichment, 201B3:7–9, 19
Methanosaeta, sediments, 201B2:7
Methanosarcina, sediments, 201B2:7
Methanosarcina acetivorans, enrichment, 201B3:8
Methanosarcinales
 microbiology, 190/196B1:8
 sediments, 201B1:23
methanotrophy
 pore water, 201A1:5, 34
 sediments, 146B(1)26:391
methods
 paleomagnetism, 189A(appendix):1–10
 See also LAB-TEC 100
methods, automatic, association of lithologic type with laboratory measurements, 210B7:1–21
methyl. *See* fatty acid methyl esters
methyl ketones
 sediments, 184B18:5, 9
 unsaturation index, 146B(2)19:261
methyl naphthalene, gas chromatographs, 169A6:286
methyl phenanthrene, chromatographs, 169A6:286
methylalkadienone
 gas chromatographs, 139A6:206
 sediments, 139B26:480
methylcholesta, organic-rich layers, 161B30:396–397
methylcholestane, biomarkers, 207A10:6
methylcyclohexane
 gas hydrates, 164B3:30–35
 Site 799, 128A5:321–322
methylcyclopentane
 gas chromatographs, 169A6:284
 Site 799, 128A5:321–322
methylhopanes
 oceanic anoxic events, 198A3:29
 organic matter, 198A9:28–29
methylhopanoids, oceanic anoxic events, 198A9:29
methylpentane, sediments, 180B18:4–14
methylphenanthrenes
 maturation, 139B24:459
 sediments, 155B35:557, 559
 vs. depth, 155B35:559
 See also phenanthrenes
methylpropane, sediments, 180B18:4–14
methylsteranes
 sediments, 141B9:127–129
 Site 766, 123B11:221–222
MG-I. *See* Archaea Marine Group I
miarolitic texture. *See* cavities, miarolitic
miarolitic voids
 fillings, 148B11:155
 secondary minerals, 148B12:187
mica-chlorite schist, photograph, 195A3:94
mica grains, volcanoclastic sand, 180B7:5
(mica + illite)/kaolinite ratio logs, vs. depth, 155A12:366
mica-illite mixture, Sardinian margin, 107B11:165, 167
mica schist
 basement, 173A1:13
 lithology, 173A7:174
 petrology, 180A7:12–13
 photograph, 180A7:35, 40; 195A3:97
 photomicrograph, 180A6:99; 7:35–36, 39
 Prydz Bay, 119A11:453; 119B7:138
mica schist, foliated, photomicrograph, 180A5:50
micas
 alloy liquid metal ion sources, 118B28:735

alteration, 107B11:158; 139A7:498–510; 197A5:19
 Atlantis Bank, 118B8:168
 basement, 173A1:13
 basement/sediment contact, 161A6:213, 215
 chemical composition, 176B9:48
 clasts, 195A5:8
 Coniacian–Eocene interval, 159B12:118
 cumulative percentages, 174AXS_A3:73–77
 dating, 113A10:532; 12:711
 Eocene, 104A4:54–55
 Galicia margin W, 103B30:508
 geochemistry, 157B12:167, 170
 ice-rafted debris, 120B(1)12:172
 lattice spacing, 131B2:31
 lithology, 149A4:51, 119; 155A9:207–209; 10:248–
 249; 11:281; 162A8:263; 9:296, 298; 163X_A6:9;
 167A(1)11:288–291; 169A6:267; 169S_A2:21;
 171B_A4:114, 118; 6:258; 172A4:84–92; 5:164–
 165, 168, 170–174; 173A4:75; 174A_A3:45;
 4:113–115; 5:163; 174AX_A1:26;
 174AXS_A1:23; 4:13–14; 5:28–30; 180A12:8–11;
 180B6:6; 181A4:6; 7:10; 8:10; 182A1:39; 4:6–9;
 12:7; 186A5:12–13; 188A4:14; 189A6:15;
 205A6:8–9; 206A3:25; 210A3:27, 37
 mass accumulation rates, 160B19:231, 234, 237, 240
 metamorphosed gabbros, 118B9:200
 metasediments, 129B1:16
 modal composition, 155B7:150
 Norwegian Sea, 104A4:99
 Pacific Ocean W, 124B31:412–414
 percentage vs. depth, 174A_A3:60; 4:116; 5:164
 petrography, 119B3:50; 161B3:39–46
 photomicrograph, 161A6:247; 161B2:36;
 163X_A6:42; 173A8:251; 180A5:63; 8:48
 plates, 105B1:12
 sandstone, 146B(1)29:425–426
 Sardinian margin, 107B11:160
 sediments, 139A6:208–209; 139B8:116; 146A(1)6:249,
 253; 146B(2)22:301; 155A6:104; 7:137; 8:185;
 13:391–394; 174AXS_A4:49–50; 5:72–76; 6:38,
 86–90
 siltstone, 173A9:270
 silty clay, 155A14:415–417
 Site 698, 114A5:107
 Site 699, 114B37:689
 Site 748, 120A7:230
 Site 765, 123A4:100, 103; 123B2:64
 smear slides, 188A4:15
 thermal diagenesis, 159B6:57–58
 thermal history, 159B10:97–98
 thorium vs. potassium, 171B_A4:167
 veins, 176B9:11
 vs. depth, 113A6:190–191; 9:460; 11:616; 12:711;
 113B6:75; 151B34:619, 622; 155A12:343;
 161A6:200; 7:306; 8:360; 9:399; 161B7:90–92;
 168A5:113; 181A3:39; 186A4:83; 188A4:62;
 189A6:77–78; 7:65; 202A3:25; 4:32
 well-logging, 181A7:46
 X-ray diffraction data, 139B9:142–146; 155A9:212;
 10:255; 11:287; 186A4:90; 190/196B5:7;
 210A3:237

See also biotite; biotite/muscovite ratio; celadonite;
 eastonite; glauconite; hydromica; muscovite;
 muscovite/(muscovite + quartz) ratio; parago-
 nite; phengite; phlogopite; quartz-micaceous
 chlorite rocks; sericite; sericitization; stilp-
 nomelane
 micas, brown, Atlantis Bank, 118A6:119
 micas, detrital
 sedimentation, 161B2:29
 sediments, 204B11:17–19
 vs. depth, 204B11:13–16
 micas, elongate, photomicrograph, 163X_A6:38
 micas, green, Atlantis Bank, 118A6:119
 micas, phlogopitic, hydrothermal alteration, 179A4:43–
 44
 micas, white, composition, 147B15:308
 micrite
 beige layers, 165B7:132–133
 calcite, 133A(1)10:354; 149B34:565–567
 carbonates, 121B25:490; 156B5:84–85
 clotted structures, 119A6:173
 compaction, 165B10:181–183
 Cretaceous, 143B9:138–140
 diagenesis, 202A9:11
 envelopes, 101B17:247
 Exuma Sound, 101A9:344–345
 ferrobasalts, 200B3:5
 Galicia margin W, 103A1:7; 9:221–222; 103B8:108–
 109
 inclusions, 165B7:128, 130
 Jurassic, 129B32:581
 lithofacies, 143B30:492–493
 lithology, 133A(1)6:181; 7:207; 11:423–427; 16:696–
 697; 17:776; 152A11:198; 152B1:14; 159A5:78,
 80; 7:226–227; 8:261–267; 161A5:120–121,
 125–126, 130–131; 165A5:238–242; 166A6:77–
 78; 7:154–156; 8:177; 9:238–241; 11:353–355;
 170A3:56–57; 5:159, 161; 6:195; 180A9:10;
 12:12; 187A7:4–5; 192A3:8; 194A8:4; 7:14;
 200A3:15; 202A8:9–11; 9:8–11; 204A10:8–9;
 210A3:26–28
 Little Bahama Bank, 101A8:273–276
 Maastrichtian, 180B(synthesis):6
 matrix, 173A7:176–177
 Messinian, 161B42:529–541
 microbial origin, 165B14:227–232
 mineralogy, 103B8:125
 Miocene, 133B34:501
 mudstone, 160B46:598
 paleomagnetism, 159B20:201, 203
 Peru margin, 112A6:97, 99
 petrography, 161B7:86–87
 photograph, 144A7:265; 144B24:446; 159A7:228;
 159B13:123; 160A6:133; 7:173; 161A4:70;
 5:126–127; 161B42:532–536; 173A6:119; 7:178–
 179; 8:239; 187A1:26; 202A8:55; 210A3:208
 photomicrograph, 160B37:473; 38:508; 45:593;
 164B29:290; 173A6:118; 8:232; 192A3:54, 60;
 194A3:31; 7:53; 8:30; 210A3:209, 224
 porosity, 143B29:454
 Prydz Bay, 119A8:302–303; 11:409

- sedimentation, 133A(1)16:703; 183A5:8
sediments, 161B1:11–12
seismic units, 165B12:210
Site 699, 114A6:158, 160, 164, 193
Site 700, 114A7:261–262
Site 702, 114A9:490–491
Site 703, 114A10:557, 585
Site 704, 114A11:631–632; 114B24:446, 448
Site 737, 119A6:168; 119B18:357
Site 744, 119A13:480, 482, 503; 119B44:771
Site 748, 120A7:173; 10:1137
Site 752, 121B25:489–492
Site 758, 121B25:489–496, 502
Site 765, 123A4:102–103
smear slides, 188A3:16–17
turbidites, 166B5:50–53, 57–60
Tyrrhenian Sea, 107B38:667
vs. depth, 161A8:363; 161B1:15; 202A7:41; 8:45; 9:46;
10:46; 11:38; 12:48; 13:38
vs. lithology, 141A10:351
within basalt, 203A3:8–9
See also biomicrite; calcite; oomicrite; pelmicrite;
pelomicrite; sparite/micrite boundary
micrite, authigenic, lithology, 202A10:7–10; 13:6–9
micrite, foraminiferal
 photograph, 160A11:390
 photomicrograph, 203A3:40
micrite, layered, photograph, 165B7:136
micrite, pyramidal crystals, photograph, 144B15:304
micrite cement. *See* cements, micrite
micrite envelopes, lithology, 197A5:7
micritization
 clasts, 160B45:583–584
 diagenesis, 144B16:327; 161A5:146
 lithology, 183A7:7–8
 Site 702, 114A9:491
 Site 704, 114A11:629, 636
microamphibolite, breccia, 173A7:188–189; 173B10:4
microalgae, sediments, 175B10:7–8; 184B18:3–5
microbial activity
 alkalinity, 166A9:255
 alteration, 135B44:711–712; 148B13:191–206;
 185A3:50–51; 206A3:86–87
 basalts, 148B14:207–214; 206A1:34–35; 3:308–309,
 390–391
 basin margins, 161B43:548–549
 biogeochemistry, 190A1:35–36
 biomarkers, 149B13:298–299
 black shale, 207A5:27–29
 cements, 165B14:227–232
 expulsion and methane and sulfate separation,
 146B(1)26:391
 fluid flow, 168B1:4–5
 hydrothermal fields, 193A1:7
 methane, 138A(1)11:302
 mineralization, 193A1:27
 organic matter, 159A5:109; 165B19:288–291;
 204A3:17; 207A8:26–28
 peridotites, 209B5:6–10
 pore water, 166A7:162; 181A3:23–24
 sedimentary regimes, 201A1:11–13
 sediments, 169B3:1–19; 205B8:6–11; 207A5:112–113;
 7:105–106; 8:95
 silica, 201B14:9–10
 See also Archaea; *Bacillus*; *Bacillus/Clostridium* group;
 Bacillus subtilis; bacteria; chain reactions; DNA;
 microorganisms; thrombolites; *Vibrio diaz-*
 otrophicus; *Vibrio mediterranei*; *Vibrio* spp.
microbial cells
 nucleotides, 158B26:357–359
 vs. depth, 201A1:70
microbial communities
 biogeochemical flux model, 201B1:27–28
 composition, 201B1:1–45; 201B2:1–19
microbial communities, chemosynthetic, organic car-
 bon, 205B8:10
microbial degradation, photomicrograph, 187A1:39
microbial divergence index
 quinones, 205B8:9–10
 vs. bioenergetic divergence index, 205B8:22
 vs. depth, 205B8:21
microbial diversity, marine pore water, 201A1:5–6
microbial enrichment cultures, peridotites, 209B5:1–38
microbial floc, scanning electron microscopy,
 168B14:170
microbial gases, gas hydrates, 164A1:9–10
microbial generation, methane, 204B15:1–52
microbial mats
 deposition, 144B12:239, 241
 lithofacies, 144B14:283
 lower Aptian, 198A9:3–4
 organic acids, 144B27:474
 sediments, 146B(2)10:142
 wackestone, 143B12:195
 See also algal-microbial mats; bacterial mats
microbial metabolites, reaction-dominated gas hydrates,
 204B15:9–19
microbial populations
 alteration, 187B1:7
 basalts, 187B6:1–27
 detection, 187B1:5–6, 27
 growth, 187B6:23–24
 marine pore water, 201A1:1–81
 phylogeny, 187B6:6–8, 14–19
microbial structures
 lithology, 198A9:11
 photomicrograph, 198A9:50
microbially mediated reactions, geochemistry,
 190A4:18–19; 5:23–24; 6:17–18; 7:14–15; 9:18–19
microbially processed glass, oxide ratios, 148B13:197–
 200
microbioclasts, lithology, 182A10:9
microbiology
 bacteria, 127/128B(1)45:755–760; 79:1262
 basalts, 200B1:10–11; 206A1:34–35; 3:85–87
 basement, 206A3:85–87
 biosphere, 195A1:7; 195B1:14–15; 201B1:10–24
 black shale, 207B1:11–12;:1–6
 community structure, 201A1:16–17
 core quality, 204A3:122; 8:91; 9:91; 10:19, 109
 core samples, 191A4:139; 204B1:16–18
 incubation, 191A4:22–23

- intervals sampled, 204A3:121; 4:118; 8:90; 9:90;
10:108
metaperidotite, 209A1:23
methods, 127/128B(1)45:755–756; 46:761–765
microorganisms, 168B14:169–172
mud, 209A4:4–5, 15
Nankai Trough accretionary prism, 190/196B1:8
objectives, 128A1:18, 24–27; 4:133
perfluorocarbon tracers, 191A4:23
peridotites, 209B5:1–38
pore water, 201A1:19–47
rocks, 187A3:30
sampling, 204A9:15
sediments, 180B(synthesis):15; 19:1–12; 195B3:11;
200A1:15
shallow subsurface, 195A3:37–40
shipboard sampling procedures, 128A4:179
shore-based laboratory studies, 128A4:179–180
Site 798, 127/128B(1)45:755–776; 128A1:24–27;
4:125–126, 178–180
Site 801, 185A3:47–55
Site 1035, 169A3:123–125
Site 1036, 169A4:183–186
Site 1037, 169A5:225
Site 1038, 169A6:288–289
Site 1108, 180A5:34–35
Site 1109, 180A6:60–61; 180B19:1–12
Site 1114, 180A8:32
Site 1115, 180A9:45–46; 180B19:1–12
Site 1118, 180A12:41
Site 1149, 185A4:47–49, 188
Site 1152, 187A3:8
Site 1153, 187A4:4–5
Site 1154, 187A5:4–5
Site 1155, 187A6:7
Site 1156, 187A7:8
Site 1157, 187A8:8–9
Site 1158, 187A9:7
Site 1159, 187A10:4
Site 1160, 187A11:10
Site 1161, 187A12:9–10
Site 1162, 187A13:11
Site 1163, 187A14:5–6
Site 1164, 187A15:9–10
Site 1173, 190A4:23–24
Site 1174, 190A5:27–29, 74, 141–142
Site 1175, 190A6:19–20, 48–49, 86–87
Site 1176, 190A7:16–17, 76–77
Site 1177, 190A8:19–21
Site 1178, 190A9:22–23, 54, 104–105
Site 1179, 191A1:18; 4:22–23
Site 1188, 193A1:16; 3:71–74
Site 1189, 193A1:20; 4:49–52
Site 1191, 193A1:23; 6:8–9
Site 1223, 200A3:39–43
Site 1224, 200A4:6–7, 43–45
Site 1225, 201A6:18–23
Site 1226, 201A7:18–25
Site 1227, 201A8:18–21
Site 1228, 201A9:15–17
Site 1229, 201A10:16–20
Site 1230, 201A11:18–22
Site 1231, 201A12:15–18
Site 1244, 204A3:21–24
Site 1245, 204A4:18–19
Site 1249, 204A8:15–17
Site 1250, 204A9:14–16
Site 1251, 204A10:18–19
Site 1253, 205A1:21; 4:6–7, 49–53
Site 1254, 205A1:32; 5:7, 36
Site 1255, 205A1:35; 6:3, 19–20
Site 1268, 209A3:47–48
Site 1269, 209A4:4–5
Site 1270, 209A5:45–46
Site 1271, 209A6:35–36
Site 1272, 209A7:31–32
Site 1274, 209A9:25–27
Site 1275, 209A10:36–37
Sites 1110–1113, 180A7:22
solid samples, 209A5:45–46; 7:31; 9:25–26
surface water and atmosphere, 209A3:47–48, 171;
5:46, 188; 7:32, 134; 9:26–27, 115; 10:36–37,
167
See also aerobiology; *Desulfovibrio desulfuricans*; divid-
ing cells; dividing cells/divided bacterial cells ra-
tio; geobiology
microborings, lithology, 182A10:11
microboudins, photomicrograph, 209A6:72
microbreccia
 deformation, 173A6:148
 Lima Basin, 112A6:95
 metamorphism, 173A6:136
 Peru margin, 112A6:99; 112B7:100
 petrography, 160B37:471
 photograph, 185A4:100
 serpentine, 173A9:293
 Site 786, 125B14:267
microbreccia, serpentine
 Bonin-Mariana region, 125A12:277
 calcium carbonate content, 125A12:281
 convolute folding, 125B36:605
 deformation, 125A7:128; 12:289–290
 layering, 125A6:112–113
 rheology, 125B36:609
 Site 778, 125B18:328, 331
 Site 779, 125B19:348, 604
 Site 784, 125B19:354
microbreccia, volcanic, Site 793, 126A9:337–338
microcataclasite, basalts, 206A3:78
microcline
 lithology, 175A6:152
 photomicrograph, 190/196B3:27
 vs. depth, 175A9:243
 X-ray diffraction data, 175A9:235; 10:281–282
 See quartz-microcline
microcline/(microcline + quartz) ratio, vs. depth,
 175A10:281
microclinoptilolite, electron microscopy, 185B9:26
microconcretions, carbonate, photograph, 210A3:235
microconductivity, vs. depth, 157B4:39–46
microconductivity logs, vs. resistivity logs, 202A12:72

- microconglomerate
 lithology, 138A(1)10:199; 182A4:10; 210A3:45
 photograph, 138A(1)10:207
- microconglomerate, intraclastic, photograph, 161B1:11
- microcracks
 attenuation, 176B5:8–9
 basalts, 142B7:57
 calcite, 143B12:195
 compressional wave velocity, 153B25:443
 deformation, 123B24:482–485; 147B20:362;
 179A4:53–54
 diabases, 137/140B19:220–223
 differentiation, 176B10:17
 electrical conductivity, 124B7:98, 102–103
 fillings, 142B9:71–72
 hydrothermal veins, 153B9:162
 kinematics, 118B8:159
 lithology, 138A(1)10:199
 opaque mineral petrology, 118B5:116
 photograph, 138A(1)10:207; 139B38:610–612;
 153B8:149; 209A6:55
 photomicrograph, 187A11:25; 12:23; 206A3:260, 269;
 209A10:89
 porosity, 147B25:420, 424–426; 153B25:440–442
 transmission electron microscopy, 147B13:245
See also cracks; fractures
- microcrystalline particles, formation, 157B14:213
- microcrystalline texture. *See* textures, microcrystalline
- microcrystallites, lithology, 183A4:11
- microcrystals, microfabrics, 185B9:9
- microcrysts, feldspar, petrology, 193A6:4
- microcrysts, groundmass, 193A5:5
- microcrysts, plagioclase, photomicrograph, 193A3:165;
 5:9
- microdiabase
 Jurassic, 129B19:362–363
 lithology, 180A6:28–31
 petrography, 129B17:307
- microdikes, amphibole veins, 140A2:105
- microdiorite, Site 786, 125B10:181–182
- microdolerite. *See* microdiabase
- microearthquakes
 forearc basins, 186B1:2–3
 plate motions, 186A1:6
- microfabric
 accreted sediments, 131B18:221–233; 141B1:4–5
 changes, 185B9:1–29
 décollement zone, 190/196B1:6
 diamicton, 152A10:168
 “e” bed, 160B27:336–337
 electron microscopy, 185B9:16, 22–26; 190/196B7:23,
 27
 image processing, 155B26:427–432
 normal faults, 160B49:650
 “O” group, 160B27:337
 photograph, 146B(1)12:210; 160A7:184
 photomicrograph, 178B18:11–14; 185B9:16, 18, 22–
 26; 193B6:15
 sapropels, 160B27:333–348
 sediments, 136B5:65–76; 49:797–804; 139B40:639;
 161B8:99–110; 178B18:1–17; 190/196B7:6–7
- Site 751, 120B(1)12:186–188
- troctolites and gabbros, 147B14:267–268
- vs. depth, 155B26:432–435
- See also* deformation
- microfabric, clay, scanning electron microscopy, 190/
 196B7:23, 27
- microfabric, deformation, photomicrograph,
 147B14:291
- microfacies
 Callovian, 129B32:585
 carbonates, 133B21:292–299
 correspondence factor analysis, 194B5:31
 Cretaceous, 143B10:136–140
 geochemistry, 143B13:209
 limestone, 130B8:104
 lithofacies, 143B30:473–493
 Miocene, 166B5:56
 paleoenvironment, 194B5:7–13
 photomicrograph, 192A6:51–54, 60; 194A3:31–34;
 7:53
 Quaternary, 159B43:589
 sediments, 173B6:1–11
 vs. depth, 194B5:28
See also “chlorozoan” facies; facies; lithofacies
- microfacies, homogeneous, foraminifers, 130B5:75
- microfacies, scleractinian-coralline, Eocene–Mio-
 cene, 133B21:293–294, 297–298
- Microfacies A–F
 coral-red algal rudstone-floatstone, 194B5:8–9
 echinoderm-rhodolitic floatstone, 194B5:11
Lepidocyclus-Halimeda-rhodolitic floatstone,
 194B5:11
Miogypsina-Lepidocyclus-red algal floatstone-pack-
 stone, 194B5:9–10
 nummulitids-*Amphistegina-Halimeda*-rhodolitic float-
 stone, 194B5:10–11
 porcellaneous foraminiferal-red algal packstone,
 194B5:8
- microfacies matrix, carbonates, 194B5:27
- microfaulting
 photograph, 145A5:134–135; 6:223, 225
 Site 783, 125B19:352
 Site 784, 125A12:285, 300; 15:375
 Site 786, 125A14:330
 Torishima Forearc Seamount, 125B36:609
- microfaults
 basalts, 206A3:78
 bedding, 135A(1)11:593
 black claystone, 159B1:5
 Cagayan Ridge, 124A14:402
 Celebes Sea, 124A13:347
 clays, 159B1:6
 claystone, 159A8:279; 159B1:6–7
 décollement structures, 159B3:26, 29
 definition, 112B1:3
 deformation, 160A8:238–239
 dip, 135B20:321; 148A2:68; 160A7:183; 8:247; 9:308;
 10:360; 180A8:21–22; 10:46
 frequency with depth, 160A7:183
 Japan Sea stress field, 127/128B(2)75:1187
 Lima Basin S, 112A19:810, 813, 817

- lithofacies, 135B6:88; 150B11:209–210
 lithologic motifs, 173A7:173
 lithology, 133A(1)16:696–698; 157A9:443–444;
 164A8:248–249; 171B_A4:116; 173A4:84–85;
 175A15:460; 184A4:10; 189A6:18
 lower hemisphere projection, 148A2:70
 magmatic structures, 176A3:59–61
 packstone, 159A6:186–187
 photograph, 130A7:236; 135A(1)11:602; 148A2:70;
 149A4:85; 6:183; 7:237–238; 150A7:146;
 155A17:513; 157A9:446; 10:512; 159A6:189;
 7:240–241; 159B1:7; 160A4:76; 5:109; 6:137;
 7:183; 170A7:226; 171B_A3:55; 4:113;
 175A13:396; 177A4:29, 35–36; 178A4:53;
 189A6:83
 photomicrograph, 206A3:281
 Pisco Basin W, 112A18:718
 pore water, 131A7:282
 preferred orientation, 141B8:110–111
 reorientation, 206B11:14–26
 sedimentation, 150B11:217–220
 sediments, 135A(1)10:523, 526; 149A7:236–237;
 159A5:98–100
 Site 685, 112B2:21; 17:611
 Site 688, 112A20:888
 Site 710, 115A8:596
 Site 713, 115A10:740–741
 Site 721, 117A9:209
 Site 731, 117A19:591–594
 Site 737, 119A6:171
 Site 793, 126A9:334, 336
 Site 798, 128A4:143
 Site 799, 128A5:269–272
 Site 804, 130A6:186
 Site 832, 134A12:407, 419–420
 Site 833, 134A13:508–509
 soft sediments, 161A4:80–81
 structural data, 149A4:84; 160A4:63–64; 6:136;
 11:383–384; 170A5:162; 7:227
 structure, 159A7:239–240; 159B1:6; 2:16; 180A12:29;
 183A4:22–23
 Sulu Sea, 124A11:221–223
 turbidites, 112A11:174
 veins, 112B1:3–4; 3:33; 127/128B(2)75:1180;
 148A3:157–158
 vs. depth, 160A8:244; 170A5:164; 205A4:120
 vs. folds, 173A4:90
 Yaquina Basin, 112A15:451–452
See also microthrusts
 microfaults, anastomosing, structure, 112B3:38;
 126A9:345
 microfaults, conjugate, lithology, 173A4:84–85
 microfaults, crosscutting, late-magmatic foliation,
 118B26:499
 microfaults, extensional, structure, 126A5:77; 8:246;
 10:408
 microfaults, high-angle
 photograph, 160A8:246
 structure, 190A4:10
 microfaults, inclined reverse, photograph, 180A8:74
 microfaults, normal
 hydrothermal alteration, 135B20:316–318
 lithology, 173A4:84–85
 orientation, 134B24:435–437
 photograph, 173A4:87, 91; 180A10:46; 12:98
 Site 793, 126A9:334
 microfaults, reverse
 Formation MicroScanner imagery, 180B24:5–6
 lithology, 173A4:84–85
 photograph, 171B_A5:185–186; 173A4:88, 91
 microfaults, subhorizontal, 173A4:85
 microfaults, subvertical, 173A4:85
 microfaults, synsedimentary, lithology, 180A9:23
 microfauna. *See* diatoms; foraminifers; nannofossils; ra-
 diolarians; siliceous microfossils
 microfissures, flood basalts, 163B2:25–26
 microflame structures, photograph, 210A3:199
 microflasers
 limestone, 192A3:20–21
 photograph, 192A3:56, 62; 6:46, 55
 microfolding, chrysotile veins, 173A7:204
 microfolds
 clays, 159B1:6; 2:16
 compression, 159B1:6–7
 Formation MicroScanner imagery, 129B6:157
 gneisses, 161B20:284
 kaolinite veins, 159B1:5
 microshear structures, 134A9:210
 packstone, 159A6:186–187
 photograph, 134A9:216–217, 221; 159A8:280; 9:304;
 159B2:21–22; 3:31; 210A3:170
 photomicrograph, 161B20:285
 pop-up structures, 159A8:279
 rheology, 159B2:17
 sediments, 159A8:280
 stages, 159B11:104–105
 microfolds, asymmetric
 association with reverse faults, 159B2:23
 photograph, 159B3:32
 microfolds, isoclinal
 décollement structures, 159B3:28
 photograph, 159B3:33; 10:99
 microfolds, slump, Formation MicroScanner imagery,
 134B34:600
 microfolds, synsedimentary, Lower Cretaceous,
 159B2:16–17
 microfossil datums. *See* biostratigraphic datums
 microfossil events. *See* bioevents
 microfossil zonal epoch boundary correlations,
 108A2:42
 microfossil zones. *See* zonation
 microfossils
 abundance, 123B39:745; 133B25:363; 139A5:113;
 7:308–322
 abundance and preservation, 127A1:19; 4:102;
 5:192,–195, 6:269–271; 7:351–354; 128A1:28–
 30; 3:99; 4:158–159, 163; 5:298, 308–309
 assemblages, 123B40:767
 bipolar distribution, 123B39:755
 composition, 187A13:13
 Cretaceous, 123B39:747

- deformation, 146B(1)13:224
 deposition, 152A13:286–287
 electron micrographs, 170B3:25
 ice-rafted debris, 120B(1)14:217–218
 lithology, 123B39:752; 157A6:138, 147; 174A_A3:58
 Miocene, 160B33:422–423
 paleoenvironment, 127A1:20–22; 4:102–103; 5:199;
 6:274; 7:356; 128A3:99–100; 4:166; 5:312
 phosphatized taxa, 127/128B(1)5:64
 photograph, 141B8:115; 144A3:61
 photomicrograph, 165B10:188–189
 physical properties, 120B(1)13:185–186; 130B38:641–
 652
 preconsolidation, 165B10:181–183
 preservation, 127/128B(2)77:1219; 135B11:165–170
 probabilistic zonation, 123B40:759, 765–772
 range chart, 139A7:460–465
 reworking, 127A6:270; 7:356
 sedimentation rates, 161A9:399
 sediments, 187A10:5
 sequence zoning, 139A7:466
 shelf environment, 188A5:19
 Site 748, 120A7:209
 Site 799, 127/128B(1)2:34–35
 smear slide data, 138A(1)9:134
 thermal alteration, 139A7:538
 tuffaceous clayey siltstone, 128A3:68, 89
 turbidites, 135B7:108
 vs. depth, 141A8:253; 152A12:262
 zones, 123B40:764–767
See also diatoms; foraminifers; nannofossils; palyno-
 morphs; radiolarians; siliceous microfossils
- microfossils, aragonitic, Celebes Sea, 124B10:161, 163
 microfossils, calcareous
 biostratigraphy, 124A12:315; 13:355; 14:405;
 124B9:127
 Callovian, 129B32:604
 occurrence, 128A1:28
 vs. depth, 150A9:287; 10:329; 167A(1)12:319
- microfossils, opaline
 organic preservation, 117A4:48
 tests, 120B(1)13:185
- microfossils, planktonic
 summary, 133A(1)9:315
 zonation, 149A4:64; 5:128; 6:178; 7:232
- microfossils, siliceous
 abundance, 127A1:19; 129B3:89
 abundance and preservation, 127/128B(1)20:341–357
 dissolution, 127A5:169; 127/128B(1)20:353
 Leg 127, 127A1:19
 Leg 128, 128A1:28
 lithology, 170A4:106–108
 opal-A/opal-CT transition, 127/128B(1)20:341
 opal dissolution transition zone (ODTZ), 127/
 128B(1)20:342
 preservation, 128A4:137
 productivity indicators, 127/128B(1)25:429–430
 Site 794, 127/128B(1)20:341–357
 Site 795, 127/128B(1)20:341–357
 Site 797, 127/128B(1)20:341–357
 vs. depth, 167A(1)12:319
- microfractures
 amphibolitization, 118A6:117
 Atlantis Bank, 118A6:118
 basalts, 200A4:28; 201A12:11
 breccia, 161B25:335–336
 composition, 134B16:339
 contacts, 118A6:122; 139A6:259–260
 crosscutting olivine gabbro, 118B26:443
 deformation, 173A9:289
 diabasic dike rocks, 148B16:235
 fluid flow, 193B1:30
 Formation MicroScanner imagery, 148B16:240–241
 gabbros, 153A5:207
 hydrothermal alteration, 147B13:250–251
 hydrothermal veins, 153B9:158–159
 intensity vs. depth, 176A3:204
 late intrusive mineralogy, 118B26:474
 lithology, 150A8:220; 209A6:3–4
 orientation, 176A3:63
 origin, 118B26:474
 petrology, 134A9:199; 153A3:63–64
 photograph, 153A3:91; 4:154; 5:203; 153B22:406;
 153A6:225–226, 234; 153B9:160; 176A3:189;
 200A4:97
 photomicrograph, 168A4:74; 209A9:49
 poles superimposed on Kamb-contour plot,
 148B16:235
 quartz, 193B9:4
 sills, 124B19:255
 Site 738, 119A12:238
 Site 746, 119A28:542
 Site 786, 125B14:268
 Site 788, 126A6:106–109
 structure, 148B16:234–235
 Sulu Sea, 124A11:255, 260–265
 textures, 118A6:130
 troctolites and gabbros, 147B14:269
See also faults; foliation; joints; microcracks; micro-
 structures; shear zones
- microgabbro clasts. *See* clasts, microgabbro
- microgabbro norites, oxide
 geochemistry, 118B26:467
 olivine gabbro contacts, 118B26:467; 27:533
 petrography, 118B26:445
 textures, 118B2:38
- microgabbros
 abundance and composition, 176A3:258–259;
 176B8:13–14
 alteration, 209A3:8; 6:13
 Barremian–Aptian interval, 149A6:203
 chemical composition, 149B26:450–455; 176B8:22
 gain-size layering, 179A4:37
 hydrothermal alteration, 209A10:12–17
 intrusions, 176B10:20
 lava, 183A1:14
 lithology, 176A3:15, 65–66; 209A5:8–9; 7:2–7; 10:3–
 10
 ocean–continent transition, 149B47:719
 origin, 176B8:10
 petrography, 179B2:9

- petrology, 149A6:169, 172; 149B36:581; 176A1:12–14; 3:32–33
 photograph, 176A3:108, 209; 209A5:86, 116
 photomicrograph, 179B2:34; 183A4:52; 5:102
 serpentinites, 149B32:543
 xenoliths, 183A4:18–19; 5:34
See also metagabbro; veins
- microgabbros, amphibolitized, photograph, 153A3:72
 microgabbros, foliated, photograph, 149A7:238
 microgabbros, foliated oxide, stereo plots, 209A5:120
 microgabbros, granoblastic, composition, 149A7:233–235
 microgabbros, mylonitized, photograph, 149A6:187
 microgabbros, olivine
 Atlantis Bank, 118A4:102
 basement, 173A1:13
 contacts, 118B2:28; 26:457
 dikelets, 153B11:246
 intrusives into olivine gabbro, 118B26:468
 mineralogy, 118B2:25
 modal proportions, 118A6:110
 petrography, 118B26:445, 447; 176B6:9
 photograph, 153B11:248; 176A1:53
 textures, 118B2:25; 26:467–468
 microgabbros, olivine iron-titanium oxide, petrography, 118B3:48
 microgabbros, oxide, petrography, 176B6:11–12
 microgabbros, oxide olivine
 chemical composition, 176B3:2–13
 dip orientation of contacts, 118B26:464
 lithology, 118B26:462
 petrography, 118B26:448
 microgabbros, porphyritic, photograph, 149B26:452
 microgabbros, troctolitic
 disseminated oxide olivine gabbro, 118B26:460
 geochemistry, 118B26:458
 lithology, 118B26:468–469
 mineralogy, 118B2:24–25
 olivine gabbro contacts, 118B26:457–458
 petrography, 118B26:447
 photograph, 176A3:107
 shear zones, 176A1:8–10
 textures, 118B1:24–25
 undeformed rocks, 118B26:469
 microgabbros, undeformed, photograph, 149B26:452
 microglomeroporphyritic texture. *See* textures, microglomeroporphyritic
- microgranites
 dating, 180B2:10–11
 lithology, 180A5:8–9; 7:8
 microgranulation, dunites, 195A3:17–18
 microhemispheroids, opaline
 growth and bacteria, 114B37:697–698
 Site 699, 114B37:691–693, 699, 703–708
 Site 701, 114B37:698
 mikrokrystites
 Site 612, 150B13:255
 See also microtektites; tektites
 microlaths, basalts, 168A4:65, 69
 microlites
 alteration, 168A4:73; 5:116–129; 185A3:26; 193B1:15
 bacterial habitation, 193A3:225
 basalts, 142A4:57–60; 195A4:21–22; 195B8:6
 diabases, 135A(1)4:137
 groundmass, 206A3:59
 lithology, 187A13:3–4; 14:4; 15:3; 193A4:15–23
 mineral chemistry, 180B8:10
 petrography, 129B17:307; 148B12:172–173; 187A15:5–6
 petrology, 158A8:163; 10:200; 158B18:236; 168A4:65, 69; 193A5:5
 photograph, 142A3:45–46; 148B14:208, 214; 157B12:179; 158A7:132; 8:162; 158B18:246; 193A3:112
 photomicrograph, 157B13:199; 16:291; 180A7:46; 8:57; 9:89; 185A3:99; 187A6:20; 192A4:78, 81–82; 193A3:105, 130, 134, 141, 155, 160; 4:146–147; 195B8:12; 197A3:71; 198B16:21
 pillow basalts, 187A4:3
 plagioclases, 135A(1)5:227; 135B37:615
 quench texture, 129B17:325
 replacement, 206B7:3
 sills, 169A3:92
 volcanic ash, 145B23:349
 volcaniclastics, 157B13:189; 180B7:6–7; 8:8
 microlites, olivine
 lithology, 187A13:3–4
 photomicrograph, 209A7:48
 microlites, plagioclase
 limestone, 203A3:9
 photograph, 142A3:45
 microlitic texture. *See* textures, microlitic
 microload casts, photograph, 210A3:212
 Micromeritics SediGraph, grain size, 155B11:218
 micromorphology
 diamict, 178A6:17–18; 9:18–19
 microorganisms, 193A3:73–74; 4:52; 6:9
 micronodules
 diagenesis, 199B22:8
 diatom frustules, 201B14:9
 lithology, 155A6:92; 8:178–180; 10:246; 13:387–388, 391; 15:443–444; 18:541–542; 19:574–576; 198A3:13
 manganese, 173A9:270, 272
 photograph, 155A15:444–445; 178A8:31
 See also nodules
 micronodules, carbonate, radiolarian tests, 123B1:31
 micronodules, ferromanganese
 chemical composition, 199B14:1–20
 maximum size, 199B14:11
 origin, 199B14:5
 radiolarian-rich intervals, 129B32:591
 scanning electron microscopy, 199B14:13
 Site 800, 129B1:7
 Valanginian, 129B32:596
 micronodules, manganese, lithology, 185A3:6; 198A3:13
 micronodules, manganese oxide, image, 208A7:40
 micronodules, phosphatic, upper Paleocene, 198B9:2–3
 micronodules, pyrite, lithology, 171B_A3:52–53
 microorganisms
 aerobiology, 209B1:18
 alteration, 148B13:196–198

- community composition, 169B3:9–12
- enrichment cultures, 193A3:72–73; 201B3:1–19
- gas hydrates, 204A1:10–11
- iron, 204A3:22
- laser confocal image, 168B14:173
- microbial biomass, 169B3:1–19
- micromorphology, 193A3:73–74
- sediments, 169A5:123–125; 4:183–186; 5:225; 6:288–289
- subsurface biosphere, 158B26:356–359
- thermal waters, 168B14:167–174
- See also* Archaea; bacteria; bacterial cells; chain reactions; *Dehalococcoides*; DNA; *Desulfotomaculum*; *Desulfovibrio profundus*; *Desulfovibrio desulficans*; *Escherichia coli*; Eubacteria; mesophiles; mesophiles/thermophiles ratio; microbial activity
- microorganisms, anaerobic, vents, 168B14:172
- microorganisms, hyperthermophylic, vents, 168B14:172
- micropaleontology
 - biostratigraphy, 181B1:59–60
 - laminated diatom ooze, 138B31:647–663
- micropegmatite, photograph, 153A4:157
- microphenocrysts
 - andesites, 180A7:13–14
 - basalts, 180A7:16; 187A1:8–9; 210B9:14–15
 - basement, 183A6:47
 - diopside-enstatite-ferrosilite-hedenbergite system, 163X_A8:24
 - hydrothermal alteration, 209A7:9–10; 10:12–15
 - lithology, 180A12:9
 - mineral chemistry, 115B3:29
 - olivines, 129B18:348
 - petrography, 200A4:30
 - petrology, 129B5:138; 193A6:4; 193B2:6
 - photograph, 135A(1)4:143; 158B18:246
 - photomicrograph, 160B45:592; 169A3:94; 180A1:62; 5:48–49; 8:56–59; 12:94; 183A6:131; 7:118; 9:87; 187A6:21; 193A3:156; 195B8:12; 200A4:107
 - plagioclases, 137/140B1:6
 - pyroxenes, 137/140B1:14
 - quartz, 183A7:41
 - trace elements, 144B30:523–524
 - volcanic rocks, 197A6:8
 - See also* phenocrysts
- microphenocrysts, augite, photomicrograph, 206A1:80; 3:178
- microphenocrysts, clinopyroxene, hydrothermal alteration, 209A10:12–15
- microphenocrysts, euhedral clinopyroxene, photomicrograph, 187A15:15
- microphenocrysts, magnetite
 - lithology, 193B2:5
 - photomicrograph, 193B2:16
- microphenocrysts, olivine
 - alteration, 192A3:30; 209A7:9–10
 - lithology, 187A3:5–6; 9:3–5; 15:3–7; 197A4:11–19
 - petrography, 187A8:4
 - photograph, 187A12:15; 15:35
 - photomicrograph, 187A12:18; 13:26; 14:12
 - pillow basalts, 187A4:3
 - microphenocrysts, partially resorbed plagioclase, photomicrograph, 187A3:17
- microphenocrysts, plagioclase
 - basalts, 145A5:136
 - photograph, 145A6:227
 - photomicrograph, 190/196B3:25; 187A9:16; 14:12
- microphenocrysts, skeletal olivine, photomicrograph, 187A5:11; 8:16
- microphenocrysts, spinel
 - petrography, 187A12:4
 - photomicrograph, 187A12:16
- microplankton, alveolate, Site 724, 117B36:593
- microplankton evolution, Lower Cretaceous, 198A1:14–15
- microplates
 - rotation, 160B54:775
 - See also* plate tectonics
- microporosity
 - backscattered electronic images, 161B8:104
 - microfabric, 185B9:8–9
 - photograph, 198B16:20
- micropumice, volcanic ash-flow tuff, 127/128B(2)48:793
- microquartz
 - lithology, 183A8:6; 198A3:15
 - photomicrograph, 198A3:74
 - sandstone, 127/128B(1)9:144–148
 - siliceous rocks, 198B17:7
- microresistivity logs
 - boreholes, 197B5:1–22
 - Formation MicroScanner imagery, 157A9:476; 172A6:302; 192A6:44–45, 56
 - Site 908, 151A6:151
 - turbidites, 166B5:49; 180B9:1–30
 - vs. depth, 151A7:208; 9:305; 166A6:107–108; 8:200; 9:262–263; 208A4:66; 6:80–82
 - well-logging, 129B6:159
- microripples, photomicrograph, 155A11:280
- microscleres, Quaternary, 144B3:73
- microscopy, scaly fabric, 156B4:61–69
- microseismicity, shallow-angle normal faults, 180B(synthesis):16–18
- microsequences
 - lithology, 159B43:587–588
 - photograph, 159B43:589
- microshear bands, photomicrograph, 209A6:75
- microslumps, sediments, 159B2:16
- microslumps, synsedimentary, Lower Cretaceous, 159B2:16–17
- microspar
 - lithology, 173A6:112–114; 7:176–177; 180A12:12
 - photograph, 173A6:119; 7:178–179
 - photomicrograph, 173A6:118
- microsparite
 - carbonate veins, 156B5:84–85
 - dolomite, 201B13:5–6
 - lithology, 182A10:10; 210A3:42, 50–52
 - petrography, 161B3:42
 - photomicrograph, 201B13:22; 210A3:209
 - Site 739, 119A16:302
 - See* dolomicrosparite
- microsparite, idiotopic, dolomite, 201B13:6

- microsphaerosiderite, lithology, 174AXS_A5:42
 microsphere tracers
 basalts, 187B1:6; 206A3:391
 culture experiments, 209B5:26
 detection, 187A3:30; 13:11; 14:5–6; 15:9
 fluorescence, 185A4:190
 microbiology, 205A5:113
 see also fluorescent microspheres
 microspherules, carbonates, 151B24:419–421, 429–434
 microspherulites
 lithology, 193A3:24
 photograph, 193A4:89
 photomicrograph, 183A5:109; 193A3:114–115
 microspores, sporomorphs, 183B3:7
 microstromatolites, lithology, 198A3:14–15
 microstructural controls
 fabric, 137/140B21:245–252
 strain localization, 137/140B19:219–229
 veins, 137/140B20:236–239; 140A2:91–92, 95–96
 microstructures
 accreted sediments, 146B(1)12:201–216
 anorthosite veins, 173A6:141, 143
 basalts, 206A3:73–74
 bioturbation, 105B42:807–808
 deformation, 141B2:13–26; 179A4:54
 detrital carbonate, 105B42:805
 diabases, 137/140B19:220, 223
 diagrams, 159A9:305
 fine-grained sediments, 105B42:807
 frontal thrust, 146B(1)13:217–232
 gabbros, 153A5:209; 153B6:101–105; 8:151–153;
 176A3:63–64; 179B(synthesis):34–35
 harzburgites, 209A3:6
 Izu-Bonin forearc, 126A10:224; 14:318
 Labrador Sea, 105B42:799–802, 806
 lithology, 105B42:803
 metamorphic rocks, 161B20:284–288
 microfabric, 185B9:8–9
 oceanic crust, 148B28:365–374
 overburden stress, 105B42:807
 particle alignment, 105B42:804, 808
 peridotites, 149B22:399–405
 photograph, 141B8:116; 153B6:118–121; 8:149
 photomicrograph, 161B20:286; 173A7:201
 physical properties, 131B10:137
 preferred orientation vs. depth, 105B42:807
 Quaternary, 159B43:589
 remolding, 105B42:805, 807
 rheology, 159B2:17
 scaly fabric, 156B4:67; 22:286–287
 scanning electron microscopy, 190/196B7:1–27
 sediment zones, 105B42:799, 803–805
 sediments, 141B8:105–117; 155B26:421–446;
 150B20:363
 shear zones, 153B7:128–129
 Site 793, 126B41:618
 Site 799, 127/128B(1)2:33–48
 textures, 176A3:63
 underconsolidation effects, 105B42:808
 uplifts, 159B2:18
 variations, 105B42:800
 vs. depth, 153A5:208–209; 7:271
 See also cataclastic zones; deformation; faults; folia-
 tion; fractures; joints; microfaults; microfolds;
 microfractures; pillow-in-matrix; sedimentary
 structures; shear zones; structures
 microstructures, brittle, photomicrograph, 176A3:194
 microstructures, clay, photograph, 144B19:397
 microstructures, crystal-plastic, photomicrograph,
 176A3:190–191
 microstructures, high-temperature, recrystallization,
 176A3:63–64
 microstructures, open, scanning electron microscopy,
 190/196B7:20
 microstructures, semibrittle
 photograph, 153B8:149
 photomicrograph, 176A3:190–191
 microstylolites
 genesis, 130B26:445–451
 limestone, 192A3:21
 photograph, 192A3:74
 photomicrograph, 192A3:51, 75; 6:47
 sediments, 130A9:388; 165B10:177–190
 See also stylolites
 microtektites, upper Eocene, 177B(synthesis):5
 microtektites
 lithology, 150A8:218
 Miocene–Pliocene interval, 189B1:18
 petrography, 150X_B3:35
 photograph, 150A8:220; 150B13:262
 reworking of foraminifers, 150B1:14
 stratigraphy, 174AXS_A2:3; 184B2:9
 unconformities, 150A8:243
 upper Eocene, 177B(synthesis):5
 See also microkrystites; tektites
 microtextures
 diagenesis, 141B11:158–160
 hydrothermal alteration, 209A5:12
 microthermometry
 anhydrite precipitation, 158B10:122–123
 fluid inclusions, 135B40:658; 148B7:89–94;
 157B22:378; 26:432; 158B13:166–170; 14:182–
 183; 210B5:1–21
 palynomorphs, 188B3:9
 quartz veins, 159B6:51
 See also fluid inclusions; geothermometry; tempera-
 ture
 microthermometry, high-temperature, melt inclusions,
 137/140B12:131–132
 microthrusts
 folds, 135B20:323
 lizardite veins, 173A7:204
 mid-ocean-ridge basalt, 135B25:433–455; 55:888–894
 sediments, 135A(1)11:606
 See also faults
 microveins
 deformation, 160A8:241
 structural data, 160A14:481, 483
 serpentinites, 209A7:8–9
 See also veins
 microvesicles
 lithology, 183A5:15

- groundmass, 193B2:7
- photomicrograph, 193A1:78; 4:108; 5:8–9
- See also* vesicles
- microwave spectra, sea ice, 151A4:51
- mid-Brunhes event
 - benthic foraminifers, 177B14:8
 - diatoms, 167B6:120
 - oxygen isotopes, 177B(synthesis):44
 - Pliocene/Pleistocene boundary, 177B(synthesis):43
- mid-Brunhes transition. *See* mid-Brunhes event
- mid-Cenomanian event
 - anoxic conditions, 207B1:6
 - oceanic anoxic events, 210A1:20
 - postrift sedimentation, 210B1:27
 - stratigraphy, 207A1:21
- mid-Cretaceous unconformity (MCU), Straits of Florida, 101A5:52
- mid-Cretaceous superplume, eruptions, 129B18:349–351; 33:629
- mid-Epoch 10, carbonate dissolution, 138B35:732–735
- mid-Maastrichtian event
 - biostratigraphy, 198B1:11, 27
 - stratigraphy, 198A1:33–34, 37, 41, 44, 67–68; 5:7; 7:2–4
- mid-Maastrichtian reversal, deep waters, 171B_A7:355–357
- mid-ocean-ridge basalt (MORB)
 - barium, 119B16:315–316
 - Celebes Sea, 124B20:296; 22:315–319
 - comparisons, 123A1:12; 124B20:295
 - composition, 151B19:355–356; 187B2:1–26
 - distance from spreading ridge, 115B11:115
 - emplacement, 125B24:409–410
 - formation modeling, 124B22:317–319
 - fractionation, 115B7:81
 - geochemistry, 115B2:12, 18–19; 7:73; 129B21:409–411; 136B9:111–115; 142B4:34–35; 12:87–89
 - interlaboratory comparison, 142B10:75–81
 - island-arc tholeiite association, 125B24:407
 - isotopic boundary, 187A1:1–49
 - isotopic composition, 115B5:58; 123B42:796
 - Jurassic crust, 129B19:377–378
 - lead isotopes, 115B5:55
 - magmas, 126B26:383
 - magnesian composition, 115B6:67
 - magnetic properties, 187B7:1–25
 - Mariana forearc, 125A4:75
 - melting, 123B42:791
 - Nicoya Peninsula, 170A1:7
 - noble metals, 115B7:81
 - Pacific Ocean W marginal basins, 124B3:47
 - Site 765, 123A4:187
 - sources, 115B6:63
 - strontium isotopes, 115B5:55
 - sulfur isotopes, 126B29:449
 - Sulu Sea, 124B19:257–258
 - Sumisu Rift, 126B26:396, 398
 - See also* transitional MORB mantle isotopic signatures
- mid-ocean-ridge basalt, near-normal
 - composition, 135B26:476–485; 38:639
 - geochemistry, 135B28:509–517; 29:525; 52:839–840
 - trace elements, 135B24:391–406
- mid-ocean-ridge basalt, normal-type
 - composition, 142B1:3–8; 2:9–22
 - fractionation, 142B6:41–49
 - geochemistry, 129B19:369
 - magma chambers, 142B3:28
 - Site 801, 129B22:415–427
 - Site 802, 129B18:348–351
 - trace elements, 126B31:477; 129B18:358
- mid-ocean ridges
 - chromitites, 209A1:35–36
 - collisions, 141A2:12–20
 - composition, 153A1:10–11
 - crystalline rocks, 153A3:114–115
 - hydrothermal fields, 158A1:5–14
 - hydrothermal systems, 147B10:189–212
 - kinematics, 152A1:6–9
 - lithosphere, 153A1:5
 - magmatic–hydrothermal transition, 176B4:1–56
 - melting, 137/140B12:136–138
 - rifting, 137/140B2:19–33
 - serpentinization, 153B2:23–34
 - tectonics, 147A1:5; 151A1:5–9
 - zircon provenance, 209B1:18
 - See also* spreading ridges, slow
- mid-ocean ridges, fast-spreading, magma, 147B2:21–58
- mid-ocean ridges, slow-spreading, subsurface biosphere, 158B26:355–360
- mid-Paleocene biological event
 - composite digital images, 208A1:98
 - critical events, 208A1:35; 208B1:10
 - stratigraphy, 198A1:32, 40, 44–45, 71; 5:5; 7:2–4; 8:4
- mid-Pleistocene climate revolution
 - biostratigraphy, 164B34:361–362; 177B14:8; 181B1:20–23; 184B11:4–5
 - evidence, 175B(synthesis):19–20; 23:19
 - ice sheets, 151B26:445–465
 - ice-rafted debris, 177B(synthesis):14, 21
 - indicators, 151B30:498–503
 - nature of event, 130B9:390–391
 - oxygen isotopes, 177B(synthesis):43–44; 181B1:34
 - paleoclimatology, 172A7:314, 317–318; 175B23:1–46; 202B12:9
 - pebbles, 178B11:6
 - productivity, 154B18:269–284
- middle Miocene global climate transition, 189B1:18
- middle shelf, topography, 178A2:10
- middle shelf high
 - sedimentation, 178A2:10–11
 - tectonics, 178A2:8, 10
- middle slope-basin facies, lithology, 190A6:6
- middle slope paleoenvironment, 192A4:13
- migmatites
 - fission tracks, 161B21:295–307
 - gneisses, 161B20:283–284
 - metamorphism, 161B23:310
 - mineral assemblages, 161B23:313–314
 - See also* diatexite
- migration, gas hydrates, 164B1:8–9
- “mikado-like” aragonite needles, lithology, 195A3:13–14
- Milankovitch Chron, age model, 175A22:563–566

Milankovitch cycles

age models, 177B12:3–4
 Atlantic Ocean E tropical, 108A2:32; 4:228
 Baffin Bay, 105B39:771
 Cagayan Ridge, 124B29:385
 carbonates, 182B14:9
 climate change, 117B9:205–206; 146B(2)9:131–132
 climatic overprints, 133B25:362–363
 cooling, 144B18:368
 deposition, 161B7:96
 difficulties in analysis, 105B39:762–763
 dissolution, 130B35:593–594
 downhole-log detection, 105B38:757–758
 eccentricity discontinuities, 129B30:544
 eolian mass accumulation rates, 117B9:205, 209
 foraminifers, 154B12:190–192; 29:444–449
 Formation MicroScanner imagery, 127/
 128B(2)66:1043–1044
 Fourier analysis, 143B20:317–326
 gamma ray attenuation density, 130B37:623–639
 glaciation, 130B30:513–516
 hydrologic budget, 117A1:8
 indicators, 165B16:246; 175A22:523, 526
 Labrador Sea, 105B39:760, 771
 lithofacies, 188A3:54; 188B1:38
 lithology, 117A9:242; 165A6:305, 308; 181A1:24; 9:7–
 8; 181B1:47, 56–57
 lower Eocene ooze, 199A8:6
 lower–middle Eocene, 189B1:10
 magnetic polarity subchron, 171B_B9:7
 major elements, 181B1:27–28
 marine isotopic stages, 177A1:27
 monsoonal effects, 117A3:42; 10:303
 Neogene, 208A1:10–11
 Oligocene–Miocene interval, 192A3:18
 organic matter, 167B10:158–160
 Owen Ridge, 117A1:9
 oxygen isotopes, 150A2:12
 Pacific Ocean E, 138A(1)1:9
 paleoceanography, 161B29:387–389
 paleoclimatology, 130B20:349–362; 154B28:433–439;
 162A1:15; 177B(synthesis):23
 Paleogene, 171B_A1:8–9
 periodicity, 133B15:199, 201
 physical properties, 178B32:8–15; 182A1:30
 Pleistocene, 133B24:340–343
 Q-values, 135A(1)7:318
 Quaternary, 130B21:370
 rock magnetism, 154B11:185–186
 sediment color cycles, 117A9:211
 sedimentary response, 105B38:757
 sedimentation, 138A(1)11:280–281; 146B(2)22:302–
 304; 175B9:1–23; 188B1:13–14; 201A7:12
 sediments, 177A1:12; 182A1:16; 182B1:13; 188A3:51–
 53
 Site 693, 113B19:246–248
 Site 704, 114B29:562
 Site 800, 129B32:598
 Site 801, 129B32:598
 Site 847, 138A(1)12:373–374

spectral analysis, 114B29:551–576; 30:583–584;
 154B7:140–143; 18:276–280
 stable isotopes, 138B17:385–387
 stratigraphy, 114B29:551; 30:580, 582; 199B17:4
 terrigenous component, 167B18:231, 233
 Upper Jurassic, 129B32:602
 Upper Jurassic–Lower Cretaceous interval,
 129B30:529–547
 upwelling, 175A1:15
 Valanginian, 129B32:596
 Valanginian–lower Hauterivian, 129B32:597
 volcanism, 181B1:25–26
 vs. depth, 188A1:61–62
 well-logging, 113B19:245–246
See also cyclic processes; cyclostratigraphy; insolation;
 orbital cycles

Milankovitch forcing

cyclic processes, 151A9:302–304
 sedimentation rates, 175B23:11–13
 sediments, 151B26:451

miliolids

abundance, 144B6:131; 9:174–187
 Atlantic Ocean S subantarctic, 114A10:565
 Australian distribution, 123B14:280, 283
 biostratigraphy, 133B26:366–371
 Mascarene Plateau, 115A11:855
 microfacies, 133B21:292–293, 297–298
 photograph, 171B_A6:261–262
 photomicrograph, 210A3:133
 range chart, 139A5:114–118
 Site 821, 133B21:292–293, 297–298; 26:366–371
 turbidites, 166B5:57–60

Miliolina, turbidity currents, 157B17:307–309

Miliolines

photograph, 134A11:341
 photomicrograph, 160B33:425–426

millennial cycles

cyclic processes, 167B32:354–355, 372–373
 monsoon, 184A1:12
 Neogene, 167B32:354–363
 sediments, 167B22:257–260
 stratigraphy, 184B2:6–7
 upper Quaternary, 167B25:277–296

millennial timescales, tectonics, 177B(synthesis):1–55

millerite

alteration, 168B10:126; 209B1:10
 Costa Rica Rift, 111B3:30
 green amphibole, 118B5:117
 igneous rocks, 209B3:4–5
 iron-nickel-sulfur-oxygen system, 209A3:97
 secondary minerals, 168A5:128
 vs. depth, 209B3:10

millipede structure. *See* structures, millipede

mineral abundance, tomography, 158B16:201–210

mineral aggregates. *See* saussurite

mineral assemblages

basalts, 203A3:78
 high-grade schist, 161A6:228, 230; 161B19:271–272;
 20:282–283
 metamorphism, 161B18:252, 254
 pelitic and migmatite gneiss, 161B19:272–273

- pressure-temperature conditions, 161B44:566–567
- sediments, 155A7:137; 8:185; 12:335–338; 13:391–394; 14:415–417; 155B7:168
- veins, 200A4:39–40
- vs. depth, 197A6:75
- mineral/boehmite peak area ratios, Owen Ridge, 117B9:200–201
- mineral chemistry
 - altered ultramafic and mafic rocks, 147B15:298–301
 - andesites, 134B18:366–367
 - apatite, 179B2:12
 - basalts, 129B17:305–343; 134B17:356; 142B1:3–5; 147B9:180–182
 - biotite, 179B2:12
 - calc-silicate rock, 161B18:255–256
 - clay minerals, 152B34:420–422
 - clinopyroxenes, 157B22:379; 179B2:10–11
 - dacite lava, 193B2:8–9, 30–31
 - diabases, 137/140B3:35–38; 180B3:7
 - ferrobasalts, 200B3:6–8
 - fractionation, 129B17:308
 - gabbroonorites, 147B1:4–6
 - gabbros, 147B29:480, 482; 153B28:491–495; 176B4:45; 8:1–60
 - hydrothermal veins, 153B9:167–170
 - igneous rocks, 134B16:342–344; 143B15:246–247, 251
 - iron-titanium oxides, 179B2:11–12
 - lava ponds, 206B5:6
 - major elements, 209B4:4–5
 - metamorphic minerals, 153B31:534–539
 - metamorphic rocks, 161B20:284, 287–288
 - olivines, 157B22:378–379; 179B2:10
 - orthopyroxenes, 179B2:11
 - peridotites, 153B12:266–270
 - plagioclases, 179B2:10
 - secondary minerals, 148B8:99–103
 - silicates, 176B10:1–60
 - sulfides, 169B5:1–34; 176B7:5–7, 26
 - ultramafic rocks, 153B26:457–470
 - volcanic ash, 134B21:405–407
 - volcanic rocks, 152B33:403–416
 - volcaniclastics, 180B8:9–10
 - zeolites, 152B34:419–420
 - See also* crystal chemistry
- mineral composition
 - authigenic carbonates, 204B5:7–8
 - basalts, 206B5:24, 29–32
 - lithology, 152A10:171
 - mid-ocean-ridge basalts, 187B2:1–26
 - sediments, 156A7:204–213, 216–217, 220
 - vs. gabbro magnetic susceptibility, 176B11:20–29
- mineral fragments
 - sand, 190/196B3:5, 7
 - sedimenticlastic sandstone, 190/196B3:8–9
- mineral inclusions
 - authigenic minerals, 149B31:531–532
 - basalts, 147B9:174–179
 - lithology, 176A3:20–21
 - photomicrograph, 173A7:191
 - See also* inclusions
- mineral intergrowths, lithology, 176A3:21
- mineral lineation
 - strike-slip faults, 159A6:187
 - See also* lineation
- mineral-liquid disequilibrium, spinel, 127/128B(2)51:844
- mineral matter, fluorescence, 180B10:5
- mineral-melt partition coefficients
 - basaltic magma, 153B10:228
 - olivines, pyroxenes, and garnets, 153B10:219
- mineral precipitation
 - hydrothermal solutions, 157B26:436
 - hydrofractures, 148B17:250
- mineral saturation indexes
 - pore water, 195A4:34–36
 - vs. depth, 195A4:208
- mineral separates
 - major elements, 158B2:27–39
 - geochemistry, 209A6:123
- mineral standards, light absorption spectroscopy, 199A5:4–5
- mineral surface area
 - carbonate content, 157B34:588
 - vs. organic carbon, 157B34:589
- mineral textures. *See* textures, mineral
- mineral zoning. *See* zoning, mineral
- mineralization
 - alteration, 134A13:508; 135B40:658; 193A1:27; 193B1:12–29
 - authigenesis, 201B1:25–26; 202A1:24–25
 - deformation, 141A7:195–196
 - distribution, 193B1:53
 - extent, 139A6:230–231
 - faults, 159A6:186
 - gold, 193B3:4
 - hydrothermal fields, 158A1:9–10; 158B1:6–7, 21–22; 15:195; 16:201–210
 - lead isotopes, 158B8:101–109
 - magnetization, 139B2:32–34
 - organic matter, 201B1:7–8
 - photograph, 159A8:280; 182A10:43, 45
 - pyrite, 158A10:178; 11:211; 159B1:5–7
 - remanent magnetization, 158B25:337–351
 - sediments, 167B32:345
 - serpentinized peridotites, 153B3:52, 54
 - stratigraphy, 158A7:68; 169A3:46–51
 - sulfides, 139A7:343, 345; 139B44:713–714; 158A8:144; 169A3:58–89; 6:259; 169B10:10–11; 193B1:22–23; 3:3–4; 209B3:1–18
 - sulfides and oxides, 193A3:52–58
 - veins, 134A4:45
 - See also* ore deposits; precious metals; remineralization; sulfides
- mineralization, ferromanganese, guyots, 144B22:424
- mineralization, hydrothermal
 - deformation, 180B(synthesis):16
 - petrology, 158B1:5–26; 22:307
 - lateral variations, 158B1:17
- mineralogical properties, alteration, 148B12:171–189

- mineralogy
 abundance, 105B43:821–822; 107A6:142–143;
 123A3:47; 125B17:317
 alteration, 121B32:659; 125B9:150; 28:489–490
 aluminous silicates, 116B6:62
 ambiguous origin, 118B8:166–170
 amphiboles, 118B9:190, 197–198
 Arabian Peninsula, 117A3:35
 Argo Abyssal Plain, 123B41:786, 788
 associations, 123B2:57–59; 41:780, 783–784
 Atlantic Ocean E tropical, 108B15:262–263, 272–277;
 17:301–302
 Atlantis Bank, 118A3:99; 118B1:5; 4:108–115; 9:189–
 200
 Australian NW margin, 123B41:788–789
 authigenesis, 124B13:183–184; 126A9:373
 Baffin Bay, 105B7:85
 basalts, 113B1:6–7; 121A10:278; 11:323–324; 12:392;
 195B8:1–24; 210B9:14–15
 basement, 183A5:30–34
 bimodality, 118B2:27, 33–34; 4:78, 86; 26:444
 breccia matrix, 173B1:1–14
 bulk sediments, 105B6:76; 8:102, 105
 Cagayan Ridge, 124B31:410–414
 carbonates, 160B35:447–448; 166A3:33–34;
 166B6:61–76; 13:141
 Celebes Sea, 124B31:410–414
 chemical and physical properties, 121B16:365;
 126B6:104–105
 chemical composition, 124B35:469, 478–481
 clastic sediments, 157B17:298, 302–304
 clay minerals, 169B6:1–24
 cogenetic mineral chemistry, 144B30:514–525
 Cornaglia Terrace, 107B14:216
 covariation, 118B1:12–13
 Cretaceous/Tertiary boundary, 171B_4:1–26
 crystallization model, 118B2:35; 121A11:323
 cumulus phase changes, 118B3:49
 d-spacing, 126A7:150
 data summary, 176B5:42–69
 dating, 113A5:99; 6:197
 deformation, 118B6:128–129; 8:176–177
 detrital minerals, 127/128B(2)78:1238–1249;
 141A9:314; 10:350
 detrital sediments, 119A6:168
 diagenesis, 123B41:784–786; 201B13:1–34
 downcore variations, 165A5:241; 6:303
 drift deposits, 145B43:657–660
 elastic fraction, 117A3:42
 elements excluded during fractionation, 118B4:86
 feldspars, 118B9:198–199
 fluctuations, 105B6:80
 gabbro-norites, 147B1:4–6
 gabbros, 118B26:481, 484–485; 153B17:334–335;
 27:471–490; 176B(synthesis):17–18
 genetic relationship between rock types, 118B2:33–35
 geochemical section, 121B32:625, 633; 158B27:366–
 367; 28:394–395
 grain size, 121B17:379, 382
 groundmass phases, 121A10:275; 11:323–324; 12:392
 heavy minerals, 107A12:961; 107B1:29–34;
 120A7:230; 120B(1)12:167
 high water/rock deformation assemblage, 118B8:177
 hydrothermal alteration, 139B8:113–131; 169A3:83
 igneous rocks, 118A4:65–67; 118B2:26; 121B29:567;
 126B28:440–442
 immiscible siliceous vs. iron-rich liquids, 118B4:101
 incompatible elements, 118B8:166–167
 Indus Fan, 117A8:180–182
 Indus Ridge deposits, 117A3:39
 interflow-unit differences, 121A11:324, 326
 intrasite correlation, 107B11:153–155
 inversion, 105B38:767; 43:814–815
 iron-titanium oxide gabbros, 118A6:115–116
 Islas Orcadas Rise, 114B35:662, 665
 Labrador Sea, 105B6:77; 43:816–817, 833
 late differentiation, 118B5:97
 light absorption spectroscopy, 199A5:1–20
 light mineral composition, 116B6:64–65
 Lima Basin C, 112A11:183
 lithofacies, 161B2:21–36
 lithology, 116B6:60–62; 117A3:39; 118B4:77; 9:184–
 185; 119B14:276–287; 123B2:57–59, 62;
 41:787–789; 125B19:358–359
 lower-interval distribution, 105B38:769
 mafic rocks, 118B3:45, 46, 64; 121B14:287;
 139B38:606–608
 magnetic heating and cooling, 116B27:342–343
 magnetic mineralogy, 121A10:282–283; 11:333;
 121B28:526, 534, 539
 magnetic properties, 117B22:392; 121B17:385;
 39:822; 207B3:5
 magnetostratigraphy, 208B4:1–24
 major events, 105B6:77–79
 Marsili Basin, 107B4:51; 19:309
 metalliferous sediments, 107B16:245, 247
 metamorphic assemblages, 118B8:171–172; 24:420;
 125B25:416–423; 36:606, 611
 metasediments, 173A8:247–249
 Meteor Rise, 114B35:662, 665
 microchemical analyses, 105B7:87
 Mid-Atlantic Ridge SW, 114A8:372; 114B35:662, 665
 mineral orientation, 118B12:248–249
 minor elements, 118B3:51, 53, 56
 modal analysis, 116B6:61–62
 mudstone, 107B19:312
 multisensor track data, 162B18:247–257
 nanofossil clay, 184B14:1–10
 normative vs. microprobe compositions, 118B1:5
 Norwegian Sea Overflow Water, 105B6:80
 olivine vs. iron-titanium oxide gabbro, 118B3:59
 opaque minerals, 118A4:66; 6:101; 121A10:275
 oxidative assemblages, 121B2:56
 oxide-bearing vs. oxide-free gabbros, 118B26:475, 486
 oxide-free gabbros, 118B26:476–477
 oxides, 116B6:62
 paragenesis, 124B13:184–186; 125B25:423–426
 Peru margin carbonates, 112A6:106–107
 petrography, 185A4:168
 phase layering, 118A4:66
 pillow basalts, 168B10:119–157

pore water chemistry, 125B7:129
 preferred orientation, 118B26:505
 primary mineralogy, 121A10:275, 278; 12:392–393
 regional correlation, 123B41:788–789
 sand, 146B(1)2:34–42
 Sardinian margin, 107B4:52–53; 14:214, 217
 seawater interaction, 125B19:359
 secondary minerals, 118B9:199–203; 119B16:316;
 121A10:275, 278; 11:324; 11:330; 12:393;
 121B28:542; 30:563; 123A4:183, 185;
 123B9:191–193; 124B20:277–278; 126B28:436–
 439
 sediment provenance, 116B6:64–72; 180B6:1–53
 sedimentary layers, 107B17:258, 272, 279
 sedimentological factors, 116B26:332–335
 sediments, 145B15:231–245; 149B40:748–749;
 157A4:77; 5:124; 6:156; 7:351–354;
 160B18:219–226; 161B1:7, 11–12; 8:99–110;
 166A3:34; 182B14:1–17
 seismic velocity, 153B25:444–445
 serpentinites, 149B32:541–552
 serpentinization, 153B20:382
 sheeted dike complexes, 137/140B14:155–166
 shock-metamorphism minerals, 121B25:489
 silica, 121B13:261–262
 Site 261, 123B41:780–784
 Site 698, 114A5:107, 109
 Site 699, 114A6:158; 114B37:688–689, 698
 Site 700, 114A7:261; 114B34:651–652; 35:662, 665
 Site 722, 117A10:282–283
 Site 723, 117A11:349–352
 Site 726, 117A14:462
 Site 765, 123A3:47; 4:149–152, 247; 123B2:60–61;
 33:603
 Site 766, 123B41:780–781
 Site 778, 125B19:344
 Site 781, 125B7:118–119, 122
 Site 782, 125B7:119–120, 123
 Site 783, 125B7:121, 125
 Site 784, 125B7:121–122, 126
 Site 786, 125A14:318; 125B7:122, 124, 127
 Site 793, 126B28:432–436
 Skaergaard Intrusion, 118B4:78–79, 95, 102
 smectite-illite vs. feldspar-quartz, 105B6:80
 Somali Peninsula, 117A3:35
 source provinces, 107B1:33; 118B7:149
 sulfides, 139B18:373–385; 158A7:72; 169A6:269–270
 Sulu Sea, 124B11:253; 14:410–414
 Sumisu Rift, 126B12:187–188
 synkinematic origin, 118B8:160, 163
 temperature of alteration, 118B9:209, 211
 tephra, 119B17:325
 thermodynamic correlation, 126B34:524–525
 tholeiitic high-iron differentiation, 118B4:95
 turbidites vs. nannofossil ooze, 117A9:233
 Tyrrhenian Sea, 107B19:309
 ultramafic clasts, 125A6:102
 unimodal distribution, 118B3:61
 upper-interval distribution, 105B38:768
 variations within rock types, 118B2:23, 27–31; 3:49,
 59; 26:474–475

veins, 209A5:176; 6:121; 9:67, 104; 10:86, 97, 157
 velocity, 118B11:233
 vesicle fillings, 121A11:324–325
 volcanic ash layers, 121B14:273
 volcanoclastics, 126B10:161, 163; 157A8:414–415;
 9:454, 456; 10:520–521; 157B15:230–239
 vs. depth, 176B6:13–14; 195A1:52; 4:73; 195B2:25
 vs. olivine gabbros and troctolites, 118B3:49
 well-logging data, 117A8:186–188; 16:529–530
 X-ray diffraction data, 105B6:78; 180A5:117;
 209A5:175
 zeolitic clays, 123B1:32–33
 zoning, 116B6:62–63; 118B1:5; 27:545
See also clay mineralogy; laser fusion
 mineralogy, bulk
 green clay, 184B15:20–21
 lithology, 171A_A5:62; 184A5:7–9
 sand, 161B3:39–46
 sediments, 161B2:22–27; 4:59–65; 7:90–94; 166A6:95;
 7:164; 8:188; 9:254; 10:299, 313; 11:364;
 171A_A3:28; 184B19:5; 204B11:1–19
 vs. age, 161B8:102–103
 vs. depth, 184A5:40; 7:44; 9:60; 188A4:80; 5:69–70
 mineralogy, ground-truth, vs. visible and near-infrared
 spectroscopy, 199B11:10
 mineralogy, high-resolution, reflectance spectroscopy
 and physical properties, 199B11:1–23
 minerals
 chemical composition, 155B7:151–152; 172B5:23
 dissolution, 172A5:225–226, 228
 hydrothermal alteration, 193B1:13–16
 X-ray diffraction data, 193A3:279–283; 4:240–242;
 5:13; 6:37; 193B8:18
 minerals, authigenic, lithofacies, 175A16:487–504
 minerals, moderate-temperature, secondary, 176A3:36–
 37
 minerals, primary
 petrography, 129B18:346–348
 Site 800, 129A2:68
 Site 801, 129A:135, 141
 Site 802, 129A4:218
 minerals, postkinematic
 alteration, 118B8:163, 165
 magmatic/hydrothermal breccias, 118B8:165–166
 pseudomorphs and coronas, 118B8:163
 veins, 118B8:166
 mini-hard rock guide base
 description, 132A1:8; 7:165, 177
 design, 142A6:123–135
 mini-riser/tensioner system, design, 142A6:136–157
 miniaturized temperature loggers
 calibration, 205B12:11
 construction, 205B12:10
 installation, 205B12:1–20
 minor elements
 augite, 127/128B(2)52:854
 basaltic glass, 187B5:8
 basement, 127/128B(2)58:912–916
 calcite, 130B33:561–572
 carbonates, 134B6:91; 168B11:138–141, 144
 dark-light cycles, 127/128B(1)32:568–571

- gabbros, 170A4:138
 hydrothermal alteration, 135B43:695–697
 igneous rocks, 139B6:86
 limestone, 144B24:440
 mass transfer, 193B1:64
 metasedimentary rocks, 152B10:133–135
 Pacific Ocean W, 124B40:531–539
 partitioning, 129B2:57, 79
 pillow basalts, 151A13:418
 Pliocene–Pleistocene foraminifers, 202B11:3
 pore water, 131B31:387–396; 133A(1)8:265;
 166B9:99–111; 204A3:17–19; 4:14–15; 5:8;
 6:11–12; 7:11–12; 8:13; A9:11–12; 10:15–16
 Q-mode factor analysis, 167B23:267–270
 reference samples, 129B2:74, 80; 137/140B32:353–
 354
 sapropels, 160B17:207–217
 sediments, 139A5:140; 6:209–213; 143B13:200–201,
 204–208; 162B14:203; 166B17:184–191;
 167B23:265
 serpentinites, 195A3:20–21
 serpentinitized peridotites, 149A4:81, 83
 siliceous rocks, 170A3:76; 198B17:7, 44
 Site 794, 127/128B(2)58:912–913
 Site 795, 127/128B(2)58:913–914
 Site 797, 127/128B(2)58:914–916
 Site 798, 127/128B(1)42:720–722
 Site 799, 127/128B(1)42:722–723, 726–727
 Site 801, 129B2:75; 3:81
 Site 802, 129B2:76; 4:124
 transects, 163A1:11, 13
 turbidites, 135B7:108; 10:154–161
 volcanoclastics, 134B9:152
 vs. depth, 130B33:565–566; 171B_B4:9–10, 22–23
 vs. magnesium number, 205B9:26–27
 X-ray fluorescence data, 131B28:345, 350, 356–359
See also major elements; trace elements
 minor elements/aluminum ratio, black shale, 210B10:16
 minor ions, pore water, 139B22:434–436
 Miocene
 A hiatus, 207A5:24
 acoustic basement, 165A4:133–135
 age, 130B9:121; 174AX_A1:41; 174AXS_A2:54; 3:66,
 67; 5:65
 algae, 133B5:68–71; 180B15:1–6
 aquifers, 174AXS_A(summary):14–15
 authigenic carbonates, 188B15:7
 B hiatus, 207A5:24
 basement, 183A1:35
 benthic foraminifers, 154A8:353; 166B12:129–136;
 174AXS_A5:44–45; 182A4:21–22; 5:14; 7:16;
 199A12:19
 biochronology, 167B1:26, 30
 biofacies, 150X_B14:169–186; 174A_B(synopsis):7
 biohorizons, 167B32:368
 biosiliceous event, 159A9:312
 biostratigraphy, 129B12:229; 133A(1)5:151–153;
 8:261–264; 9:311–312; 133B3:39–49; 47:697–
 704; 134A9:195–198; 134B10:200, 217;
 135A(1)4:116; 10:524–526; 11:603–613;
 135B13:191–229; 15:233–234; 17:267–284;
 138A(1)9:131, 134–135, 138–142; 12:346–352;
 143B4:78; 145A5:138, 141; 6:221–223; 145B1:3–
 19; 4:55–116; 146B(1)3:56–57; 24:369–374;
 149A6:177–178; 7:225, 227; 150A2:17;
 150B26:435–437; 150X_B10:111–127; 11:129–
 145; 151A5:74; 151B4:61–74; 14:257–283;
 35:641; 152B11:147–160; 156B3:49–56;
 157A4:73; 6:151; 157B10:121; 29:503–508;
 159B34:449–465; 164A5:81–82; 6:116–117;
 7:188; 165A3:64–66; 165B1:13–14; 166A6:84–
 88; 8:181–185; 9:243–245; 10:305–309;
 167B1:3–40; 170A3:61–70; 4:117–126; 5:163–
 167; 6:199–201; 7:227–232; 170B1:1–58; 2:1–22;
 5:1–63; 173A4:77, 79–81; 174A_A3:58–65;
 4:115–120; 5:163–168; 174AXS_A1:29;
 175A9:241–251; 10:283–291; 14:434, 436, 439–
 442; 15:465–468; 177A1:22–23; 178A4:62;
 181A4:8–15; 6:13–17; 182A1:10–12, 29, 40;
 182B2:6–8; 184A7:10–12; 9:12–14; 186A5:17–
 21; 191A1:16; 194A3:8–11; 9:9–12; 198A1:56;
 202A7:11–15; 208A1:27–28
 brines, 201A1:13–14, 31
 calcareous nannofossils, 130A7:234–238; 8:311;
 9:396–397; 130B11:184–189; 133A(1)4:96, 98;
 134A12:409; 138B9:163–176; 12:233–286;
 143B33:567–569; 145B39:599–632; 149B4:79–
 145; 150B4:53–61; 154A4:72–73; 5:163;
 157A7:346; 9:449–450; 10:517–519; 157B8:87–
 96; 165A4:152–153; 5:249–250; 174A_B5:1–16;
 177B7:1–14; 188A3:26–30; 188B11:14;
 189B13:1–12; 194A4:12; 198B2:3
 carbon isotopes, 154B35:501–505
 carbonate compensation depth, 206A1:24–25
 carbonate crash, 202A12:10; 206A1:24
 carbonates, 133B31:476–479; 151B24:415–434;
 154B24:367–373; 160B33:419–436; 35:447–451
 chalk, 192A1:13
 chemostratigraphy, 157B31:535–558; 160B2:17, 21
 chronostratigraphy, 133B20:281–289
 clay mineralogy, 133B30:466–467; 150B9:147–170;
 150X_B5:60–63; 182B14:3; 189A5:19
 clays, 152B4:41–43, 46–47
 coccoliths, 201B14:8
 compression, 149B45:696
 condensed record, 159B37:519
 contourites, 149A5:145; 149B45:695–696
 correlation, 130B13:254; 150A2:13; 150X_A1:16;
 159B37:520–521; 161B44:560
 crustal compression, 149B41:654, 656
 cyclic processes, 138B29:633–635; 178B32:14–15
 debris flows, 174A_B(synopsis):8; 181A7:11–12
 deformation, 173A1:8; 192A1:6
 deposition, 157A7:339–340; 157B27:449–450;
 166A2:14–18; 202A13:8–9
 diagenesis, 150B20:361–376
 diatoms, 145B7:134; 146B(1)3:66–74; 150B2:17–35;
 151B29:483–492; 152B19:249–250; 167B3:63–
 110; 174AX_A1:39–41; 174AXS_A5:48; 7:24;
 177B10:1–14; 178B25:6–7; 183B9:44; 186B2:6–
 10; 188A3:30–36; 189A4:15
 dinocysts, 178B2:2–4; 189B2:8–9

- drainage, 188B13:15
 Drake (Powell) Passage opening, 181B1:46
 East Mariana Basin, 129B4:119–135
 evolution, 180A3:4–5
 foraminifers, 132B2:24, 29; 133A(1)4:99; 150B1:7, 9, 12–13; 151B9:169–185; 157A8:411–412; 160B2:16–20; 174AXS_A2:35–36; 181A7:18–20; 8:17; 183A1:29; 199A12:16; 207A8:14–16; 208A4:11–12; 5:10; 6:14; 7:13–14
 gateway history, 189B1:17–19
 geochronology, 157B11:129–140
 geologic history, 205B14:19; 207A1:4
 geology, 160A9:291; 10:337
 glaciation, 178B(synthesis):20–21
 grabens, 160B54:733–734
 heat flow anomalies, 170A1:10–11
 heavy minerals, 174A_B6:1–11
 hiatuses, 157B30:529–531; 159B37:519–521; 160B40:524
 hydrocarbon gas molecular compositions, 146B(1)21:439–449
 inorganic geochemistry, 181B9:1–10
 inorganic sediments, 154B36:507–526
 isopach maps, 157B28:493–494
 kerogen, 164B5:55–56
 laminated diatom ooze, 138B30:641–645
 lithofacies, 133A(1)3:59–60; 4:91; 133B19:273; 150A6:115; 150B10:171–187; 161B2:21–36; 174AXS_A(summary):24–25
 lithology, 129B14:269; 130A7:230–231; 8:297–307; 9:375–383; 132A4:81–82; 133A(1)6:182–183; 7:207–208; 8:259–260; 9:307–309; 10:351–363; 11:427; 16:694, 697–700; 17:777, 779; 18:808–809; 134A8:145–146; 9:186, 188, 193; 11:329–330; 12:403–406; 135A(1)10:500–512; 11:590–593; 136A4:39–40; 138A(1)9:124–127; 10:191–208; 11:269–271, 275; (2)13:681–683; 14:740–743; 15:811–813; 16:896–897; 17:971–974; 143A2:24–26; 9:305; 144A3:47–48; 4:111–116; 5:151–154; 10:339; 145A3:43–44; 4:87; 5:130; 6:216–217; 7:306–307; 8:341–342; 149A4:52–58; 5:122–127; 6:155–158; 7:219–223; 150A6:71–75; 7:144–146; 8:211–216; 9:265–272; 10:314–318; 150X_A1:15–23; 151A5:63–69; 7:166–171; 152A11:196–201; 152B3:29–30; 154A4:61–66; 5:156–157; 6:236–237; 7:283–284; 8:344–346; 156A6:98–99; 7:202–203; 157A6:138, 143, 147; 7:333–339; 8:406–407; 9:445–448; 10:512–514; 159A5:77–80; 6:164–166; 7:227; 8:262–264; 160A6:130; 7:161–162; 8:223; 12:428–430; 161A4:60–64; 5:120–121, 125–131; 6:191–196; 7:306–307; 8:359–362; 162A4:106–108; 7:231; 8:261–266; 10:355–356; 164A5:73–75, 78–79, 96; 6:109–110; 7:181–182; 9:284; 165A3:54–59; 4:138, 142–146; 5:237–248; 6:297–300; 166A6:78–83; 8:178–179; 9:241–242; 10:298–304; 167A(1)4:55–57; 10:246–247; 15:437–438; 16:468; 170A3:56–57; 4:106–108; 5:158–162; 6:194–197; 7:221, 223; 171A_A3:27; 4:45; 5:62; 6:84; 174AXS_A1:52; 2:48–51; 3:59–67; 175A9:232–233; 10:281; 13:390–395; 14:433–434; 15:460; 175B2:1–11; 177A5:6; 178A4:5–13; 181A1:33; 4:6; 7:6–9; 182A5:7–8; 6:4–6; 183A1:19–23, 27, 30, 33–34; 6:5; 185A3:6; 188B9:1–16; 189A3:11–12; 4:7–8; 5:11–13; 6:12–13; 7:12–13; 190A5:9; 9:7–9; 192A3:5–7; 193A1:4; 194A1:30–33; 9:4–8; 196A3:18; 198A3:12–13; 6:7–9; 7:8–10; 199A8:5; 9:5–6; 10:6–7; 11:7–8; 12:8–9; 15:4; 201A11:10–11; 12:7–8; 202A7:6–8; 8:10–11; 10:6–10; 208A3:5–7; 4:6–8; 5:5–6; 6:6–10; 7:5–7; 8:5–7
 magmatism, 161B44:574
 magnetite, 130B31:537
 magnetostratigraphy, 132B4:47–55; 138A(2)13:695; 138B5:59–72; 6:85–88; 21:479–502; 150A6:86–89; 150B8:129–143; 150X_B22:295–304; 152B20:253–257; 162B9:131–148; 167A(1)15:451; 199A1:73; 12:59
 mass accumulation rates, 184B8:7–8; 198A3:26; 4:22–23
 metamorphism, 161B20:293
 Mi3b cooling phases, 181B1:34
 microfacies, 166B5:56
 models, 189B1:6
 nannofossils, 132B2:17; 154B4:83–99; 157A8:409, 411; 174AXS_A3:43; 177A3:7; 5:9–10; 7:7; 182A4:13–15; 5:10–11; 6:13–14; 8:13; 9:9–10; 10:14–15; 11:8; 12:9–10; 183A8:6–9; 183B8:17; 184B10:7–8; 189B1:6; 7:1–39; 190A4:13; 5:16–17; 8:11–12; 9:13–14; 197A3:10–11; 197B4:1–12; 199A11:11–12; 12:13–14; 202A9:13; 10:11; 206A3:27–29; 206B2:6–8; 208A4:9; 5:8; 6:11; 7:10–11
 nearshore sedimentation, 174AXS_A3:57–58
 ocean circulation, 154A1:9
 ooze, 189B1:3
 orogenic belts, 161A1:6–8
 oxide-rich sediments, 138B29:639
 paleobathymetry, 133B6:84–85
 paleoceanography, 130B35:594; 151B1:13–14; 154B27:395–431; 30:451–461; 183B1:23–24; 185B1:10
 paleoclimatology, 133B21:291–300; 150X_B5:63; 20:277–285; 151B31:519–522; 167B20:243; 175A1:8; 181B1:5, 48–51; 184A1:7, 15–18
 paleoenvironment, 133B4:57–60; 152B24:289; 160B45:492–494; 51:684–685; 183A1:26
 paleogeography, 160B50:672–673
 paleolatitude, 185A4:36
 paleomagnetism, 129B23:440; 130A9:410–412; 135B47:763–783; 177A1:23–24; 192A4:21–23
 palynomorphs, 174AXS_A3:36–38; 188B2:4–5; 3:6
 pelagic sedimentation, 165A8:378–379
 photograph, 189A7:62–64; 192A3:50, 72; 198A4:48; 207A8:43
 photomicrograph, 198A3:70
 planktonic foraminifers, 130B18:323–332; 134A12:411; 138B46:895–907; 150B28:455–460; 154A4:75–77; 5:165–167; 6:240–243; 7:289–292; 8:349–351; 154B1:3–31; 2:33–68; 157A7:347; 9:453; 10:519–520; 165A4:155–156;

5:250–251; 173B9:1–13; 174AX_A1:35;
 174AXS_A1:29; 3:38–39; 5:43; 6:48; 182A5:12–
 13; 6:17–18; 7:14–15; 9:12; 10:17; 182B3:10, 38;
 183A5:10–13; 184B8:1–43; 9:16, 23; 189A3:25–
 26; 194A4:13
 plate tectonics, 134A1:9–11; 134B2:32–35;
 149B25:438; 160A1:7
 pollen, 174AXS_A7:23–24
 pore water, 150X_B25:343–354
 quinones, 205B8:18
 radiolarian ooze, 199A6:1–21
 radiolarians, 130A8:315–316; 138B11:191–232;
 143B34:571–574; 150B3:44–46; 156B2:33–48;
 174AXS_A3:43–44; 181A7:23–24; 188A3:36–38;
 189A5:28; 189B10:3; 199A12:19–20; 199B3:15;
 207A5:18
 reefs, 160B33:431–435
 rhyolites, 157A2:20–21
 rifting, 161B44:573; 180B2:13
 sand, 181A1:22
 sea gateways, 165B17:254
 sea level changes, 174AXS_A(summary):9
 sedimentary basins, 134A1:14–15
 sedimentation, 133A(1)8:292; 135B22:367–370;
 138A(1)9:165, 167; 150A7:189; 154A7:327;
 8:395; 154B23:349–365; 157B20:343–360;
 180A1:3; 181B3:1–21; 190/196B1:8–9
 sedimentation rates, 150A9:280–282; 159A5:96;
 6:184; 8:276; 166A9:246; 183B9:11; 184A7:14;
 9:16; 184B10:10; 185A1:53; 4:37; 189B10:9–13,
 18–20; 199A12:24
 sediments, 133A(1)5:144–149; 133B42:627;
 150X_B4:50; 157A4:68–70; 157B20:350–353;
 166B13:137–143; 177A1:16; 178B(synthesis):9;
 180B6:18–24; 190/196B12:3; 194A1:20–23, 33–
 35
 seismic facies, 166A6:112–113
 seismic stratigraphy, 149B39:619; 166A8:204–205;
 9:264; 10:328; 182A1:25; 188B8:9–10;
 194A1:47–49
 sequence stratigraphy, 150B5:65–95; 12:237;
 174A_B(synopsis):2–5, 10–11; 174AXS_A(sum-
 mary):27; 2:57
 silicoflagellates, 145B41:639–643; 162B5:63–81;
 185B4:5; 199B9:1–29
 silty turbidites, 134B7:104–105
 Site 801, 129B1:36
 Site 803, 130A5:120–121
 Site 804, 130A6:183
 stratigraphy, 129B5:137–152; 135B54:857–877;
 145B29:452; 150X_B1:7–10; 160B52:703;
 174AXS_A2:2–3, 43; 178B36:11–12; 202A7:57
 strontium isotopes, 174AXS_A1:45–46; 2:41–43; 3:44–
 48; 5:49; 150B6:97–114; 24:425–428
 subduction, 160B54:758–759; 161B27:357–373;
 180B(synthesis):4, 7–8
 synthetic seismograms, 183A6:60
 tectonics, 141B13:185; 160A1:14–16; 160B54:757,
 773–774; 165A3:103
 thrust stacks, 160B50:672
 timescales, 154B4:69–82

transform faults, 159A1:12
 turbidites, 157B30:523–531; 38:631; 160A8:217–218;
 166B5:48; 190A1:27; 190/196B3:10
 unconformities, 145B37:570; 150A6:89–90; 180B(syn-
 thesis):7
 uplifts, 160B51:689–690
 upwelling, 164B33:338–339; 175B(synthesis):45
 vegetation, 151B15:289–296
 volcanic ash, 132B5:57–66; 151B18:333–350;
 165A3:80; 4:174; 165B5:101–113; 186A1:8–9
 volcanoclastics, 157B15:229–230; 27:457; 165A3:83–
 86
 volcanism, 165A8:386–388; 165B20:309–310;
 191B1:8
 well-logging, 166A10:324
 zeolitic clay, 199A15:6
 zonal boundaries, 184B9:25
See also Bairnsdalian; Balcombian; Batesfordian; Cam-
 panian/Miocene boundary; Campanian–Miocene
 interval; Cretaceous–Miocene interval;
 Eocene–Holocene interval; Eocene/Miocene
 boundary; Eocene–Miocene interval; Eocene–
 Miocene unconformity; Messinian; Messinian/
 Pliocene boundary; Messinian Carbon Shift;
 Messinian desiccation event; Messinian salinity
 crisis; Miocene/Pliocene boundary; NH₄ hiatus;
 Oligocene–Holocene interval; Oligocene/Mio-
 cene boundary; Oligocene/Miocene interval;
 Oligocene–Miocene interval; Oligocene–Pleistocene
 interval; Paleogene/Miocene boundary; Titho-
 nian–Miocene interval
 Miocene, lower
 age models, 189B9:1–21; 192A3:56; 198A6:52
 biostratigraphy, 129B12:231; 130A7:239; 9:407;
 130B16:283; 131A6:99–109; 131B1:6, 10;
 159B37:516–517; 162B7:99–109; 166B1:11;
 177A7:9, 11; 181A7:16; 182A4:19; 6:20; 12:12–
 13; 182B3:4–5, 8, 12; 183A6:12; 183B9:7;
 184B7:1–29; 189A3:27; 5:24–25; 6:31; 7:27;
 189B7:8; 192A4:11–12; 194B1:1–7; 198A4:17;
 198B2:4–5; 199A11:14–18; 12:16–17; 13:11, 16;
 199B1:7; 6:1–25; 207A6:12; 8:12; 208A1:39–40;
 5:10; 6:11; 8:14; 208B1:17–19
 chalk, 192A1:15
 chemobiostratigraphy, 130B7:269–270
 Chron 6r, 181A1:10
 clay mineralogy, 189B11:5
 deposition, 194B2:4–5
 Drake Series reflectors, 130A7:276
 erosional events, 129B12:235, 240
 green clay layers, 184B7:1–29
 hiatuses, 192A4:11
 inorganic geochemistry, 181B9:6
 ion chromatograms, 208A5:50
 Kirkwood Formation, 150X_A1:15, 17
 lithofacies, 174AXS_A(summary):7; 7:50
 lithology, 131A6:87–93; 133A(1)4:93; 174A_A5:160–
 161; 174AXS_A2:22–25, 43; 3:28–34; 5:20–23;
 6:20–22; 181A6:9; 8:6–7; 182A4:9; 10:9–10;
 12:5–6; 183A7:4–5; 184A7:8–9; 9:9–10;
 188A3:14–16; 190A8:7–9; 192A3:5–7; 4:4–5;

- 194A3:6-7; 5:5-7; 6:4-6; 9:4-8; 198A5:10-12;
 199A13:6; 201A7:10-11; 207A6:5-6
 magnetic properties, 154B37:529-532; 183A7:48
 magnetostratigraphy, 173A4:81; 207A6:23; 208A6:21
 major elements, 181B1:27-28
 Monterey carbon isotope excursion, 130B44:715-716
 mudstone, 131B28:350-351
 nannofossil ooze/chalk, 199A1:10
 paleoceanography, 177B(synthesis):5-7
 palynomorphs, 174AXS_A2:33-35
 pelagic deposition, 192A4:10-11
 plate tectonics, 160B54:773
 sedimentation, 133A(1)10:385; 181B1:32; 184A1:34-
 35; 189B10:13
 sediments, 150X_B24:317-341; 177A1:2
 seismic stratigraphy, 194A1:11
 siderite concretions, 184B13:5
 Site 1197, 194A8:6-9
 stratigraphy, 129B3:88; 174AXS_A5:58; 177B(synthe-
 sis):4-5
 terranes, 189A1:9
 terrigenous and pelagic sediments, 183B7:1-31
 unconformities, 131B27:341
 zonal assignments, 131B1:13; 192A4:55
See also Aquitanian; Batesfordian; Burdigalian; Cam-
 panian, upper-lower Miocene interval; Eocene,
 upper-lower Miocene interval; Oligocene-lower
 Miocene interval; Otaian; Waitakian
- Miocene, lower-middle
 age vs. depth, 174AXS_A7:52
 biostratigraphy, 130B13:245-256; 182A1:26, 31, 37;
 183B6:1-21; 11:4-5; 192A3:21-25
 carbonate-platform demise, 133B34:499-512
 carbonates, 182B12:1-11
 hiatuses, 149B6:189
 lithofacies, 174AXS_A7:47
 lithology, 174AXS_A1:14-16; 2:18-25; 3:63182A7:9-
 10; 9:7-8; 11:5-6; 183A8:3-5; 190A4:7-8;
 194A7:7-11, 14-15; 8:5-6, 9
 paleoceanography, 165B18:275-283
 photograph, 182A7:38
 stratigraphy, 188B1:8-9
- Miocene, lower/middle boundary
 age models, 189B3:6
 biostratigraphy, 138B12:250; 181A4:11; 182A1:17;
 12:13; 189A3:29, 32; 5:24; 7:23; 208A5:10
 sedimentation rates, 189B10:10, 12, 15-16, 19
 Site 799, 127/128B(2)77:1224; 128A5:299
- Miocene (lower)-Pliocene interval, opal and carbonates,
 198B14:1-7
- Miocene, lower/upper boundary
 lithology, 190A8:5-7
 nannofossils, 189A4:10
- Miocene, lower-upper Oligocene unconformity,
 198A5:12
- Miocene, lower-upper, paleoenvironment, 151A13:419
- Miocene, lowermost, paleoenvironment, 151A13:418
- Miocene, middle
 age vs. depth, 198A7:48; 205B4:16
 Antarctic series reflectors, 130A7:276
 biohorizons, 167B1:29
 biostratigraphy, 130A7:245; 9:407; 133B8:97-105;
 145B2:21-41; 154B4:90-91; 159B37:517-518;
 166B1:10-11; 177A7:11; 177B7:3-4; 182A1:11;
 34; 4:19; 6:20; 11:9-10; 12:12; 182B3:5-8, 11-
 12; 183A6:21; 8:9-10; 183B8:1-19; 186B6:1-19;
 189A3:26; 4:12, 14; 5:24; 6:30-31; 7:27;
 194B1:1-7; 198A3:24; 4:19; 199A11:18-19;
 201B16:6; 202A8:17; 10:13; 205B1:14-15;
 207A4:13; 5:12, 15; 208A6:11
 buried rollover, 174A_A1:8
 canyon formation, 150B15:283-292
 carbonates, 159A9:312-313; 194A1:1-88; 194B2:5-7
 chemostratigraphy, 130B8:307-322
 chronostratigraphy, 202B1:7
 clay mineralogy, 189B11:5
 cyclic processes, 166B7:82-85; 15:155-166
 diagenetic dolomite, 201B13:5-6
 extensional tectonics, 161B25:331-344
 foraminiferal stable isotopes, 144B20:406-408
 glaciation, 188A1:4
 inorganic geochemistry, 181B9:6
 isotope stratigraphy, 205B4:4-5
 Kirkwood Formation, 150X_A1:14
 lithology, 133A(1)4:91, 93; 174A_A5:160;
 174AX_A1:18-21; 174AXS_A2:20; 3:25-33;
 5:17-20; 7:16-23; 180A9:20-28; 181A6:8-9;
 7:5-6; 182A4:8-9; 5:8; 10:9; 183A9:5-6;
 184A7:7-9; 9:7-8; 186A5:11-12; 188A3:13-14;
 192A3:5-6; 194A3:6; 4:7-9; 5:4-7; 6:4-5; 9:4-8;
 196A3:18; 197A3:8; 201A6:8-11; 7:8-11;
 202A9:8-11; 13:7-8; 206A3:24-26; 207A5:4-5;
 6:4
 magnetostratigraphy, 138B5:64-66
 major elements, 181B1:27-28
 orbital forcing, 202B1:6
 paleoceanography, 167B32:368
 paleoclimatology, 181B1:5
 paleoenvironment, 151A13:418-419; 194B5:1-38
 palynomorphs, 174AXS_A2:33-35
 phosphatic marl, 171B_A1:6
 photograph, 195A4:75; 198A3:67; 4:47; 6:42
 productivity, 175B(synthesis):45
 remanent magnetization, 183A6:54
 rhodoliths, 133B29:455-460
 sand, 180B7:17-18
 sea level changes, 194A1:77-78
 sedimentation, 133A(1)5:169-170; 10:385; 184A1:35;
 189A5:35; 189B10:20; 198A8:19
 seismic stratigraphy, 194A1:11
 stratigraphy, 174AXS_A5:57-58; 7:45; 188B1:9-11
 synthetic seismograms, 183A7:55
 tephra, 183B9:13, 42; 205A4:26
 transgressions, 182B3:18
 volcanics, 135B3:40; 162B16:217-230
See also Bairnsdalian; Balcombian; Bartonian; Borto-
 nian; Campanian, upper-middle Miocene inter-
 val; Clifdenian; Emilian; Eocene, middle-
 middle Miocene unconformity; Langhian; Lill-
 burnian; Lutetian; middle Miocene global cli-
 mate transition; Oligocene/Miocene boundary;

- Oligocene–Miocene interval; Serravallian; Tortonian; Ulatisian
- Miocene, middle–lower middle Eocene unconformity, sedimentation rates, 198A8:19
- Miocene, middle–lower Oligocene unconformity
gamma ray attenuation density, 198A6:27
magnetic susceptibility, 198A6:49
- Miocene, middle–Pliocene interval, paleoceanography, 177B(synthesis):7–10
- Miocene, middle–upper
biostratigraphy, 177A7:8–9, 12; 181A7:15–16; 182A10:20; 183A6:18; 194A6:9
carbonate crash, 206B1:4–5; 4:1–24
correlation, 167B1:27
lithology, 174A_A3:50–57; 174AX_A1:15–18; 174AXS_A2:16–20; 177A3:4–5; 182A1:9–10; 12:5; 194A7:6–7, 10–13; 8:7–8
rift basins, 180A1:17–21
Site 1197, 194A8:4–5, 9
Stone Harbor Formation, 174AXS_A7:35–37
tectonics, 165B17:252
turbidites, 180B6:19
See also Lillburnian
- Miocene, middle/upper boundary
age models, 189B3:6
biostratigraphy, 138B12:250; 154B4:89–90; 166A2:19; 166B1:8; 177A3:11; 181A7:15; 9:11; 182B3:13; 186B4:4–7; 189A3:22, 24; 4:13; 7:22–23; 202A8:16; 206A3:28
carbonate transition, 138B1:13–14
hiatuses, 149B6:186; 194A7:16
magnetostratigraphy, 191A1:16
paleoceanography, 177B(synthesis):8
paleoenvironment, 189A5:16
sedimentation rates, 189B10:12, 19
sediments, 175B(synthesis):92
Site 799, 127/128B(2)48:796; 77:1224; 128A5:299
well-logging, 194A7:35–36
- Miocene, middle–upper carbonate crash
mass accumulation rates, 165A5:247–250, 275; 8:379, 383
paleoceanography, 165A8:381–384; 165B17:249–273
sediment composition, 165A4:172
tectonics, 165A4:206–207
- Miocene, middle–upper interval, biostratigraphy, 182A1:10–12
- Miocene, upper
biogenic opal, 184B21:1–12
biohorizons, 167B1:23, 26–29
biostratigraphy, 133B8:97–105; 159B37:517–518; 166B1:3–12; 177A8:13; 177B7:4–5; 178B13:1–22; 181B1:17, 94; 182A1:11, 22–23; 183A6:11; 8:12; 183B9:7; 184A4:11–13; 186A4:23–26; 186B2:6–8; 6:1–19; 189A3:22, 31; 4:10; 191A4:16–20; 191B2:1–34; 198A4:17; 201B16:6; 202A8:19; 9:16; 10:14–15; 11:12; 205B14:1–26; 207A4:12; 8:11
carbon shift, 133B33:496–497
carbonate accumulation, 130B44:733–738
carbonate crash, 138B42:821–838; 201B14:9
carbonate dissolution, 181B1:21
clay, 190/196B4:10–11
clay mineralogy, 178B8:1–29
coarse-sediment gravity flow deposits, 182A6:10–11
cyclic processes, 178B25:8, 25
deposition, 194B2:7–8; 202A12:9–10
epiclastic sedimentation, 157B17:293–313
erosional events, 207B1:10–11
foraminifers, 174AXS_A3:61; 180B12:1–5; 181A9:13–14; 182A4:18; 6:19; 8:15–18; 11:8–10; 12:12; 182B3:6–12, 35; 183A6:17–19; 8:11; 186B7:4; 188A4:18–19; 189A5:23–24; 7:27; 202A10:13; 207A4:13
glaciation onset, 145B11:184
ion chromatograms, 208A5:50
lithology, 167A(1)5:89, 92; 174A_A4:109–113; 174AXS_A3:20–28; 5:17–19; 7:13–15; 177A7:5; 8:8; 180A9:17–20; 12:18–19; 181A4:5; 8:6; 9:5–7; 182A4:6–8; 8:7; 10:8; 11:5; 183A5:4–5; 6:4; 184A4:8–10; 5:6–7; 185A4:11–12; 186A4:16–19; 5:9–12; 188A3:13–14; 190A8:5; 191A4:10–13; 194A3:5–6; 4:7–9; 5:3–6; 6:4–6; 8:4, 9; 9:4–8; 197A3:7–8; 201A6:8–11; 7:8–11; 8:11–12; 202A8:9–10; 9:7–11; 12:6–10; 206A3:22–26; 207A8:4–6; 208A6:6
magnetostratigraphy, 138B5:63, 65; 207A4:17–18; 8:20–21; 208A7:20
mass accumulation rates, 163B15:163–166
mass flows, 135B6:87–100
paleoceanography, 133B33:489–498; 167B32:368
paleoenvironment, 160B36:453–463; 194B5:1–38
paleogeography, 160B50:673–674; 161B43:548
photograph, 198A3:80; 4:46, 48
plate tectonics, 160B54:774
productivity, 178B23:13–14
radiolarians, 130A9:407; 175B14:1–26; 177A7:12; 183B10:1–17; 189A3:29; 199A11:18–19; 207A8:19
reflectance, 198A5:45
rifting, 180B(synthesis):5–10
sand, 180B7:18–19
sedimentation, 133A(1)10:385; 135B11:163–172; 138B1:14–16; 184A1:35–36
sediments, 150X_B7:75–79; 175B(synthesis):92; 1:1–23; 184B14:1–10
seismic stratigraphy, 194A1:10–11
sequence stratigraphy, 166A3:37
siliciclastic turbidite, 190A1:26
stratigraphy, 174AXS_A5:57; 7:41; 188B1:9–11
Tethys interval reflectors, 130A7:276
total organic and inorganic carbon, 201B8:3
transgressions, 182B3:18
unconformities, 188A1:4
upper water column, 154B17:255–268
volcanism, 145B23:370–371
See also Kapitean; late Miocene carbonate crisis; Messinian; Mitchellian; Tongaporutuan; Tortonian; Waiauian
- Miocene, upper–Eocene assemblages, benthic foraminifers, 177A5:13
- Miocene, upper–Holocene interval
magnetostratigraphy, 198B22:1–39

- ocean circulation, 198A1:103
- Miocene, upper–lower Pliocene, carbonate platforms, 182A2:19–20
- Miocene, uppermost, disconformities, 183B9:11
- Miocene glacial event Mi-1. *See* marine oxygen isotope Mi-1 glacial event
- Miocene global event, Labrador Sea, 105B52:982
- Miocene–Holocene interval
 clay mineralogy, 181B1:26–27
 lithology, 191A4:10–12
 summary, 184A1:15–18
- Miocene–middle Eocene interval, unconformities, 165A6:304
- Miocene–Pleistocene interval
 sandstone, 190/196B3:1–28
 sedimentation, 175B6:1–19; 191A1:5–6
 summary, 184A1:22–25
 volcanic ash, 185B1:10
- Miocene/Pliocene boundary
 age models, 189B3:5
 biogenic bloom, 177B(synthesis):8
 biohorizons, 167B1:14–16
 biostratigraphy, 151A13:416; 157A6:149; 157B10:120–121; 161B15:197–221; 166A9:244; 10:305–309; 166B15:158–159; 175A10:283–291; 13:398; 177A3:11; 182A1:10–12, 17; 8:16; 182B3:10–11; 186A1:10; 3:22; 7:22–23; 194A5:9; 202A7:12; 8:17; 208A5:8
 calcareous nannofossils, 133A(1)4:96; 138B12:250; 177B7:5
 carbonates, 120B(2)61:1075; 167A(1)10:266; 175B(synthesis):84, 86
 Celebes Sea, 124A10:180
 chronostratigraphy, 157B11:127–140; 160B8:101
 climate change, 113B53:956
 diatoms, 177A7:10; 186B2:7, 12; 191B2:6
 disconformities, 183B9:11–12
 foraminifers and ostracodes, 161B42:538; 175B(synthesis):94; 184B9:6; 194A6:8; 202A9:15; 207A8:15; 208A7:13
 hiatuses, 113B52:917; 149B6:186; 177A5:14–15; 189A6:25, 30
 Labrador Sea, 105B25:432
 lithology, 152B3:29–30; 160B36:457; 161A4:60, 64; 161B15:201, 204; 177A5:6; 7:5; 8:8
 magnetic properties, 123A4:133
 magnetostratigraphy, 188A3:42–43; 191A1:16; 194A3:13; 208A6:2
 nannofossils, 154B4:85–89; 161B16:226–227; 181A7:15; 8:13; 182A5:12; 184B10:9; 189A4:10; 6:28; 189B7:3–8; 190A4:13; 5:16; 8:11; 194A3:8; 6:7; 206B2:6; 208A7:10; 8:10
 opal accumulation rates, 167A(1)4:78
 Pacific Ocean W, 124B2:18
 paleoceanography, 160B1:9–28; 183B1:23–24
 paleoproductivity maximum, 145B38:594
 placement, 145A3:50
 planktonic foraminifers, 120B(2)35:641; 182A4:18; 6:17; 182B3:10; 183A8:11; 189A5:23–24; 6:30; 194A3:10
 Polar Front northward migration, 119A13:484
- quartz, 182B14:3
 sand fraction, 175B(synthesis):93
 sediment flux, 145B34:501–503
 sedimentary cover, 161B44:562
 sedimentation, 133A(1)5:170; 177A7:13–14; 189A4:16; 189B10:10–13, 16, 19
 sediments, 160B1:3–8; 161B1:3–20; 175B(synthesis):92
 seismic stratigraphy, 161B42:538–539; 166A9:264
 sequence stratigraphy, 174A_A3:86–88; 4:134–135; 166A3:37
 silicoflagellates, 181A7:22
 Site 701, 114A8:395
 Site 794, 127A4:96–97
 Site 795, 127A5:193; 127/128B(2)77:1223
 Site 796, 127A6:272
 Site 797, 127A7:351; 127/128B(2)77:1223
 Site 798, 127/128B(2)77:1224
 Site 799, 127/128B(2)77:1224; 128A5:298, 301–302, 305
 stable isotope stratigraphy, 138B15:348–349
 stratigraphic hiatus, 123B38:723
 unconformities, 160B27:348; 161B44:568
 volcanoclastics, 157A9:448–449
 volcanism, 124B34:464
- Miocene–Pliocene interval
 biostratigraphy, 130A7:244–245; 184A1:12; 202A8:18; 202B6:5–9
 geology, 160B54:737–738
 hydrography, 159B40:539–555
 magnetostratigraphy, 190A8:13–14
 paleoclimatology, 186B6:6–7
 sediments, 164B1:3–4
 stratigraphy, 160B38:498
 volcanism, 181B1:23–26
See also Kapitean
- Miocene/Pliocene unconformity, biostratigraphy, 177A5:12
- Miocene sequences, seismic reflectors, 150A6:113, 115; 7:185–188; 8:242–243
- Miocene surfaces, seismic unconformity, 150B16:304
- Miocene volcanic episode, paleogeography, 165A8:387
- Miogypsina* facies, assemblages, 133B4:58, 60
- miospores, color index, 131B5:59
- Miscellaneous Crenarchaeotal group
 16S rRNA genes, 201B2:4
 sediments, 201B1:18
- Mitchellian, biostratigraphy, 182B3:18
- Mitoku-type flora, Japan Sea, 127/128B(1)28:486
- mixed-layer minerals
 abundance, 160B19:241
 basement secondary mineral geochemistry, 206B8:3
 lithology, 159A7:229–231; 177A5:7; 189A5:17–19, 71
 normalized formula, 161B2:31
 petrology, 158B18:240–241
 provenance, 160B19:238
 sedimentation, 161B2:29
 sediments, 156B1:10, 22; 174A_B(synopsis):8–9; 178A1:50; 8:49; 181B3:5–6, 20–21; 182B14:3
 vs. age, 181B3:10; 189B11:9–12
 vs. depth, 140A2:66; 184A9:60; 189A6:22–25, 88; 7:69

- X-ray diffraction data, 159A7:228; 8:264–265;
178A4:23, 79–80; 5:20, 71; 6:15, 50; 8:15, 79
See also chlorite/mixed-layer clays ratio; chlorite–
smectite mixed minerals; clay minerals; corren-
site; illite + kaolinite series
- mixed-layer minerals/illite ratio, X-ray diffraction data,
178A4:23; 5:71; 6:50; 8:48
- mixed-layer oceanography, Pliocene, 202B13:1–27
- mixing
felsic and basaltic shards, 157B16:281–282
Indian and Pacific Ocean sources, 187B3:7–8
pore water, 150X_B24:338–339
sulfate models, 164B9:93, 95
- mizzonite, metamorphism, 161B18:257–258
- moat structures. *See* structures, moat
- mobilization
chemical elements, 183B15:9–10
mineral water, 186B14:12–13
trace elements, 157B32:569
- MoCE. *See* Monterey carbon isotope excursion
- modal composition
basaltic andesites, 135A(1)7:323; 11:638
basalts, 135A(1)5:226; 136B9:111
gabbros, 179B(synthesis):9–11, 67, 105–107; 2:28
igneous layering, 176A3:29–30; 176B8:10–11
igneous rocks, 135A(1)4:138; 6:270; 9:438–439;
139A7:361–362
lithology, 176A3:17–18; 176B6:7–14, 61–64
petrology, 179A4:36–37
photograph, 179A4:100
sandstone, 180B7:8–17
volcaniclastics, 136B7:87; 157B13:188–191
vs. age, 178B25:18
vs. depth, 148B33:414; 157B13:191; 179B(synthe-
sis):67
- models
compaction, 175B9:6–8
emplacement, 192A1:7–9
tectonics, 193A1:33
- models, one-dimensional, décollement, 131B6:74–76
- modern analog technique, foraminifers, 138B34:699;
154B14:227; 161B35:449–454
- modes, bulk, vs. depth, 201B14:22–23
- modular intelligent digitizers, seafloor instruments,
186A3:11–13
- Moho discontinuity. *See* Mohorovicic discontinuity
- Mohorovicic discontinuity
basement, 173A1:19
crust, 152B39:471
depth, 134B31:559–562; 149B39:628–629
forearc basins, 186B1:3
gabbros, 179A4:7–8; 209B1:15
Galicia Bank SW, 103A5:85
gravity effect on topography, 121B34:684, 690–691
Japan Basin, 128A5:246
mid-ocean ridges, 147A1:6
ocean–continent transition, 149B47:724
seismic stratigraphy, 118B10:219, 225
serpentinization, 118A6:163
slope, 149B40:644
topography in Broken Ridge, 121B34:692
- unconformities, 107A2:10; 2:14; 6:135; 7:295
Yamato Basin, 128A5:246
Yamato Rise, 128A5:245–246
See also crust; crust–mantle transition zone; litho-
sphere; mantle; ocean–continent transition
- Mohr-Coulomb envelope, shear strength, 186B17:6
- Mohr diagrams, pore pressure, 131B8:106–109
- moisture
grain size, 190/196B8:7–10
paleoecology, 167B17:220–222
- moisture budget, during aridification, 108B15:255
- moisture content. *See* water content
- molasse, deformation, 141A3:29–30
- molding, electron microscopy, 185B9:24
- molds
alteration zones, 169A3:82
corals, 133A(1)5:149–150
foraminifers, 135B11:167
lithoclasts, 144A11:435
lithology, 166A6:77, 79; 169A3:52; 194A5:4; 7:6–9,
13–15
paleoenvironment, 144B15:305–307
photograph, 144A5:169; 144B16:332; 23:434;
169A3:80; 194A4:44; 7:54, 64, 72
photomicrograph, 194A4:45
pyrite, 139A6:204
- molds, micrite, photograph, 144B15:303
- molds, mollusk, lithology, 144A5:155, 157
- molds, rootlets, subaerial weathering, 144A5:164
- molecular indicators, paleoenvironment, 161B30:391–
400
- molecular organic fossils
dark–light cycles, 127/128B(1)38:670, 675
low molecular weight compounds, 127/
128B(1)38:673
Site 798, 127/128B(1)38:669–670
Site 799, 127/128B(1)38:669–670
- molecular paleontology, sapropels, 160B23:285–295
- molecular record, organic matter, 201B4:1–21
- molecular stratigraphy, biomarkers, 139A6:200–201;
7:325–326; 8:490–491
- mollusk fragments
abundance, 113A7:310; 144B6:130; 181A3:96
aminostratigraphy, 150X_B26:355–357
biostratigraphy, 144A5:173–175
carbonates, 144B16:322
deposition, 144B47:826–828, 836–840
lithofacies, 143B30:474, 488–490
lithology, 160A8:223; 181A3:5–6; 182A4:6–8;
194A6:5; 7:6–9, 12–15; 9:4–8; 210A3:22–25
macrotridites, 103B31:517–518
mass accumulation rates, 160B19:231–234, 237, 240
microfacies, 133B21:294–295, 298–299
Miocene, 160B33:422
mudstone-wackestone series, 103B6:68
paleoenvironment, 181A3:18
photograph, 134A11:329; 144B15:308; 174A_A3:56;
194A7:58, 73
photomicrograph, 160B38:506, 508; 194A9:33
reworking, 150X_B25:351
sandstone, 210B2:5

- sediments, 133A(1)5:145
shell fragments, 151A8:235–236
Site 639, 103B6:59; 119B41:739–742
Site 681, 112A13:308
strontium isotopes, 174AXS_A7:25
turbidites, 166B5:50–53, 57–60
wackestone, 103B8:107
wackestone-floatstone series, 103B6:63–66, 71
See also ammonites; belemnites; bivalve fragments;
bryomol assemblages; gastropod fragments; oyster shells; protoconchs; scaphopods
- mollusk fragments, aragonitic, microfacies, 133B21:292–293, 297–298
- molybdenum
anoxic conditions, 124B29:390–392
black shale, 210B8:16; 10:5
Cagayan Ridge, 124B29:396
diagenesis, 156B12:168; 167B23:265–266
element correlations, 158B27:384
hydrothermal sediments, 145B27:418, 421–422; 199B15:3
jasperoids, 193B9:6
mineral separates, 158B2:31, 33, 37, 39; 27:370–376
Paleocene/Eocene boundary, 199B16:3
pore water, 116B13:146, 154; 193B4:4–5
sediments, 167B23:264; 171B_B4:4–5
Site 794, 127/128B(2)85:1362
Site 795, 127/128B(2)85:1365
Site 797, 127/128B(2)85:1366
Site 798, 127/128B(2)86:1370–1371
sulfides and sediments, 158B3:44; 193B10:4
vs. depth, 156B12:167, 170; 158B4:54–62; 27:374–376; 160B16:201; 164B15:160; 167B23:266; 171B_B4:10; 199B15:5; 16:6
See also uranium/molybdenum ratio
- molybdenum/aluminum ratio
lithology, 207B8:25
vs. depth, 171B_B4:12
- monaxons
occurrence, 120B(2)43:833–834
Site 795, 127/128B(1)30:541–543
- monaxons, monactinal
occurrence, 120B(2)43:834
Site 795, 127/128B(1)30:542–543
- monazite
garnet-biotite clasts, 183B1:9
heavy minerals, 150X_B7:75–79
- Mono Lake excursion
Brunhes Chron, 172B10:4–5
magnetic excursions, 172A6:266
magnetostratigraphy, 107B22:353; 195A5:11
Site 1127, 182A5:17
- monoclines, syntectonic deposition, 161B26:350, 352
- monocolpates, pollen, 183B3:8
- monolete spores
Site 930, 155A6:100
Site 931, 155A7:137
Site 932, 155A8:186
Site 935, 155A11:291
Site 936, 155A12:343
Site 937, 155A13:395
Site 938, 155A14:421
Site 940, 155A16:473
Site 941, 155A17:517
Site 942, 155A18:550
Site 943, 155A19:579
Site 944, 155A20:606
Site 946, 155A22:669
- monolete spores, sporomorphs, 183B3:7–8
- monopole sonic waveforms, 201A11:84; 204A4:93; 6:65; 9:71; 10:86; 11:50
- monosulcus pollen
Site 935, 155A11:291
Site 936, 155A12:343
Site 937, 155A13:395
Site 938, 155A14:421
Site 939, 155A15:447
- monosulfides, lithology, 202A4:6–8; 5:8
- monsoon systems
Arabian Sea, 124B28:376
aridity effects, 117B19:339
biological productivity, 115B38:707
causes, 117A1:5
climatic effects, 108B9:146–147; 116B21:249, 253; 117A1:5; 121A1:21
cycles, 117A9:244; 10:303; 117B9:198; 21:371; 127/128B(1)32:574–575
driving mechanisms, 117B14:265
ecologic response, 117A19:303
environmental effects, 117A1:8–9; 3:40
evolution, 184A1:4–7, 45, 51; 184B2:23
floral and faunal changes, 117A1:9
forcing mechanisms, 117B9:197; 20:351–352; 21:386
general circulation models, 117B14:271–272
geochemistry, 117A1:9
glaciation, 124B29:385
global climate, 184A1:1–77
Himalayan uplift effect, 117A3:41
Indian-African Milankovitch mechanism, 117A1:9
Indian Ocean, 117B21:380, 383; 121A12:359, 363
insolation, 175B(synthesis):4
Intertropical Convergence Zone, 159B40:554, 558
Japan Sea, 127/128B(1)18:320–321, 326
millennial-scale variability, 184A1:12
mineralogical influence, 117A3:35–36
nannofossil clay, 184B12:4–11
Neogene, 184A1:12
oceanographic effects, 115B25:468, 485
orbital-insolation forcing, 117B18:390; 21:383; 22:395; 24:435
organic carbon, 117B8:189; 17:301; 35:580–581
oxidation-reduction effects, 115B41:767
Pacific Ocean W, 124B29:379
paleoceanography, 159A1:14; 184A1:13
pressure gradient, 117B11:277; 14:271
sapropel index, 160A2:24
seasonal reversals, 117A1:6
sedimentation, 138B1:15–16
solar radiation effects, 117B18:309–310; 20:351–352
stages, 184A1:49
strength of monsoon, 117B20:343
tectonic evolution, 117A4:49

- transportation of terrigenous matter, 117B19:339
upwelling, 117B8:189, 205
wind direction, 117B18:309
- monsoon systems, Indian Ocean
climate effects, 117A1:5
evolution, 117A1:5
sea-surface temperature, 117A1:8
seasonal variations, 117A1:6
sedimentation, 138B1:15–16
- monsoon systems, southwest
dust transport, 117B23:419
Himalayan-Tibetan current control, 117B6:156
terrigenous fluxes, 117B9:198
- monsoon systems, summer
aridity and strength, 117A1:5, 7; 117B21:366, 386
atmospheric circulation model, 117B22:397
dust, 117B21:365–366; 22:390, 397
effect on sediment composition, 117B22:389
evolution, 184A1:10
forcing mechanisms, 117B21:365, 367
Himalayan-Tibetan orographic effects, 117B22:389
lag effects, 117B21:366
lower tropospheric wind fields, 117B22:389
source areas, 117B21:366
- monsoon systems, winter
aridity, 117A1:6–7
evolution, 184A1:10–11
- Monterey carbon isotope excursion
Indian Ocean, 121B11:250
Miocene, 130B44:715–716
organic carbon burial, 144B20:409
stable isotope stratigraphy, 184B5:2
stratigraphy, 165B18:280–281
- monticellite, metamorphic minerals, 153B31:536
- montmorillonite
accretionary wedges, 134B1:17
basement/sediment contact, 161A6:215
diagenesis, 166A8:191
diffuse reflectance spectrophotometry, 188B7:10;
3:10–11
factor score, 188B7:29, 39, 44
first-derivative curves, 164B31:323
lithology, 180B6:9
potassium logs vs. photoelectric effect logs, 178A5:85
reflectance vs. wavelength, 199A5:13
Sardinian margin, 107A8:448
sediments, 143B12:177; 150X_B5:60–63
slope-apron facies, 190/196B4:5–6
spectral data, 164B31:320–321
Sumisu Rift, 126B35:538
thorium vs. potassium, 171B_A4:167
vein structures, 126B13:206
volcanics, 129B3:89
vs. depth, 155B10:202–213; 159B43:592
X-ray diffraction data, 156A3:34; 200A3:95–96; 4:116,
118
See also saponite; sodium-montmorillonite mixed
minerals
- montmorillonite, cryptocrystalline, 119B16:301
- montmorillonite, magnesium
alteration, 176B1:5
chemical composition, 176B1:10
montmorillonite-beidellite mixed minerals, 119B16:301
monzodiorite, postrift magmatism, 210B1:24
moraines, seismic units, 188B8:7
MORB. *See* mid-ocean-ridge basalt
mordenite
alteration, 183B15:7
pyroclastic sequences, 124B13:184–187
Site 793, 126B8:134
Site 797, 127A7:344
veins, 192A4:18
mordenite, calcium-rich, Broken Ridge, 121B27:521
Morelet wavelet, waveform analysis, 178B32:23
moretanes
biomarkers, 135B41:672–673
sediments, 141B9:127–128; 22:291
- morphology
continental slope, 152B1:5–6
geophysical surveys, 180A2:4–5
neovolcanic zones, 158A2:18–21
seabed, 163X_A8:4
- morphotaxa, faunal/flora, backscattered scanning elec-
tron microscopy, 127/128B(1)31:548
- morphotectonic domains
basins, 135B51:819–821
Nankai Trough, 131A7:274–275
- morphotypes
benthic foraminifers, 138B32:667–668
silicoflagellates, 138B8:142–148
- Mössbauer spectra
absorption areas, 127/128B(1)43:741–742
data, 127/128B(1)43:739–746
iron species depth profiles, 127/128B(1)43:742–746
magnetism, 158B25:345
partial dissolution, 127/128B(1)43:741
sediments, 172B2:8
subaerial basalts, 183B12:9, 23
typical spectra, 127/128B(1)43:743
velocity vs. absorption, 158B25:348
- mosses
Site 750, 120B(1)17:257–258
sporomorphs, 183B3:7
See Isothecium stoloniferum
- motifs. *See* lithologic motifs
- mottling
alteration, 185A4:25–26; 193B1:17
Aptian, 143A7:207
bioturbation, 138A(1)10:195
carbonate-rich clay, 184A6:6–7
clay units, 144B17:348–392
Cretaceous/Tertiary boundary, 165A4:151–152
diagenesis, 192A6:11
image facies, 166B7:78–81
limestone, 192A3:21
lithofacies, 155B40:620; 21:636
lithology, 138A(1)10:196; 149A5:122; 6:155;
155A7:127–128; 9:204–207; 10:249; 12:324;
13:387–388, 391; 14:412–415; 16:466–467, 470;
17:507; 19:571–576; 21:637; 22:661–663;
157A9:444–445; 160A4:59–60; 6:130; 8:222–
223; 167A(1)15:437–438; 168A5:110;

- 169S_A2:24; 171B_A3:53–55; 4:98–100; 6:246;
7:324; 172A4:87; 5:164–165, 168–174; 6:255–
258; 173A6:126; 174A_A4:104; 174AXS_A4:16–
25; 5:33–34; 6:41–42, 48; 175A3:56; 178A4:4–5,
10–11; 5:5; 180A6:25; 9:8; 181A5:4–5; 182A6:7;
183A7:5; 184A4:9–10; 5:7–9; 8:4; 190A4:6–8;
9:6–8; 192A3:9–11; 7:4; 194A7:14; 195A5:7–8;
198A3:12–13; 199A10:6; 11:9; 12:8–11; 13:6–10;
14:6–8; 15:4–6; 201A7:9; 8:11; 202A5:5–8; 8:7–
9; 9:10; 11:8–10; 12:9; 204A7:3–6; 8:7–8; 9:4;
10:5; 207A4:5–8; 5:4–8; 6:5–8; 7:5–6, 10; 8:7–9;
208A6:9; 210A3:24, 35, 44–45
- Messinian–Pliocene interval, 160B36:458–459
- paleosols, 144B19:383
- petrology, 144B29:498
- photograph, 144A5:166; 144B19:396; 155A6:97;
9:208; 11:279, 285–286; 13:390–391; 19:573;
21:640; 22:662; 155B5:89; 157A4:68;
160A8:237–238; 9:298; 14:473; 161A6:188;
178A4:52; 5:46, 55; 182A10:41; 192A3:62; 6:52;
7:22; 202A4:31; 10:47; 11:41; 204A8:38;
207A4:40, 43; 6:42–45; 7:46
- sapropels, 160A8:217–218
- sediments, 130A9:383; 135B7:106; 149B12:284;
192A3:18–21
- serpentine flow, 125A7:119; 8:151–152
- wackestone, 143A7:195
- See also* bioturbation; color mottling
- mound complexes
- age, 182B8:4–6
- bryozoans, 182A1:33; 7:11–12, 29; 9:8; 10:4–6
- hydrothermal circulation, 169A1:8–9
- reflection, 188B14:4
- sedimentation, 152B1:8–17
- sediments, 178A2:13–15
- seismic stratigraphy, 182A2:4
- See also* biogenic mounds; reef mounds
- mound structures. *See* mound complexes
- mounds. *See* mound complexes
- mounds, hydrothermal, magnetic surveys, 139B2:29–35
- mousselike texture. *See* textures, mousselike
- MPR. *See* mid-Pleistocene climate revolution
- MREE. *See* rare earths, middle elements
- mud
- age, 169S_A2:26–27
- bacteria, 177B3:1–12
- bioturbation, 178A2:15
- clay mineralogy, 204B7:1–15
- dating, 113B5:59, 62–63
- density, 146B(1)11:197
- diamictite, 178A9:6–7
- geochemistry, 155A12:350; 16:478; 17:520–521, 527;
18:558
- glaciomarine sediments, 163X_A8:3
- hydrothermal fields, 158A1:9–10
- ice-rafted debris, 178B10:5–8
- impacts, 178B9:2
- iron bacteria, 111A3:81–84, 94–95
- isotopes, 155B8:173
- Lima Basin C, 112A11:161
- lithofacies, 155A4:80–84; 155B40:615, 620; 161B4:59;
178A6:5–7
- lithology, 150A7:135–140; 152A8:92; 155A6:117;
7:163; 9:230; 10:266; 11:308; 12:334; 15:433;
18:564; 157A4:60–63; 163X_A4:5–6;
169A5:208–209; 169S_A2:22–23; 177A5:5–7,
7:5; 8:7–8; 9:6–7; 178A1:6–7; 2:16–17; 5:6–9,
11–12; 178B25:4–6; 188A4:13; 196A4:15;
209A9:3–7
- mud volcanoes, 195A1:10–15; 195B1:16–17
- permeability, 131B7:92
- petrophysical properties, 181B1:31
- photograph, 151A6:120–121; 155A6:99; 8:181;
15:447; 155B2:12–13; 5:83–107; 169A3:57;
169S_A2:21, 25–26; 190A9:32; 209A1:127
- physical properties, 155B26:435–436; 168A4:94;
6:193
- Pliocene–Pleistocene interval, 188B13:8
- provenance, 155B8:169–176; 180B6:1–53
- reflectance, 155A23:697–700
- sedimentation, 155A10:265–266
- stratigraphy, 158A8:142–144
- structure, 178A4:57
- textures, 174A_B3:4, 9
- thickness, 181A6:97–115
- trace elements, 155A13:399
- turbidity currents, 155B4:57, 59–61
- vitric component, 125B40:676, 680
- volcaniclastics, 125A13:260–261
- vs. depth, 113B6:74; 133B25:358; 150B28:458;
188B13:25
- water content, 134B30:542–544
- X-ray radiography, 178B10:21
- See also* carbonate mud; ooze–mud couplets; sand/
mud ratio; unifite deposits
- mud, aragonitic, diagenesis, 107A9:632
- mud, biogenic, lithofacies, 155B40:630–631
- mud, bioturbated
- lithology, 155A8:197; 13:403; 14:433; 19:587
- physical properties, 155B27:450, 452, 455
- Trujillo Basin, 112A16:529
- mud, bioturbated diatom sandy, Neoglacial, 178B34:4
- mud, bioturbated marine, photograph, 178A6:38
- mud, burrowed, photograph, 180B9:20
- mud, calcareous
- lithology, 133A(1)15:621–622; 171A_A3:27; 6:84
- magnetic susceptibility, 107A6:153
- Marsili Basin, 107A6:140
- mass flow units, 160B37:468
- Sardinian margin, 107A10:762; 107B38:664
- mud, calcareous, bioturbated, lithology, 155A22:685
- mud, calcareous diatom-bearing, 112A16:529–530
- mud, carbonaceous, photomicrograph, 160B48:638
- mud, chaotic, lithofacies, 155B40:620, 625, 627, 630
- mud, clayey
- color, 113A10:534
- dating, 113A12:710
- lithology, 151A5:66; 6:117–118; 7:166–171; 8:227–
230; 10:322–326; 11:353, 356–360
- photograph, 151A9:274–275; 10:327; 151B32:573
- vs. depth, 113A12:710

- mud, deformed, lithofacies, 155B40:620, 625, 627, 630
mud, diatom
 lithology, 177A4:6–7
 photograph, 177A4:30
 Site 699, 114A6:156–157
 Site 701, 114A8:369
 Site 702, 114A9:489
mud, diatom-foraminiferal
 carbonate concentration, 112A11:168
 laminations, 112A11:163
 Lima Basin C, 112A11:162–163, 197
 Site 682, 112A14:365
 Site 688, 112A20:876
mud, diatomaceous
 associated vein structures, 112B1:9
 bioturbation, 112A16:529; 18:722, 735
 chemical composition, 112B9:143–144
 color changes, 112S15:439, 449
 deposition, 112A20:886–887; 112B9:140
 gas content, 112B33:530
 Holocene climate optimum, 178B34:4
 hydraulic conductivity, 112B42:633–637
 laminated vs. bioturbated sections, 112B21:361–362
 laminations, 112A1:12
 Lima Basin, 112A11:163; 19:805–810
 lithology, 112B9:138–144; 169S_A2:21–23
 massive to bioturbated sediments, 112B41:625, 627
 nannofossils, 112A14:365
 Oman margin N, 117A14:434
 organic carbon content, 119B6:113
 oxygen content, 112B8:128
 Peru margin, 112B41:625
 petrographic impregnation technique, 112B6:87–91
 phosphatized clasts, 112B8:121
 photograph, 169S_A2:21
 physical properties, 112A18:729
 Pisco Basin W, 112A1:12; 18:708–710, 714–716, 722, 735; 112B627
 pyrite-rich composition, 112A17:612
 Salaverry Basin, 112A12:252, 256; 13:307–308, 313–314
 sedimentation cycles, 112A13:313
 Site 681, 112B41:627
 Site 682, 112A14:365–366, 398
 Site 685, 112A17:598–600
 Site 688, 112A20:876–879
 terrigenous component, 119B6:107
 Trujillo Basin, 112A16:528, 531, 533
 Yaquina Basin, 112A15:439–443, 474
mud, diatomaceous sandy
 climate reversals, 178B34:4
 deglaciation, 178B34:3–4
mud, diatomaceous turbidite, climate reversals, 178B34:4
mud, dolomitic
 Cornaglia Terrace, 107A9:632
 De Marchi Seamount, 107A12:961
 Pisco Basin W, 112A18:718
mud, dolomitic nannofossil, Cornaglia Terrace, 107A9:612
mud, feldspathic, Salaverry Basin, 112A12:253
mud, felsic, vs. depth, 167B23:270
mud, fine-grained, microfabric, 131B4:45–56
mud, foraminiferal
 Oman margin S, 117A14:442, 445, 448
 X-ray radiography, 178B10:21
mud, glaciomarine
 lithology, 152A6:57–62; 10:167–168
 photograph, 152A6:59
mud, glauconitic, Site 685, 112A17:604
mud, glauconitic sandy, lithology, 174A_A5:160
mud, gossanous, sulfides, 139A6:216
mud, gravelly
 lithofacies, 155B40:620
 Pliocene–Pleistocene interval, 188B13:8
mud, gravelly sandy, Pliocene–Pleistocene, 188B13:8
mud, gypsiferous, Sardinian margin, 107B38:664
mud, hemipelagic
 composition, 131B26:317; 168B5:51–65
 distinguishing from turbidites, 135B7:106
 geochemistry, 131B35:427–450
 incompatible elements, 126B26:388
 lithofacies, 146B(2)27:348–349
 lithology, 168A4:57; 5:109–111; 6:167–169; 169A5:208–209; 6:263, 265
 mineralogy, 141B7:95–104
 nannofossils, 168B4:44–45
 petrography, 168B5:56
 photograph, 178A5:49
 provenance, 133B27:403
 X-ray diffraction data, 131B2:22–29; 28:349
mud, laminated
 lithology, 152A10:168–170
 X-ray radiography, 178B10:20
mud, laminated marine, photograph, 178A6:37
mud, mafic, vs. depth, 167B23:270
mud, nannofossil
 azimuth, 157B4:46
 diatom, 114A6:156
 foraminiferal, 117A17:547–548
 hemipelagic, 190A6:4–6; 7:5; 9:6–8
 sandy, 126A7:148
 Sardinian margin, 107A10:761
mud, parallel silt-laminated, lithology, 178A5:7–8, 11–12; 178B25:4–6
mud, pebbly
 depositional environment, 119B42:749
 lithology, 190A6:7
mud, pelagic, sediments, 175A16:489
mud, pyroclastic
 Lima Basin, 112B28:468
 Peru margin, 112B28:468
mud, reddish, lithology, 152A9:115
mud, sandy
 Lima Basin C, 112A11:165–166
 lithofacies, 155B40:620
 lithology, 174A_A3:56–57; 5:157–161; 190A9:6–8
 photograph, 155A12:329, 337, 341; 174A_A4:112; 5:161–162
 Pisco Basin W, 112A18:708–709
 Pliocene–Pleistocene interval, 188B13:8
 sediment grain size, 174A_B4:1–18

- Site 685, 112A17:606, 617
- Site 698, 114A5:96, 115–116
- Site 739, 119B6:93, 127
- textures, 174A_B3:4, 9
- mud, serpentine
 - alteration, 125B36:600
 - Conical Seamount, 125B19:343–344
 - creep, 125B20:369
 - critical-state soil mechanics, 125B20:369
 - density, 125B20:370
 - flow units, 125B19:358; 36:605
 - geochemistry, 125B17:317; 36:603–604
 - in situ alteration, 125B19:355
 - Mariana forearc seamounts, 125A5:79
 - mechanical behavior, 125B20:364
 - mineralogy, 125B17:317; 19:356–357; 36:605
 - occurrence, 125B17:313–322
 - petrography, 125B36:600
 - photograph, 195A3:79, 96, 100–101
 - photomicrograph, 195A3:95
 - rheology, 125A5:72; 125B19:351; 20:365–366; 36:600–601, 610
 - Site 778, 125B18:328
 - X-ray diffraction data, 125B19:348–349
- mud, silty
 - color, 113A10:534; 11:617; 12:714
 - dating, 113A7:299; 11:614–615; 12:710
 - Lima Basin S, 112A19:807
 - lithification, 113A11:619
 - lithology, 151A5:60; 6:117–118; 10:322–326; 11:353, 356–357; 169S_A2:21; 178A6:4–5; 178B25:4–6
 - photograph, 151A6:119; 178A7:41
 - Salaverry Basin, 112A12:253
 - Site 685, 112A17:600
 - thickness, 113A11:615
 - vs. depth, 113A11:614; 12:710
- mud, terrigenous
 - Miocene influx, 133B27:395, 397
 - modern deposition, 119B6:112
 - Peru margin, 112B41:625, 627
 - Salaverry Basin, 112A13:308
 - Site 680, 112B41:627
- mud balls, lithofacies, 161B4:64–66
- mud beds, Salaverry Basin, 112A12:252
- mud breccia. *See* breccia, mud
- mud chips
 - intraformational, 168B5:54–56
 - photograph, 190A5:39
- mud clasts. *See* clasts, mud
- mud/clay ratio, Site 701, 114A8:371, 405
- mud diapirs
 - lithofacies, 161B5:72
 - seismic reflection, 170A1:10
 - vs. mud volcanism, 160B50:666
- mud domes
 - diapirism vs. volcanism, 160A1:10–14
 - gas hydrates, 160B44:573
 - geology, 160A11:378–379
- mud draping
 - photograph, 155A12:338
 - See also* drape deposits
- mud flow deposits
 - geology, 160A11:378–379
 - nannofossils, 188B11:6; 192A5:10–11
 - seamounts, 195A1:4
- mud matrix, genesis, 160B45:587–588
- mud/mudstone ratio, diatomaceous, 117A19:589–591
- mud-pebble layers, lithology, 171B_A4:116
- mud plumes, Site 799, 127/128B(2)75:1178; 128A5:268–269
- mud-pump system, operations, 124E_A2:32–34
- mud shards, photomicrograph, 160B45:594
- mud veins. *See* veins, mud
- mud volcanism
 - accretionary complexes, 160B45:575–595; 46:597–605
 - anatomy, 160B50:666–668
 - Conical Seamount, 125B36:611–612
 - convergent plate margins, 195A1:2–14
 - cross section, 195A1:35
 - diapiric belt, 160B46:597–605
 - emplacement, 160B48:641–642
 - Formation MicroScanner imagery, 160B47:618–620
 - geology, 160A11:378–379, 400–401; 12:445–446; 18:521–526; 160B50:665–680
 - geometry, 160B47:624
 - Lima Basin, 112A8:128
 - Mariana-Izu-Bonin forearc, 125B20:370
 - models, 160B50:675–678
 - paleosurface, 195A3:15
 - photomicrograph, 160B48:638
 - physical properties, 160B48:625–643
 - salinity, 160A11:393–394
 - sediment traps, 160B28:358–359
 - seismic properties, 195B11:1–14
 - single-channel seismic reflection, 130A4:85
 - structural data, 160A11:383–385
 - vs. mud diapirism, 160B50:666
 - Yaquina Basin, 112A8:129
- mud waves
 - dynamics, 172A1:9
 - lithology, 172B(overview):4–5; 181A1:24
 - sedimentation, 172A5:177–178, 206–207
 - seismic reflection, 172A5:245–247
- mudflows, volcanic ash, 130B9:429
- mudline, lithology, 184A6:4
- mudrock
 - Albian–Turonian, 210B8:5–7
 - Izu-Bonin forearc, 126B4:80; 41:612
 - lithology, 177A8:8; 210A1:14; 3:23, 28–29, 32–33, 42, 46–50, 58–63
 - lower Campanian–upper Paleocene, 210B8:10
 - middle–upper Eocene, 210B8:12–13
 - upper Paleocene–middle Eocene, 210B8:10–12
 - X-ray diffraction data, 210A3:237
- mudrock, bioturbated, photograph, 210A3:187
- mudrock, porphyroblastic, photograph, 210A1:68; 3:238–239
- mudslides, units, 135B7:111–112
- mudstone
 - alteration, 183A8:20–22
 - anastomosing fabric, 112A20:882–883, 888

- carbonates, 161B6:78
- clay fraction, 107B19:308–311, 315
- clay mineralogy, 107B19:313; 204B7:1–15
- composition, 146B(1)6:121–127
- dating, 113A6:189
- De Marchi Seamount, 107B16:248
- décollement zone, 171A_B3:10–11
- deformation structures, 112A20:884
- depocenters, 189A1:7
- depth, 110A4:126
- dropstone, 119B6:130
- Eocene, 189B1:3
- extension-related disaggregation, 112A17:617–618
- faulting, 112A20:889
- firm in situ formation, 107B19:307, 315
- fissility, 112A14:371, 375–376; 20:882, 888
- fracturing, 112B39:99
- Galicia margin W, 103A1:9
- hydrocarbon fraction, 107A10:778
- lead and zinc enrichment, 107B16:251–252
- Lima Basin, 112A6:95
- lithofacies, 143B30:473, 484–486; 144B17:340–359; 169A3:54–56
- lithology, 133B27:385, 389; 160A12:424, 428–430; 161A5:131; 166A6:77–80; 10:300, 303; 169A6:265; 171A_A3:27; 178A4:9, 11; 9:7–8; 180A5:11–12; 180B6:15–16; 181A7:9; 8:7–8; 182A1:26; 4:9–10; 11:5–6; 188B14:7; 194A4:6–10; 9:4–8; 210A1:14; 22–33, 37–38, 44–48, 58–60
- Marsili Basin, 107B19:319
- mass flow units, 160B37:467–468
- mineralogy, 107B19:308, 312–313
- mud breccia, 160B46:603; 50:668
- mud domes, 160A18:522–524; 160B46:600
- organic matter, 172A6:275
- outer perimeter ridges, 144B15:299
- Peru margin, 112A6:97
- petrography, 144B48:846; 160B45:577, 580
- photograph, 144A7:268; 160B33:422; 36:456; 161A8:380–381; 161B6:79; 169A3:61, 77, 100; 180A8:49; 10:39; 181A7:67; 8:55; 194A4:48; 6:36; 210A3:140, 142, 154, 177, 184–188, 194, 201–202, 222
- photomicrograph, 160B45:594; 173B6:8; 182B9:11
- physical properties, 112A20:924; 155B26:435–436
- Pliocene channels, 160B37:477–478
- postrift sedimentation, 210B1:27–28
- reef mounds, 182A2:4; 182B1:9–10
- reworking, 178A9:7
- Sardinian margin, 107A8:417; 107B2:32; 38:666
- secondary growth, 107B19:312
- sediment provenance, 180B6:1–53
- sedimentation, 188A1:10–11
- sedimentological logs, 119B6:111
- sills, 169A3:90–93
- Site 682, 112A14:371, 375–376, 398
- Site 688, 112A20:882, 888
- Site 799, 127/128B(1)2:42
- stratigraphic sequences, 133B25:355, 358–360
- taxonomy and paleobathymetry, 112A6:103
- tectonics, 181A1:4
- turbidites, 168A5:111
- Tyrrhenian Sea, 107A7:300; 107B19:320–321
- uniaxial reconsolidation, 149B20:363–373
- upper Eocene, 189B1:11
- upper Paleocene–middle Eocene, 210B8:10–12
- varve-type laminated sediments, 107A10:763
- volcaniclastics, 197A3:19
- vs. depth, 144B14:281
- See also* claystone; claystone-mudstone layers; mud/mudstone ratio
- mudstone, basal, photograph, 190A1:72; A8:36
- mudstone, bioclastic, lithology, 166A11:353–355
- mudstone, bioturbated, photograph, 194A3:29
- mudstone, brown, Cretaceous/Tertiary boundary, 181A8:39
- mudstone, burrowed, photograph, 210A3:165, 239–240, 261
- mudstone, calcareous
 - Lima Basin, 112A6:97
 - lithofacies, 160B37:469
 - lithology, 133A(1)13:515–516; 152A9:114; 171A_A6:84; 210A3:41
 - mineralogy, 117A4:49
 - Oligocene, 189B1:16
 - photograph, 146A(1)7:321–322; 152A7:77; 210A3:160, 191, 211
 - Pliocene deposition, 107B38:655
 - Sardinian margin, 107A8:419
 - turbidites, 173B6:1–11
- mudstone, carbonate
 - photograph, 160A12:429
 - photomicrograph, 194A4:49
- mudstone, clay-rich, lithology, 194A4:8–9
- mudstone, collophane. *See* phosphate, friable
- mudstone, color-banded, Site 685, 112A17:606–607
- mudstone, diatomaceous
 - deformational structures, 112B2:30
 - lower–middle Eocene, 189B1:10
 - Prydz Bay, 119B6:89
 - Site 685, 112A17:600–601
 - Site 688, 112A20:877–878
 - sorting, 119B6:90
 - terrigenous component, 119B6:107
 - Yaquina Basin, 112A15:442–447, 474
- mudstone, dolomitic, thin sections, 161A9:1020
- mudstone, foraminiferal, lithology, 194A3:5–6
- mudstone, foraminiferal peloidal, lithology, 144A10:342
- mudstone, fossiliferous, lithofacies, 143B30:473
- mudstone, gamma ray peaks, 150B23:419–421
- mudstone, graded
 - lithology, 210A3:41–42
 - photograph, 210A3:190, 195
- mudstone, greenish brown, lithology, 210A3:21–25, 58–59
- mudstone, gypsiferous, Sardinian margin, 107B35:588
- mudstone, hematitic sandy, photomicrograph, Site 1276, 210A3:181
- mudstone, hemipelagic
 - décollement zone, 190A1:29
 - geochemistry, 131B35:427–450

- lithology, 190A6:6–8; 7:5; 9:6–9
- mudstone, high-porosity low-velocity, 210A3:101
- mudstone, indurated
 - Site 688, 112A20:888
 - Yaquina Basin, 112A15:447
- mudstone, indurated hemipelagic, lithology, 190A8:5–7
- mudstone, laminated
 - photograph, 178A9:49–50; 210A3:235
 - Site 688, 112A20:883
 - Yaquina Basin, 112A15:448
- mudstone, lime
 - photograph, 144A3:57
 - photomicrograph, 160B33:424–425
- mudstone, lithified, lithology, 133A(1)7:208; 166A8:177–178
- mudstone, massive
 - photograph, 178A9:49; 210A3:192, 210
 - X-ray imaging, 210B6:18
- mudstone, massive sandy, photograph, 210A3:134–135
- mudstone, multicolored, Upper Cretaceous, 210A1:31–32
- mudstone, nannofossil-bearing, lithology, 181A8:8–9; 9:5–6
- mudstone, organic-rich
 - cleaning, 207B6:6–9
 - Lima Basin, 112A6:97
- mudstone, partially lithified bioclastic, lithology, 166A11:355
- mudstone, pebbly
 - lithology, 182A6:5–6; 190A7:6
 - photograph, 190A1:66; 6:33
- mudstone, peloidal, lithology, 166A7:154–156, 168; 8:177–178
- mudstone, radiolarian-dominant, Bonin arc-trench system, 126B13:201
- mudstone, sandy
 - depositional environment, 126A8:244–245
 - lithology, 190A6:6; 7:5; 210A3:21–25, 32–33, 36–37, 58–59
 - plastic folding, 126A5:76
 - Prydz Bay, 119B6:89, 93, 126
 - Site 792, 126A8:229, 237
 - Site 793, 126A9:332
 - sorting, 119B6:90
 - terrigenous component, 119B6:107
- mudstone, scaly, Eocene, 112A6:97
- mudstone, siliceous, lithology, 167A(1)16:468
- mudstone, silicified, cores, 136A1:7
- mudstone, silty
 - photograph, 210A3:158
 - Site 682, 112A14:369–371
 - Site 688, 112A20:877
- mudstone, skeletal, lithology, 144A6:216; 10:341; 194A6:4–5
- mudstone, spiculitic, lithology, 182A6:4–5
- mudstone, stratified
 - lacustrine deposition, 119B6:107
 - Prydz Bay, 119B6:89, 127, 130
- mudstone, tectonized, Peru margin, 112A6:94, 99
- mudstone, unlithified, lithology, 166A10:295–296; 11:350–355
- mudstone, unlithified peloidal, lithology, 166A11:350–355
- mudstone, vitric
 - consolidation, 131B20:257–259
 - geochemistry, 131B28:357–360
 - microfabric, 131B4:45–56
 - microstructure, 131B4:48
 - origin, 131B26:316
 - X-ray mineralogy, 131A6:107
- mudstone, volcanic ash-rich, Yaquina Basin, 112A15:446
- mudstone, well-indurated normally graded, 183A9:25–26
- mudstone, zeolitic, lithology, 181A1:29
- mudstone clasts. *See* clasts, mudstone
- mudstone fragments, photomicrograph, 190/196B3:28
- mudstone intraclasts. *See* intraclasts, mud
- mudstone-wackestone series, lithology, 143A7:195; 194A5:3–6
- Mulinia*, D-alloisoleucine/L-isoleucine ratio, 174AXS_A7:53
- mullions
 - deformation, 170A3:60
 - see* megamullions
- multidomain grains
 - basement, 197A3:33–34; 4:27–28
 - gabbros, 205A4:42
 - igneous rocks, 198B20:4
 - plagioclase, 197B1:11–13
 - saturation magnetization, 201B17:11
 - sediments, 183B13:16
- multiple-access expandable gateways, 186A3:11, 35–37
- multisensor core logging, sediments, 188B9:1–16
- multisensor spectral gamma ray logs, 202A9:67
- multisensor track data
 - color reflectometry, 167B32:362
 - compressional wave velocity, 154B7:137
 - density, 173A4:93–94
 - North Atlantic Deep Water, 130A5:139, 142
 - physical properties, 151A5:86–88; 151B34:599–602; 152A11:237–239; 168A4:86–87
 - sedimentology, 162B18:247–257
 - sediments, 151A7:176–177; 8:238; 11:365; 152A8:101–102; 9:140–141; 12:272–273; 154B9:160; 167A(1)4:76; 5:107; 6:146; 7:165, 168; 8:193–194; 9:233; 10:263; 11:297; 12:333; 13:370; 14:410; 15:450; 16:477; 168A5:140; 6:178
 - vs.* age, 151A6:137
 - vs.* composite depth, 151B34:612–613
 - vs.* depth, 151A5:75, 88–90; 6:126, 136–137; 7:177, 195–196; 8:238, 247–248, 257; 9:282, 293–294; 10:330, 337; 11:365, 372; 379–381, 384; 151B34:599, 613, 617, 620; 35:627
 - vs.* gamma ray attenuation density, 151B34:608, 614
 - vs.* isothermal remanent magnetization, 151A8:239
 - vs.* isotopes, 162B18:251–253
- multishot orientation
 - correlation, 138A(2)13:705
 - Site 850, 138A(2)15:834
- multivariate analysis
 - hydrothermal deposits, 135B5:75–76, 79

- logging-while-drilling, 171A_A1:5–10; 171A_B2:1–29
- Munsell color system
 - instruments, 146B(2):4:47
 - sediments, 135B52:832
 - vs. depth, 161A8:360; 9:396
 - See also* color imaging; color index
- Munsell index. *See* Munsell color system
- muscovite
 - age, 116B8:95–98, 103, 109–114
 - alteration minerals, 139B10:155–201
 - argon isotopes, 161B21:300–305; 210B4:1–13
 - deep copper zone, 169A3:77
 - gneisses, 161B19:272–273
 - high-grade schist, 161A6:215
 - hydrothermal alteration, 139B11:214
 - isochrons, 161B22:304
 - lithology, 174A_A4:113–115; 175A6:152; 8:205; 180A8:8; 180B6:9–15; 182A4:10; 204A3:6–8; 4:9; 10:8; 210A3:37
 - metasedimentary rocks, 152B10:132; 173A8:246–249
 - mica schist, 180A7:12–13
 - petrography, 160B36:455
 - photograph, 210A3:208, 223
 - photomicrograph, 161B19:278; 173A6:118, 120; 210B2:20
 - provenance, 180B6:20–24; 7:5; 210B4:3–5
 - sandstone, 210B2:4–5
 - schists, 161B19:265; 20:282–283; 23:313–314
 - sediments, 160B45:581; 172B5:4; 177B13:1–10
 - Site 740, 119B3:50
 - textures, 161A6:225
 - thorium/potassium ratio, 174A_A4:150
 - turbidites, 168A4:57–59; 5:111–112
 - vs. age, 178B15:11
 - vs. depth, 151B31:556; 172B5:13
 - X-ray diffraction data, 172B5:21; 175A10:281–282
 - See also* biotite/muscovite ratio; micas
- muscovite, iron-rich, green clay, 184B15:14
- muscovite grains, clasts, 160B46:599
- muscovite laths, volcanoclastic sand, 180B7:5
- muscovite/(muscovite + quartz) ratio, 175A10:281
- mussel beds, photograph, 164A8:249–250
- mylonite bands, photomicrograph, 209A6:85
- mylonite zones
 - photograph, 209A3:58, 105
 - vs. depth, 209A3:98
- mylonites
 - albitization, 118B26:465
 - amphibolites, 176A1:14–16
 - anisotropy and orientation of amphiboles, 118B11:236
 - Atlantis Bank, 118B8:179; 24:416
 - Barremian to Aptian, 149A6:203
 - basement, 173A1:10
 - breccia, 149B36:585
 - crosscutting foliated oxide olivine gabbro, 118B26:532
 - deformation, 118B22:406–407; 26:460; 179A4:53–54; 179B(synthesis):43–44; 180B(synthesis):16; 209B1:12–15
 - differentiation, 176B10:18–19
 - foliation planes, 118B26:449
 - gabbros, 153B4:71–74; 6:104–105; 180A1:14
 - horizontal foliation, 118B24:425
 - hydrothermal alteration, 209A5:12; 6:15
 - hypersolidus vs. subsolidus texture, 118B26:498
 - intensity in cores, 209A5:111
 - lithology, 176A3:15; 180A5:8–9; 210A4:5–8
 - magnetic susceptibility, 176B11:18–20, 63
 - mica schist, 180A7:12–13
 - ocean–continent transition, 149B47:718
 - oxygen isotopes, 118B8:174
 - petrology, 153A3:63–64; 180A11:4–5
 - photograph, 153A3:94; 5:200; 6:224; 153B2:34; 5:79; 6:120; 11:245; 176A3:187; 179A4:139–140; 180A1:54; 11:24; 209A3:107; 5:136
 - photomicrograph, 176A1:65; 179A4:141–145; 180A11:16; 209A3:106; 5:72, 79, 118
 - Prydz Bay, 119B7:138
 - reverse shear zones, 209A3:33
 - synkinematic assemblages, 118B24:423
 - tectonics, 153B3:44, 47
 - ultramafic composition, 153B11:246
 - zonation, 118B8:159
 - See also* gabbromylonites; gabbronorites; gabbros; harzburgites; peridotites-mylonites mixtures; protomylonites; protomylonitic zones; shear zones; ultramylonites
- mylonites, cataclastic, olivine gabbro cumulates, 147A1:9
- mylonites, dunite, photomicrograph, 209A5:84–85
- mylonites, gabbro, photomicrograph, 209A5:130
- mylonites, high-strain, photograph, 209A3:104
- mylonites, iron-titanium oxide-rich
 - Atlantis Bank, 118A6:117; 118B22:402, 406
 - origin of oxides, 118B22:407
- mylonites, peridotite, photograph, 209A1:97
- mylonites, porphyroclastic
 - alteration, 153A3:75–76
 - crystal-plastic deformation, 179A4:53–54
 - photograph, 153A3:82, 90–91
- mylonites, porphyroclastic metagabbroic, alteration, 153A3:84–85
- mylonites, serpentinite, lithology, 210A1:23
- mylonites, serpentinitized peridotite, 118A3:53–54
- mylonites, sheared, petrology, 180A11:5–6
- mylonites, veined
 - deformation, 118B9:186–187
 - petrography, 118B9:186–187
- mylonites, weathered harzburgite, photomicrograph, 209A9:74
- mylonitic fabric. *See* fabric, mylonitic
- mylonitic foliation. *See* foliation, mylonitic
- mylonitic texture. *See* textures, mylonitic
- mylonitic zones
 - deformation structures, 118A6:103
 - frequency of occurrence, 118A6:114
 - gabbros, 153B9:159–161
 - geometry, 118A4:68
- mylonitization
 - mica schist, 180A7:12
 - peridotites, 149B22:406, 409–410
 - quartz gabbro, 180A11:6

ridges, 149B1:13
 ultramafic rocks, 149B21:386
See also gabbros; ultramylonitization
 Myricaceae, Site 717, 116B21:255
 myrmekite
 composition, 200B3:36
 quartz, 200B3:25
 myrmekitic texture. *See* textures, myrmekitic
 Myrtaceae
 pollen, 133B10:116, 120
 Site 720, 117B16:286
 Site 765, 123B20:422
 Sites 815 and 823, 133B10:116, 120
 Myrtales. *See* Myrtaceae

N

n-alcohols
 chromatograms, 155B34:546–547; 175B10:24
 nonlaminated sediments, 146B(2)14:206–207
 sapropels, 160B21:264, 267–268; 22:275–276, 278
 sediments, 150B18:331, 336; 175B10:5–6
 See also alcohols
n-alcohols, long-chain
 sediments, 184B18:4, 9
 vs. depth, 184B18:11–12
n-alk-1-enes
 sapropels, 160B23:288, 290, 292
 turbidites, 157B35:593–594, 603–604
n-alkandiols, isomeric, mass spectra, 161B30:396
n-alkanes
 biomarkers, 160B28:352; 207A10:5–6
 bitumens, 169A3:119–120
 bituminous limestone, 160A7:190
 carbon isotopes, 208B1:13–14, 45; 5:1–11
 chain-length distributions, 151B22:402–403;
 162B15:212
 chromatograms, 160B23:291; 169A3:120; 4:179–182;
 5:224; 6:286; 172B1:4, 7–8; 175B10:24–25;
 180B16:5–6; 207A10:17–18; 208A3:22–23, 59;
 5:16; 6:25; 7:23–24, 59–60; 8:24–25, 58
 concentration, 175B10:30
 geochemistry, 123B11:219; 139A7:490–491;
 156A7:239
 oceanic anoxic events, 198A3:29–30
 odd carbon number predominance, 119B23:419, 423
 organic matter, 198A9:28–29
 organic-rich layers, 161B30:394–395; 162B15:211–
 214; 198A9:78–79, 104
 Prydz Bay, 119B22:410
 sapropels, 160B21:263–264, 267–268; 22:280; 23:287–
 290, 292
 sediments, 135B41:672–673; 141A6:113; 141B9:126–
 128; 22:288–290; 146B(2)9:131–132; 14:205;
 150A6:98; 151B22:391–405; 23:409–410;
 152B24:285, 289, 291–292; 155A11:294–295;
 12:346–347; 14:423–424; 156A6:144, 146;
 7:227; 157B21:366–368; 160A12:438; 164B5:48–
 51; 167B12:186; 169A4:178–181; 5:222–223,
 225; 172B1:2; 175B5:4–5; 10:5; 190/196B14:1–
 10; 198A4:25; 202B7:3–4

Site 799, 128A5:324, 343
 Sites 798–799, 127/128B(1)38:669–671
 sources, 119B22:408–409; 207A10:8–9
 turbidites, 157B34:585; 35:593–594, 597–604
 vs. age, 162B15:212
 vs. depth, 151B22:402–403; 167B12:189; 190/
 196B14:5; 202B7:9
 vs. organic carbon, 175B5:17
 vs. unsaturated *n*-alkanes, 139B25:475
n-alkanes, long-chain
 distribution, 208B5:3–4
 sediments, 184B18:3, 9–10
 vs. depth, 184B18:11–12
n-alkanes, terrigenous/aquatic ratio, 190/196B14:5, 8
n-alkanoic acids, bitumens, 169A4:181
n-alkanols
 bitumens, 169A4:181
 organic-rich layers, 161B30:395–396
 sediments, 175B5:1–26
n-alkenones, long-chain, vs. depth, 161B30:397
n-alkyls, biomarkers, 198A9:105; 207A10:5–6
n-butanes
 concentration, 162A8:276
 core void gas, 204A6:46, 74; 7:68; 8:53, 86; 9:51, 84–
 85; 11:57
 gas hydrates, 164B3:30–35; 4:40–45; 204A5:59; 6:75;
 7:69; 8:97; 9:86
 gases, 131A6:143
 headspace gases, 167A(1)6:150; 16:481; 202A10:88
 pressure cores, 204A6:76; 8:88–89; 9:87
 sediments, 162A9:307, 311; 166A7:160; 8:187; 9:250;
 10:311
 Site 798, 128A4:125, 176, 187
 Site 799, 128A5:244–245, 322
 vs. depth, 151A7:188; 12:392; 162A9:310;
 166A10:312; 204A7:42–43
 See also *iso*-butane; *iso*-butane/*n*-butane ratio
n-docosan-1-ol, vs. depth, 161B30:396
n-fatty acids
 long-chain vs. depth, 184B18:11–12
 sapropels, 160B22:277, 279
 sediments, 146B(2)14:209; 150B18:336
 Sites 798–799, 127/128B(1)38:669–671
 vs. depth, 161B30:396
n-hentriacontane, sediments, 155A12:346–347
n-heptanes
 gas hydrates, 164B3:30–35
 sediments, 164A9:296
 Site 799, 128A5:321–322
n-hexanes
 chromatograms, 155A11:295; 12:353
 concentration, 162A8:276
 core void gas, 204A6:46, 74; 7:68
 gas hydrates, 164B3:30–35
 headspace gases, 167A(1)16:481
 pressure cores, 204A9:87; 10:104–105
 sediments, 146B(1)8:154–155; 155A11:294–295;
 12:346–347; 162A9:307, 311
 Site 799, 128A5:321–322
 vs. depth, 162A9:310

N-MORB. *See* mid-ocean-ridge basalt
n-nonacosane, sediments, 155A12:346–347; 175B10:5
n-pentanes
 concentration, 162A8:276
 core void gas, 204A5:58; 6:46, 74; 7:68; 9:51, 84–85
 gas hydrates, 164B3:30–35; 204A9:86
 headspace gases, 131A6:144; 167A(1)6:150; 7:171;
 16:481
 pressure cores, 204A6:76; 9:87; 10:104–105
 sediments, 162A9:307, 311; 166A7:160; 8:187; 9:250
 Site 799, 128A5:321–322
 vs. depth, 151A7:188; 12:392; 162A9:310
See also iso-pentane
n-untriacontane, sediments, 175B10:5
 Na8, vs. Fe8, 187B1:37
 nacrite, thermal diagenesis, 159B7:58–63
 nacrite veins. *See* veins, nacrite
Nannochloropsis, sediments, 175B10:7–8
 Nannoconaceae
 Aptian, 207A1:7
 Bahamas, 101B3:79, 81
 diagenesis, 171B_A3:70
 nannofossils, 198B7:13–16, 55–56
 photomicrograph, 198B7:78–79
 nannoflora. *See* nannofossils
 nannofossil bioevents
 estimated ages, 138B12:234–235, 239, 241, 243, 246–
 247
 biostratigraphy, 183B4:50–52; 189B7:22–23
 calibrated ages, 138B9:174
 Cenomanian–Turonian interval, 210B13:44
 Cenozoic, 145B39:600
 chart, 204A4:59; 7:34
 cyclicity, 154B4:83–99
 middle Campanian–lower Paleogene interval,
 210B13:45
 Miocene, 138B21:482, 484–486
 Paleocene–Eocene transition, 210B13:46
 position, 161B13:163, 165–166
 stratigraphic list, 168A4:77; 5:140; 6:175
 vs. depth, 168B4:42
 vs. depths and ages, 184B10:23–24
 vs. sedimentation rates, 138B9:165
 nannofossil clay. *See* clay, nannofossil
 nannofossil claystone. *See* claystone, nannofossil
 nannofossil datums
 age, 161B13:176–180
 age and depth, 173A6:121; 7:180; 173B5:43, 45;
 198A3:121; 4:51, 80; 5:83; 6:72; 7:66; 8:65; 9:96;
 10:29; 206B2:25
 biostratigraphy, 151B3:39–40, 52–54; 160B7:91;
 186A5:105; 186B4:22; 189A7:112; 189B6:9;
 7:16; 192B2:13; 3:5; 199A14:51; 202A11:10;
 206A1:112; 3:340; 207A4:81, 97–98; 5:90, 93–
 94, 102–103; 6:82, 86, 96; 8:80, 83; 208A3:65–
 66; 4:74–75; 5:59; 6:92–93; 7:67–68; 8:65–66
 distribution, 210A3:338–339
 Eocene/Oligocene boundary, 198A4:51
 levels, 186A4:185; 189A3:130–131; 4:50; 5:119; 6:138
 mass accumulation rates, 173B5:9–10, 44, 46
 middle Miocene, 205B1:15

sedimentation, 164A6:117; 199A10:14–15; 210A3:89
 Site 1215, 199A8:44
 Sites 1067–1069, 173B4:17
 summary, 174A_A5:164; 194B1:7
 vs. depth, 199A11:91; 12:97; 13:70
 vs. sedimentation, 206B2:23
 zoning, 175A6:159; 7:183; 14:439; 15:466
See also biostratigraphic datums
 nannofossil ooze. *See* ooze, nannofossil
 nannofossil zones
 abundance and preservation, 157A4:72; 157B9:97–
 114
 Site 974, 161A4:72–74, 76
 Site 975, 161A5:134–136, 138
 Site 976, 161A6:201–202, 205
 Site 977, 161A7:315, 317
 Site 978, 161A8:376–377
 Site 979, 161A9:401–402
 vs. depth, 157A4:71; 5:119; 6:149–150; 170A3:63;
 4:118; 5:165; 6:202; 7:232
 nannofossils
 abundance, 160B7:84, 8:106–109; 18:220; 168B4:45–
 46; 175A17:515; 175B(synthesis):72; 181A3:88;
 4:58; 5:56; 6:116–119; 7:134–137; 8:103–106;
 9:78–79; 181B2:16–19; 184B10:19; 186B5:11;
 194B4:12; 197A3:150–153; 4:108–110; 5:94
 ages, 155A19:580; 155B20:356; 166B2:15; 181A7:71;
 195A4:203; 201B16:16
 assemblage stratigraphy, 198B7:12–13
 backscattered electron images, 161B8:104–105
 bioevents, 166A6:85; 7:159; 8:183; 9:244; 10:306;
 166B4:35–43; 199A8:51; 10:55; 11:106; 12:111;
 13:80; 14:57; 15:49
 biogeography, 198B6:9–11; 7:11–16
 biostratigraphy, 154A5:293; 164A6:114–117; 7:185–
 188; 8:256, 258; 9:290–291; 164B33:331–341;
 165A3:63; 4:153; 5:249; 6:310; 165B17:256;
 175B(synthesis):15–16; 180B4:4; 181A4:57;
 7:138; 8:60, 107; 9:80; 181B2:12; 183B8:14–16;
 191A1:16; 192B1:4–5; 201B16:3, 6, 19;
 210A1:16
 carbonates, 175A17:512–513
 Cenozoic, 181B1:18–19; 194A1:17–20, 25–27;
 210A3:332–334
 chronology, 183B7:7
 chronostratigraphy, 184B10:16–17
 climate proxies, 180B11:3
 color reflectance, 167A(1)5:108–109
 Cretaceous, 174AX_A1:29
 Cretaceous/Tertiary boundary, 198B1:8–9, 43
 diachroneity, 189B6:12
 diagenesis, 206B4:6–7
 dissolution, 167A(1)4:76; 168B4:45–46; 181A8:13;
 188B11:3–5; 208B3:3
 distribution, 160B9:118–119; 177A4:63–65; 5:67–69;
 6:57–59; 7:45–47; 8:73–77; 9:55–57; 186B5:13–
 15; 189A5:120–125; 7:106–111; 195A3:152–153;
 4:197–202; 5:44–45; 195B3:7–8
 electron microscopy, 160B27:344, 346
 environment, 204A10:10–11
 Eocene, 192B1:7

Eocene–Oligocene interval, 181B1:16; 189A5:74
 excursion taxa, 207B1:10
 identification, 189A3:122–129; 4:49; 6:130–137
 lithology, 159A8:266–267; 160A9:294–295; 162A3:55,
 58; 5:146–152; 6:178–184; 7:227; 8:296;
 164A5:79; 6:110–111; 7:184; 8:245–246; 9:284–
 286; 165A3:53; 4:138–148; 5:238–241; 7:363–
 368; 165B4:87; 166A6:77–78; 7:154–156; 8:177;
 167A(1)4:55; 5:89; 7:161; 8:180–181, 183;
 9:225–227; 11:288–291; 12:318–320; 13:357–
 359; 14:393, 395; 15:437–438; 16:467–468;
 168A4:57; 6:168–169; 170A3:56–57; 4:106;
 5:159, 161; 6:195; 7:220–223; 171A_A5:60;
 171B_A4:100, 112–116; 5:181–183; 6:257;
 172A4:84–93; 5:164–174; 6:255–259;
 173A7:175–177; 9:273; 175A3:56; 5:119; 6:150,
 152; 7:179; 8:205; 9:231–233; 10:276, 281;
 12:344–345; 177A1:20–22; 4:6–7; 9:6–7;
 180A5:7; 9:10, 15–18; 12:5–9, 14; 180B6:5–12;
 181A1:13, 19–20; 3:8; 4:4–7; 8:8; 183A4:5–6;
 184A4:8–10; 5:6–9; 7:5–9; 8:3–4; 9:6–11;
 184B10:1–24; 186A5:9–10; 188A3:13–14; 5:10–
 12; 6:12–19; 7:11–13; 190A4:8; 5:7–9; 7:5; 190/
 196B4:3–4; 192A3:5; 4:5–8; 197A3:7–9; 4:6–9;
 198A8:7–8; 9:11; 199A13:9; 201A6:9; 9:7–11;
 11:8–10; 202A5:5–8; 6:6; 7:6–7; 8:7–9; 10:6–10;
 11:6–10; 12:8–10; 13:6–9; 204A4:5–11; 5:3–4;
 6:3–8; 8:6–8; 9:6–7; 10:6–7; 11:3–5; 205A6:9;
 207A4:5–9; 5:5–8; 7:5–11; 8:4–9; 208A3:6–7;
 4:6–8; 5:4–6; 6:6–10; 8:5–9
 Lower Cretaceous, 198B6:1–60
 lower Miocene–upper Oligocene, 199A11:12–13
 matrix, 157B16:273
 Mesozoic, 159B35:481–490; 210A3:335
 Messinian, 161B42:529–541
 Messinian and Zanclean distribution, 160B9:116–117
 Messinian–Pliocene interval, 160B36:458–459
 middle Eocene, 192A1:17
 Miocene, 189B1:6; 7:1–39
 mud volcanoes, 195A1:10–14
 Neocomian, 198A1:49–50; 198A9:5
 Neogene, 159A9:308–309
 Oligocene, 197A1:10–12
 overgrowth stages, 168B4:45–46
 oxygen isotopes, 174A_B(synopsis):7–8
 Paleocene/Eocene boundary, 174AXS_A(sum-
 mary):34; 199A1:25–26
 Paleocene–Eocene interval, 183B1:22; 4:1–59
 Paleocene/Eocene Thermal Maximum, 198B1:46;
 207B1:10
 Paleocene–Miocene interval, 197B4:1–12
 paleoclimatology, 175A1:15–17; 181B1:48–51
 paleoenvironment, 184A1:30–31; 197A5:8
 Paleogene, 189B8:1–14
 paleoproductivity, 183B4:12
 photograph, 165A4:144; 170A7:224; 171B_A5:187–
 188; 6:250, 252; 172A4:84; 5:175; 180A5:47;
 7:29; 184A9:59; 192A3:63; 6:50; 201A11:44
 photomicrograph, 183B4:53–59; 8:18–19; 185A4:83;
 192A3:54; 208A1:104
 Pleistocene, 202B5:1–10

Pliocene, 202A9:12–13
 Pliocene–Pleistocene interval, 181B1:17–18
 preservation, 138B24:540, 543, 545–547; 157A5:120;
 195A4:116; 210B13:6–25
 principal results, 189A1:15–16, 30–32
 Quaternary, 186B5:1–15; 189B1:6; 6:1–26
 radiometric ages, 165B20:305–306
 range charts, 186B4:23–31; 190A4:123–129; 5:124–
 131; 6:80; 7:70–71; 8:76–81; 9:91–96; 195A1:56;
 4:117–118
 relative abundance, 159B42:583; 168B4:44–46;
 186B4:18; 5:10
 review, 189B1:6
 reworking, 183B4:12–13
 scanning electron micrograph, 159B16:153, 155;
 161B7:95
 sedimentary structures, 172B7:4–12
 sedimentation, 167A(1)5:92; 180B(synthesis):12;
 185A1:53; 4:131; 192A6:10–11; 199A12:24
 sediments, 189A5:68–69; 198B16:4–5
 sequence boundaries, 166A2:19–20; 174A_B(synop-
 sis):9
 smear slides, 205A5:14–15
 species diversity, 159B42:583
 stratigraphic distribution, 189B6:19–22
 total organic and inorganic carbon, 201B8:4–5
 transects, 168A1:17, 19
 tropical/open-ocean taxa, 198B7:12–13
 turbidites, 168A4:57; 5:111
 vs. age, 167B27:304; 205B14:20
 vs. centimeters from the Cretaceous/Tertiary bound-
 ary, 174AXS_A(summary):33
 vs. depth, 159B42:582; 160A5:96; 7:164; 8:228; 9:297;
 10:342; 11:385; 161A8:363; 9:399; 161B1:15;
 164A5:74, 78, 80; 6:111; 7:181; 9:283;
 164B35:375; 166A6:87; 7:157; 11:351, 354;
 170A6:202; 173B11:35, 39, 43, 46, 50, 54;
 177A3:22; 184A5:41, 44; 8:16; 185B5:13;
 186A4:82; 5:52; 189A3:67; 6:75, 77–80; 7:61, 65;
 192A1:60; 5:35, 98; 194B4:8; 195A3:104; 4:116–
 118; 197A4:38, 40; 202A4:33, 38; 5:29, 35; 7:41,
 51; 8:59; 9:46, 57; 10:46, 52; 11:38, 47; 12:48,
 57; 13:38, 46; 205A4:79; 5:53; 6:28; 206A3:123;
 208A3:30; 4:37; 5:28, 31; 6:43; 7:35; 8:36
 zonation, 157A8:408, 410; 9:450–452; 10:516, 518;
 160A7:175; 10:355; 181B2:4; 184B10:18;
 185B5:14; 198A5:39, 42; 7:37; 8:33; 9:41; 10:18;
 192A4:55; 5:98; 198B10:15; 210B13:37–40
 See also chalk; claystone; coccoliths; discoasters; dis-
 coasterids; Eiffellithaceae; gephyrocapsids; Nano-
 conaceae; nannoconids; ooze;
 reticulofenestrids; Rhagodiscaceae; sediments;
 Stephanolithaceae; Tubodiscaceae; Watznaueri-
 aceae
 nannofossils, calcareous
 abundance, 101A1:18; 103B20:300–313; 104A4:133–
 134; 5:474, 482–483; 6:630–631, 635–636;
 104B26:463–467; 108A(1)3:116, 129–130;
 7:494; 108B8:129–130; 113A5:114–116; 6:216–
 221; 7:309; 8:360–361; 11:637–638;
 113B23:329–336; 30:467–471; 32:518–521;

- 37:616–617; 38:643–651; 114A7:168; 8:384;
114B8:181–182, 186–187; 9:196–199; 13:287;
116A2:21; 117A12:411; 120B(2)55:985;
56:1006, 1017; 129A2:50; 3:115; 4:197;
129B6:155–156; 130A9:403; 135B11:170;
138B21:482–497; 145A5:128, 161; 154B4:84–98;
18:271–279; 155A6:106; 7:139–140; 8:186;
9:213; 10:256; 11:288; 312; 12:344–345; 13:395;
14:419; 15:449; 16:475; 17:521; 18:549; 19:579;
20:607; 21:646; 22:671; 167B1:9–10, 13, 17, 19–
20; 175A9:246; 17:512
- abundance and preservation, 126A2:21, 23;
126B16:241–242, 246; 127A4:98–99; 5:193–195;
6:273; 7:351–355; 127/128B(1)4:161; 128A1:28–
30; 4:162–165; 5:305–310; 161A4:64; 5:133;
6:197–198; 7:309; 8:362–363; 9:397; 180A7:17–
18; 8:27–29
- age, 103A8:142; 12:598; 108B2:14, 18–19; 8:123, 125;
114B8:181–187; 115B25:469; 116B15:167, 186–
187; 127/128B(2)83:1335; 133B15:193–198;
17:244; 168A4:77–78; 5:133–134; 198A3:84
- Albian, 101B3:80–81
- Albian/Aptian boundary, 123A4:124
- Albian–Cenomanian, 101B3:79; 30:479; 136A1:7
- amaurolithids, 108A(1)2:36–40; 4:230; 108B4:42
- analytical methods, 123A3:44–45
- Antarctic Circumpolar Current, 121A13:479
- Aptian–Cenomanian, 129A2:51; 129B9:197–199;
33:625
- Argo Abyssal Plain, 123B1:42; 17:370–371
- assemblages, 105B17:275–276; 114A7:272;
126B16:239–240, 242; 129B9:190; 33:624;
138B9:163–176; 35:721–725, 756
- Atlantic Ocean N, 104B26:467–468, 470, 475
- austral affinity, 121B5:144; 123B1:41
- authigenic carbonates, 127/128B(1)10:166
- Barremian–Albian homogenization, 123B39:755
- biochronology, 115B15:183, 203–204; 167B32:367,
369; 168B4:39–49
- bioevents, 107B24:396; 32:516, 522; 41:686, 692;
115A37:678; 117B1:22; 127/128B(1)11:172–
174, 178; 130B13:246, 253; 138A(1)9:142;
(2)13:698–699; 14:762–763; 15:825; 16:916–
917; 17:981; 18:1036; 19:1071; 154A4:68–69;
5:162–163; 8:348–349
- biogeography, 113B30:470–473; 123A4:130;
123B1:34, 41–42, 48; 16:351, 355–356; 17:370–
371; 39:740–743, 755; 124A11:223; 12:315,
324–325; 13:350; 124B2:11–21; 10:133–150;
25:349
- biohorizons, 133B47:699; 53:773–778
- biomagnetostratigraphy, 115B16:248
- biostratigraphic datums, 115A4:148; 5:244–249, 263;
6:417; 7:483; 8:611; 10:751; 11:859; 12:928;
13:1013; 117A2:22; 9:212; 10:263; 12:394;
13:427; 16:504; 117B2:37–42; 20:349;
119B26:482; 121A7:177; 11:316; 17:382;
121B36:725–727; 126B16:256; 127/
128B(1)10:163–166; 130B15:275; 145A5:140–
141; 6:231; 154B3:72; 167A(1)4:72;
171B_A4:118, 121; 5:190; 6:266; 7:327;
171B_B7:22–23; 172A3:41–42; 4:94–96; 5:179–
183; 6:260–261
- biostratigraphic horizons, 117B19:324–336
- biostratigraphic markers, 107B31:498
- biostratigraphic ranges, 167A(1)4:58–59; 5:96–97;
6:137–138; 7:163; 8:188–189; 9:229; 10:250–
251; 11:295; 12:324–325; 13:362; 14:399–400;
15:441–442; 16:470–471
- biostratigraphy, 101B2:54; 3:63–81; 7:223–225;
105B16:246–247, 249, 255; 17:263–265, 273;
50:937, 952; 107A6:149, 151–152; 7:309–311;
8:426–427; 10:768–769; 11:891; 12:962–963;
107B23:387–388; 31:495–497; 32:530; 37:615–
616; 41:683–684; 108B2:9–12; 113A5:110–111;
7:311; 11:633–635; 113B17:217–218; 30:468–
470; 32:516–518; 37:632; 114A5:101–102;
6:169; 8:378, 380; 9:492–495; 10:562, 564;
11:643–644; 12:269, 271–272; 114B9:195;
115A2:26–27; 4:133–135; 6:408; 7:468–469;
8:597–600; 9:665, 668; 10:741–742, 744;
11:852–854; 12:922, 924; 13:1008, 1010;
115B14:131, 170; 15:178, 187–191, 194–195,
198–201, 206–211, 214; 16:249; 116B15:167–
186; 117A2:18; 8:165; 9:214–215; 10:330–331;
14:426–427; 16:504, 506; 17:552; 18:566–567;
19:600–602; 118A1:19; 119A5:131; 6:174–178;
7:244–249; 8:304; 11:413; 13:485; 14:514;
119B26:469–471, 474–477, 481, 484; 41:743;
46:824; 121B5:162; 123A4:115–118; 5:302;
123B1:35–42, 49, 52–53, 60; 2:62–63; 18:382–
383, 392–403; 124A10:144, 152; 11:224; 12:304,
317–318, 325; 13:351–352, 354–355; 14:405,
408; 124B9:122, 124, 127–128; 125A6:101;
7:120; 8:152; 9:182–183; 11:256; 12:277;
13:309; 14:318–319; 125B3:50–53, 58–61;
126A5:79–81; 6:117–118; 7:160–162, 167, 171–
172; 8:248–252; 9:347–349; 126B17:257;
129A1:14–16; 129B8:179–187; 9:189–201;
130A9:394–402; 10:523; 130B6:86–87;
131A6:99, 101, 107–109; 131B1:3–13;
132B2:15–36; 133A(1)4:95–98; 5:151; 6:185–
186; 7:210–211; 8:261–262; 9:311–312; 10:364–
367; 11:427; 12:464; 13:518–519; 14:579–580;
15:627–628; 16:703–705; 17:780; 18:809;
133B1:3–18; 2:19–37; 24:329, 331–332; 47:697–
704; 54:779–785; 134A7:108; 8:150; 9:195;
10:273–274; 11:334; 12:409; 13:499;
134B10:179–245; 135A(1)4:112, 115; 5:203–
206; 6:260–261; 7:306; 8:360; 9:419–420;
10:524–525; 11:603–606; 135B13:191–205;
17:267–284; 54:866–877; 136A4:41; 5:68;
138A(1)9:131, 134; (2)13:685–687; 14:744;
16:903; 17:981–983; 18:1029–1030; 19:1069–
1070; 139A5:110, 113; 6:182–183; 7:302–305;
8:458–459; 141A6:92; 7:179, 181; 8:259; 9:318;
10:365; 141B14:193–211; 30:373–377;
143A6:125–130; 7:209–210; 9:316–320;
143B3:31–74; 7:105–106; 144A3:55–56, 58–59;
4:119–120; 5:165–166, 169–170; 6:226–227;
7:269–270; 8:298; 10:356–357; 11:425;
145B37:560–574; 40:633–638; 146B(2)24:329–

- 330; 149A4:62–66; 5:127–128; 6:175, 177–179; 7:223–225, 227, 267; 149B36:579–580; 45:694; 150A6:81–82; 7:153–154; 8:224–225, 276–278; 10:322–323; 150B26:435–437; 150X_A1:25–26; 151A5:72; 6:124; 7:173; 8:232; 234; 9:279; 10:328–329; 11:363; 151B3:39–59; 35:630; 152A6:62; 7:78; 8:94; 9:117; 11:209; 12:264; 152B11:147–160; 154A4:67–69, 71–73; 5:161–164; 6:239; 7:286–288; 8:347–349, 351; 155A6:96, 98; 7:131–132; 8:183; 9:209–210; 10:249–250, 254; 11:281, 286–287; 12:339–340; 13:394; 14:419; 15:445; 16:472–473; 17:512–513, 515; 18:549–550; 19:578; 20:605; 21:646; 22:666–669; 38:579–580; 155B20:354, 356, 358–359; 156A6:129–130; 7:217–218; 156B3:49–56; 157A4:71, 73; 5:114, 118; 6:149–151; 7:341–346; 8:409–411; 9:449–453; 10:515–519; 157B8:83–96; 29:501–520; 159A5:87–90; 6:177–180; 7:234–236; 8:270–272; 159B39:533–538; 42:575–583; 160A4:60–61; 5:100–101; 6:132–134; 7:164, 170, 173–175, 196; 8:224–230; 9:298–302; 10:344, 348, 351–352; 11:386–387; 12:431–434; 13:454–456; 14:477–478; 160B10:129–131; 12:157–158; 161A4:64–69; 5:132–133; 6:198–200; 7:309, 311; 8:363; 9:397; 161B13:159–183; 16:223–237; 162A3:67–68; 4:108–109; 5:152; 6:184, 186; 7:234, 238; 8:268; 9:303–304; 10:357; 164A5:81–82; 165A3:62–64; 4:152–154; 5:248–250; 6:309–311; 7:368; 165B1:3–17; 166A6:85–86; 7:157; 8:180–182; 9:243–244; 10:305–306; 11:356–357; 166B15:155–166; 167A(1)4:57–59; 5:101; 6:139; 7:162–163; 8:185; 9:229; 10:248–249; 11:293; 12:322–323; 13:361; 14:398; 15:439; 16:469–470; 167B1:3–40; 32:364; 168A5:133–134; 6:175; 170A3:62–65; 4:117–121; 5:163–164; 6:199; 7:227–230; 170B5:1–63; 171B_A4:118–121; 5:188–190; 6:263; 7:325; 171B_B7:1–28; 172A3:41–42; 4:93–95; 5:178–180; 6:260–261; 7:319–321; 173A4:79–81; 6:117–119; 7:180–182; 8:242–243; 9:274–275; 173B5:1–50; 174A_A3:58–59; 4:115–117; 5:164–166; 174AXS_A1:36–44, 65; 2:38–40; 3:43; 4:28; 175A3:58, 60; 4:92–93; 5:120–122; 6:155, 157; 7:179–180, 182; 8:206–207; 9:241–243; 10:283–285; 11:318–319; 12:351–354; 13:398–400; 14:436, 439; 15:466–467; 177A1:22–23; 3:6–7; 4:9–10; 5:8–10; 6:7; 7:6–7; 8:10; 9:8–9; 178A1:14–15; 5:14; 8:10, 14, 41; 178B28:1–22; 180A5:24–25; 6:43–45; 7:17–18; 8:27; 9:31–32; 10:14; 12:31; 181A3:11–12; 4:9–10, 13; 5:9–10; 6:13–15; 7:14–17; 8:13–15; 9:10–12; 181B2:1–22; 182A1:11–12, 17, 20–23, 26–31, 34, 37, 40; 4:13–16, 52–53; 5:10–11; 6:12–16, 54; 7:12–13, 39–40; 8:11–14, 41; 9:9–10, 31–32; 10:13–15, 46–47; 11:7–8, 23; 12:8–11, 35; 182B6:1–11; 183A3:7–10; 4:7–8; 5:9–10; 6:11–16; 7:9–11; 8:6–10; 183B4:41–46; 184A4:11–13; 5:9–10; 6:7; 7:10; 8:4–5; 9:12; 185A4:20–21; 185B5:1–21; 186A4:23–24; 5:17–18; 188A3:26–30; 4:20; 5:16–17; 188B11:1–14; 189A3:23–25; 4:9–11; 5:21–22; 6:27–29; 7:25–26; 190A4:11–13, 120–123, 125, 129; 5:14–17, 121–131; 6:11; 7:8–10, 68–70; 8:11–12; 9:12–14; 191A4:17; 192A3:21–25; 5:7–8, 10; 7:5; 194A3:8–9; 4:12; 5:9–10; 6:6–8; 7:16–17; 8:10; 9:8–9; 194B1:1–7; 4:3–4; 195A3:21–24; 4:24–28; 197A3:10–11; 4:10–11; 5:7–8; 6:5–6; 198A3:18–20; 4:17–18; 5:16–17; 6:14–15; 7:13–15; 8:13–14; 9:19–20; 10:9–10; 198B2:1–44; 199A8:7–8; 10:9–10; 11:11–14; 12:13–16; 13:10–13; 14:10–12; 15:7–8; 199B2:39–40; 202A3:9; 4:9; 5:8–9; 6:9; 7:11–12; 8:14–16; 9:12–13; 10:10–12; 11:10; 12:11; 13:10; 202B1:11; 204A3:11–13; 4:12; 5:6; 6:8–9; 7:8; 8:10; 9:9–10; 10:11–12; 11:10; 205B14:1–26; 206A1:23–24; 3:26–29; 207A4:11–13; 5:12–14; 6:12–14; 7:12–13; 8:11–14; 208A3:10–12; 5:7–9; 4:9–11; 6:10–13; 7:9–12; 8:10–13; 210A3:75–80; 210B11:1–9; 13:1–53
- biostratigraphy and biochronology, 107B43:709
bioturbation, 113B32:522; 37:618
black shale, 113B23:336–339
Bolboforma correlation, 114B18:327–331
Boreal affinities, 123B1:41; 16:350–351, 359
bottom current influence, 108B4:62
boundaries, 113B32:517–522
Brunhes/Matuyama boundary, 114B9:197
burrows, 113B32:522, 525
calcareous chalk, 123B6:147
Campanian, 101B3:78–81; 30:477–478; 121A13:482; 197B3:1–10
Campanian/Maastrichtian boundary, 121A11:376; 123A4:123
Campanian–Maastrichtian interval, 119B26:474; 121B5:142, 159–161
Campanian/Santonian boundary, 114A7:271
Campanian–Santonian interval, 123A4:124; 123B38:727
carbonate compensation depth, 115B15:190, 192, 195; 127/128B(2)77:1220
carbonates, 115B15:195; 121B18:398–399; 130B38:642, 645–647, 652; 44:733–740
Cenomanian/Albian boundary, 123A4:124
Cenomanian/Turonian boundary, 123A5:291; 123B18:383
Cenozoic, 101B3:65, 70; 103A9:243, 283; 103B19:280–283, 287–288; 123A4:123–125; 5:289–291; 123B38:731; 125A10:203–205; 130B48:801–809; 131B5:59; 138B12:233–286; 143B33:567–570; 145B39:599–632; 174A_B5:1–16; 174AX_A1:38–39; 174AXS_A5:45–47; 6:52–55, 102; 192A3:154–155; 6:106
ceratoliths, 107B32:522
checklist, 184A4:91–92; 5:81; 6:56; 7:84–85; 8:38; 9:100–104
chronostratigraphy, 107B22:359; 114B8:188; 115B15:178, 183–184, 187, 191, 194, 197, 201, 208, 210
claystone, 123A4:104; 123B1:25
color cycles, 108A(2)12:839; 108B4:62
Coniacian/Santonian boundary, 121B5:145

- correlation, 130B35:591; 44:726; 152B20:255–257; 155B39:596–599
- cosmopolitan events, 120B(1)21:359–360
- Cretaceous, 101B3:67, 70–73, 81; 103B20:293–295, 299, 301, 311–312, 320–348; 108B4:36, 39; 114B7:161; 121A13:482–483; 14:511–512; 17:380–382; 121B5:143–145, 149; 18:400–401, 406; 123A5:291–293; 123B16:344–355; 18:384–387, 392–398, 401; 38:721, 731–735; 129A2:48–51; 4:199; 129B8:182; 144B8:157–169; 159B26:319–329; 160B31:400–401; 174AX_A1:39; 174AXS_A5:47–48; 6:55–56; 192A3:156; 6:107
- Cretaceous–Cenozoic interval, 144B5:117–119
- Cretaceous–Paleogene interval, 144B5:100–103; 49:873–885
- Cretaceous/Tertiary boundary, 113B32:515–524; 114B7:155, 168; 119A7:245–247; 119B25:455; 26:473; 27:497–502; 47:851, 856–857; 120B(2)25:455; 54:961, 963; 121A6:127; 13:481–482; 14:507, 509–512; 121B18:396–398, 401–408; 36:730–731; 123B18:398; 130B45:748–749; 183B1:28; 4:47–48
- Danian, 119B27:501, 508
- Danian–Eocene unconformity, 121A6:126
- dating, 113B23:326–334; 30:467–471; 37:614; 38:641
- debris flows, 123A4:125, 129
- deepwater taxa, 105B17:275
- deposition, 108A(1)3:115; 119B6:113
- depths, 105A4:94–95; 5:445, 449–450; 6:698, 704–705; 131A6:252
- diagenesis, 107A9:616; 154B34:498–499
- diatoms, 105B20:328–329
- dinoflagellates, 105B28:521–524
- dipping units, 121A13:480–481
- discoasterids, 107B31:496; 32:518–522
- disconformity/diatom–nannofossil ooze, 119B26:470
- discontinuities, 117A10:265
- dissolution, 108B2:10; 115A8:600; 115B14:145–147; 121A11:315; 127/128B(1)10:166; 128A4:162
- distribution, 103B19:284–287; 104B26:479; 105B16:248–256; 17:266–275, 280–281; 107B31:499–502, 506–509; 112B14:220–223, 226–230, 234–236; 113B23:329–334; 37:618–628; 38:644–645, 648–651; 117B1:10–14, 16–21; 2:42–49; 119B26:478–480; 123B16:346–349; 17:371–377; 125B2:39; 4:71–74; 126B16:240; 135B7:117–118; 150A6:83, 85; 151A7:173; 155A4:81–82; 177A3:48–51; 182B6:7–10; 183B8:17; 185B5:16–20; 199A11:49; 202A3:47; 4:66–67; 5:54–55; 6:58; 7:65–67; 8:87–89; 9:88–89; 10:81–83; 11:70–71; 12:85–86; 13:66–67; 206A3:342–343; 206B2:24; 207A4:84–85; 210B11:8
- diversity, 104A4:123–124; 127/128B(1)11:175–177
- drill sites, 101B3:64
- Eltanin* cruise, 120B(2)63:1093
- Eocene, 101B3:74, 78; 30:477; 105B17:265, 273; 28:521–523; 115B14:132, 165; 18:394, 401; 119A7:244; 121A8:195; 123A5:289; 149B3:61–78; 150A8:226; 150B25:430; 160B31:398–399; 173B4:1–35
- Eocene–Miocene interval, 112A15:456; 115A10:742; 121A7:176; 125B3:46–53
- Eocene/Oligocene boundary, 114B8:188; 119A6:177–178, 218; 7:245; 13:484; 119B26:470–474; 120A9:319; 120B(2)26:488; 55:982; 121A10:270; 11:316
- Eocene–Oligocene interval, 112A14:380; 121A11:376; 177B8:1–9; 208A1:112
- etching, 123A4:103; 123B1:36; 138B35:726
- Exuma Sound, 101A9:347–348; 10:395–396; 11:443
- Falkland Plateau, 113B30:472
- foraminiferal age correlation, 121A6:121
- Gartner zonation comparison, 126B16:246
- Gault, 123B16:356–357
- geomagnetic correlation, 108B4:64; 115B15:183; 18:272
- gephyrocapsid events, 107B32:526
- glacial–interglacial cycles, 105B16:255, 257; 108A(1)2:840; 108B4:60
- glaciation, 120B(1)12:162–163
- global diachrony, 120B(2)26:485
- globotruncanid extinction, 121B19:418–419
- helicosphaerids, 108A(2)12:840
- hiatuses, 108A(1)4:230; 113B32:522, 524; 37:616, 632; 38:657
- high-latitude affinity, 101B5:94; 121A6:127; 14:512
- Holocene, 101B1:19
- holococcoliths, 113B30:473–474; 114A5:102
- holotype image analysis, 161B17:239–247
- ice patterns, 113B38:657
- ice-rafted debris, 120B(2)63:1093; 64:1111
- ice sheet development, 113B53:955–956
- Indian Ocean, 120B(2)62:1081
- inoceramid sediments, 123B1:11
- interhole correlation, 115B15:189, 193, 200, 202–204
- isotope stratigraphy, 114B9:195, 198–199
- Japan Sea formation age, 127/128B(2)77:1220
- Jurassic, 173B7:1–24
- Jurassic/Cretaceous boundary, 123B1:40; 17:369–370
- Kerguelen Plateau, 119B26:477
- Labrador Sea, 105B16:245–246
- latitudinal gradients, 120B(2)26:490; 29:523
- Leg 119, 120B(2)64:1109
- Leg 127, 127A1:19–20
- Leg 128, 128A1:28, 30
- light micrographs, 173B7:20, 23–24
- Lima Basin, 112A11:175–177; 19:817; 112B14:217–218, 225
- lithology, 115A5:248; 7:469; 121B5:149; 125B3:45–46; 126B16:245–246; 127/128B(1)10:165–166; 133A(1)11:423–427; 151A5:67–69; 154A6:235–237; 7:283–284; 156A6:98–99; 7:202–203; 178A5:5; 182A1:37; 4:5–9; 5:4–8; 6:6–7; 11:3–5; 12:5; 182B9:3–7; 204A3:5–8
- Little Bahama Bank, 101A6:126–127; 7:220–222; 8:275–277
- local diachrony, 120B(2)26:488
- low Miocene diversity, 121A13:479
- lower and middle Miocene, 130B13:249, 252

- Lower Cretaceous, 129B33:618; 198A1:14–15
 Lower-mid-Cretaceous, 198B7:1–82
 lower Miocene, 192A4:11
 Maastrichtian, 101B30:477; 114A5:102; 119B26:474;
 121B5:146–148, 150–153
 Maastrichtian/Campanian boundary, 108A(1)6:418–
 419; 114A5:102; 7:271
 Maastrichtian/Danian boundary, 121A13:481
 magnetobiochronology, 178B36:4
 magnetostratigraphy, 113B37:620–621, 632; 38:650,
 652–654; 115B15:186–190; 18:271–274;
 117B1:23–24; 5:129–130; 119B26:474–475;
 27:501; 120B(2)55:982; 121B36:725–735;
 124B2:22–24; 126B16:249, 251; 127/
 128B(1)10:163–164
 Mascarene Plateau, 115A5:242, 244, 246, 248
 mass accumulation rates, 107B32:532; 180A5:76
 Matsuoka and Okada, 126B16:242–244, 246
 Maud Rise comparison, 121A14:519
 McMurdo Sound, 120B(2)64:1105
 Mesozoic, 103A9:243–244; 123A4:124–125;
 129B8:179–187; 130B6:85–92; 149B2:27–59
 microfossil studies, 104A4:122, 146–147;
 104B39:780–781
 mid-Cretaceous, 129B33:624
 Miocene, 101B1:21–23; 2:50; 3:68–69, 73–74, 80;
 108B2:20; 4:42, 63; 111A4:261–262; 114B7:174;
 115A6:408; 10:741; 12:924; 115B14:192;
 15:180–183, 189, 192, 195, 203; 16:245–248;
 18:272–275; 117A9:216; 117B2:45; 123A4:123;
 125A10:204; 130B13:245–256; 131B1:9;
 138B9:167–169; 12:256–261, 274–277; 21:479–
 502; 194B1:6
 Miocene–Holocene interval, 125B2:15, 17–19
 Miocene/Oligocene boundary, 114A6:169
 Miocene–Pleistocene interval, 112A17:617;
 115B15:199
 Miocene/Pliocene boundary, 107A9:616; 107B31:495;
 43:706–707; 108A(1)2:36; 6:415; 108B4:39, 63;
 115A5:246, 248; 7:468; 8:599–600; 9:665;
 10:741, 744; 115B15:183–184; 116A5:103;
 6:164; 121A6:123; 7:175; 11:376; 125A10:204;
 125B2:20; 3:49
 Miocene–Pliocene interval, 101B3:78; 107B31:505;
 115B15:205; 121A8:198; 138B12:266–269;
 150B4:53–61; 177B7:1–14
 monospecific assemblages, 128A5:307
 Nazareth Bank, 115A4:133
 neodymium isotopes, 136B10:127
 Neogene, 101B3:76, 79; 30:475; 105B16:247;
 111B23:277–285; 121A24:478; 123A3:42;
 123B38:719; 130B11:179–229; 133B18:255–261;
 138B23:518, 520–521; 186B4:1–31; 206A1:64
 neritic taxa, 105B17:275–276
 non-*Gephyrocapsa* sp./total nannoflora ratio,
 144B42:696, 698, 700, 712
 North Sea, 104B27:475
 Northeast Providence Channel, 101A13:531–532
 Northwest Providence Channel, 101A12:494
 occurrence, 125B37:617; 192A7:56
 oceanographic front fluctuations, 127/
 128B(1)10:167–168; 77:1220
 oldest taxa, 113B30:473
 Oligocene, 101B3:68–69, 74–80; 4:87–97; 30:476–477;
 105B20:335; 115B14:134–135, 165; 16:238–240,
 244–245; 121A8:200; 11:315; 123B18:395;
 125A10:205
 Oligocene–Holocene interval, 101B3:64; 183B8:1–19
 Oligocene/Miocene boundary, 108A(1)4:231;
 108B4:42, 63; 112A2:34; 112B14:221, 226;
 115A5:247; 6:409; 8:600; 9:665; 11:852–853;
 115B15:183–184; 16:244, 248; 119A13:484;
 119B26:474; 121A6:123; 10:270; 11:316, 376;
 13:479; 121B36:733; 123B18:395; 125A14:319;
 125B3:46, 49, 52, 53, 59; 126A2:21;
 126B16:247; 130B13:247
 Oligocene–Miocene interval, 115B16:239–245;
 119A6:177; 126B16:246–249; 149B4:79–145
 Oligocene–Pleistocene interval, 115A4:132, 134;
 115B15:185–192, 195, 197, 199, 201–206
 Oligocene–Pliocene interval, 130A2:25–30; 7:233–239
 open-ocean pelagic deposition, 121A8:205
 overgrowths vs. age, 138B35:727
 oxygen isotopes, 113B47:836
 oxygen-minimum zone effects, 117A4:39
 paleobiogeography, 113B38:654–656; 119B27:502–
 503; 120B(2)26:488
 paleoceanography, 123B39:742, 752–754; 186B4:7–9
 Paleocene, 119B26:481
 Paleocene/Eocene boundary, 115B14:134; 121A6:127;
 121B36:727; 123B18:399; 208B3:1–9
 Paleocene–Eocene interval, 150X_B9:91–110
 Paleocene/Maastrichtian boundary, 114A7:271
 Paleocene–Miocene interval, 114B7:163, 164
 Paleocene–Oligocene interval, 121A11:376
 paleoecology, 105B17:275–276; 113B23:332–334
 paleoenvironment, 104A5:474; 6:631; 105A4:93;
 113B23:332–334; 114A5:102–103, 118; 6:169,
 198; 7:272, 305–306; 8:380, 382, 412, 413;
 9:495, 514; 10:564; 11:644; 114B8:171–174;
 123A4:129; 5:289; 123B1:41–42; 16:351, 355–
 356; 128A(1)10:164–165; 181A3:15; 4:13
 Paleogene, 101B3:66, 74, 78–79; 28:477; 115B11:111;
 14:132, 135–167; 120B(2)26:473; 121A12:375–
 376; 123A3:43; 123B18:388–391, 399–404;
 38:720; 159B32:413–431; 199B1:7–8
 Paleogene/Eocene boundary, 123B18:402–403
 Paleogene–lower Miocene interval, 198B2:19
 Paleogene/Neogene boundary, 108A(2)12:840;
 119B26:472
 paleolatitude, 129B23:446
 paleomagnetism, 108B4:61; 114A5:109; 6:167; 7:272;
 8:379–380; 9:494; 10:561; 11:640–641
 percentage plots vs. depth, 129B9:192; 144B1:13
 photograph, 141A7:167; 150X_B9:106–110;
 152B11:158–160
 photomicrograph, 130A8:310; 133B2:35–37
 physical properties, 120B(1)13:187
 Piacenzian, 107B43:708, 711
 Pigafetta Basin, 129B31:562

- Pleistocene, 101B1:21–22; 3:68–69, 74–76, 79;
107B32:524, 527; 108A(1)2:37; 111A4:259, 261;
115A11:852; 12:924; 115B15:177, 179–180;
116A5:103; 117B1:20; 2:47; 119B26:472;
126B16:239–246; 131B1:7; 150A6:82; 202B1:5;
5:1–10
- Pleistocene–Holocene interval, 101B11:77
- Pliocene, 101B3:68–69, 74–80; 107B32:523;
111A4:261; 115B14:131; 15:177–180;
116B15:175; 117A14:452; 123A4:122;
123B18:400; 130B46:755–759; 131B1:8;
180B11:1–15
- Pliocene–Miocene interval, 138B12:266–269
- Pliocene/Pleistocene boundary, 107A4:79; 6:152;
7:311; 8:427, 528; 9:712, 616; 10:769; 11:891;
12:962–963; 107B31:497; 108A(1)2:37; (2)9:626;
112A20:900; 112B14:228; 114A6:169;
115A8:599; 9:665; 10:742; 13:1008, 1010;
115B15:183; 116A5:103; 117A9:215; 10:263;
11:331; 12:394; 14:452; 15:472; 16:504, 536;
19:601; 117B1:7, 15; 5:127–128; 121A6:123;
8:199; 10:268; 125A10:204; 126A2:21
- Pliocene–Pleistocene interval, 107B43:705–708, 712;
108A(2)11:796–797; 108B4:57; 116B15:186;
138B12:252–255, 262–266, 270–273;
149B5:147–164; 151B30:493–514; 178B26:1–21
- Pliocene–Quaternary interval, 160B7:83–98; 8:99–
112; 12:161
- polar ordination analysis, 119B27:502, 504
- poor recovery, 101B3:69–70, 78
- preservation, 104A4:123; 5:474; 6:630–631;
104B26:465–467; 108A(1)1:22; 4:229; 5:336–
337; 6:418; 7:492; (2)8:562; 12:839; 114A5:103;
6:170; 7:272; 8:382; 9:495; 10:564; 11:644;
115B15:190, 192; 117A12:392, 394; 19:595;
121A12:375; 13:476; 121B5:143; 127/
128B(1)10:161–162; 129B9:198–200; 32:583;
138B35:725
- productivity curve, 107B32:516–517
- provincialism, 120B(1)21:361; 123A4:130;
123B39:740
- quantitative biostratigraphy, 108B2:12–14; 125B2:28–
35
- Quaternary, 101B3:79; 107B31:505, 510; 115B14:130–
132; 139B5:59–76; 144B1:3–20
- radiolarian-foraminifer correlation, 119B28:530
- range charts, 139A5:119; 170A3:64; 4:119–120;
5:166–167; 6:202; 7:230; 171B_B7:20–21;
180A5:119–120; 6:250–252; 8:129; 9:183–184;
12:183–184; 198B2:18
- recrystallization, 123B4:135
- redeposition, 115A8:597
- regional correlations, 113B23:334–335; 123B16:351
- relative abundance, 119B27:503
- response to orbital forcing, 108B8:131–132, 136–137
- reticulofenestrids, 107B32:525; 108A(1)4:230
- reworked taxa, 104B26:471; 105B16:249; 17:264;
107B1:23; 108A(2)11:796–797; 108B8:124–125;
112A14:380; 19:817; 114A8:378–380, 385;
9:492; 115A7:468; 9:665; 115B15:186;
117A12:394; 16:506; 19:600–601; 117B1:23;
2:40–41, 50; 5:128, 130; 119A7:244–245; 8:304;
119B26:477; 27:502; 121A7:175–176; 10:270;
123A4:122; 127A4:99; 5:194
- Santonian, 119B26:474
- Santonian/Coniacian boundary, 121B36:735
- sapropel layers, 107A8:427; 11:891
- scanning electron micrographs, 173B7:21–22
- sedimentation, 108A(1)3:122–123; 5:341; 6:421–422;
112A11:176; 116B15:187; 124A10:151–152;
11:235; 13:355; 127/128B(2)66:1043–1044;
154A8:391; 191A4:26
- sediments, 102A3:100; 133A(1)5:144, 146
- sequence stratigraphy, 133B25:359
- Serravallian/Tortonian boundary, 115B15:184
- shallow-water origin, 121A13:480
- Shannon-Weaver diversity values, 119B27:502, 504
- Shaw diagram, 115B15:212
- Site 501, 111A2:15–16
- Site 504, 111A1:15–16
- Site 637, 103A8:129, 132–133, 164–166; 103B38:694
- Site 638, 103A9:248, 290–294; 103B38:688–689
- Site 639, 103A10:428, 452–461; 103B11:191–192
- Site 640, 103A11:539–540, 548–549; 103B38:691
- Site 641, 103A12:583, 587, 603–605; 103B35:613;
38:690, 692
- Site 645, 105B27:486
- Site 646, 105A5:447–448
- Site 647, 105A6:701–702; 105B17:274; 120A3:57–59,
69; 5:83; 6:111–112, 150; 120B(1)1:21; 21:344;
(2)26:474; 28:510; 30:539
- Site 658, 108A(1)3:114–117; 108B2:40, 42, 43
- Site 659, 108A(2)14:230–231; 108B4:44–47; 8:142;
117A4:49
- Site 660, 108A(1)5:337–338; 108B4:42, 48
- Site 661, 108A(1)6:417–418; 108B4:49, 52
- Site 662, 108A(1)7:494–495; 108B4:49, 52
- Site 663, 108A(2)8:562–563; 108B4:52–53
- Site 664, 108A(2)9:624–627; 108B4:53–54
- Site 665, 108A(2)10:744; 108B4:55
- Site 666, 108B4:55, 60
- Site 667, 108A(2)12:841; 108B4:63
- Site 668, 108A(2)13:935; 108B4:60
- Site 671, 110A4:85–88; 110B9:130–133, 138; 27:412
- Site 672, 110A5:220–224; 110B9:133–134, 139;
27:413
- Site 673, 110A6:322–323; 110B4:138; 9:134; 27:412
- Site 674, 110A7:409, 411; 110B9:134–135, 138;
27:412
- Site 675, 110A8:492; 110B9:135, 139
- Site 676, 110A9:518–519; 110B9:135–136, 139;
27:413
- Site 677, 111A2:15–16; 4:259
- Site 678, 111A2:15–16
- Site 680, 112A12:262–263; 112B14:218
- Site 681, 112A13:315; 112B14:218–219
- Site 682, 112A14:380; 112B14:220–221
- Site 685, 112A17:617–618; 112B14:224–225
- Site 688, 112A20:899–900; 112B14:225–228
- Site 689, 113B51:906–908
- Site 690, 113B51:906–908
- Site 699, 114B8:183, 188

- Site 709, 115A7:465
 Site 713, 115A10:739
 Site 717, 116A4:52, 55–57
 Site 719, 116A6:164
 Site 720, 117B5:129–130
 Site 721, 117B5:130, 139
 Site 722, 117B5:130, 139
 Site 723, 117B5:130–131
 Site 724, 117B5:130–131
 Site 725, 117B5:130–131
 Site 726, 117B5:130–131
 Site 727, 117B5:130–131
 Site 728, 117B5:130–131
 Site 729, 117B5:130–131
 Site 730, 117B5:130–131
 Site 731, 117B5:130
 Site 744, 121B44:922
 Site 746, 119A15:542
 Site 748, 120A5:83; 7:190, 195; 120B(1)1:24; 21:347;
 (2)26:478; 28:511; 121B44:927
 Site 749, 120A8:252–253; 120B(2)26:482
 Site 750, 120A9:302–304; 120B(1)21:349; (2)54:963
 Site 751, 120A10:351–352; 120B(2)28:511
 Site 752, 121A6:123–127; 36:722
 Site 753, 121A7:175–176
 Site 754, 121A8:198–200
 Site 755, 121A9:242, 244–246
 Site 756, 121A10:268, 270
 Site 757, 121A11:315–318
 Site 758, 121A11:376–382
 Site 765, 123B1:8–9
 Site 786, 125B14:263
 Site 787, 126B16:248–249
 Site 790, 126B16:240
 Site 791, 126B16:241
 Site 792, 126B16:242, 250, 254–256
 Site 793, 126B16:252–253
 Site 794, 127A4:98–99; 127/128B(1)11:174–176;
 (2)77:1221
 Site 795, 127A5:193–195; 127/128B(1)11:176, 178
 Site 796, 127A6:273; 127/128B(1)11:176, 178
 Site 797, 127A7:351–355; 127/128B(1)11:177–179;
 (2)77:1223
 Site 798, 127/128B(1)10:155–161, 164–166;
 128A4:162–165
 Site 799, 127/128B(1)6:78; 10:155–163, 166;
 128A5:305–310
 Site 801, 129A3:113–116; 129B2:36
 Site 802, 129A4:195–198
 Site 803, 130A5:118–122
 Site 804, 130A6:188–190
 Site 806, 130A8:308–312
 Sites 112 and Site 647 correlation, 105B17:273–275
 Sites 642 and 643 vs. Site 644, 104B26:467
 Sites 642 and 644 vs. Site 643, 104B26:467
 Sites 643 and 644 vs. Site 642, 104B26:467
 slumped material, 108A(1)7:492; (2)9:625; 12:841
 Southern Hemisphere high-latitude affinity,
 121A13:482
 species, 105B17:279; 115B14:144–145, 168–171; 127/
 128B(1)10:164
 spectral analysis, 108B8:130–131, 139
 sphenoliths, 107B32:524, 526; 108A(1)4:230
 stable isotope correlation, 105B16:258
 stratigraphic distribution, 104B26:472–473;
 119B27:497–500; 171B_B7:16–17; 173A6:122;
 173B4:21, 23, 25, 28–34; 5:28–42; 7:17–18
 stratigraphic hiatuses, 112A16:543; 112B14:231;
 126A8:254; 126B16:247
 stratigraphic inversions, 115B15:188–189, 192, 196
 stratigraphic list, 160A5:102; 6:135; 7:177; 8:242;
 9:303; 10:356; 14:480; 160B8:102, 109
 stratigraphic range, 107A8:481; 145B2:28; 208A3:68–
 73; 4:76; 5:61; 6:94; 7:69; 8:67
 stratigraphic standards, 127/128B(1)10:162–164
 stratotype sections, 107B43:710–711
 strontium isotopes, 121B44:927, 929–930
 subtropical taxa, 108B4:62
 Sumisu Rift, 126B16:240–242
 summary, 104A4:122–123, 142–144; 5:474; 7:756–762
 surface water temperature, 127A6:273
 survivor forms, 121A14:519; 121B18:400, 406–408
 synsedimentary reworking, 126B16:241
 taxa list, 104B26:477–478; 111B23:284–285
 taxonomy, 115B16:238; 126B16:237, 239; 178B28:6
 temperate assemblages, 123A5:289
 temperature control, 117A19:602
 Tertiary species, 121A14:519; 121B18:400, 407
 Tethyan affinities, 123B1:41–42; 16:351, 357, 359;
 39:741, 743, 755–756
 Tithonian evolutionary radiation event, 123B1:40
 Tortonian/Messinian boundary, 107A10:769;
 107B31:495
 trace materials, 103A8:143
 tropical flora, 117A19:603
 tropical-subtropical species, 108B4:62
 Trujillo Basin, 112A16:542–543; 112B14:224
 turbidites, 117B5:130; 123B1:28–29; 5:114–115;
 135B52:835
 Turonian–Campanian interval, 121B5:154–156
 Turonian/Coniacian boundary, 121A9:244
 uplift and subaerial erosion dating, 121A13:476–477
 uplift history, 117A10:267
 upper Aptian, 129B7:170
 upper Cenozoic, 159B37:509–523; 206B2:1–25
 Upper Jurassic, 129B33:618
 upper Quaternary, 167B27:303–308
 uppermost Aptian–Cenomanian interval, 129B33:626
 upwelling, 117A3:40; 9:243; 117B1:22; 119A5:156
 Valanginian/Hauterivian boundary, 123A5:342
 volcanic ash layers, 121A18:396, 398–399; 121B5:145
 volcanoclastic biostratigraphy, 192A3:12
 vs. age, 195B3:26
 vs. depth, 135A(1)5:206; 144A11:428; 144B3:63–67,
 72; 150A8:219, 226; 150B7:119, 121;
 155A10:256; 162A5:153; 166B4:357; 178A5:58;
 202A6:39
 vs. lithology, 141A10:351
 water temperature, 119B26:472, 481; 120B(2)29:523
 winnowing effects, 117A14:452
 Yaquina Basin, 112A15:455–456; 112B11:221–224
 Zanclean, 160B9:113–123

- zonation, 103B19:279–281; 20:295–297; 104A4:122; 5:473–474; 6:630; 104B26:474; 105B16:246, 255; 20:335; 50:937–940; 107B32:513–515, 529; 108A(1)1:15–16, 19; 4:229, 230; 5:338; 6:417; 7:493–494, 562–563; (2)9:625–626; 10:748; 11:796; 12:839–840; 13:935; 108B4:37–40; 7:116; 111A4:260; 112B14:217; 113B30:468–471, 486; 32:520; 37:615–616; 38:642; 114A5:108, 121; 6:165; 7:270, 302; 8:382–383, 409; 9:493, 512; 10:560; 11:638–639, 685; 114B7:157–160, 164–171; 8:184–186; 115A2:28; 115B14:133; 116A4:56–57; 116B15:169–185; 117A8:164; 11:330; 12:396–397; 16:507; 117B1:7; 2:37–38; 118A1:20; 119B26:468; 27:500–502; 46:814, 816; 120B(2)57:1033; 121A2:43, 46–47; 6:123–125; 11:318, 376; 121B5:143–145, 149; 123A3:41; 123B16:357–360; 38:717–718; 125A2:25–28; 125B2:19–28; 3:46–53; 126A2:21; 127A1:20; 4:98–99; 5:193–195; 6:273; 7:351–355; 127/128B(1)11:172–174; 128A4:162–165; 5:305–310; 130B25:435–436; 131A6:125; 166A9:246; 178B28:15; 180A5:75; 7:18, 49; 9:31–32; 12:31; 182A5:35; 197A3:54; 4:44; 5:7–8, 38; 6:5–6; 197B4:9–10; 207A4:48; 5:45, 55–56; 6:52; 7:50; 8:49–50; 208A3:46; 4:49; 5:39; 6:57; 7:46; 8:46
- See also Amaurolithus* spp.; Arkhangelskiellaceae; asteroliths; Axopodorhabdaceae; Braarudosphaeraceae; ceratoliths; Chiastozygaceae; coccoliths; Cretarhabdaceae; discoasterids; gephyrocapsids; gephyrocapsids/total nannoflora ratio; helicoliths; helioliths; holococcolith type A; holococcoliths; Kamptneriaceae; lopadolith scyphospherids; nannofossil bioevents; nannoliths; nannofossils, calcareous, non-gephyrocapsids/total nannoflora ratio; placoliths; pontospherids; Prediscosphaeraceae; reticulofenestrids; Rhagodiscaceae; Sorolian coccolith stage; sphenoliths; “*Sphenolithus* problem;” Stephanolithiaceae; triquetrorhabdulids
- nannofossils, dwarf calcareous, Campanian, 144B7:141–156
- nannofossils + foraminifers, vs. depth, 138A(2)16:952
- nannoliths
 biostratigraphy, 207A6:15
 Campanian, 144B7:146
- naphthalenes
 gas chromatograph, 169A6:286
See also alkyl naphthalenes; methyl naphthalene
- naphthalenes, alkylated, sapropels, 160B23:288
- naphthenic envelope, Site 799, 127/128B(1)35:627–628
- Narizian, biostratigraphy, 197B2:4
- nassellarian/spumellarian ratio
 cores, 199B24:17
 vs. diatoms, 199B24:18
- nassellarians
 faunal provincialism, 123A4:130
 pyrite replacement, 103B32:554
 Quaternary, 134B14:316
 Site 647, 105B21:355–356, 359–363, 373–378
 vs. depth, 199B24:15
- native copper
 hydrothermal alteration, 192A3:31–32
 mineralization, 145B25:389–397
 pore water, 145A6:241–242
 vs. depth, 192A3:122
- native elements. *See* awaruite; copper; gold; kamacite
- natroalunite
 authigenic minerals, 144B51:900
 paleosols, 144B17:348; 19:392
 profiles, 144B51:910–911
- natrojarosite
 authigenic minerals, 144B51:900
 paleosols, 144B19:388, 392
 profiles, 144B51:910–911
- natrolite
 alteration, 120B(1)4:64, 66; 135A(1)11:596–597; 152B35:426; 157B26:436; 176B1:5; 183B15:7–8
 composition, 148B10:124
 fault planes, 180A6:41
 lava flows, 152A9:134–135
 occurrence, 152B34:418
 photomicrograph, 176B9:65–66
 secondary minerals, 148A3:141
 sediments, 194A9:17
 Site 779, 125B25:425
 strontium isotopes, 148B10:137
 veins, 148B35:443; 176B9:13; 192A4:18
 volcanoclastics, 197A3:19
- natural gamma activity. *See* gamma rays
- natural gamma ray emissions. *See* gamma rays
- natural gamma ray logs. *See* gamma ray logs
- natural gas, gas hydrates, 164A1:6
- natural remanent magnetization. *See* remanent magnetization, natural
- Navidrill coring system
 assembly, 118A2:34–35
 Atlantis II Fracture Zone, 118A1:6
 deck tests, 124E_A6:50
 deployment, 118A2:36–37
 flow rate, 118A2:34, 36, 38
 Mariana Basin E, 124E_A18:133
 mechanical design evaluation, 118A2:37–38
 summary, 124E_A6:51–54; 9:60–61
 systems, 124E_A1:5; 6:49–54
 testing, 118A2:35–36; 6:96
- navigation
 downhole seismic experiment, 127/128B(2)70:1107–1108
 Leg 101, 101A2:26–29
- NCB. *See* Navidrill coring system
- Nd-143/Nd-144. *See* neodymium-143/neodymium-144
- near porosity logs, vs. depth, 201A6:71; 10:61; 11:77
- near velocity logs, vs. depth, 207A4:69–70; 5:79–81
- nearshore environment
 lithofacies, 174AXS_A3:57–58
 lithology, 174AXS_A2:16, 23, 28; 3:18–19; 5:19; 6:20, 28–29
 paleoenvironment, 174AX_A1:18
- needles, scanning electron microscopy, 164B29:291
- Neel temperature, magnetic properties, 173B8:9
- negative polarity, frontal thrust, 190/196B15:1–16

negative sum error, models, 129B29:519–520
 nematodes, meiofaunal, Peru margin, 112B4:46
neo-hexane, gas hydrates, 164B3:30–35
neo-hopenes
 sediments, 167B12:188; 175B10:11
 vs. depth, 167B12:191; 190/196B14:7, 10
neo-pentane
 gas hydrates, 164B3:30–35
 Site 799, 128A5:321–322
 neoblasts
 amphibolites, 173A6:139; 7:190–191
 basement, 173A1:13
 clasts, 173A4:199–201
 composition, 149B28:491
 deformation, 179A4:53–54; 209A5:26; 9:12
 gabbros, 153B9:159–161; 176B11:23
 harzburgites, 209A3:6
 lithology, 179A2:5
 metasediments, 173A8:246–247
 metatonalite clasts, 173A7:191
 photograph, 149B26:462; 153A4:129, 137, 156, 160,
 166–167; 5:201, 203; 153B6:119; 8:148–149;
 29:520
 photomicrograph, 173A7:191, 201; 179A4:132, 137,
 141, 143, 145; 179B2:27; 209A1:99–100, 114–
 115; 3:67, 100; 5:63–64, 90, 113, 117, 121; 6:72,
 74; 7:54, 82; 9:57, 70–71
 porphyroclastic textures, 179A4:53
 recrystallization, 153B6:101–105
 size variation, 153B8:146–148
 textures, 179B(synthesis):41
 tonalite gneiss, 173A6:131, 141
 veins, 176B9:17–19
 neoblasts, twinned, photograph, 153A4:128
 Neocomian
 calcareous nannofossils, 198A9:20
 geologic history, 207A1:4
 reference section, 198A1:49–50; 9:5
 sediments, 129B3:90
 neocrystallization, magnetic susceptibility, 156B6:103–
 104
 neodymium
 alteration, 187B1:8
 anhydrite, 158B12:150–152
 basalts, 120B(1)3:57; 141B27:339; 192B1:5
 basement, 121A15:527; 127/128B(2)49:807
 bulk sediments, 199B14:4
 diabases, 153B19:364–365
 ferrobasalts, 121A15:526
 geochemistry, 195B1:11
 Kerguelen Plateau, 120B(1)2:39
 lava, 121B31:600–602; 206B1:7
 metasedimentary rocks, 152B10:136
 Paleocene/Eocene boundary, 199B16:3
 peridotites, 153B14:291
 Rajmahal Volcanic Formation, 120B(1)2:42
 schists, 195B4:9
 sediments, 180B6:5, 7, 11
 Site 798, 127/128B(2)86:1370–1371
 submarine ferromanganese hardgrounds, 194B8:5–6,
 22

Sulu Sea, 124B19:259
 volcanic ash, 127/128B(2)87:1386
 vs. cerium, 144B44:758
 vs. depth, 131B28:350, 356; 147B1:13; 152B40:489;
 171B_B4:10
 vs. distance, 187B3:17–18, 21
 vs. erbium, 144B44:758
 vs. europium number, 147B1:14
 vs. lanthanum, 144B44:758; 161B27:366
 vs. lead isotopes, 192B1:16
 vs. magnesium number, 147B1:10
 vs. magnesium oxide, 135B26:478
 vs. manganese, 199B14:16
 vs. phosphorus, 199B14:16
 vs. strontium, 127/128B(2)57:902
 vs. strontium isotopes, 142B2:14; 152B40:490–491;
 187B3:19, 22
 vs. titanium, 127/128B(2)57:902
 vs. titanium oxide, 191B4:18
 vs. ytterbium, 195B4:34
 vs. zirconium/niobium ratio, 152B40:492
See also lead/neodymium ratio; neodymium-143/neo-
 dymium-144 ratio; neodymium isotopes; phos-
 phorus/neodymium ratio; samarium/
 neodymium isochron; strontium/neodymium
 ratio; tantalum/neodymium ratio; thorium/
 neodymium ratio; zirconium/neodymium ratio
 neodymium-143/neodymium-144 ratio
 along-axis profiles, 187A1:20
 basalts, 129B21:405–413; 130B1:10–20; 131B16:205–
 206
 vs. samarium-147/neodymium-144 ratio, 155B8:173
 vs. samarium-147/samarium-144 ratio, 187B3:20
 vs. strontium-87/strontium-86 ratio, 135B26:478;
 28:509; 29:528; 183A1:59; 183B1:45
 neodymium/aluminum oxide ratio, vs. depth,
 131B35:447
 neodymium isotopes
 along-axis profiles, 187A1:20
 alteration, 125B13:246–248; 136B10:125–127;
 187B1:8
 arc vs. rift rocks, 126B26:398
 basalts, 115B5:56; 119B15:294–295, 297–298;
 121B30:568–569, 571–573, 581; 127/
 128B(2)57:901–903; 135B26:471–485; 28:505–
 517; 136B9:110, 112–114; 142B2:11–12;
 163B8:77–93; 10:113–117; 183A8:19; 183B1:10–
 14, 26; 191B3:1–11
 basement, 126B27:421–422, 426–427; 127/
 128B(2)47:786–787; 49:807; 56:893
 boninite, 125B38:633
 covariation, 125B13:247–250, 253–255, 260
 Cretaceous, 198B1:39
 crustal contamination, 127/128B(2)49:809
 diabases, 153B19:365, 367, 376
 dropstones, 145B12:200
 gabbros, 118B6:129–133; 147B1:8–9, 14; 149B27:474–
 475, 484–485; 153B6:109, 113, 115; 18:355–
 358; 27:471–490
 glass shards, 126B30:461
 guyots, 144B31:535–545

- igneous rocks, 129B35:653–669; 205B1:11; 9:8–9
Izu-Bonin forearc, 125B13:247–250, 252–253
Kerguelen Plateau, 121A1:14
lava, 121B31:593, 596, 600–602; 183A1:7–8
lithology, 123B42:794, 798
mantle, 127/128B(2)57:903; 187B1:12; 3:1–24
metalliferous sediments, 205B1:17–18
mid-ocean-ridge basalts, 125B13:254; 187A1:3–5
minerals in gabbro, 153B15:316
mud provenance, 155B8:169–176
Ninetyeast Ridge, 121A1:14; 15:526; 121B30:580;
32:639
ocean–continent transition, 149B47:722
Paleogene, 198B1:41
plutonic rocks, 153B15:308–312
relative stratigraphic position, 152B20:354; 40:489
Réunion mantle plume eruption age, 115B5:59
secular variations, 127/128B(2)57:899
sills, 198B1:4, 36
Site 794, 127/128B(2)83:1339–1340
Site 795, 127/128B(2)83:1338–1340
Site 797, 127/128B(2)83:1339–1340
submarine ferromanganese hardgrounds, 194B8:5
volcanic rocks, 126B26:391, 396; 134B17:355; 19:383;
20:401; 135B38:635; 141B27:341
volcaniclastics, 192B1:8
volcanism, 197B1:16
vs. age, 208B1:52
vs. depth, 191B3:7; 194B8:16
vs. hafnium isotopes, 187B1:34
vs. lanthanum/samarium ratio, 127/128B(2)49:811
vs. lead isotopes, 118B6:138; 121B30:578, 581; 127/
128B(2)49:810, 813; 187B1:33; 192A1:41
vs. samarium/neodymium ratio, 136B10:122
vs. silica, 152B29:355
vs. strontium isotopes, 118B6:136, 140; 121B30:578;
31:603; 127/128B(2)49:809, 812; 136B9:114;
141B27:340; 145B23:376; 149B27:484;
153B15:311; 16:326; 18:358; 19:368; 163B8:83,
87; 9:110; 187B1:29; 191B1:5–6, 17; 3:9;
205B9:29
vs. zirconium, 152B29:356
websterite, 153B16:325
See also neodymium-143/neodymium-144 ratio; stron-
tium-neodymium isotope covariation
neodymium isotopes (clinopyroxene), vs. neodymium
isotopes (plagioclase), 153B15:312
neodymium isotopes (plagioclase), vs. neodymium iso-
topes (clinopyroxene), 153B15:312
neodymium/lead isotope ratio, Ninetyeast Ridge and
Kerguelen Plateau comparison, 121B31:599
neodymium/samarium ratio
carbonate content, 123B8:185
Ninetyeast Ridge, 121B32:639
Site 758 vs. Kerguelen lava ratios, 121B32:642
vs. depth, 187B3:7
vs. magnesium number, 147B1:12
vs. tantalum/neodymium ratio, 161B27:369
volcanic glass, 187B3:5
neodymium/ytterbium ratio
anhydrite, 158B12:153
clay minerals, 169B6:6, 24
vs. depth, 158B12:156
neof ormation
chlorite-mica stack thermal history, 159B10:97
smectite, 159B43:599
Neogene
age vs. depth, 183B9:41; 189B10:29, 32, 35, 38;
198A3:85; 4:57; 5:59; 6:51; 7:47; 8:44; 9:74;
198B2:16
alkenone stratigraphy, 184B17:1–17
Antarctic Circumpolar Current, 177B(synthesis):19–
23
arc and forearc evolution, 180A3:4–5
astronomically calibrated chronostratigraphy,
202B4:1–69
benthic foraminifers, 138B32:665–673; 149B9:217–
239; 198A3:23–24, 124; 4:20–21; 5:21; 6:18;
7:18; 8:16; 9:22; 10:11
biogenic sedimentation, 138B19:429–459
biomarkers, 202B1:3–4
biostratigraphy, 130A10:510; 130B1:3–37; 4:51–66;
10:119–120; 55:787–790; 133A(1)6:185–187;
7:210–213; 10:364–368; 11:427–428; 16:703–
705; 138A(1)10:208–216; 138B7:105–128;
23:517–536; 144A3:55–64; 150X_A1:24–25;
151B4:61–74; 164B33:331–341; 165A3:62–65;
6:342; 165B1:3–17; 2:19–56; 166B1:3–12;
167B32:364–376; 172A7:319–321; 177A1:13,
22–23; 178B13:10; 182A1:10–12; 182B3:1–67;
189A3:22; 7:22–23; 191A4:16–20; 200B4:1–9;
202A7:11–15; 8:14–20; 9:12–17; 13:10–12
calcareous nannofossils, 130B11:179–229;
145B39:599–632; 165A6:309–310; 186B4:1–31;
198A3:18–19; 4:17; 5:16–17; 6:14; 7:13–14;
8:13; 9:19; 198B2:1–44
carbonates, 133A(1)10:383–386; 175A17:512–513
Caribbean Current, 165A1:9
chalk, 181B1:57
chemobiostratigraphy, 130B16:281–305
chronostratigraphy, 178B36:21; 201B16:11
clays, 152B4:46–48; 182A6:10
climate change, 202A1:26–30
clinoforms, 182A1:19–22, 25–28, 30–33
complete section, 130A10:532
convergent margins, 186A1:4–5
correlation, 130A2:28; 182B3:39
cyclic sedimentation, 198A1:74–75
deformation, 134A4:51–52
deposition, 150B14:269–281; 152B3:29–38; 166A3:35
depth transect, 130A10:508–512
diagenetic dolomite, 201B13:5–6
diatoms, 146B(1)4:63–77; 150X_B13:161–165;
164B35:365–376; 167B3:63–110; 178B29:1–25;
35:1–57; 181A7:21–22; 183B9:1–53; 184B6:1–9;
186A1:13; 186B2:31; 198A1:17–19
dinocysts, 133B8:97–105; 151B13:246–248; 189A3:32;
189B5:1–98
discoasters, 130B11:223–224
drift deposits, 145B43:657–660
extensional basins, 161A1:8–9; 161B44:559

- foraminifers, 130B12:233–234; 144B20:401–410;
146B(1)5:79–113; 150B1:3–15; 162B2:19–34;
186B7:1–23; 188A4:19–20; 188B4:1–41
- forearcs, 180B(synthesis):4
- fragmentation index, 181B1:96
- gateways, 189B1:15–19
- geochronostratigraphy, 182B3:30
- geology, 157A1:5–10
- geomagnetic polarity timescale, 190A4:14
- glaciation, 178B25:1–25
- hiatuses, 130B25:429–430
- history, 189A1:12–13, 59–60
- hydrothermal activity, 138B37:774–777
- ichnofacies, 138B10:177–190
- inorganic geochemistry, 181B9:1–10
- island arcs, 134B2:24–31
- lithology, 129B14:269; 138B44:860–870;
150X_B2:21–22; 161A6:190; 182A1:9–10;
183A1:30; 189A7:61; 198A3:12–13; 199A14:6;
15:4
- low-latitude stable isotopic signals, 166A2:20
- lysocline positions, 130B3:49
- magnetic polarity, 132B4:47–55; 198B22:1–39
- magnetostratigraphy, 162B9:131–151; 167B28:311–
318; 170B2:9
- mass accumulation rates, 144B54:953–971;
163B14:157–166; 164A9:313–314; 165A3:69–
71; 198A3:87
- monsoon systems, 184A1:12
- nannofossils, 159B18:184–185; 181A8:13–14;
189B10:3; 190A5:15; 206A1:64
- oldest magnetic polarity chron, 198B22:27
- Ontong Java Plateau, 130A1:8–9
- ooze, 132B6:69–79
- opal deposition, 145B38:589–590; 178B23:1–33
- organic matter, 157B21:361–372
- ostracodes, 159B38:525–531
- paleobathymetry, 133B6:75–92
- paleoceanography, 133B19:263–280; 138A(1)12:372–
374; 138B1:5–21; 151B32:569–582; 36:657;
154B6:239–253; 157B7:73–82; 159A9:309–313;
159B37:520; 161B29:387–388; 164B34:343–363;
167B32:342–343, 368–373; 172A1:9; 183A3:6–7;
184A1:7; 188B1:13; 198A1:24–25; 4:3;
198B1:13–18; 202B1:3–4; 208A1:10–11
- paleoclimatology, 138B1:16–19; 154B8:341–345;
161B16:223–237; 167B20:239–245; 175A1:8;
17:518; 177A6:12; 177B(synthesis):5–23;
198B1:13–18
- paleoenvironment, 181A7:25–26; 8:21–22; 9:15–16
- paleogeography, 170B7:3–5
- paleomagnetism, 152B22:265–269
- palynomorphs, 133B10:115–125; 188B1:11; 2:1–20
- pelagic sedimentation, 138B29:627–639; 165A8:378–
380
- planktonic foraminifers, 130A9:402–430;
130B10:137–178; 165A6:311–312; 182B3:1–67;
183A6:17–19; 7:12; 8:9–10; 8:10–12; 198A3:20–
21; 4:19; 5:17–18; 6:15; 7:15; 8:14; 9:20
- plate tectonics, 134A1:9–11; 2:19–46; 138A(1)1:7–9;
160A1:7; 160B52:706; 186B1:1–27
- platforms, 166A6:108–109
- pollen, 174AXS_A6:56–57
- radiolarians, 138B20:461–478; 146B(1)3:47–62;
178B33:1–14; 189A7:30; 199B3:13–17
- rare earths, 167B19:235–238
- reticulofenestrids, 130B11:229
- sea level changes, 166A1:7; 166B16:167–177
- sea-surface temperature, 162B12:179–190
- sedimentary record, 167B32:341–376
- sedimentary regimes, 138A(1)10:207–208; 195B3:8–
10
- sedimentation, 130A7:270; 130B44:711–744;
133A(1)8:292–293; 145B20:293–314;
167A(1)16:479; 181B1:96; 3:1–21; 189B10:9–10,
12–13, 15–16, 18–20; 207A1:44
- sediments, 130B34:573–584; 161B5:69–76;
167B32:363–372; 184A1:24–25; 191B1:2–19
- seismic horizons, 199A4:19
- seismic units, 188B8:7–10
- sequence stratigraphy, 174AXS_A7:29–30; 182B3:41
- silicoflagellates, 181A7:21–22
- stable isotope stratigraphy, 184B3:3; 4:1–8; 5:1–12
- standard sections, 181A1:26
- stratigraphy, 130A8:339–347; 130B35:587–606;
174AX_A1:5; 174AXS_A1:2; 182A1:28;
183B9:36; 201B16:1–19
- strontium isotopes, 144B21:411–417
- submarine canyons, 150B15:287–292
- subsidence, 160B38:500, 512
- surface water circulation, 138B22:503–514
- tectonics, 149B1:14; 160B54:750; 161B26:345–355;
202A1:7
- terrains, 161B44:557
- terrigenous component, 185A4:18–19
- turbidites, 157B38:619–634; 166B5:48
- unique section, 198A3:2–4
- uplifts, 202B1:16
- volcanic ash, 145B44:661–669
- volcanism, 143A1:7–8; 181A1:27–31
- warm periods, 188B1:13
- zonation, 180B11:11–12
- See also* Cenozoic; Cretaceous–Neogene interval; Ho-
locene; Paleogene/Neogene boundary; Pleisto-
cene; Pliocene; Pliocene/Pleistocene boundary;
Pliocene–Holocene interval; Quaternary
- Neogene, lower, interval, 133A(1)4:118
- Neogene, upper
- biogenic opal, 167B16:213–214
- biostratigraphy, 133B18:255–261; 47:697–704;
135B54:857–877; 144B3:61–85; 167B2:41–62;
186B2:1–38
- carbonates, 138B14:321–336
- geochemistry, 152B2:25
- lithology, 207A4:5
- new timescale, 138B6:73–101
- paleoceanography, 151B27:455–468
- photograph, 208A4:42
- sediment sources, 181B1:51–54
- sedimentation, 138B35:717–756; 152B1:3–18;
175A17:519
- sediments, 133A(1)4:114–119

- shelf progradation, 188A1:4–5
- stratigraphy, 174AXS_A2:4
- volcanism, 181B1:23–26
- Neogene–Cretaceous interval, 121A9:237
- Neogene/Paleogene boundary, unconformities, 165A6:342
- Neogene–Quaternary interval, 198A1:55
- neogenesis, carbonates, 114B37:692–695
- Neoglacial
 - Antarctic Circumpolar Current, 178B34:7
 - bioturbated diatom sandy mud, 178B34:4
 - paleoenvironment, 178B34:6–8
- neoglaciation, ice sheets, 177B(synthesis):14
- Neogloboquadrina pachyderma*
 - carbon and oxygen isotopes, 177B9:25–26
 - coiling, 167A(1)6:136; 8:187; 10:249; 11:294; 12:323; 13:361
 - correlation coefficients, 162B13:193
 - oxygen isotopes, 177B12:13–15, 17–19
 - stable isotopes, 178B20:1–10; 188B16:1–11
 - vs. sea-surface temperature, 161B35:447
- neogloboquadrinids
 - Pacific Ocean, 138B25:572
 - vs. depth, 164B34:354
- neomorphism
 - alteration, 166A3:34
 - carbonates, 144B23:435
 - cements, 144B46:811
 - diagenesis, 144B46:791, 795–797
 - strontium isotopes, 144B25:454
- neon
 - pore water, 141B26:321–329; 156B25:318
 - Sulu Sea, 124A11:264
 - vs. xenon, 164B16:168
 - See also* helium/neon ratio
- neon isotopes, sulfides, 139B19:388
- neon isotopes/helium isotopes ratio, vs. helium isotopes, 139B19:392
- neotectonics
 - green clay, 184B15:16
 - maps, 149B1:5
 - Pliocene–Quaternary interval, 160A5:88
 - Quaternary, 134A3:33–42
- Neotethyan allochthonous units, tectonics, 160B54:762
- Neotethys
 - Late Triassic, 160B54:725
 - models, 160B54:763–776
 - south margin, 160B54:728–766
 - subduction, 160B52:705–706; 53:713; 54:759
- Neothyris*, lithology, 181A3:5
- neovolcanic zones
 - hydrothermal fields, 158A2:16–18
 - lithology, 193A1:4
- nepheline, Gortani Ridge, 107B4:58
- nephelinite
 - guyots, 144A3:86
 - petrology, 144B29:496
- nepheloid layer
 - Galicia margin W, 103A8:129
 - sediment drifts, 162A1:13–14
 - sedimentation, 131B28:350
- Neptunian dikes
 - deformation, 160A8:239
 - lithology, 182A10:10
 - photograph, 160A8:248; 182A10:43
- NEREID system
 - borehole geophysical observatories, 186A1:9–15; 191A3:2–3, 23, 50–51; 4:159
 - boreholes, 186A3:2–3, 23–25
 - operation, 186A3:19–20
- Nereites*, lithology, 178A4:6, 9; 5:6–7
- nerineids, photograph, 144A10:355; 144B16:332
- neritic biotopes
 - benthic foraminifers, 149B8:204–205; 150X_B19:269–270
 - See also* paralic biotopes
- neritic environment
 - biofacies, 150X_B14:177–180; 15:198–202
 - biostratigraphy, 133B4:52–58; 146B(1)5:93; 166B5:56; 172B8:5–6; 182A8:17–18; 188A3:29–30; 189A7:35; 189B10:4; 194A4:15–17; 5:12; 8:12; 198B7:12–13, 53
 - Cenozoic, 194A3:7–11
 - classification, 121A2:41
 - deposition, 166A9:242–243; 182B4:10; 194B2:5
 - lithology, 150X_B2:16; 166A6:83–84; 171B_A6:259–262; 174AXS_A1:28; 3:33–34, 39–42; 4:14–15; 5:24–25, 30, 45; 6:22–48; 183A6:10; 189A7:18–19; 194A4:11; 6:6; 7:10–11, 15; 8:7–9; 9:4–8
 - lower–middle Eocene, 189B1:10
 - paleoenvironment, 174AX_A1:20–21, 29–35
 - photograph, 174AXS_A6:74–80
 - photomicrograph, 194A8:42
 - sedimentary succession, 166A10:304–305
 - sediments, 183A1:37
 - Site 748, 120B(1)20:313
 - Tertiary, 133B20:287–288
 - See also* paleoenvironment; sedimentation
- neritic facies, lithology, 183A7:8
- neritic sedimentation. *See* sedimentation, neritic
- nesquehonite, alkalinity, 127/128B(1)6:92
- neutron absorption cross section
 - basalts, 148B30:389–394
 - lithology, 149B37:595–599
- neutron activation analysis
 - basalts, 142B12:87–89
 - basement, 127/128B(2)58:912–916
 - massive sulfides, 139B17:361
 - Site 794, 127/128B(2)58:912–913
 - Site 795, 127/128B(2)58:913–914
 - Site 797, 127/128B(2)58:914–916
 - spinel, 163B11:134
 - terrigenous component, 154B31:466
 - volcanic rocks, 152B28:334
- neutron capture cross section, chloride, 178A5:28
- neutron capture cross section logs, 145A5:186; 6:280; 157A9:474; 10:541
- neutron litho-density porosity, 180B25:110
- neutron porosity from core logs, 204A4:90
- neutron porosity logs
 - basalts, 144A9:319
 - Cascadia accretionary prism, 146B(1)20:321–322

- Celebes Sea, 124A10:174–177; 13:374–375, 379–381
correlation, 181A7:46
data, 102B3:34–39; 4:50; 123A4:219, 222; 5:336;
123B6:89; 33:603–604
factor logs, 171A_A3:22, 26
geochemical logs, 138B44:870
lithology, 173A3:51–61
logging-while-drilling, 204A3:38–39, 90–93, 99; 6:64;
9:70, 74; 10:85
measurements, 193A3:93–94; 4:61
oceanic crust, 144B39:654–655
porosity, 164B19:186; 196A3:26, 69
sediments, 164A6:139–140; 7:210
Site 838, 135A(1)8:384
Site 839, 135A(1)9:464
Site 840, 135A(1)10:551–552
Site 841, 135A(1)11:658
Sulu Sea, 124A11:269–273
vs. bulk density logs, 203A3:70
vs. chlorine yield, 138A(2)17:1015
vs. compressional wave velocity logs, 203A3:70
vs. density porosity, 144B39:655; 181A9:57
vs. depth, 141A10:419; 144B40:666; 145A5:185;
6:280; 146A(1)4:107; 5:207, 210–211; 6:280–
281; 7:365; 150A6:111; 7:183–184; 8:240, 295;
10:337; 151A6:148; 160A6:146–147; 7:203–205;
8:208–210, 267–269; 9:325–326; 12:447;
161B24:322; 168A6:205–206; 170A3:85; 4:143;
171A_A3:25; 4:44; 5:65; 6:83; 7:99;
174A_A5:186; 180A1:70; 8:101–102, 105;
9:135–138, 141; 12:137–141; 181A7:108;
183A5:159, 162; 8:92; 189A3:114; 5:109; 6:121;
7:100; 193A3:256; 4:217; 194A5:76, 80; 6:64;
7:111–112; 9:53; 196A3:69; 200A1:57; 4:149,
153; 200B1:30–31; 7:11; 203A1:27; 3:69, 73;
204A4:90; 5:52; 6:62, 67; 7:59; 8:73; 9:68, 70,
74; 10:83, 88; 11:48, 51; 205A1:55–56; 4:71–73,
162
vs. depth and noncarbonate, 138A(2)17:1013
vs. hydrogen yield, 138A(2)17:1015
vs. iron yield, 138A(2)17:1015
vs. silicon yield, 138A(2)17:1015
vs. velocity, 146A(1)5:210; 178B19:29
See also epithermal neutron porosity logs; thermal
neutron porosity logs
neutron porosity logs, compensated, 144B18:364
neutron porosity wire logs, vs. depth, 204A4:92; 6:64;
9:70; 10:85
neutrons capture rate logs, vs. depth, 180A6:186–189;
8:101–102; 9:135–138; 12:137–141
Nevianipora spp.
calcite, 182B13:6–10
lithology, 182A6:5
scanning electron photomicrograph, 182B13:18–19
NGT. *See* gamma rays
NH4 hiatus, carbonate dissolution, 138B35:732
nickel
alteration, 187B5:9
Atlantis Bank, 118B6:136
basalts, 123A4:195–199; 130B1:7–10, 14–20;
134A9:199–200; 139A5:137–138; 145A5:136,
138; 163B7:70; 180A12:27; 183A5:34;
187A3:10; 6:10–11; 7:11; 8:11; 9:8; 10:5; 15:11;
191A4:32; 192A7:8
basement, 183A6:48; 8:18; 9:28
bronzite andesite, 125B38:632
calcite, 168B10:126
carbonates, 168B11:139, 141
chromium-magnesium oxide relationship, 126A9:370
clasts, 173A7:195; 195B4:8
clay geochemistry, 184B12:10
cooling units, 129B19:366
Cretaceous/Tertiary boundary, 207B1:23
cyclical variations, 118B1:5
depletion in vesicles, 135B37:615
detrital component, 167B23:267–270
diabase and basalt, 209A7:23
diabases, 137/140B9:108, 200; 153B10:223; 19:364–
365, 372; 180A6:36
distribution in massive sulfides, 158B28:405
ferromanganese crusts, 144B44:751–753
ferromanganese micronodules, 199B14:4–6
fine-grained sediments, 210B8:14
fractionation index, 129B19:383
gabbros, 153B18:352–355; 176A3:53; 176B(synthe-
sis):43; 3:3; 6:19; 8:3–14; 12:5; 179A4:45–47;
179B(synthesis):17; 205A4:34–35; 209A3:35–36;
6:30; 10:24–25
geochemistry, 126B32:489; 147A4:144
green clay, 184B15:6–7
hyaloclastite, 206A3:70
hydrothermal alteration, 147B26:450; 206A3:71
hydrothermal deposits, 135B5:77–82
igneous rocks, 135A(1)8:370–372; 163X_A6:22–23;
209A5:36–37; 10:26
isotopic fractionation, 119A4:115, 117
jasperoids, 193B9:6
lava flows, 134A10:277–278; 152A9:135–137;
163A3:28; 4:39–40; 5:59–60, 64; 183A1:14, 34;
197A3:22–24
lithology, 170A3:57; 183A1:22, 33; 207B8:10;
210A3:29, 54
manganese nodules, 138B40:808
mass balance, 169A3:98
metadiabase, 180A8:18
metalliferous sediments, 138B37:771, 774
metasedimentary rocks, 152B10:136
microorganisms, 168B14:171
mineralogy, 158B2:30, 37, 39; 179B2:10
mobility, 183B15:9–10
olivines, 152B33:406; 176B10:14
Paleocene/Eocene boundary, 199B16:3
pentlandite vs. depth, 176B7:19
peridotites, 209A3:34; 6:29; 9:18–19
pore water, 116B13:146, 152; 193B4:4–5
postoxic conditions, 157B32:567–569
protolith percent change, 137/140B17:203
Prydz Bay, 119A4:114–115
pyrrhotite vs. depth, 176B7:18
quartz gabbros, 180A11:6

- sediments, 167B23:265; 170A3:77; 4:137–141; 6:206;
171B_B4:4–5; 178A4:23; 180B6:5–6, 8–10, 13,
15–24; 7:5, 21; 205A6:10
- serpentinites, 125B18:336, 340; 149A4:81;
149B30:523–524; 195A3:20; 195B4:7
- shore-based flux vs. shore-based microwave acid di-
gestion, 206B3:12–13
- Site 744, 119A4:114–115
- Site 779, 125A7:122–123
- Site 780, 125A8:155
- Site 783, 125A11:258
- Site 784, 125A12:280
- stratigraphy, 163X_A8:12, 34
- submarine ferromanganese hardgrounds, 194B8:5–6,
22
- sulfides, 118B5:115, 119–120, 123; 121B32:629;
158B3:44; 176B7:5–9; 209B3:4
- Sulu Sea, 124A11:265
- tholeiitic basalts, 183A8:19
- troctolites, 209A10:23
- turbidites, 123A4:161; 135B10:155–158
- Turonian–uppermost Santonian, 210B8:9
- upper Paleocene–middle Eocene, 210B8:12
- variations in lava, 163X_A6:43
- veins, 176B9:16
- volcanic ash, 121A13:474; 165A3:82
- volcanic rocks, 135B30:533–542; 183B17:2
- vs. alteration percentage, 137/140B9:109; 148A2:62
- vs. aluminum oxide, 209A5:153
- vs. calcium carbonate, 149B30:524
- vs. calcium oxide/aluminum oxide ratio, 205A4:117
- vs. chromium, 140A2:92; 141B28:358; 149A4:82;
180B6:12, 14, 35, 37; 195B4:22
- vs. chromium/nickel ratio, 153A4:148; 5:195; 6:240
- vs. clinopyroxene number, 176B8:25
- vs. copper, 176B7:22; 180B6:15, 39
- vs. depth, 135B7:114, 116; 137/140B7:91; 139A6:224,
226; 139B11:230–250; 49:749–750, 755;
140A2:89; 147B26:448; 148A2:61–62; 3:158;
148B2:15, 19; 4:48; 10:137; 149B30:524;
152A9:126; 153A3:78; 160B16:201; 164B15:158;
170A3:81–82; 171B_B4:10; 176B(synthesis):58–
59, 64–66; 3:9; 6:50; 7:21; 8:12–13, 27, 29–30;
179A4:125; 180A6:132; 183A1:81; 6:135; 8:66;
9:93; 192A5:74; 199B15:6; 16:6; 200B2:14;
206A1:84; 3:197; 210B8:52
- vs. iron oxide/magnesium oxide ratio, 121B30:567–
568, 571; 180A12:95; 200B2:16
- vs. lanthanum/ytterbium ratio, 137/140B9:115;
153B10:232
- vs. loss on ignition, 148B10:140; 153A3:72
- vs. magnesium/(magnesium + iron) ratio,
144B28:481, 484
- vs. magnesium number, 147B1:10; 148A2:59; 3:156;
153A4:147; 5:194; 6:239; 153B18:354;
173A6:140; 7:198; 176B8:25; 209A1:111, 133;
7:95; 10:117
- vs. magnesium oxide, 121A12:402; 121B32:621, 629;
131A6:198; 135B24:412; 29:523; 153A3:78;
153B19:366; 163X_A8:32; 176A3:49, 168;
180B6:14–16, 37, 39; 183A4:57; 5:118;
- 187A3:25; 4:18; 5:18; 6:37; 7:34; 8:52; 9:22;
10:25; 11:36; 12:42; 13:42; 14:29; 15:43;
200B2:11; 206A1:89; 3:200
- vs. magnesium oxide/(magnesium oxide + iron oxide)
ratio, 141B28:360
- vs. niobium/zirconium ratio, 183A9:96
- vs. platinum + palladium series, 147B4:85–86
- vs. scandium, 176B3:11
- vs. silica, 134B19:385; 151B19:360
- vs. strontium, 152A9:139; 163A5:62
- vs. sulfur, 165B19:290–291; 209B2:9
- vs. titanium, 134A9:201
- vs. titanium oxide, 152A9:137; 176B12:10
- vs. vanadium, 141B28:358
- vs. water content, 148A2:62; 3:160; 158B19:265
- vs. zirconium, 121B30:574; 129B18:357; 135B25:452;
137/140B7:89; 140A2:92; 153B19:373;
157A7:363; 8:418; 157B12:169, 171; 13:192;
163A5:62; 183A1:94; 9:95
- vs. zirconium/yttrium ratio, 143B16:274
- xenoliths, 193B6:3
- See also* chromium/nickel ratio; cobalt/nickel ratio;
cobalt-nickel-copper diagram; (copper + cobalt
+ nickel)-iron-manganese system; iron-nickel-
sulfur-oxygen system; zinc-copper-nickel-co-
balt-chromium diagram
- nickel, whole-rock, vs. whole-rock magnesium number,
179B(synthesis):78
- nickel/aluminum ratio
- biological productivity, 117B24:434–435
- lithology, 207B8:25
- oceanic anoxic events, 210A3:98
- organic matter complexation, 117B24:432
- vs. age, 181B9:5; 184B12:24
- vs. depth, 131B35:444; 157B32:568; 160B17:210, 212;
171B_B4:12; 210A3:280
- nickel/magnesium oxide ratio
- alteration, 131A6:157
- lava, 121B32:628
- nickel/manganese ratio, bulk sediments, 199B14:4, 15
- nickel ores. *See* garnierite
- nickel oxide
- altered glass, 168B10:128
- magmas, 187B2:7–9
- olivines, 118B3:56; 135B27:495; 153B27:482–483;
187B2:3, 6–7
- vs. across-channel distance, 153B12:272
- vs. chromium oxide, 209B2:6, 8
- vs. depth, 149B23:422–423; 179B(synthesis):93
- vs. forsterite, 153B12:269, 273; 17:338; 176B10:40;
179B(synthesis):83
- vs. magnesium number, 153B11:259; 179B(synthe-
sis):93; 187B2:17–18, 21
- nickel oxide/magnesium number ratio, 153B11:255
- nickel/titanium oxide ratio, 125B24:409
- nickel/titanium ratio, vs. zirconium/titanium ratio,
167B23:269
- nickel/zirconium ratio
- basement, 126B27:416
- inverse correlation, 121A13:474

- niobium
- alteration, 183B15:5, 14
 - amphibolites, 173A6:133
 - andesites, 135A(1)7:323
 - basalts, 120B(1)3:56; 121A11:330; 12:400, 402; 15:526; 130B1:7–20; 134A9:200–201; 145A6:220; 163B8:82–85; 183A5:35–37; 183B1:9; 185A4:24; 210B9:16
 - basement, 128A3:99; 183A7:132; 8:18; 9:27–28; 200B2:3
 - depletion, 135B3:39–40; 24:394–399; 52:839–841; 147B9:184
 - detrital component, 167B23:266–270
 - diabases, 180B1:4
 - felsic rocks, 183A5:36–37; 7:41
 - gabbros, 153B28:496; 176A3:50; 176B6:16; 8:4–14; 179A2:5; 4:45–47
 - geochemistry, 129B5:143; 187B1:18; 195B1:11
 - hydrothermal sediments, 199B15:3
 - immobility, 169A3:99
 - lava, 163A4:39; 5:59–60; 183A1:14
 - lithology, 183A1:29, 33; 4:19; 7:39
 - lower Campanian–upper Paleocene, 210B8:10
 - mafic rocks, 125B24:406–407
 - magmas, 183A7:40
 - mass balance, 169A3:98
 - metasedimentary rocks, 152B10:136
 - mineral separates, 158B2:32
 - mobilization, 148B4:47–50
 - Ninetyeast Ridge, 121A10:281, 327
 - Paleocene/Eocene boundary, 199B16:3
 - saponite, 168B12:154
 - sediments, 165A4:174; 167B23:265; 170A3:77–78; 4:140–141; 6:206; 178A4:23; 180B6:5, 10; 185A1:24
 - shipboard X-ray fluorescence vs. inductively coupled plasma–atomic emission spectroscopy, 142B2:11
 - sills, 129B18:349
 - Site 765, 123A4:199–200
 - sulfides and sediments, 158B3:45
 - Sulu Sea, 124A11:265–266; 124B21:304–306
 - volcanic ash, 165A4:180, 183
 - volcanic rocks, 161B27:370; 163B7:67–74; 183B17:2
 - vs. age, 135B3:46
 - vs. barium, 183A1:75; 4:60; 5:123
 - vs. cerium, 183A1:75; 4:60; 5:123
 - vs. clinopyroxene number, 176B8:26
 - vs. depth, 131B28:350, 356–357; 137/140B7:90; 139A6:224, 226; 139B11:230–250; 148B37:464; 152B28:348; 164B15:160; 170A3:82; 171B_4:9; 179A4:124; 183A4:59; 7:134; 9:93; 185A4:124; 199B15:5; 16:6; 200B1:28; 2:14; 206A1:83; 3:196; 206B6:6
 - vs. iron oxide/magnesium oxide ratio, 200B2:16
 - vs. loss on ignition, 148B10:141
 - vs. magnesium number, 176B8:26
 - vs. magnesium oxide, 135B26:478; 197A3:96; 206A1:89; 3:200
 - vs. niobium/zirconium ratio, 135B3:44; 143B15:252
 - vs. noncarbonate fractions, 165A4:174
 - vs. rubidium, 183A1:75; 4:60; 5:123
 - vs. silica, 151B19:360
 - vs. tantalum, 145B23:376
 - vs. titanium, 183A7:138
 - vs. titanium oxide, 143B15:252
 - vs. vanadium, 121A12:402
 - vs. yttrium, 165A4:183; 183A1:75; 4:60; 5:123
 - vs. zirconium, 121A12:400; 127/128B(2)47:783; 128A3:100; 129B18:357; 130A10:527; 134A10:279; 12:417; 135B3:41; 53:852; 137A2:28; 137/140B7:90; 140A2:86; 142B2:15; 143B15:255, 272; 31:508; 148B37:466; 152B6:79; 157A7:363; 8:418; 157B12:169, 171; 13:192; 165A8:393; 176B3:7; 183A1:75, 93; 5:123; 7:133; 8:68; 9:95; 206A1:87; 3:202
 - X-ray fluorescence data, 152B35:427
 - See also barium/niobium ratio; cerium/niobium ratio; lanthanum/niobium ratio; potassium/niobium ratio
 - niobium/aluminum oxide ratio, vs. depth, 131B35:442
 - niobium anomaly, basalt flows, 210B9:16–19, 33
 - niobium (delta), vs. relative depth, 163B8:93
 - niobium/mid-ocean-ridge basalt niobium ratio, 135B24:410
 - niobium/thorium ratio
 - island-arc tholeiites, 126B31:479
 - lava, 183A1:7–8
 - vs. lanthanum/niobium ratio, 183A1:61–62
 - niobium/titanium ratio, detrital component, 167B23:267–270
 - niobium/uranium ratio, basalts, 135B26:475
 - niobium/yttrium ratio
 - basalts, 118A3:54, 56; 121A11:330; 12:403–434; 136B9:117; 165A6:330
 - incompatible elements, 121A10:282
 - intersite differences, 121B32:637
 - two-component magma mixing, 121B32:641
 - volcanic ash, 121A12:393
 - vs. zirconium/niobium ratio, 121A11:334–335, 403–404; 14:527–528; 15:530; 32:644; 136B9:112; 161B27:369; 165A6:331
 - niobium/zirconium ratio
 - basalts, 152A11:229; 13:280; 165A6:330; 200B2:4
 - basement, 165A8:392–393
 - gabbros, 176B3:5
 - metasedimentary rocks, 152B10:136
 - sediments, 157B12:155; 165A4:174; 170A3:77–78; 4:140–141; 5:177–178
 - volcanic ash, 152B6:79–80
 - volcaniclastics, 157A8:415; 157B27:454
 - vs. age, 152B6:84
 - vs. barium/zirconium ratio, 152A13:287
 - vs. cerium/yttrium ratio, 152B27:322–324
 - vs. depth, 148B37:464; 157B15:251; 27:455; 165A4:175; 170A3:82; 4:140
 - vs. lanthanum/niobium ratio, 152B31:383
 - vs. lanthanum/samarium ratio, 151B19:363
 - vs. neodymium, 152B40:492
 - vs. yttrium/niobium ratio, 161B27:369; 165A6:331
 - vs. zirconium, 152A9:140
 - vs. zirconium/yttrium ratio, 191B3:10

- niobium-zirconium-yttrium plots, basalts, 129B18:349;
169A5:216; 206A1:86; 3:201; 210B9:58
- nitrates
microbial activity, 201A1:13–14
nitrate-reducing bacteria, 127/128B(1)46:770
pore water, 116A4:60–61, 66; 136A4:55; 5:71;
143A6:136; 145A6:237; 8:351; 145B45:671;
201A1:20, 24, 27–28, 45; 6:15; 7:14, 46; 12:12
sediments, 102A1:5–6; 102B9:130–131
vs. depth, 136A4:56; 201A1:69; 6:43; 12:32
zonal section, 175A1:15
See also denitrification; nitrification
- nitrites, sea-surface, vs. age, 202A1:97–101
- nitrification, pore water, 201A7:14
- nitrogen
alteration, 206B1:8
basalts, 142B4:32–34; 183A8:119
bituminous limestone, 160A7:190
core void gas, 204A4:112–113; 5:58; 6:74; 7:14, 68;
8:86; 9:84–85; 10:102–103; 11:57
dark-light cycles, 127/128B(1)25:431; 162A8:274
data, 180A5:118
dropstones, 151A6:134
fixation, 113B50:882
fluid mobility tracers, 205B7:11–12
Galicia margin W, 103A8:149
gas hydrates, 204A4:114; 5:59; 6:75; 7:69; 8:97; 9:86
gases, 169S_B1:37, 39
geochemistry, 139A6:197; 8:486–487; 143A6:142–
143, 145; 7:218–221; 156A6:140–143
headspace analyses, 135A(1)7:318–319
Lingayen Gulf, 124E_A13:81
lithology, 183A7:211; 9:41; 197A5:97
methane correlation, 127/128B(1)44:750
oceanic anoxic events, 198A3:128
organic matter, 155B31:505–517; 172A5:214, 216–
217; 201B1:6–7; 5:1–30; 205A5:36
pore water, 191A4:22
pressure cores, 204A4:115; 6:76; 8:88–89; 9:87;
10:104–105
rocks, 180A11:10, 44
sapropels, 161B31:402–405
sediments, 133A(1)10:381; 13:527; 16:713, 715;
135A(1)10:540–541; 139A5:121, 125–128, 201–
203; 7:319–320, 326; 8:479–482; 139B13:307–
312; 143A8:287; 9:338–341; 146A(1)5:177;
6:263; 7:333; 150A6:94; 7:168–169; 8:233;
9:283, 285; 10:328–329; 151A5:84–85; 6:132–
135; 7:189; 8:242–243; 9:288; 10:336; 11:369;
152A6:67; 7:82–83; 12:269; 154A4:94–98;
5:186–188; 6:261; 7:306–307; 155A6:103–104;
7:140; 8:189–190; 9:215–217; 10:259–260;
11:293–294; 12:345–346; 13:398; 14:423; 15:44;
16:475; 17:519–520; 18:555–557; 19:582–583;
21:649–650; 22:671, 673; 156A6:139; 7:225,
230–231; 157A4:79–80; 6:157–158; 7:358–359;
8:420; 159A5:104–105; 6:189–190; 7:242;
160A4:69–70, 80–81; 5:116–117; 6:137–138;
7:193; 8:256–257; 9:315–316; 10:368–369;
11:398; 12:440; 13:459–461; 14:485–488;
162A3:73–74; 4:113–114; 5:157; 6:191–192;
7:243–244; 8:274; 9:308; 10:361; 164A5:91;
6:128; 7:201; 8:263–264, 269; 168A4:86; 5:139–
140; 6:177; 169A3:117, 119; 169S_A2:48, 50;
170A4:135–136; 5:179–180; 6:209; 7:239;
171B_A3:79; 4:140–142, 144; 5:205–206, 213–
215; 6:284–285, 290–292; 7:332–333, 339;
173A4:88, 92; 6:150; 7:204; 8:252–253; 9:290;
180A5:34; 6:60, 261–262; 7:22, 83; 8:32, 133;
9:45, 191–192; 10:17, 71; 12:40, 189–190;
182A4:30, 96–97; 5:18, 74–76; 6:27, 100; 7:20,
71–72; 8:23; 9:18, 68–69; 10:23, 74–75; 11:13,
41; 12:19; 183A5:51–52, 200; 6:59, 204; 7:54,
211; 8:27, 118; 9:137; 183B7:22–23; 186A1:10;
4:38; 5:25, 27; 190A4:135–137; 5:137–140; 6:18,
85; 7:75; 8:17–18, 85–86; 9:101; 191A4:136–
137; 194A3:74; 4:112–114; 5:102–103;
198A1:148; 3:27–28; 6:23, 81; 9:26, 102; 10:13,
31; 207A6:99–101; 210A3:96, 349–352
Site 765, 123A4:161
Site 779, 125A7:127
Site 781, 125A9:186–187
Site 782, 125A10:208–212
Site 784, 125A12:281–285
Site 785, 125A13:310
Site 786, 125A14:328, 332
Site 794, 127A4:113–114
Site 795, 127A5:209–212; 127/128B(1)41:708–709
Site 796, 127A6:283–285
Site 797, 127A7:365–367
Site 798, 128A4:176–177, 189–192
Site 799, 128A5:323–324, 334–338, 341
Site 951, 157A5:126
subduction recycling, 205B1:23–24
terrestrial vs. marine sources, 113B50:882
volcanic rocks, 183A5:201; 6:205
volcaniclastics, 134B9:155; 157A9:461; 10:523, 525
volcanics and volcanoclastics, 183A7:212
vs. carbon dioxide, 142B3:26; 148B1:6
vs. carbon monoxide, 142B3:26
vs. depth, 131B13:168; 133A(1)10:382; 13:537;
16:723; 135A(1)4:130–131; 139A5:133–137;
7:349–350; 8:491–495; 139B13:310; 43:689;
143A6:147; 144A6:237; 8:306; 144B51:902–903;
148B1:3–7; 150A7:166; 8:234; 9:287; 10:329;
155A6:111; 7:148; 8:191; 9:218; 10:260; 11:295;
12:352; 13:401; 14:425; 15:455; 16:480; 17:527;
18:557; 19:584; 20:613; 21:650; 22:676;
157A4:80; 5:126; 6:158; 7:366; 9:461; 10:527;
168A4:86; 171B_A5:215; 190A4:19, 66; 5:72
vs. helium, 142B3:26
vs. methane, 142B3:26
vs. organic carbon, 128A5:343–344; 144A5:186;
6:239; 8:307; 144B51:905; 152A7:83; 11:231;
12:269; 156A6:139; 168A4:84; 171B_A5:215
wedge sediments, 205B7:1–38
weight percentage, 139A6:209–210; 169A3:122–123
See also carbon/nitrogen ratio; carbon/(nitrogen +
phosphorus) ratios; carbon, organic/nitrogen
ratio; carbon, total organic/total nitrogen ratio;
carbon-nitrogen evidence
- nitrogen, expansion void gas, vs. depth, 146A(1)5:182

- nitrogen, organic
 conversion to ammonium, 202B9:6–8
 high-resolution composite, 105B14:218–220
 low-resolution composite, 105B14:212–215
 molecular composition, 131A6:186–187
 organic matter, 169S_B1:38–39
 sediments, 131A6:189
 sources, 139B27:490–493
 vs. depth, 133A(1)8:274; 169S_A2:49, 52
 nitrogen, particulate, organic matter, 201B1:6–7
 nitrogen, remineralized, sediments, 146B(1)26:388–389
 nitrogen, total
 Albian–Santonian interval, 207B11:1–13
 Baffin Bay, 105B32:611
 data, 202A3:53–54
 diagenesis, 157B33:574–576
 effects of storage and pretreatment, 205B7:21–23, 38
 headspace, 133A(1)9:323; 11:436; 13:536; 14:590
 Labrador Sea, 105B14:214; 34:666–674
 organic matter, 201B4:5; 5:5, 28
 percentage, 175A3:81; 4:108; 5:135; 6:171; 7:193;
 8:217; 9:262–263; 10:302–303; 11:332; 12:372–
 374; 13:418–419; 14:451; 175B2:9–11
 sediments, 141A10:403; 145B42:647–651;
 146A(1)4:79; 5:177; 6:264; 7:331, 333;
 162A3:77–79; 4:117–118; 5:161; 6:194–195;
 7:246; 8:277–279; 9:315–316; 10:371–372;
 164A5:87; 6:125–126; 7:197; 9:297–298, 301;
 164B37:395; 165A3:72; 4:163–164; 5:254–256;
 6:316, 318; 166A6:90–91; 7:160; 8:188; 9:250;
 10:312; 11:361; 167A(1)4:75, 81; 5:106; 6:146,
 151; 7:167, 171; 8:193, 206; 9:232–234; 10:262–
 263, 267; 167B12:186–187; 169A3:120–121;
 4:181–182; 5:223; 6:287–288; 172A3:58–59;
 4:130–131; 5:219–221; 6:282–283; 174A_A3:76;
 4:127; 5:175, 177; 177A4:17–18, 90–93; 5:22,
 54, 96–97; 6:15, 79–80; 7:15, 79; 8:17, 99–100;
 9:14, 70; 178A7:106–107; 181A3:107–109; 4:74–
 75; 5:61; 6:141–143; 7:177–179; 8:133–134;
 183A3:18, 59; 4:29, 95; 184A4:96–99; 5:85–87;
 6:60; 7:92–94; 8:7, 42; 9:19–20, 113–115;
 188A3:49, 182; 4:31, 104; 5:25, 90; 188B16:10;
 189A3:37–38, 154–157; 4:58; 5:41, 150–153;
 6:159–162; 7:134–137; 194A6:89–90; 7:140–
 142; 8:81–82; 9:72–73; 201A7:18, 90; 202A3:13–
 14; 4:15–16, 73–74; 5:15, 62–63; 6:16, 65–67;
 8:24–25, 103–105; 9:20, 98–100; 10:19, 90–92;
 11:16, 79–80; 12:16, 99–100; 13:15, 72–73;
 202B9:4; 204A3:21, 119; 4:17, 116; 5:10, 60;
 6:14, 77; 7:70; 9:14, 88; 10:18, 106; 205A4:180;
 5:111; 6:54; 205B7:5–14, 34–35; 207A4:101–
 103; 5:106–110; 7:101–103; 8:92–93
 Site 681, 112B36:558
 Site 723, 117B32:533
 Site 724, 117B32:533
 Site 787, 126A5:85, 88
 Site 788, 126A6:122
 Site 792, 126A8:268, 272–276
 Site 793, 126A9:374–378
 Site 881, 145A3:58–60
 Site 882, 145A4:108
 Site 883, 145A5:158–160
 Site 884, 145A6:366–367
 Site 1017, 167A(1)10:273; 11:296–297, 304–305;
 12:341; 13:369, 373–374; 14:416; 15:449, 456;
 16:476, 481; 167B24:273
 Sites 790–791, 126A7:186–187, 191–193
 Sites 885–886, 145A7:322
 volcanoclastics and basalts, 183A4:96
 vs. carbonate content, 157B33:577
 vs. depth, 133A(1)9:324; 12:482–483; 14:591; 15:648–
 649; 146A(1)4:79; 5:178; 6:263; 7:335;
 157B34:585; 162A3:75–76; 4:116; 5:160; 6:192;
 8:280; 9:317; 10:372; 162B15:211; 164B37:396;
 167B12:187; 168A5:146; 6:185; 169A3:124;
 4:185; 5:227; 6:289–290; 177A4:49; 6:44; 8:51;
 9:42; 188B16:7; 189A5:87; 6:100; 7:80;
 201B4:17; 5:19, 24; 8:8–15, 30; 202A4:49; 5:43;
 6:48; 9:64; 10:59; 11:54; 12:64; 13:52; 202B9:16;
 204A3:72; 4:73; 5:37; 6:49; 7:46; 9:53; 10:63;
 205B7:28
 vs. nitrogen isotopes, 157B33:578; 205B7:31
 vs. organic carbon, 157B34:586
 vs. total organic carbon, 117B32:533; 146A(1)4:81;
 5:178; 6:264; 7:336; 151A5:87; 6:135; 8:194;
 9:247, 292; 10:336; 11:372; 162A3:79; 4:118;
 5:162; 6:195; 7:247; 8:280; 9:317; 10:372;
 167A(1)5:113; 168A4:86; 5:147; 6:185;
 177A6:45; 8:52; 184A5:55; 202A1:103; 5:15, 44;
 6:49; 10:60; 11:55
 weight percentages, 169A4:184; 5:226; 6:288–289
See also carbon/nitrogen ratio; carbon, total organic/
 total nitrogen ratio
 nitrogen, total/organic phosphorus ratio, vs. depth,
 155B31:509, 511
 nitrogen, Vacutainer, vs. depth, 169S_A2:48, 51
 nitrogen-15
 ammonium, 201B5:5–6, 8, 30
 diagenesis, 157B33:575–576; 34:584–587; 38:632
 kerogen, 188B16:4–5, 10
 organic matter, 201B5:1–30
 sediments, 157B31:583
 vs. carbon-13, 157B33:578; 34:586
 vs. depth, 188B16:7; 201B5:20, 22, 27
 vs. organic carbon, 157B33:578
 vs. total nitrogen, 157B33:578
 nitrogen budget, lithology, 201B5:10–12
 nitrogen/carbon ratio
 Lima Basin C, 112B9:141
 Pisco Basin W, 112B9:141
 sediments, 146B(2)15:213–218
 Site 680, 112B9:141, 149
 Site 681, 112B9:141
 vs. age, 146B(2)15:216
 vs. carbon isotopes, 146B(2)15:215
 vs. hydrogen/carbon ratio, 146B(2)15:216
 nitrogen/carbon ratio (atomic), vs. depth, 155B33:534
 nitrogen compounds
 biomarkers, 159B43:598
 mass chromatograms, 172B1:9
 vs. depth, 159B43:597
 nitrogen flux, subduction, 205B7:12–13

- nitrogen index
 vs. depth, 144B48:863, 865
 vs. hydrogen sulfide index, 144B48:862
- nitrogen isotopes
 alteration, 206B1:8
 ammonium, 164B17:171–172
 black shale, 210B10:4, 11–13
 decarbonated vs. bulk samples, 207B11:3, 8, 11
 denitrification, 202B1:10
 diagenesis, 202B9:1–22
 effects of storage/pretreatment, 205B7:22–23, 36, 38
 fractionation, 105B14:210
 high-resolution composite, 105B14:217–220
 kerogen, 188B16:4–5, 10
 lithology, 185B1:12
 low-resolution composite, 105B14:210–217
 Miocene–Pleistocene variation, 105B14:217
 organic carbon, 207B11:4
 organic matter, 105B32:605; 113B50:882;
 161B31:409; 164B7:74; 201B5:1–30; 202B1:8
 Pleistocene, 202B1:9–10
 sapropels, 161B31:401–411
 seafloor sediments, 205B7:6–7
 sediments, 113B50:884–897; 175B18:5–10, 24;
 205B7:5–14, 34–35
 Site 724, 117B35:573–579, 581
 Site 725, 117B35:580, 585
 sulfate–methane transition, 201B5:9
 terrigenous influxes, 105B14:210, 217; 117B35:572
 vs. age, 175B18:22
 vs. carbon isotopes, 205B7:32
 vs. depth, 161B31:406–408; 164B17:172; 185B1:27;
 188B16:7; 202B9:17–18; 205B7:28
 vs. total nitrogen, 205B7:31
 vs. total organic carbon, 207B11:10; 210B10:9
- nitrogen reservoirs, seafloor sediments, 205B7:6–7
- noble gases
 gas hydrates, 164B1:9; 16:165–170
 pore water, 141B26:321–329
 sulfides, 139B19:391
See also helium; krypton; neon; xenon
- noble metals
 abundance, 115B7:73, 78–80
 basalts, 135B35:595–602
 concentration, 115B7:77
 Cretaceous/Tertiary boundary, 121B20:425
 distribution, 115B7:71–83
 fractionation, 115B7:77, 80–82
 immobility with low-grade alteration, 115B8:91
 mantle, 115B7:81–82
 Mascarene Plateau, 115B7:76
 mid-ocean-ridge vs. oceanic-island basalts, 115B7:82
 Nazareth Bank, 115B7:76
 Site 713, 115B7:76
 Site 715, 115B7:76
 sulfide removal, 115B7:81
- Nodosariida
 Australian distribution, 123B14:280, 283–284
 Site 766, 123B14:273, 278
- nodular chalk texture. *See* textures, nodular chalk
- nodular hardening, photograph, 182A10:42
- nodular texture. *See* textures, nodular
- nodules
 alteration zones, 169A3:82; 169B10:9
 authigenesis, 201A8:12–13
 authigenic carbonates, 164B29:287–289; 30:305–306
 chert, 198A1:49
 compaction, 129B32:592
 composition, 144B44:745–768
 concretions, 139B12:294–295
 diagenesis, 139B7:108–109; 164A6:149; 188B1:19–20;
 202A9:11
 dolomite, 164B29:293
 gas hydrates, 146B(1)8:154; 164A6:61–62; 8:253–254;
 9:305
 genesis, 145A7:319
 iron sulfides, 155B13:245–249
 lithology, 139A7:448, 456; 150X_A1:23–24;
 154A6:235–236; 155A13:391; 161A5:125–128,
 131; 162A4:106; 164A7:181–182; 8:246; 9:284;
 167A(1)14:395; 16:468; 169A4:166–167;
 172A4:88; 174AX_A1:26; 174AXS_A3:24–25;
 175A3:56; 4:91; 5:117; 6:150, 154; 182A10:9;
 182B12:3–5; 183A3:4–6; 5:5; 186A4:18–19;
 189A3:11–12; 190A4:8; 191A4:11; 192A6:7;
 195A3:11–12, 14; 201A10:9–10; 202A6:6–9;
 206A1:23; 207A7:9; 8:7–9; 208A7:5–6
 paleoenvironment, 160A7:16–164
 photograph, 141A10:354; 172A4:89; 194A9:31;
 210A3:232
 photomicrograph, 164B29:290; 198A3:77
 pyrite, 150A10:325; 168A5:112–113
 samples, 129B2:65
 sediments, 155A14:424
 semimassive sulfides, 193B1:22–23
 sulfur isotopes, 164B13:143–146
 thermal anomalies, 204A7:47
See also concretions; micronodules; pseudonodules
- nodules, anhydrite
 lithology, 169A4:164–165
 photograph, 169A3:57
- nodules, apatite, X-ray diffraction data, 201A9:36
- nodules, authigenic
 biostratigraphy, 155A6:99–100
 gas hydrates, 164B1:8–9
 photograph, 202A6:31
 X-ray diffraction data, 201A8:34; 9:10–11
- nodules, barite
 lithology, 159A6:166
 palygorskite, 159B15:149
 photograph, 159A6:168; 159B7:69
 scanning electron micrograph, 159B16:154
 X-ray diffraction data, 159A6:169; 201A8:34
- nodules, carbonate
 diatoms, 127A5:193
 geochemistry, 188B15:4–8
 lithology, 139A7:303; 139B9:141; 14:313–339;
 169A4:164; 174AXS_A6:45; 204A4:5; 7:3–8;
 10:8–9; 207A4:9; 210A3:51
 photograph, 150A7:148; 164A5:79; 8:252–253; 9:285;
 169A4:166; 174A_A4:114; 201A11:48;
 204A3:48; 4:43; 7:29; 10:49

- photomicrograph, 204A7:30; 207B2:31
- Site 795, 127A5:186
- Site 797, 127A7:343
- thermal anomalies, 204A7:15
- nodules, chalk
 - limestone, 192A3:21
 - lithology, 133A(1)9:306
 - photograph, 192A6:46
- nodules, chert
 - lithology, 133A(1)10:357; 133B56:791–794; 136A5:68; 138A(1)11:285; 165A3:58; 171B_A6:246, 250; 183A3:4–6; 6:5–7; 7:5; 199A10:6; 11:8; 206A3:25–26; 207A4:9; 208A4:8
 - photograph, 160A8:238; 181A5:34; 192A3:58
 - photomicrograph, 198A3:77
- nodules, clay, lithology, 174AXS_A1:24–25; 175A12:345–346
- nodules, claystone, lithology, 136A4:40
- nodules, concretionary, photomicrograph, 195A3:73
- nodules, D-phosphate, X-ray diffraction data, 201A9:36
- nodules, disseminated, photograph, 175A6:155
- nodules, dolomite
 - lithology, 164A9:283–284
 - photograph, 164A6:108; 201A10:35
 - X-ray diffraction data, 201A9:36
- nodules, dolostone, lithology, 201A10:9, 11–12; 11:11
- nodules, F-phosphate, X-ray diffraction data, 201A9:36
- nodules, ferromanganese
 - beryllium isotopes, 181B1:13–14
 - lithology, 145A7:307–308; 181A1:19–20; 5:4–6
 - photograph, 145A7:307; 181A5:32
- nodules, fluorapatite
 - lithology, 201A8:9, 12
 - X-ray diffraction data, 201A8:34
- nodules, gas hydrates, tomography, 204B21:3, 9
- nodules, green, lithology, 195A4:11–12
- nodules, gypsum, lithology, 204A3:8
- nodules, iron sulfides, textures, 174A_B3:4, 9
- nodules, limestone
 - diagenesis, 192A3:20–21
 - lithology, 210A3:51–52
- nodules, manganese
 - biostratigraphy, 144A10:356–357, 359
 - cerium, 127/128B(1)42:726–727
 - claystone, 123A4:105
 - hiatuses, 177A1:14
 - inoceramid sediments, 123B1:9, 11, 54
 - lead isotopes, 158B8:105
 - lithology, 138B40:807–811; 144A10:338–339; 159A8:268; 171B_A3:51; 6:246; 195A4:12; 199A10:6; 11:7
 - photograph, 144A10:349; 199A11:44
 - vs. depth, 177A5:37
 - well-logging, 144A10:383
- nodules, manganese oxide
 - geochemistry, 208A6:24
 - light microscope images, 208A6:68
 - lithology, 171B_A4:97–98; 5:175, 179–181; 7:323
- nodules, phosphate
 - lithology, 133B36:527; 159A6:166–168; 164A9:283–284; 170A3:53; 194A9:4; 201A9:11; 207A4:9; 5:8–9; 6:9
 - photograph, 159A5:80, 84–85; 8:265; 194A9:31; 201A8:33; 207A4:45; 5:49, 51; 6:49
 - sedimentation, 181B1:8
 - Site 797, 127A7:344, 346
- nodules, pitted carbonate, photograph, 169A4:166
- nodules, porcellanite
 - lithology, 130A8:305
 - photograph, 201A6:41
 - X-ray diffraction data, 201A9:36
- nodules, “proto-chert,” X-ray diffraction data, 208A6:54
- nodules, pyrite
 - lithology, 171B_A3:59; 174A_A3:45, 56–57; 4:111–113; 174AX_A1:30–31; 174AXS_A1:25; 6:24–25; 175A15:460; 183A5:5; 198A6:8; 210A3:35
 - photograph, 171B_A4:117; 175A15:464; 201A6:42
 - X-ray diffraction data, 201A6:39
- nodules, pyrrhotite, lithology, 204A3:6; 10:7
- nodules, septarian, glauconite, 150B10:178
- nodules, siderite
 - lithology, 150A10:316–317; 164A6:111; 9:283; 174A_A3:45, 56–57; 4:111–113
 - stable isotopes, 188B15:4–7
- nodules, siderite-calcite, lithology, 150A8:211–214
- nodules, sphaerosiderite, lithology, 174AXS_A4:16–28
- nodules, spheroidal, lithology, 193A3:30–31
- nodules, sulfide, photograph, 201A12:29, 31
- nodules, yellow dolomite
 - photograph, 201A7:42
 - X-ray diffraction data, 201A7:45
- nodules, zeolite, photograph, 195A4:75
- noise spectra
 - broadband borehole seismometers, 200B1:23
 - subseafloor reflections, 200B1:5–6
- nonacosane. *See n-nonacosane*
- noncarbonate component
 - biogenic sediments, 201B14:7
 - chromium, 165A5:261
 - distribution, 165A5:262–263, 275
 - mass accumulation rates, 165A5:247; 8:379–380; 198A3:26; 4:60; 5:25; 6:22, 55; 7:21–22
 - Miocene/late Miocene carbonate crash, 165A8:383
 - percentage, 194A8:80; 9:71
 - provenance, 165A6:322
 - sediments, 194A4:110–111; 5:101; 6:88; 7:139, 146
 - vs. depth, 194A4:81; 5:66; 6:50; 7:87, 89; 8:54; 9:45; 201B14:22–23
 - vs. rubidium, 165A6:323
 - vs. titanium, 165A6:323
 - vs. zinc, 165A6:323
 - vs. zirconium, 165A6:323
- noncarbonate flux, vs. age, 183B7:19, 21
- noncarbonate fraction. *See carbonate/noncarbonate ratio*
- nonionids
 - abundance in carbonates, 144B9:176–177
 - Pleistocene, 133B26:371–374
 - Site 821, 133B26:371–374

- nonmagnetic assemblies, experiments, 182A(appendix):3
- nonmarine environment, sedimentation, 183A5:7–8
- nonmetals, altered/parent rocks, 193B6:17
- nontronite
- alteration, 185A3:26; 192A3:29–32; 5:16–17; 192B6:4; 197A4:20–23; 6:16; 203A3:15–17
 - Aptian, 192A3:13–14
 - chemical composition, 148B11:160–162, 168–170; 176B1:10
 - first-derivative curves, 164B31:323
 - halos, 206A3:68
 - hydrothermal alteration, 147B26:450; 192A1:25–26; 3:31–32; 209A9:11
 - hydrothermal fields, 158A1:7
 - hydrothermal sequences, 145B27:417–419, 421–424
 - lithology, 123B9:197; 183A4:5, 11–13; 192A1:12
 - petrography, 200A4:31
 - photograph, 183A4:41; 5:137; 192A3:63
 - photomicrograph, 192A3:119, 129; 5:88
 - volcaniclastics, 134B9:133–134
 - vs. depth, 197A5:73
 - X-ray diffraction data, 202A11:45; 9:65
 - See also* beidellite-nontronite series; celadonite-nontronite mixtures; celadonite-nontronite-saponite mixtures; phyllosilicates
- nonvolcanics, lithology, 200A3:14–19
- Norian, rifting phases, 210B1:6
- norites
- lithology, 209A10:5–10
 - mineralogy, 153B5:78–93
 - See also* gabbros; gabbronorites
- norites, cataclastic, composition, 149A7:233–235
- norites, olivine, geochemistry, 153B28:491–495
- norlupane, Baffin Bay, 105B15:241
- normal faults. *See* faults, normal
- normalization factor logs
- geochemical logs, 127/128B(2)65:1029–1030, 1034–1035
 - lithology, 129B29:524
 - vs. depth, 160A8:285–287
 - X-ray diffraction data, 156A3:29–30, 36–37; 190/196B5:1–28
- normalized vertical tool acceleration logs, 208A6:73
- Normarski differential interference contrast, 135B31:543–547; 32:549–556
- normative composition, basalts, 191A4:146
- normative opal analysis, technique, 199A6:6–8
- nosean
- photomicrograph, 180B8:42
 - volcaniclastics, 180B8:8
- Nothofagus*, palynomorphs, 188B3:9
- NRM. *See* remanent magnetization, natural
- nubeculariids
- abundance in carbonates, 144B9:174
 - Pleistocene, 133B26:371–374
 - Site 821, 133B26:371–374
- nuclear logs
- gabbros, 179A4:63–64
 - Site 735, 176A3:88–89
- nuclear magnetic resonance data
- gas hydrates, 204B27:1–22
 - kerogen, 139B27:488–489
 - logging-while-drilling, 204A3:99
 - See also* spectroscopy, nuclear magnetic resonance
- nuclear magnetic resonance porosity. *See* porosity, nuclear magnetic resonance
- nucleation, plagioclase, 163B12:144
- nucleation rates
- diabases, 137/140B1:3–4
 - kinetics, 126B34:525
- nucleic acids
- microorganisms, 168B14:171
 - photomicrograph, 200A3:124
- nucleotide sequences
- goethite, 158B26:357, 359
 - microbial pits, 148B14:212
 - See also* oligonucleotide probe hybridization; polynucleotides
- nuculids, lithology, 174AX_A1:22
- Nukumaruan
- biostratigraphy, 181A3:13–14; 4:10; 7:18; 8:19; 9:12, 14
 - lithology, 181A1:14
- numerical modeling, permeability, 180B23:7–8
- Nummulites-Operculina* facies, assemblages, 133B4:57
- nummulitids
- abundance in carbonates, 144B6:130
 - lithology, 194A6:5
 - Pleistocene, 133B26:371–374
 - Site 802, 129A4:198
 - Site 821, 133B26:371–374
- Nunivak Subchron
- carbonate platforms, 166A3:31
 - correlation, 132B4:53; 145B34:497
 - magnetic polarity, 135A(1)4:118; 10:531–533; 11:615–619; 181A7:28
 - magnetostratigraphy, 138B38:781; 149A4:73; 173B11:13; 194A4:18–19
 - Oman margin S, 117B5:132; 7:175
 - remanent magnetization, 160A7:179
 - sediments, 202A8:21
 - Site 745, 119B46:818
 - Site 797, 127/128B(2)77:1223
 - Site 799, 127/128B(2)77:1224; 128A5:314
 - Site 851, 138B6:84
 - Site 853, 138A(2)18:1038–1041
 - timescales, 138B6:87
- nutricline, Pliocene–Pleistocene, 159B42:579–580
- nutrient proxies, paleoceanography, 172A1:8–9
- nutrients
- carbonate platforms, 144B52:931
 - color-banded bedding, 127A7:349–351
 - diatoms, 172B8:4
 - gas hydrates, 167B32:354
 - geochemistry, 202B8:7–9
 - occurrence, 129B2:39
 - oceanography, 169S_A2:15–16
 - opal, 160B28:358–359
 - organic matter, 160B26:318–319
 - oxygen isotopes, 202B12:14
 - pore water, 169A3:115; 5:218; 6:278–279

productivity control, 175B18:12–14, 23; 199B22:9
 recycling, 199B20:1–33
 regeneration, 202A1:22–23
 sediments, 169S_B1:39–40; 175B21:10
 upper ocean temperature, 138B13:289–319
See also productivity
 Nyquist frequency
 Milankovitch cycles, 129B30:538
 paleoproductivity, 146B(2)8:115

O

O-18/O-16. *See* oxygen-18/oxygen-16 ratio; oxygen isotopes
 OAE. *See* oceanic anoxic events
 oak
 vs. age, 167B17:223–226; 20:243
 vs. depth, 167B17:220–224
 oak/(oak + pine) ratio, vs. age, 167B20:244
 oak/pine ratio, vs. age, 167B17:226
 obduction
 plateaus, 165B15:235
 seafloor spreading, 179A4:11–13
 oblique-slip faults. *See* faults, oblique-slip
 obliquity
 age, 161B37:471; 202B4:8–12
 biogenic opal, 127/128B(1)26:447
 carbon isotopes, 202B1:46
 color, 175A22:564
 core-log integration, 186B15:9–10
 cross-spectral analysis, 198B22:26
 cyclicality, 127/128B(1)26:446–447; 32:571, 574–575;
 130B20:359; 22:388–391; 138B1:16–19;
 146B(2)19:259–263; 154B5:102–103; 15:232;
 21:302–304; 28:438; 165B7:137–138;
 171B_B9:7; 175A22:565; 199B1:12; 207B2:8–9
 deposition, 178B8:12; 25:10–11
 Formation MicroScanner imagery, 127/
 128B(2)66:1043–1044
 gamma ray time shift variation, 186B15:24–25
 geochemical logs, 127/128B(2)65:1021
 indicators, 130B30:513–516
 lithology, 181B1:47
 oxygen isotopes, 130B21:365, 368–373; 29:498;
 138B15:352; 202B1:7, 46
 paleoclimatology, 160B14:187–188; 181B1:33–34
 phase and amplitude, 154B3:80
 Pliocene, 202B13:11–13
 reflectance, 198B22:5
 sedimentation rates, 175B9:5; 22:3–5
 sediments, 172A4:121; 204B12:9
 spectral analysis, 154B7:140–143; 16:239–243;
 18:277–278
 surface-water temperatures, 127/128B(1)27:467–468
 time series analysis, 130B23:403–405; 133B15:196,
 199; 181B1:103
 timescales, 154B3:73
 volcanic ash, 185B7:19
 vs. age, 145B19:288–291; 21:324; 165B4:95;
 175B22:15; 202B4:24–27
 vs. reflectance, 198A1:13; 198B22:21–25

well-logging, 127/128B(1)23:403; 77:1221; 128A1:34;
 5:342
 oblique seismic experiment (OSE)
 anisotropy, 102B8:108–110
 data reduction, 102B8:100–104
 internal velocity, 102B8:106–108
 methodology, 102A3:97; 102B8:97–124
 objectives, 102B8:100
 oceanic crust, 102B11:157
 seismograms, 102A3:151–235; 102B8:103–106, 114–
 117
 structure, 146A(1)6:282
 velocity-density calculations, 102B8:111
 velocity inversion, 102B8:104–106
 See also eccentricity; orbital forcing; precession
 observatories, OSN-2, 203A1:6–7, 15
 obsidian, lithology, 170A3:53, 57
 ocean-atmosphere system
 climate models, 199A3:1–30
 cycles, 124B29:385–386
 interpretation, 130A31:532
 ocean basins
 basement, 183A1:6–8
 deep floors, 129B1:3
 evolution, 134A2:22–24
 Lau Basin, 135A(1)1:5–47
 Paleogene, 199B1:3–4
 physiography, 152A1:6–7
 plate tectonics, 151A1:5–9
 rifting phases, 210B1:6
 schematic cross section, 135A(1)1:34
 sediment drifts, 172A1:7–8
 sedimentation, 131B26:323–324
 tectonics, 194A1:4–5
 volcanic history, 151A1:11–16
 ocean borehole seismometers. *See* seismometers, ocean
 borehole
 ocean bottom installations, strainmeters, 186A3:7–8
 ocean bottom seismometers
 air gun profiles, 127/128B(2)68:1070, 1077; 69:1076,
 1079; 70:1109; 74:1159, 1162–1163, 1167;
 128A3:112–114
 anisotropic models, 127/128B(2)70:1117
 array locations, 127/128B(2)68:1070, 1077; 70:1107,
 1109; 74:1159
 assignment of cable conductors, 128A3:109
 battery specifications/wiring, 127/128B(2)68:1067
 crustal structure, 127/128B(2)69:1075; 83:1342
 data/power link, 127/128B(2)68:1064–1065
 data selection, 127/128B(2)68:1067
 data variance, 127/128B(2)70:1115
 deployment during real-time experiment, 127/
 128B(2)69:1076; 74:1159; 128A3:111, 113
 digital telemetry, 127/128B(2)68:1063–1064
 downhole seismometers, 127/128B(2)68:1061, 1078,
 1084
 equipment, 128A3:69–70
 first arrival traveltimes, 127/128B(2)69:1089
 frequency sensor response, 127/128B(2)74:1158–1162

- Hawaii Institute of Geophysics (HIG) and Naval Ocean Research and Development Activity (NORDA) experiments, 127/128B(2)68:1061
- horizontal sensor azimuth, 127/128B(2)74:1159
- installation, 127/128B(2)68:1067–1068; 128A3:69–70, 110
- local earthquakes, 127/128B(2)74:1161, 1165–1166
- navigation, 127/128B(2)70:1107–1108
- noise levels, 127/128B(2)74:1162–1163
- objectives, 127/128B(2)68:1061; 74:1157; 128A1:18, 22–23; 3:83, 106
- off-line experiment, 127/128B(2)74:1158–1162
- operations, 128A3:68, 85, 113
- power supply, 127/128B(2)68:1066; 74:1159–1160
- pressure housing, 127/128B(2)68:1063–1064
- ray tracing results, 127/128B(2)69:1090–1103
- real-time experiment, 127/128B(2)68:1068, 1077; 74:1157–1158; 128A3:110–111
- recorder unit, 128A3:109–110
- records, 127/128B(2)69:1077–1084; 74:1160
- recovery unit, 127/128B(2)68:1066–1068, 1073
- seafloor data recorder, 127/128B(2)68:1065–1066
- seafloor package deployment, 127/128B(2)68:1068–1071; 128A3:111
- seismometer specifications, 128A3:109
- seismometer system layout, 127/128B(2)68:1063; 74:1161; 128A3:84, 114
- sensors, 127/128B(2)68:1063–1064, 1072; 74:1158–1160; 128A3:106–109
- ship positioning during experiment, 127/128B(2)69:1076–1077
- Site 794, 127/128B(2)68:1061–1078; 70:1107–1121; 74:1157–1171; 128A3:36, 68–70, 106, 117
- slowness vectors, 127/128B(2)70:1118
- specifications for experiment, 127/128B(2)74:1160
- system design, 127/128B(2)68:1061–1063; 128A3:106–110
- technological difficulties, 127/128B(2)74:1157; 128A3:106
- teleseismic observations, 127/128B(2)74:1162, 1167–1168
- temperature change, 127/128B(2)74:1160–1161
- tilting, 127/128B(2)74:1160–1161
- traveltime, 127/128B(2)70:1112–1113
- velocity power spectrum plot, 128A3:115
- velocity structure, 127/128B(2)69:1078–1083, 1085–1086, 1089
- very long-period data (VLP), 127/128B(2)74:1159–1161, 1164
- weather, 127/128B(2)74:1163, 1171; 128A3:113
- well-logging cable, 127/128B(2)68:1063; 128A3:106–109
- ocean bottom shots, seismic profiles, 156B21:265–267
- ocean circulation
- abyssal regions, 210A1:32
- Antarctic role, 113B53:938–939
- Antarctic sea ice formation, 113B49:875
- Atlantic Ocean N, 172A1:7
- biogenic productivity, 121B13:266–267
- biohorizons, 133B1:15–16
- biostratigraphy, 120B(2)44:839–840; 138B20:461–478; 182A1:11–12
- brittle-ductile shear zone formation, 118B26:511
- calcite saturation horizon, 115A5:237
- California Current, 146A(2)2:18–19; 167A(1)1:5–13
- carbon dioxide, 162A1:8–9
- carbon isotopes, 107B1:24
- carbonates, 144B16:329; 165A8:385
- Ceara Rise, 154A1:6–8; 154B18:269–284; 19:285–297; 20:299–318; 22:331–345; 27:397, 400–401, 404; 30:451–461
- Cenozoic, 189A1:57–60; 189B1:2
- clay, 190/196B4:7–8
- climate models, 199A3:5–9
- climatic influence, 115A5:237
- continental rise, 188A1:6; 188B1:5
- Cretaceous and Paleogene deepwater, 198B1:6–8
- Cretaceous–lower Cenozoic interval, 171B_A1:7
- Cretaceous/Tertiary boundary, 165A1:8–10
- crust, 124B17:236
- currents, 138B28:615–625; 151A1:16–17; 151B13:248–249; 159B40:549–551; 161B30:392; 175B7:13; 23:26; 178A2:6–7; 178B8:4
- deep water, 175B(synthesis):61; 177B(synthesis):14–16
- deposition, 166B2:18–21; 195B3:3–5
- Eocene climate, 113B49:874
- evolution, 113B49:875; 151B3:54–55
- ferromanganese crusts, 144B44:759–760
- frontal systems, 177A1:8
- gateway opening, 207A1:13–14
- general circulation models, 199B1:28
- glaciation, 175A3:51
- grain size changes, 121A13:470; 121B44:943
- Greenland Sea, 151A8:224
- gyres, 188A1:5–6
- halothermal processes, 113B49:865
- hydrography, 175B11:2–3; 189A1:10–11
- ice sheets, 120B(2)56:1001, 1019
- ice volume increase, 121A13:500
- in situ stress state, 118B26:505–507
- Indian Ocean, 120B(2)46:867; 121A1:18
- maps, 188A1:32; 203A1:19
- Marshall Paraconformity, 181B1:55–56
- Mediterranean Sea, 107B1:17
- middle–late Miocene, 165B17:252
- millennial-scale climate change, 202A1:34; 202B1:53–54
- Miocene–Pliocene interval, 151B31:523–524
- models, 199A1:4
- mud waves, 172B(overview):4–5
- Neogene, 151B16:299–305; 198B1:13–18
- Norwegian–Greenland Sea, 151B1:15, 17
- nutrients, 151A1:20, 22
- ocean fronts, 189A1:76
- oceanography, 169S_A2:15–16
- Pacific Ocean, 138A(1)1:6–7; (2)13:679; 138B1:6–8; 13:289–290; 17:381–385; 35:718; 145A1:5–7
- paleoceanography, 151B1:1–23; 36:645–658; 181A1:3
- paleoclimatology, 146B(2)23:320–323; 151B36:654–657; 175A1:8–9; 181B1:48–51

- paleoenvironment, 151B17:310–311
Paleogene, 199B1:4
patterns, 135B16:258, 265
physiography, 151B1:5
plate movement, 115A5:237
Pliocene, 154B21:319–330
Pliocene–Pleistocene interval, 130B19:333–348;
151B30:493–514
productivity, 161A1:13–14; 203A1:4–5
Quaternary, 133B11:153–155, 160–161; 151B26:449–
452; 28:477–482
salinity, 113B49:865, 877; 151B33:583–591
scheme, 188B1:31
sea ice, 151A11:347; 151B2:25–36
sea level changes, 146B(2)8:121
sea-surface temperature, 151A11:347; 162B12:179–
190
seaway closure, 198A1:107; 4:37
sedimentation rates, 121A15:517
Site 698, 114A5:93
Site 700, 114A7:307
Site 704, 114A3:27, 31
Site 851, 138B22:503–514
stable isotopes, 130B24:414–415
Subtropical Front, 181B1:38
summer and winter patterns, 133B14:188
surface water, 138B35:722–723; 146B(2)8:106;
151B30:493–514; 189A1:90–92
tectonics, 151A1:5–26
thermohaline circulation, 113B49:865
Tyrrhenian Sea, 107B1:3; 14–15, 24
upper Miocene–Holocene interval, 198A1:103
vegetation, 151B15:289–296
volcanic ash, 198B18:7–8
water masses, 151B13:243, 249; 162A1:8–13
Yermak Plateau, 151A8:224
See also bottom currents; bottom water circulation;
currents; deepwater circulation; geostrophic
currents; ocean currents; paleocirculation; sub-
tropical gyre; thermohaline circulation
- ocean circulation, deepwater
paleoceanography, 154B16:239–253
upper Miocene, 138B42:821–838
- ocean circulation, interbasin
Islas Orcadas Rise, 114B1:21
Meteor Rise, 114B1:21
- ocean circulation, sea-surface
Atlantic ocean E equatorial, 108A5:330
cooling trend, 108A7:488–489
ice buildup and intensification, 121B8:215
- ocean circulation, shallow-water, 115A1:14
- ocean circulation, surface water, productivity, 115A5:237
- ocean–continent transition
basement tectonics, 149A4:108–112; 5:143–144;
6:203–205; 7:258; 149B38:607–608
compression in Miocene, 149B41:654–656
deformation, 173A1:7–20
Eocene marker bed, 173B11:64
geophysical and geological overview, 149B1:3–23
Iberia Abyssal Plain, 149B21:377–395
magnetic anomalies, 149B43:665–674
- mantle, 173A9:293
models, 149A1:7–9
peridotites, 149B22:397–412; 32:541–552
rifting, 149B40:636–645; 47:713–733
seismic lines, 149B48:737–739
- ocean currents
carbonate crash models, 206B4:10–12
climate models, 199A3:5–9
deposition, 195B3:3–5
flow paths, 201B19:22; 202A1:75
Pacific Ocean E, 138B13:289–292
sedimentary succession, 166A10:304–305
velocity from satellite scatterometer data, 203A1:21
- ocean-desert hypothesis, dissolution gradient,
130A30:524
- Ocean Drilling Program (ODP)
in situ basement drilling, 206A1:3–6
structural and paleomagnetic studies, 135B19:301–
311
- ocean floors
age, 178A2:35; 180A2:5
backscattering sonar images, 131A1:11
geophysical surveys, 180A2:4–5, 10, 12; 3:13
Japan Sea, 190A1:3
morphology, 139A2:19–20; 6:165
photograph, 134A4:49–52; 194A1:66
SCREECH transect 2, 210A5:6
seabed morphology, 163X_A8:4
submersible observations, 134A4:43–53
tholeiites, 180B1:3
- ocean fronts
boundary, 127/128B(1)10:155–169
calcareous nannofossils, 127/128B(1)10:167–168;
(2)77:1220
currents, 181A1:41, 45; 181B1:1–111
intermediate water, 181B1:57
Japan Sea, 127/128B(1)10:155, 167; 27:458
ocean circulation, 189A1:76
oscillations, 127/128B(1)10:167–168
oxygen isotope curves, 127/128B(1)10:168
paleoclimatology, 181B1:48–51, 106
productivity, 127/128B(1)10:167
Quaternary, 189B1:19
sea-surface isotherms, 127/128B(1)10:167
See also ocean fronts; Subtropical Front
- ocean island basalts (OIB)
chrome spinel, 120B(1)9:127
composition, 129B19:378–379
eruptive environment, 129B5:148
geochemistry, 126B31:479, 483; 129B19:374–378;
21:409–411
incompatible element enrichment, 129B18:348–351
magma mixing, 121B31:592; 32:637
Ninetyeast Ridge, 121A15:531; 121B30:579, 581
petrology, 129B5:146
Raggatt Basin, 120B(1)9:129–130
rare earths, 125B28:500
Site 749, 120A8:269
submarine sills, 129B18:349–351
sulfur isotopes, 126B29:449
trace elements, 120B(1)3:56–59; 6:79

- volcanism, 120B(1)10:135
- “within-plate” rocks, 129B5:144
- ocean islands, drilling, 157A2:11–25
- ocean plateaus
 - ancient oceanic crust, 129B32:574
 - Aptian, 130B48:791–795
 - igneous provinces, 183A1:1–101; 183B1:1–45
 - isochrons, 165B15:235
 - origin, 130A9:448–449, 458–459; 130B1:3–22; 192B1:8
 - paleomagnetism, 130B4:58
 - tectonics, 130B25:429–430
 - tholeiitic basalts, 129B18:349
 - volcanism, 165A1:9–10; 6:293–295; 7:347; 165B20:308; 183A1:36–38
 - volume vs. age, 198A1:99
 - See also* large igneous provinces; plateaus
- ocean ridges, deformation, 134A4:43
- Ocean Seismic Network (OSN)
 - location, 200A4:89
 - observatories, 203A1:6–7
 - spectra, 203A1:23
- ocean seismic networks
 - frequency, 203A1:23
 - geochemical logs, 136B13:153–157
 - objectives, 136A1:3–8
 - operations, 200A1:4–5; 4:89–91
 - spectra, 200A1:39–40
- ocean transition, juvenile-to-mature
 - Exmouth Plateau, 123B43:805
 - Gascoyne Abyssal Plain, 123B43:807
 - Indian Ocean, 123B41:788–789
 - tectonic subsidence, 123B43:803
- ocean trenches, oceanography, 131A7:273–274
- oceanic anoxic events
 - age, 192B1:4–5
 - Albian, 192A3:14; 207A1:4; 10:7
 - Aptian, 192A3:14
 - Aptian/Albian boundary, 192A3:14
 - Aptian–Albian interval, 192A3:14
 - authigenesis, 144B26:465–466
 - biomarkers, 198A3:130
 - black shale, 210A3:97–98; 210B10:5; 13:21
 - carbon isotopes, 207B1:21
 - Cenomanian–Turonian anoxic event, 183B3:3–4
 - Cenomanian/Turonian boundary, 174AXS_A(summary):2, 10–11; 207A1:5; 207B1:6–7; 2:6–12
 - claystone, 198A10:3
 - Cretaceous, 113B15:195; 143B7:107–108; 198B1:1–47
 - critical events, 198B16:7; 207A1:25–26; 210A1:18–19, 31; 3:54–55, 97–98
 - deposition, 143B37:591; 171B_A6:262; 171B_B(introduction):2–4; 198B1:5–6; 16:5–8; 3:32; 9:29
 - dissolution, 146B(2)12:179
 - geochemistry, 198A3:27–29
 - hydrocarbons, 198A3:130
 - isotopes, 143B6:103
 - Jurassic basement, 185A1:18
 - lithology, 174AXS_A6:44–46; 198A3:16–17; 210A3:43
 - lower Aptian, 198A1:21–22, 54, 64–66, 128; 3:5–7
 - lower Aptian–Valanginian interval, 198A1:48–49
 - mid-Cretaceous, 198A1:13–14, 98; 207A1:62
 - molybdenum, 124B29:390–392
 - organic carbon, 207A1:4–6
 - organic geochemistry, 198A3:128
 - photograph, 198A9:43; 10:19; 198B16:18
 - Quaternary, 146B(2)3:41–42
 - radiolarians, 159B29:364–367
 - sedimentation, 207A1:4; 210B1:27–28
 - sedimentology, 198B16:1–31
 - sediments, 198A1:47; 9:3–4, 26
 - Selli event, 198B7:6
 - Site 699, 114A6:163
 - Site 701, 114A8:391
 - Site 704, 114A11:631; 12:802; 114B25:468
 - stratigraphy, 207A1:17
 - upper Coniacian, 207A1:4
 - Valanginian, 185B1:10
 - volcanism, 198B16:9–11
 - well-logging, 198A3:110
 - See also* Bonarelli event; Cenomanian/Turonian anoxic boundary event; oxygenation; Paquier events; Selli event; Weissert oceanic anoxic event
- oceanic conveyors, paleoclimatology, 146B(2)23:323
- oceanic crust. *See* crust, oceanic
- oceanic currents. *See* ocean currents
- oceanic gateways
 - Fram Strait, 151A1:19–20
 - margins, 152A1:15–16
 - See also* gateways
- oceanic Layer 3
 - fluid flow, 176B4:1–56
 - lower oceanic crust, 176B5:3–4
 - volcaniclastics, 180B8:11
 - See also* Layer 3
- oceanic plates, hydrology, 205B6:3
- oceanic succession, stratigraphy, 152B41:509, 515
- oceanization, Japan Sea, 128A1:11
- oceanography
 - currents, 178A2:6–7; 9:32; 178B7:2; 198A1:9–10, 202A1:4–6; 9:31; 10:30; 11:25; 12:26; 13:23
 - freshwater discharge, 169S_A2:15–16
 - hemipelagic mud, 168B5:51
 - Norwegian-Greenland Sea, 151A1:17–18; 151B1:12–13
 - Pacific Ocean N, 167A(1)1:6
 - seabed mooring, 178A4:30–31, 94–96
 - seismic stratigraphy, 182A2:3–4
 - See also* global ocean; paleoceanography; upper ocean signatures; world ocean
- ochre, hydrothermal
 - sediments, 129B1:8
 - Site 801, 129B1:10
- ochre, siliceous, 129B1:16
- octadecenoic acid
 - gas chromatograms, 205B8:17
 - sapropels, 160B22:277
- odd/even carbon number preference index
 - sediments, 202B7:3–4
 - vs. depth, 202B7:9
- ODP. *See* Ocean Drilling Program

- ODTZ. *See* opal dissolution transition zone
- oedometer tests
 consolidation, 144B56:987–989
 sediments, 131B21:265–267; 141B33:407–416;
 160B48:630–632, 637–640
 vs. effective vertical stress, 141B33:410–411
- Oeschger event. *See* Dansgaard-Oeschger Events
- offlap
 Cenozoic, 174A_A3:95–96
 log-core correlation, 174A_A5:184
 Oligocene, 174AXS_A(summary):8
 seismic stratigraphy, 174A_A1:11–12
 sequence stratigraphy, 174A_B(synthesis):2–5
 thrust folding, 204B2:19
- offscraping, New Hebrides island arc, 134B35:612–613
- offset beds, Formation MicroScanner imagery, 180B24:5–6
- offset depths
 boreholes, 171B_A3:76; 4:140; 5:206; 6:283; 7:334
 composite depths, 177A4:8–9
 Site 1033, 169S_A2:37
 Site 1934, 169S_A2:45
- offset planes, photograph, 204A8:45
- offshore environment, lithology, 174AXS_A2:17–18;
 3:17, 29, 34; 7:17, 49
- offshore sequences, Cenozoic, 182A1:4–5
- offshore studies, compared with onshore studies,
 150X_B1:10–11
- Oi-1 isotope event. *See* marine oxygen isotope events
- OIB. *See* ocean island basalts
- oikocrysts
 basalts, 140A2:56–58
 clinopyroxenes, 135A(1)4:137; 147A3:58; 147B2:28,
 37
 lithology, 176A3:19; 209A6:6–7
 photograph, 135A(1)4:142; 147B2:36; 153A4:132;
 6:221, 227–228, 230, 237; 153B6:118
 photomicrograph, 176B4:29–30; 209A10:62
 recrystallization, 153B6:101–105
- oil
 abundance, 180B10:5–7
 See also petroleum
- oil drops
 abundance, 180B10:5–7
 photomicrograph, 180B10:28
- oil seeps, geochemistry, 135B41:667–676
- oil shale
 organic carbon, 107A8:436
 sediment contact, 107B34:578
 Site 652, 107A8:440
 See also alginite; black shale
- oil window, sediments, 139B28:503–504; 189A5:45; 7:41
- oldest Dryas, paleoclimatology, 161B36:466
- Olduvai/Matuyama boundary
 magnetic reversals, 133A(1)8:264
 sediments, 202A11:14
- Olduvai normal event. *See* Olduvai Subchron
- Olduvai Subchron
 Antarctic regions, 114B5:98
 Baffin Bay, 105A4:111
 biomagnetostratigraphy, 152A12:265–266
 biostratigraphy, 128A4:162; 151A5:74; 10:332;
 162B2:27–28; 177A4:13, 5:14; 6:9; 7:10;
 181A3:12; 7:15; 186B7:4; 188B13:11
 carbonate/oxygen isotope stratigraphy, 104B6:194
 carbonate platforms, 166A3:31–33
 chronostratigraphy, 177A5:18; 8:15
 core-log comparison, 189A5:37
 correlation, 132B2:29; 3:42–43; 4:51, 55; 133B40:585;
 49:729; 145A6:232–234; 8:350; 145B34:498–501
 Galicia margin W, 103A8:144
 gamma ray logs, 127/128B(1)23:403
 Labrador Sea, 105A6:709–716
 magnetic excursions, 172A6:266
 magnetic intensity, 151A6:127
 magnetic polarity, 131A6:156; 135A(1)5:209; 7:311;
 9:423–424; 11:615–619; 145A4:101; 180A5:29–
 30; 6:51–52; 12:35; 181A7:28; 9:17; 199A8:11–
 12
 magnetostratigraphy, 104A4:166; 104B40:843, 848;
 130B32:548–551; 134B26:468–471; 135B54:860;
 136B3:47–48; 138B38:781, 786–788, 791, 794–
 795; 145B1:11; 4:64–66; 149A4:72; 5:129;
 152A11:221; 152B22:268; 161A4:77;
 161B13:161; 162A3:71, 73; 4:112; 5:154, 156;
 6:189; 7:241; 10:358; 162B8:114, 116; 9:135;
 10:151, 154–155, 158; 18:243; 166A6:89;
 167A(1)6:141; 7:165; 172A5:187; 173B11:9–13;
 174A_A4:120; 175A3:70; 9:252–253; 11:322;
 14:442; 178A4:18; 5:16; 8:11; 180A1:4; 9:37;
 181A6:22–23; 8:25; 182A7:18; 188B13:8;
 191A1:16–17; 194A4:19; 9:13; 201B16:4
 Owen Ridge, 117B7:165
 oxygen isotope stratigraphy, 121B15:306
 paleoclimatology, 175B(synthesis):43–44
 paleomagnetism, 133A(1)5:153; 6:187; 15:629–631
 remanent magnetization, 160A5:104; 6:136; 7:179;
 160B5:67; 189A6:41; 7:37
 sedimentation rates, 121B15:302–303; 127/
 128B(2)62:975; 189B10:13, 16, 19
 sediments, 149B16:323; 157A4:75–76; 5:121; 6:153;
 164A7:189; 9:292; 177A4:14; 182A1:13, 26;
 6:24; 184A1:23; 6:9; 7:13; 9:15; 198A3:25;
 202A7:16; 11:14
 sequence stratigraphy, 166A3:37
 Sierra Leone Rise, 108A13:931
 Site 704, 114B21:382
 Site 724, 117A121:396; 117B5:131; 7:167
 Site 726, 117B7:172
 Site 727, 117B5:131
 Site 745, 119B43:752–753
 Site 765, 123A4:126
 Site 782, 125B32:548
 Site 784, 125B32:551
 Site 794, 127/128B(1)12:218, 224; (2)62:970
 Site 795, 127A5:174, 199; 127/128B(2)62:970;
 77:1223
 Site 797, 127/128B(1)12:224
 Site 798, 127/128B(1)10:164; 32:564; (2)62:974;
 77:1224; 128A1:30; 4:125, 170
 Site 799, 127/128B(2)62:974; 77:1224; 128A5:314
 Site 807, 130A9:409

- Site 851, 138A(2)16:912–916, 924–927
 Site 852, 138A(2)17:990–993
 Site 853, 138A(2)18:1038–1041
 Site 854, 138A(2)19:1075–1077
 Site 859, 141A6:93
 Sites 724 and 727–728 correlation, 117B7:175
 spreading rates, 135B51:828
 stable isotopes, 114B23:415
 stratigraphy, 151A10:331
 timescales, 138B6:87
 volcanoclastics, 157A7:349
 vs. gamma ray attenuation density, 138A(1)6:87–88
- oleananes
 Baffin Bay, 105B15:233–238
 biomarkers, 151B23:412
 maturation, 139B24:458
 organic-rich layers, 161B30:396
 sediments, 139B15:339
- olefins
 toluene content correlation, 121B23:461–462
See also alkenes
- oleic acid, sapropels, 160B22:279
- Oligocene
 ages, 130A5:134; 130B9:121; 174AX_A1:41;
 174AXS_A2:55; 189B9:1–21
 alnoite, 192B1:4
 bathyal-pelagic carbonates, 160B32:410, 412
 benthic foraminifers, 154A8:353; 182A4:22; 10:20;
 199A12:19; 199B8:1–26
 biofacies, 174A_B(synthesis):7
 biosiliceous event, 159A9:312
 biostratigraphy, 134A8:150–152; 9:195–198;
 134B10:200; 135A(1)11:606–614; 135B16:245–
 266; 17:273–274; 143B3:38; 145A5:141; 6:222–
 223; 145B2:21–41; 6:117–132; 9:161;
 149A6:178; 7:227; 150A2:17; 150B26:435–437;
 150X_B10:111–127; 151B7:131–132; 35:641;
 152B11:147–160; 156B3:49–56; 157B29:505;
 165A3:66; 174A_A5:163–168; 175A15:465–468;
 182A1:10–12, 29, 40; 182B2:1–24; 184A9:12–14;
 198A1:56; 199B1:7–8; 202A7:11–15; 208A1:28
 calcareous nannofossils, 130A7:239; 9:397–399;
 143B33:567–569; 145B39:599–632; 149B4:79–
 145; 154A4:73; 5:163–164; 165A4:153–154;
 174A_B5:1–8, 16; 177B8:1–9; 198A4:17–18;
 198B2:4–5
 carbon isotopes, 154B35:501–505
 carbonates, 151B24:415–434; 182B4:24; 12:1–11;
 189A1:22–23
 chronostratigraphy, 130B15:269–279; 133B20:281–
 289
 clay mineralogy, 150X_B5:60–63; 182B14:3; 189B11:5
 clays, 152B4:41–43, 46
 contourites, 149A5:145; 149B45:695–696
 correlation, 182B2:16
 cyclostratigraphy, 154B5:101–114
 datum levels, 195A4:24–26
 debris flows, 174A_B(synthesis):8
 deepwater agglutinated foraminifers, 162B11:169–
 177
 deepwater circulation, 198B1:6–8
 diagenesis, 150B20:361–376
 diatomites, 159B18:184–185
 diatoms, 152B19:249–250; 188A4:23–24; 189A4:15;
 199B6:1–25
 dinocysts, 189A3:32; 5:31–35; 189B2:7–8
 dinoflagellates, 151B12:203–242; 14:257–281;
 162B7:99–109; 184B7:1–29
 Drake (Powell) Passage opening, 181B1:46
 drift deposition, 145B38:588–589
 erosion, 181B1:56
 foraminifers, 150B1:7, 9, 12; 174AXS_A2:36–37;
 181A8:17–18; 199A11:14–18; 207A5:15; 6:16–
 17; 208A4:12; 5:10; 6:15; 7:14
 gateway history, 189B1:11–17
 geologic history, 189A1:2; 207A1:4
 glaciation, 178B(synthesis):20–21; 188A1:4
 glacioeustacy, 183B7:8
 glauconite sands, 150X_A1:17
 glaucony lithofacies, 150B10:171–187
 hemipelagic sediments, 189A1:7
 hiatuses, 160B40:522–523; 189B1:3
 Indian and Pacific ocean correlation, 130B13:254
 inorganic sediments, 154B36:507–526
 lithofacies, 133A(1)3:59–60; 4:91
 lithology, 130A7:230–231; 8:297–307; 133A(1)4:93–
 94; 17:779; 134A8:146–147; 9:186, 188–192;
 11:329–331; 135A(1)11:594–595; 136A4:40;
 143A2:24–26; 9:305; 145A5:130, 132; 8:342;
 149A5:122–127; 150A6:75; 7:146–147; 8:216;
 10:318–319; 150X_A1:23; 150X_B8:81–87;
 151A6:119–122; 7:166–171; 152A6:60–62; 8:92–
 93; 11:202–204; 154A5:157; 7:283–284; 8:344–
 346; 156A7:203; 159A5:78–80; 162A8:263–266;
 165A4:146–148; 174A_A5:161; 174AXS_A2:52;
 3:34; 175A15:460; 177A5:6; 181A7:9; 182A1:9–
 10; 183A1:23, 34; 5:4–5; 185A3:6; 189A3:12–14;
 5:12–13; 7:13–14; 192A3:5–7; 198A6:9–10;
 199A8:5; 9:5–6; 10:6–7; 11:8; 12:8–9; 13:6–7;
 15:4–5; 202A7:7–9; 208A3:6–7; 4:6–8; 5:5–6;
 6:6–10; 7:6–9; 8:5–7
 magnetic properties, 151A6:127; 154B37:529–532
 magnetite, 130B31:537
 magnetostratigraphy, 130A5:130; 150X_B22:295–304;
 152B20:253–257; 182A1:23; 6:60; 199A1:73;
 10:13; 11:21; 207A6:23; 208A7:20
 Marshall Paraconformity, 181B1:41–42
 mass accumulation rates, 154A8:363; 198A4:22
 models, 189B1:6
 nannofossil ooze/chalk, 199A1:10
 nannofossils, 174AXS_A3:43; 177A5:10; 181B2:1–22;
 182A4:15–16; 6:14–15; 8:13–14; 10:15; 12:10–
 11; 183A8:6–9; 183B8:17; 188B11:6–7;
 189A5:21–22; 197A3:10–11; 199A11:13; 12:14–
 16; 13:11; 207A6:12; 208A4:9–10; 5:8–9; 6:11–
 12
 ocean circulation, 154A1:9; 154B30:451–461
 ooze, 134B25:448–449
 organic biomarkers, 199B25:1–11
 paleoceanography, 151B5:76; 7:127–131; 183B1:22–
 23; 199A1:7, 19–20; 199B17:1–12

paleoclimatology, 133B21:291–300; 150X_B5:63;
 178A1:5; 181B1:5, 48–51; 184A1:6–7; 199B1:10–
 12
 paleoenvironment, 152B24:289; 181A8:22–23;
 183A1:26; 189A5:16
 paleogeography, 160B50:672–673
 paleomagnetism, 129B23:440; 130A9:410–412;
 159B20:201–203
 palynomorphs, 174AXS_A3:38; 188B2:4, 6; 3:6
 photograph, 174A_A5:162; 192A3:52
 photomicrograph, 192A3:51
 planktonic foraminifers, 130B9:113–136;
 133A(1)4:97; 150B28:455–460; 154A4:77; 8:351;
 154B2:48–51, 55; 160B30:380, 383–384;
 165A4:156; 174AX_A1:35; 174AXS_A3:38–39;
 182A4:19–20; 8:16; 10:17–18; 12:13; 182B3:38;
 4:1–28; 183A5:10–13; 8:10–11; 184B9:1–26
 plate tectonics, 149B1:4; 170B7:2
 porosity, 174A_B7:4–5
 radiolarians, 130A9:316, 407–408; 150B3:44;
 174AXS_A3:44; 183B5:1–48; 189A3:30; 5:28–29;
 189B10:3; 199A13:16–17; 199B3:15
 reflection, 183A6:61
 remanent magnetization, 210A1:19
 sea level changes, 174AXS_A(summary):9
 sediment drift, 181B1:56–57
 sedimentary basins, 134A1:15
 sedimentation, 150B9:158, 160, 164; 152A13:281–
 282; 154A8:393; 183A7:9; 184A1:33–34; 9:16;
 184B10:10; 189B10:8–18; 199A12:24
 sediments, 150X_B4:50; 181B3:1–21; 195A1:21
 seismic stratigraphy, 166A10:328; 182A1:25;
 188B8:9–10; 199A4:5
 sequence stratigraphy, 150B5:65–95; 150X_B15:187–
 206; 174A_B(synthesis):3; 174AXS_A2:57
 silicoflagellates, 145B41:639–643; 183A8:12;
 199B9:1–29
 Site 803, 130A5:121
 Site 804, 130A6:183
 sponge spicules, 152B13:191–199
 stable isotopes, 145B38:581, 583
 strata geometry, 174AXS_A(summary):8
 stratigraphy, 150X_B1:7–10; 174AXS_A2:3, 43;
 188B1:8–9; 189A1:11–12; 197A1:10–12
 strontium isotope stratigraphy, 150B6:97–114;
 24:425–428; 174AXS_A2:42–43; 3:44–48
 tectonics, 134B2:32; 160B54:773
 terrigenous and pelagic sediments, 183B7:1–31
 Texas interval reflectors, 130A7:276
 thrust stacks, 160B50:672
 turbidite infill, 157B30:523–531
 unconformities, 145B37:569; 184B9:18; 208A1:5
 vegetation, 151B15:289–296
 volcanic ash, 151B18:333–350; 165A3:80
 zoning, 160B30:384
 See also early Oligocene *Braarudosphaera* blooms; early
 Oligocene glacial maximum; Eocene–Holocene
 interval; Eocene/Oligocene boundary; Eocene–
 Oligocene interval; Eocene–Oligocene interval;
 Janjukian; late Oligocene climate optimum; Oli-

gocene–Miocene interval; Paleocene–Oligocene
 interval
 Oligocene, lower
 age vs. depth, 182B14:4; 198A6:53; 7:49; 8:45
 basaltic ashes, 183A6:35–36
 benthic foraminifers, 182A6:20–21; 189A3:28;
 199A14:12
 biostratigraphy, 182A1:22–23, 34; 182B4:7; 189A3:23;
 210A3:85; 210B13:17–19
 clastic sediments, 182A6:9–10
 clays and carbonates, 182A6:10
 core photograph, 199A12:51
 diatoms, 183B6:1–21; 189A7:31; 207B5:1–5
 dinocysts, 189B3:1–48
 eustatic lowering, 174AXS_A(summary):14
 foraminifers, 207A4:13
 gateways, 189B1:34–35
 glaciation, 208A1:8
 hiatuses, 177B(synthesis):4
 inorganic geochemistry, 181B9:6
 lithology, 173A9:269–272; 174AX_A1:20–23;
 174AXS_A2:27–29; 181A8:7; 182A6:6–8; 10:9–
 10; 183A8:3–5; 184A9:10–11; 188A4:11–12;
 197A3:7–8; 198A5:12–13; 199A14:6; 207A4:5–7;
 5:4–5; 6:4; 7:4–5; 210A3:21–25, 58–59
 magnetic polarity, 183A7:48; 185A4:36
 magnetostratigraphy, 192A3:34; 199A12:59–60;
 207A4:17–18; 7:19
 major elements, 181B1:27–28
 nannofossil ooze, 199A1:32; 10:3–4
 nannofossils, 181A7:16–17; 181B2:1–22; 184B10:5–7;
 198B3:1–15; 199A14:10–12; 207A4:12; 7:12;
 208A1:104
 neritic environment, 189B10:4
 ocean circulation, 189A1:91
 paleoenvironment, 210B13:23–24
 palynomorphs, 189A7:32
 planktonic foraminifers, 182B4:6; 183A6:18;
 189A3:27–28; 5:25–26; 6:31; 7:28
 postrift sedimentation, 210B1:32–33
 radiolarians, 183B5:29; 199B5:1–74; 207A4:16
 remanent magnetization, 183A6:54
 sedimentation rates, 189A5:35; 189B10:15
 silica, 154B33:483–490
 silicoflagellates, 183B11:4–5
 stable isotopes, 182B14:4, 8
 terranes, 189A1:9
 See also early Oligocene *Braarudosphaera* blooms; early
 Oligocene glacial maximum; Rupelian
 Oligocene, lower–middle, biostratigraphy, 183A6:18
 Oligocene, lower/middle boundary, sedimentation rates,
 189A5:35
 Oligocene, lower/upper boundary
 age models, 189B3:6; 9:8
 biostratigraphy, 189A3:22; 7:23; 189B3:9; 202A7:12;
 208A6:15
 hiatuses, 189A6:36
 sedimentation rates, 189B10:18
 Oligocene, lowermost, paleoenvironment, 151A13:418
 Oligocene, middle
 biostratigraphy, 207A7:14

- hydrothermal alteration, 180B2:13
 lithology, 181A1:24
 synthetic seismograms, 183A7:55
- Oligocene, middle-upper, biostratigraphy, 183B8:1-19
- Oligocene, upper
 algae, 133B5:68
 biostratigraphy, 129B12:231; 181A8:17; 182A8:18-19;
 183A6:18; 183B9:7; 189A3:27; 5:25; 7:27-28;
 192A3:21-25; 199A12:17; 199B1:7; 4:1-13;
 202A8:16; 208A5:10; 8:14
 drift deposits, 181B1:45
 hiatuses, 149B6:189
 lithofacies models, 174AXS_A(summary):26
 lithology, 174AXS_A2:25-26; 181A8:7; 182A8:7-8;
 183A6:5-6; 7:5-6; 184A9:9-10; 189A6:13-14;
 194A7:10; 195A4:11-14; 197A3:8-9; 198A7:10;
 201A12:7-10; 202A8:10-11
 magnetostratigraphy, 202B3:1-15
 ocean circulation, 189A1:92
 paleoceanography, 165B18:275-283
 paleoenvironment, 151A13:418; 181A8:21-22;
 195A4:18-19
 paleoequator position, 199A1:64
 strontium isotopes, 144B21:411-417
 warming, 177B(synthesis):39
See also Chattian; Duntroonian; late Oligocene climate optimum; Whaingaroan
- Oligocene, upper/lower boundary, biostratigraphy, 208A5:10
- Oligocene/Eocene boundary, biostratigraphy, 195A4:24
- Oligocene glacial event Oi-1. *See* marine oxygen isotope Oi-1 glacial event
- Oligocene-Holocene interval, biostratigraphy, 183B8:1-19
- Oligocene-lower Miocene interval, magnetostratigraphy, 199A11:55
- Oligocene (lower)/Neogene boundary, unconformities, 188A4:15
- Oligocene/Miocene boundary
 age models, 189B3:6
 bioevents, 149B4:89-90
 biostratigraphy, 120B(2)30:542; 35:641; 126A2:21;
 126B16:247; 18:280; 130B13:245-246;
 159B32:4135; 37:516; 177A5:10, 15-16;
 177B7:4-5; 182A4:15, 19; 182B2:6; 10:6-7, 20;
 184B7:7-8; 189A3:28-29; 5:25; 6:31; 7:25-28;
 189B2:7; 7:3, 6; 194A4:12; 199A11:12-13;
 12:14, 17-20; 199B8:3; 19:1-13; 202A6:145;
 7:14; 8:16; 208A5:10; 6:11; 7:11
 carbon isotopes, 154B35:501-505; 165B18:280-281
 Celebes Sea, 124B34:461
 correlation and age, 145B41:640-641
 geochemistry, 154B36:515-516
 glacial-interglacial cycles, 108B11:163
 glaciation, 188A1:4
 hiatuses, 183B9:11-12; 189B1:6
 lithology, 189A6:13-14; 199A12:12; 207A6:5
 magnetic susceptibility, 154B37:529-532
 magnetobiostratigraphy, 120B(2)31:562
 magnetostratigraphy, 181A8:26; 207A6:23; 208A6:21;
 7:20; 208B1:6
- marine oxygen isotope Oi events, 199B1:11
 oxygen isotopes, 177B(synthesis):7
 paleoceanography, 183B1:23-24
 paleoclimatology, 154B28:433-439; 199A1:18-19
 petrophysical units, 166A10:319
 pore water gradients, 126B34:519-520
 sedimentation, 165A4:162-163; 183B7:10; 184A1:34;
 189A5:35; 6:26; 189B10:9, 12, 15, 18
 seismic stratigraphy, 166A10:328
 Sierra Leone Rise, 108B16:287-289
 Site 765, 123B18:395; 38:725
 stable isotopes, 199B19:1-13
 stratigraphy, 108B16:289-290; 154B29:441-449
See also Chattian; Duntroonian; Waitakian; Whaingaroan
- Oligocene-Miocene interval
 age models, 189B9:7
 biostratigraphy, 130A7:245; 159B36:493-508;
 183B4:26; 5:27; 199A1:34, 38; 11:4; 12:4-5;
 208A8:11, 14
 chalk, 192A3:18
 digital photograph, 199A1:75
 paleoceanography, 181A1:1-80; 184B9:8-9
 seismic reflectors, 150X_B1:7
 stratigraphy, 174AXS_A(summary):3-5
 strontium isotopes, 150X_B12:147-159
 unconformities, 184B10:10
 volcanic ash, 192A3:18
- Oligocene-Pleistocene interval
 biostratigraphy, 208A3:10-13
 deposition, 202A8:56
 eustatic changes, 174A_A1:5-16
- Oligocene-Quaternary interval
 biostratigraphy, 189B10:4
 ooze, 189B10:3
- oligoclase
 replacement, 206B7:3
 resorption, 157B14:212
 secondary minerals, 137/140B15:172, 178-179
 veins, 176B9:20
- oligonucleotide probe hybridization, 148B14:209
- oligotrophic environment
 biogeography, 198B7:14
 sapropels, 160B3:34
- olistoliths
 evolution, 149B36:584-585
 tectonics, 160B54:757, 759
- olistostromes
 accretionary prisms, 131B27:338
 Aptian, 149B36:579, 583-584
 basement, 173A1:12
 basins, 161B5:73
 lithofacies, 149B45:691-693
 serpentinite breccia, 149B36:577-591
 tectonics, 160B54:757, 759, 773
- olivine aggregate, photomicrograph, 179A4:112
- olivine-amphibole-talc assemblage, 209A6:17-18
- olivine basalts. *See* basalts, olivine
- olivine blades, photomicrograph, 193B6:7-9, 14
- olivine-clinopyroxene-quartz diagram
 basalts, 142B6:45-46

- pseudoternary projections, 158B17:221
 olivine crystals, photomicrograph, 192A5:80
 olivine gabbronorites. *See* gabbronorites, olivine
 olivine gabbros. *See* gabbros, olivine
 olivine glomerocrysts. *See* glomerocrysts, olivine
 olivine grains
 photomicrograph, 180B7:53–54
 volcaniclastic sand, 180B7:6
 olivine groundmass
 basalts, 192A7:7–8
 photomicrograph, 183A8:61; 197A5:54
 vs. depth, 185A3:101
 olivine kernels
 hydrothermal alteration, 209A9:8–11
 photomicrograph, 209A10:95
 olivine laths, photomicrograph, 197A1:54–55
 olivine metagabbro. *See* metagabbro, olivine
 olivine microgabbro. *See* microgabbros, olivine
 olivine microlites. *See* microlites, olivine
 olivine microphenocrysts. *See* microphenocrysts, olivine
 olivine norites. *See* norites, olivine
 olivine phenocrysts. *See* phenocrysts, olivine
 olivine-plagioclase-clinopyroxene assemblage,
 163X_A8:20
 olivine-plagioclase cotectic, 152B30:368–369
 olivine-plagioclase-phyric assemblage
 petrography, 161B27:357–359
 photograph, 161A7:312
 See also forsterite
 olivine pseudomorphs. *See* pseudomorphs, olivine
 olivine replacement, photomicrograph, 206A3:205–206,
 214, 226
 olivine triple junctions, lithology, 209A6:3–8
 olivines
 actual vs. calculated composition, 187B2:6–7, 22, 26
 alteration, 111A3:61–62, 66–67; 111B2:17–18; 3:28;
 6:62, 64; 121A11:323; 121B30:563–564;
 124B9:191; 127/128B(2)55:885–886; 140A2:67–
 68, 168–170; 147A3:68–71; 4:128–131;
 147B11:216; 148A2:45–53; 148B12:172–173;
 152B35:426; 153A4:151; 5:195–196; 6:235–236;
 7:265–267; 157B12:150; 168A4:73; 176A3:39,
 136; 176B6:4–6; 183A4:21; 183B15:6–9;
 187A1:10; 8:7–8; 9:6–7; 13:8–11; 14:5;
 200A3:24–27; 205A4:32–33
 Atlantis Bank, 118A6:89, 99, 107
 basaltic andesites, 135B32:559–562
 basaltic mousse, 126B9:391
 basalts, 127/128B(2)54:873–874; 131A6:152–153;
 131B16:200; 134A8:153; 135A(1)4:131–134,
 139–146; 135B34:592–593; 137A2:24–27;
 139B6:81–84; 142A4:57–60; 142B1:4;
 143B16:264–267; 144A4:132–135; 144B29:497–
 502; 145B22:336; 152B30:361–372; 33:404–405;
 158B17:214–215; 163B9:99–112; 168A5:116–
 119; 169A5:213–214; 6:271; 180A7:16;
 183A4:17–19; 185A3:14–15; 191A4:27–35;
 197A5:10; 206A1:28–30; 3:56
 basement, 121A13:465; 123A4:179; 126B26:389, 399;
 27:406–407; 28:439; 183A1:17; 8:18; 9:17
 Bengal Fan, 116B6:65, 69
 boninites, 125B10:178
 Cagayan Ridge, 124A11:255; 12:306–307, 313–314;
 14:402–403
 calcite replacement, 113B1:14
 calcium carbonate, 121B11:246
 carbonate accumulation rates, 121B23:466; 44:940
 Celebes Sea, 124A10:168–169; 13:359–369
 chemical composition, 103B16:242; 17:255–256, 259;
 106/109B2:13; 3:20, 23; 4:30–37; 5:50; 8:90–91,
 94; 118B3:52–53, 69; 125B27:459; 126B10:162–
 163; 127/128B(2)53:866; 129B5:140;
 134B16:344–346; 135B27:489–503; 29:520–521,
 524; 30:535–536, 539, 541; 33:574–577;
 148B11:153–154
 chemical modifications, 153B11:259
 chilled margins, 168A5:120, 122
 chrysotile association, 106/109B17:214
 clasts, 173A7:189–190; 9:283–284
 composition, 136B4:61; 147B2:28, 40–41; 8:167, 175;
 157B22:389; 163X_A8:21; 176B(synthesis):52,
 61; 6:21; 179B2:53–55; 187B1:14; 209B4:19–20
 constructional volcanism, 121B44:933
 Costa Rica Rift, 111A3:52–56, 120, 124
 crust, 152B28:344
 crystal-plastic fabric, 153A3:95
 crystallization, 106/109B2:14; 111A3:59; 115A2:35;
 115B6:64; 118B3:49; 4:90, 95; 158B17:220–225
 crystallographic orientation, 118B22:403–404, 407
 cumulates, 163B7:74; 179B2:52
 deformation features, 118A6:130
 diabases, 137/140B1:3–9; 168A5:120; 210A1:15
 dilation fissure, 106/109B17:214
 dislocation slip, 118B22:404, 406
 dissolution, 102B10:143; 165B19:294; 209B5:37
 dunites, 195A3:17–18
 electron microprobe data, 106/109B11:129; 111B2:23;
 113B1:7; 135B24:398; 25:469; 143B15:250–251;
 147B9:179; 209B2:1–13
 exsolution, 176A3:20
 fabric, 147B20:359–361
 ferrosilite vs. anorthite in plagioclase, 118B1:18
 foliated gabbros, 118B22:402
 forsterite, 107B5:77, 79; 118B3:62, 68; 127/
 128B(2)52:850; 153B10:217; 12:273; 17:338
 fractionation, 111B1:13; 142B6:42–43; 152B27:316–
 317; 30:369–371
 fractures, 118B22:402
 gabbros, 147A3:60–61; 147B1:5–6; 12:228;
 153A4:126–141; 5:181–193; 6:218–231;
 153B17:335–336; 27:472–473, 476–477;
 176B(synthesis):40; 6:66–68; 8:3–14; 10:14;
 179A4:30–42; 179B(synthesis):8–11, 22
 Galicia margin W, 103A8:131, 158
 geochemistry, 115B3:38; 131B16:202; 134B21:407;
 157B12:163; 18:316, 318; 22:394–395;
 176B8:31–35; 10:58; 195B6:6–7
 Gortani Ridge, 107B4:58, 60; 5:77
 grain size, 153A3:62; 176A3:16–17, 113–114
 groundmass, 106/109A4:52–56
 growth rate, 118B2:29

- harzburgites, 125B27:453; 153B12:266–267;
195A3:16–17; 195B1:10; 209A3:5–6
- high-temperature deformation, 125B30:523
- high-temperature microscopic veins, 176B4:25–26
- hyaloclastite, 143B16:266
- hydration, 103B16:243, 247–249
- hydrothermal alteration, 137/140B18:207–216;
192A1:19–21; 209A5:12; 6:11–14; 9:7–11;
209B4:3–4
- iddingsite replacement, 113B1:10–14; 118B8:163
- iddingsitization, 200B3:3
- igneous rocks, 143B15:247, 251; 176A1:11
- impregnation, 209A6:21–22
- inclusions, 157B22:375–401; 23:403–410
- iron, 103B12:197–198
- iron/magnesium ratio in olivine vs. iron/magnesium
ratio in coexisting liquid, 127/128B(2)53:866
- kink bands, 125B30:523
- lamprophyres, 180A7:15
- lanthanum/ytterbium ratio, 153B10:231
- lava flows, 163A4:38, 42; 197A3:15; 6:12–13
- lherzolites, 195A3:18
- lithology, 118B1:4; 157A8:406–407; 168A4:59–70;
176A3:15; 176B6:3–9; 179A2:5; 4:31–34;
180B6:11; 183A1:28, 31–33; 187A6:3–5; 7:4;
198A9:12–13; 200A3:10, 15–19; 209A5:4–8; 6:3–
10; 7:3–4; 9:3–7; 10:4–10
- lower sill complex, 210A3:69
- magnesium-calcium-silicon-oxygen-hydrogen sys-
tem, 209A6:77
- magnesium number, 118B26:481–483; 153B5:98;
12:272; 179B(synthesis):91
- magnesium oxide, 153B14:300
- magnetic fabrics, 106/109B22:265
- magnetic susceptibility, 176B11:25–26
- major elements, 149B21:384; 179B(synthesis):120–
122; 2:66–68
- Marsili Basin, 107B4:51, 60
- melting, 106/109B8:100; 125B10:183; 127/
128B(2)53:861–862; 56:895
- metagabbro, 118B8:173
- metamorphism, 153B22:401–404
- microphenocrysts, 183A6:47; 200B3:32
- microstructure, 106/109B5:48–49, 54
- mid-ocean-ridge basalt, 187B2:3
- mineral chemistry, 115B3:29; 118B1:14–15;
124B20:282, 284; 125B16:299; 144B31:514,
516; 33:570; 147B7:141; 9:174–179;
152B33:406, 414; 153B26:459–460; 28:497;
31:536, 539; 157B22:378–379; 176B10:15;
179B2:10, 13–14; 200B3:7; 209B4:4
- mineral/melt partition, 153B10:219
- mineral modes, 147B16:117
- minor elements, 118B3:56
- modal abundance, 118A5:116; 118B2:31; 42:82;
135B24:386–389; 25:430–455; 153A4:150;
6:241; 176A3:17–18, 115
- Nazareth Bank, 115A4:146–149; 115B3:26
- neoblasts, 118B22:401, 403
- nickel oxide, 153B27:482–483
- nickel vs. forsterite content, 118B1:17
- Norwegian Sea, 104A4:90–91, 94
- occurrence, 129B5:138, 140, 148
- olivine gabbros, 118B4:90; 176B(synthesis):12–14;
4:48
- on-axis samples, 187B3:8–9
- ophiolites, 179A4:13
- orthopyroxene equilibrium, 106/109B4:40
- orthopyroxenite, 209A3:7–8
- oxides vs. depth, 153B10:212
- oxygen isotopes, 121B11:246; 153B26:466
- parent magmas, 127/128B(2)52:855–856
- percentage vs. depth, 148A3:138
- peridotites, 125B27:450–451, 457, 459, 474–478;
28:500; 30:522–523; 149A4:77, 79; 149B22:401;
153A3:52–60; 153B13:277–278; 14:290; 29:506–
507
- petrography, 125B10:172; 129B17:307; 18:346–347;
19:363; 135A(1)5:220, 222; 9:433–448; 137/
140B3:35–36; 143A6:141; 7:223–224;
144A10:371–374; 11:430; 147A4:122–123;
147B6:106; 157A7:355; 168B10:120–121
- petrology, 134B19:382; 139A5:130, 132, 135–138;
144A6:236; 152A7:81; 158A10:200; 168A5:116–
119, 123, 126; 179A4:38–41; 179B(synthe-
sis):40–47; 2:6–9, 14–21; 191A1:15
- phase equilibria, 153B31:536; 163B9:103–105
- phenocrysts, 106/109A4:52–53; 115B3:26, 36;
118A3:49; 121A10:275; 125B10:201;
135A(1)7:319–323; 9:440; 139A6:235;
139B6:84–85; 140A2:54; 147A3:67; 163A3:27–
28; 5:57, 64
- photograph, 139A5:142; 142A3:47; 147A4:126, 138–
139; 147B7:154–155; 148A2:40; 149B21:388;
153A3:58, 64, 81–82, 89–90, 94; 4:127–135,
138–139, 144, 154, 167; 5:183–188, 196–200,
203, 206; 6:220–237, 244; 7:262–266; 153B2:33–
34; 3:48; 5:84; 6:118–121; 7:138; 8:146–147;
9:158, 160; 11:248; 20:384; 21:392–393; 22:401;
29:520; 158A7:120, 130; 8:162; 10:199;
158B18:246; 173A9:281; 176A1:61; 3:148;
187A15:21; 209A5:89; 6:50, 55, 82, 92; 7:55;
10:50, 60–61
- photomicrograph, 149B32:552; 157A7:358; 8:416;
157B16:291; 163A5:60; 163X_A4:20;
168A5:137; 169A5:215; 6:271; 173A9:283;
176A3:117, 127, 129, 206–207; 176B4:23–24,
28–30, 39–40; 179A4:108, 138; 179B2:27, 29,
34; 180A6:127; 10:32; 183A1:92; 6:131; 8:52,
55, 58; 9:82–83, 87–88; 185A3:92, 98; 187A5:13;
7:16; 8:26; 10:9; 11:15, 19; 13:19; 14:16; 15:32;
187B5:18; 191A4:101, 108; 192A1:62; 3:87–92,
95–98, 104, 112–114, 117–119; 7:31; 195A3:80,
85, 93; 4:103, 108; 197A1:37; 3:80, 91; 4:50–52;
5:48, 65; 6:37–39; 198A9:63–64; 200A3:82, 100–
101; 205A1:57; 4:92, 110; 209A1:122; 3:64, 99–
100; 5:58, 68, 72, 85, 105, 137; 6:48–49, 56–59,
67–70, 76, 81, 84–85, 88; 7:51, 56, 58; 9:44–49,
61–62, 70, 74; 10:62–64, 85, 93–94; 209B1:27
- picrite, 152B28:340
- plastic deformation, 118A6:104
- plutonic rocks, 118B1:6–7; 153B11:251, 254–260

- poikiloblastic texture, 125B30:523, 529
 preferred orientation, 125B30:528; 153B2:26–29;
 209B1:13
 pseudoliquidus projection, 106/109A4:63
 pseudomorphism, 118B27:550; 119B16:301–302;
 176A3:37
 reaction textures, 176A3:21
 recrystallization, 118B22:401, 406; 153B6:101–105;
 8:144–145
 reddish brown zone, 168B10:130
 relative abundance, 176A3:103
 relict minerals, 118A5:85
 replacement, 121B30:577
 Sardinian margin, 107B4:52, 58, 60
 scan, 176A3:125
 secondary minerals, 140A2:64–69
 sediments, 147B27:452
 Serocki Volcano, 106/109A4:50–52
 serpentinization, 125B27:449; 153B20:382;
 173A9:280–282
 shape, 113A6:200
 sill zoning, 210A3:67
 Site 701, 114A8:404
 Site 713, 115A10:754; 115B3:36
 Site 715, 115B2:19
 Site 747, 120A6:133, 136
 Site 748, 120A7:222
 Site 749, 120A8:268–269
 Site 794, 127/128B(2):52:850
 Site 797, 127/128B(2):52:850
 size, 106/109B8:86; 11:125
 smectite replacement, 111A3:59
 Snake Pit hydrothermal area, 106/109B12:148
 stratigraphic correlation, 163X_A8:12–13
 sulfides, 176B7:6–9
 Sulu Sea, 124A11:253–265; 124B19:253
 Sumisu Rift basalts, 126B26:396
 table-shaped crystals, 125B30:528–529
 talc and magnetite replacement, 118A6:138
 talc association, 106/109B17:214
 textures, 106/109A8:209, 213; 118A6:117; 153B2:24–
 28
 tholeiites, 129B17:317, 328–329; 19:371
 titanium oxide vs. vanadium, 205B9:25
 troctolites and gabbros, 147B14:265
 Tyrrhenian Sea, 107B3:42; 4:58, 60–63, 77
 ultramafic rocks, 125A6:102; 125B26:436;
 147B14:257, 260; 149B21:379–380; 153A3:57,
 60, 72
 vitric tuff, 200A1:21
 volcanics, 115B3:39; 134A12:412–414; 134B19:380–
 381; 136B4:55; 141B28:351; 163X_A8:7–8
 volcanoclastics, 126B10:158, 160; 136B7:87; 180B7:7
 vs. depth, 113B3:30; 153A4:151; 6:239; 7:267;
 153B10:225; 176B6:13–14, 30; 10:45–51;
 179A4:94–96; 179B2:26, 47–48; 183A4:46; 5:99;
 192A3:79
 vs. feldspar, 153B21:395
 vs. magnesium number, 149B21:383
 websterite, 153B16:321–331
 X-ray diffraction data, 113B3:29
 xenoliths, 193B6:2–3
See also basalts; clinopyroxene-olivine-opaque miner-
 als; clinopyroxene-olivine-plagioclase plots; di-
 opside; forsterite; gabbroic rocks; gabbronorites;
 gabbros; metagabbro; microgabbros; plagioclase/
 olivine ratio; quartz-olivine-clinopyroxene
 assemblage; quartz-olivine-plagioclase assem-
 blage; ultramafic rocks
 olivines, altered
 alteration vs. depth, 176A3:139
 basement units, 183A9:24
 photograph, 192A5:47–48
 photomicrograph, 183A5:104
 olivines, altered groundmass, photomicrograph,
 197A6:51
 olivines, “Chinese lantern,” pillow basalt, 187A4:3
 olivines, chromium-rich, sediments, 180B6:17–24
 olivines, cumulus, olivine iron-titanium oxide gabbros,
 118B3:72
 olivines, degree of recrystallization, vs. degree of recryst-
 tallization of plagioclase, 153B8:145
 olivines, elongate, photomicrograph, 192A7:29
 olivines, euhedral, photomicrograph, 185A3:94, 105;
 197A1:71; 6:36, 40–42; 200A3:83, 94; 4:107;
 209A8:8
 olivines, experimental, composition, 152B30:363
 olivines, kinked, photograph, 147B7:154–155
 olivines, magnesian
 formation of low-calcium pyroxene, 118B2:33
 modal data, 135B24:387
 volcanic rocks, 135A(1)9:450
 olivines, modal, vs. depth, 135A(1)9:440–441
 olivines, occluded, photomicrograph, 209A9:69
 olivines, poikilitic, lithology, 209A7:4
 olivines, recrystallized, composition, 153B5:81–82, 90–
 93
 olivines, serpentinized
 alteration, 134A9:236
 photograph, 149B23:417; 153A3:51
 photomicrograph, 209A3:60–62, 66; 9:61
 olivine, skeletal
 petrography, 187A8:5–6
 phenocrysts, 135A(1)6:275
 photomicrograph, 187A8:34; 15:23; 200A3:83
 olivines, subhedral, photomicrograph, 209A6:74
 omission surfaces
 hardgrounds, 133B25:360
 lithology, 182A9:6
 omithine, Oman margin, 117B32:538
 oncoids
 Barremian, 143A7:209
 dolomitization, 143A7:205–206
 limestone, 144B18:367
 lithofacies, 144B17:340–359
 packstone, 103B6:63, 65, 71, 74, 77; 8:107
 photograph, 144A11:423
 Site 639, 103B6:64, 67–68, 74, 88
 wackestone, 103B6:67; 8:107
 wackestone-floatstone series, 103B6:66, 71
 wackestone-packstone series, 103B11:176
 oncoids, micritic, Cretaceous, 143B10:137

- oncolites
 - abundance, 144B6:131
 - Cretaceous, 143B10:139
 - guyots, 144B53:945
 - limestone, 144B18:368
 - photograph, 160A6:133; 7:173
- ONDO system (temperature monitoring system)
 - operations, 124E_A16:104
 - schematic diagram, 131A6:241
 - Site 808, 131A6:199–201
- onlaps
 - seismic stratigraphy, 174A_A1:11–12
 - tectonics, 204B2:9–10
 - thrust folding, 204B2:19
- onlapping fill, seismic units, 178A7:24–26
- onshore quarry testing program, 191A5:9–10
- onshore studies
 - comparison with offshore studies, 150X_B1:10–11
 - geochemistry, 143A4:75–81
- oo-oncosparite, Cretaceous, 143B10:137
- ooids
 - genesis, 143B8:113–116
 - lithofacies, 143B30:473–475, 486–488
 - photomicrograph, 129B6:164
 - sediments, 129B5:147–148; 6:160
 - turbidites, 166B5:57–60
- ooids, reworked, Cretaceous, 143B10:136–137
- oolites
 - Cretaceous, 143B9:124–125
 - deposition, 143B30:480–482
 - Lower Cretaceous, 143B8:111–118
 - photograph, 143B9:131
- oolites, silicified, lithofacies, 143B30:477, 489–490
- oomicrite, Cretaceous, 143B10:137
- oopelsparite, Cretaceous, 143B10:136–137
- oosparite
 - Cretaceous, 143B10:137
 - oolite, 143B8:114
- ooze
 - alternations, 166B16:170–171
 - Aptian, 171B_A1:5–6
 - biogenic sediments, 201B14:8–11
 - bioturbation, 138A(1)10:206
 - burial curve, 181A7:92
 - Cenozoic, 134B1:7–8; 145A3:61
 - clay mineralogy, 133B30:465–466
 - core photograph, 178B18:10
 - deformation, 159B1:5–6
 - deposition, 166A9:242–243
 - faults, 159A6:186–187
 - hydrothermal fields, 158A1:7
 - in situ properties, 130B36:607–622
 - lithology, 132A4:81–82; 133A(1)10:353–356, 359–361; 11:423–427; 17:776–779; 18:808; 133B27:385; 134B2:21, 23, 27; 138A(1)10:193, 195; 148B35:437–439; 169S_A2:21; 178A4:4–5, 10–11; 181A1:21–23, 29; 4:5–7; 182A1:26; 184A6:4–5; 191A1:14
 - Little Bahama Bank, 101A7:221
 - magnetization, 133B50:751
 - Messinian–Pliocene interval, 160B36:458
 - Miocene, 189B1:3; 192A1:13
 - Miocene–Pleistocene interval, 191A1:5–6
 - Neogene, 103A9:226, 231, 272; 10:462; 149B12:283–284
 - Oligocene, 130B15:271; 134B25:448–449
 - organic matter, Rock-Eval pyrolysis, 171B_A3:75–77; 6:294
 - oxygen isotopes, 160B2:17–18
 - photograph, 138A(1)9:137; (2)14:754; 16:908–910; 157A5:117; 160A5:99
 - photomicrograph, 198A3:73
 - Pleistocene, 189B1:4
 - Pliocene, 103A10:437; 130B27:453–470; 189B1:4
 - Pliocene–Pleistocene interval, 180A1:18–19
 - Pliocene–Quaternary interval, 160A12:416–417
 - porosity, 130B39:655–656
 - sedimentation, 159A8:276–277; 166A9:266–267; 178A1:15–17; 2:16–17; 183A1:37, 39
 - sediments, 177A1:13, 16; 198A6:5
 - seismic reflections, 103A11:544; 154A3:45; 199A4:4–5
 - seismic stratigraphic units, 162A3:87
 - stratigraphic sequences, 133B25:355, 358–360
 - tectonics, 181A1:4
 - thermal conductivity, 103A10:434
 - upper Neogene, 181B1:51–54
 - velocity, 103A10:434–435
 - See also* limestone–ooze transition
- ooze, bioclastic
 - lithology, 133A(1)15:621–622
 - sediments, 123B4:140
- ooze, biogenic
 - Cornaglia Terrace, 107B14:225
 - Costa Rica Rift, 111B8:87
 - Sardinian margin, 107B14:224, 226
- ooze, bluish green pyrite-rich nannofossil, 184A7:8
- ooze, Bruniopsis
 - anoxic environment indicator, 114A12:802
 - Site 701, 114A8:369–378, 386–391, 402, 408, 413; 114B25:472
- ooze, calcareous
 - Atlantic Ocean E tropical, 108B5:75
 - Bengal Fan, 116A4:94; 116B5:55–56
 - biostratigraphy, 132B2:15–36
 - Campanian–Holocene interval, 208A1:1–112
 - carbonate compensation depth, 113A5:90
 - carbonate content, 121B24:475
 - compressional wave velocity, 130B40:664–670
 - consolidation, 138B16:358–359
 - diagenesis and compaction, 121B12:258
 - Exuma Sound, 101A1:7–8; 10:389
 - lithology, 104A4:72; 170A3:56–57; 171B_A3:51–54; 6:246; 192A1:15
 - Little Bahama Bank, 101A1:7, 8; 6:121–124, 175; 8:273; 101B12:187–188
 - loading, 130B41:673–686
 - lower Eocene, 199A1:29
 - lower Miocene biostratigraphy, 192A4:11–12
 - Mascarene Plateau, 115A5:236
 - mass accumulation rates, 114B33:627
 - mineralogical sources, 118B7:149
 - Miocene–Pleistocene interval, 103B37:660

- Ninetyeast Ridge, 121A11:311
 Norwegian Sea, 104A4:64; 104B18:359; 40:831
 occurrence, 103A8:150
 photograph, 170A3:59; 7:227; 171B_A6:250
 physical properties, 114B35:662; 121A11:337;
 121B12:254; 123A4:165; 5:307; 130B42:687–
 694
 quinones, 205B8:18
 scanning electron microscopy, 175B9:12
 sedimentary unit, 187A4:5
 sediments, 129B4:131; 187A5:6
 Site 641, 103A12:576
 Site 698, 114A5:99
 Site 699, 114A6:159; 114B35:657
 Site 700, 114A7:261; 114B35:657
 Site 701, 114A8:372
 Site 702, 114A9:490–491
 Site 703, 114A10:556, 585
 Site 704, 114A11:628–631, 634; 114B5:98; 33:625
 Site 737, 119A6:168
 Site 744, 119A12:480, 482
 Site 766, 123A5:280
 Straits of Florida, 101A1:8
 thickness, 101A10:390
 transition to chalk, 123B41:784
 well-logging, 173A3:51–61
 with clay, 123A4:76
 ooze, calcareous biogenic, lithology, 181A1:16–18;
 189A3:10–11
 ooze, calcareous calcitic marly, Oman margin,
 117A4:47–48; 13:422, 434; 15:468
 ooze, calcareous diatom, Site 704, 114A11:628–631, 634;
 114B33:625
 ooze, calcareous nannofossil
 lithology, 182A12:4–5; 206A3:24–26
 Site 716, 115A13:1008
 Site 738, 119A7:235, 237
 ooze, calcareous nannofossil foraminiferal, 182A12:5
 ooze, calcareous pelagic, lithology, 202A7:6–7
 ooze, calcareous siliceous, Site 704, 114A11:634
 ooze, carbonate
 color, 113A10:536
 diagenesis and magnetism, 101B23:333–338
 grain size, 182B15:3–4
 lithology, 177A6:5–6; 180A7:7–8; 182A1:9–10, 17, 37;
 4:5–9; 5:4; 183A1:30; 4:4, 11–13; 7:4–5
 Little Bahama Bank, 101A7:236
 magnetic properties, 101B23:328–330
 Ninetyeast Ridge, 121A11:311
 Norwegian Sea, 104A4:76; 105A4:89
 oligotrophic flux rate, 121B44:943–944
 paleolatitude, 101B23:338–341
 winnowing, 121A13:471; 121B10:229
 ooze, chalky nannofossil, lithology, 208A4:6–8
 ooze, clay- and ash-bearing siliceous, lithology,
 185A4:11–14
 ooze, clay-bearing nannofossil, lithology, 181A8:5–6;
 202A12:8–10; 208A4:6–8; 7:6–9
 ooze, clay nannofossil foraminiferal, lithology,
 138A(2)18:1028; 171B_A6:246; 175A14:433–434;
 198A10:5, 7; 202A12:7
 ooze, clay-rich, Site 737, 119B14:276
 ooze, clay-rich diatom
 lithology, 201A11:8–10; 12:7
 photograph, 201A12:29–30
 ooze, clayey
 Bengal Fan, 116B23:279; 31:379, 381
 Eocene–Oligocene interval, 105A6:729–730
 Galicia margin W, 103B36:637
 lithology, 105A6:676–690; 171B_A6:246; 7:323;
 202A8:7–9
 occurrence, 103A11:537
 paleomagnetism, 103A11:540
 photograph, 171B_A6:249
 velocity, 103A11:542
 ooze, clayey calcareous, lithology, 111A4:257, 259
 ooze, clayey diatom
 glacial–interglacial cycles, 119B12:226–233
 Kerguelen sediment ridge, 119A15:539
 lithology, 111A4:258; 167A(1)10:246–247; 12:318–
 320; 127/128B(2)78:1230–1232
 Site 699, 114A6:156, 193; 114B33:612
 Site 704, 114A11:634
 Site 794, 127A4:90
 Site 796, 127A6:264
 Site 797, 127A7:341–343
 Site 799, 128A5:260
 vs. diatomaceous clay color differences, 119B12:226
 ooze, clayey nannofossil
 Galicia margin W, 103B36:639–640
 lithology, 105A5:435; 111A4:258; 157A4:63; 5:108;
 160A10:339–340; 11:381; 12:421–423; 13:452–
 454; 14:469–471; 165A4:142; 6:297–298;
 167A(1)5:89; 7:161; 16:468; 172A4:84–92;
 5:164–165, 168–174; 175A9:233; 11:315–317;
 12:344–345, 351; 181A7:5–7; 9:4–6; 181B3:2–3;
 184A7:5–9; 198A3:12–13; 5:10–12; 6:7–10; 8:7–
 12; 9:9–10; 199A8:5–6; 202A8:7–9; 13:6–7;
 206A3:23–24; 207A8:4–6; 208A3:6–9; 8:6–7
 Ninetyeast Ridge, 121A12:367
 photograph, 172A6:256; 198A4:41–42
 Pleistocene, 103B33:559
 Site 701, 114A8:373
 ooze, clayey nannofossil siliceous, 114A6:156–157
 ooze, clayey radiolarian, lithology, 199A10:7; 13:7
 ooze, clayey radiolarian nannofossil, lithology, 199A11:8
 ooze, clayey siliceous, lithology, 111A4:257; 145A8:342
 ooze, coarse-grained foraminiferal, 201A8:32
 ooze, diatom
 aluminum, 127A6:306–307
 bacterial activity, 119B19:384
 Bengal Fan, 116A4:55
 burrows, 113A5:96
 cold-water characteristics, 119B6:112
 color, 113A5:97; 10:536; 119A13:480; 14:509–510
 compaction rate and porosity, 119A7:271
 composition, 113A8:342
 consolidation, 113B17:213–221
 correlation, 186B8:12
 Costa Rica Rift, 111A1:11–15
 dating, 113A5:95; 6:189; 11:614–615; 12:713;
 113B5:57–58, 61–62

- deglaciation, 178B34:4
density, 113A5:101
deposition, 119A5:130, 155; 119B6:112
diagenetic dolomite, 201B13:5–6
enhanced productivity, 119B6:107; 127A6:267
Eocene, 104A4:75
foraminiferal transition, 113A6:192
glacial marine dropstone, 113A5:96
ice rafting, 119B7:120; 120B(1)14:208
initiation, 119B10:195
inorganic geochemistry, 119A9:358
laminae, 146B(2)6:78–81; 161A6:194
lithology, 104A4:76; 5:466–467; 127/128B(2)78:1230–1232; 145A3:43–44; 5:128, 130; 7:306; 8:340–341; 160A12:423; 160B28:352–355; 161A6:193; 7:304–305; 167A(1)10:245–247; 13:357–359; 15:437; 170A3:53; 7:220–221; 177A5:6; 6:5–6; 7:4–5; 8:7–8; 9:6–7; 181A5:5–6; 183A1:27; 188A3:11–12; 197A3:8; 199A12:10; 14:6; 15:4–5; 201A8:9; 10:10–11; 202A9:8–11
magnetic properties, 119A5:135; 119B43:752; 120B(1)15:237
Miocene, 104A4:75; 119B10:190
Norwegian Sea, 104A7:753; 104B3:60; 7:235; 17:339; 18:359; 40:831; 45:954; 52:1077
organic carbon content, 119B6:113
oxygenation conditions, 127/128B(1)20:350
Paleogene–Neogene interval, 104A4:82
permeability, 191B5:1–16
photograph, 161A6:193–194; 169S_A2:21, 25; 170A3:55–59; 186B8:12; 191A1:38; 4:63–69; 201A8:32
photomicrograph, 160B27:342, 346; 161A6:194; 191A4:62; 201B14:20–21
physical properties, 113A5:101; 10:546; 117A11:361; 119A5:144; 6:199, 202; 7:267; 9:365; 13:495; 14:520; 119B19:383; 120B(1)13:180
Pisco Basin W, 112A18:708
Pliocene, 119A6:185
porcellanite, 177A1:25–26
postglacial sediments, 178B18:4–6
Prydz Bay, 119A9:372, 374, 380–381; 119B6:89, 93, 125–126
quinones, 205B8:18
sapropels, 160B28:349–363
sedimentation, 119A7:253; 13:490; 119B18:353; 127A5:204; 183A5:8
sediments, 175B10:10
seismic stratigraphy, 119A6:215
Sierra Leone Rise, 108A10:743
Site 680, 112B26:441–442
Site 688, 112A20:879
Site 699, 114A6:156–157, 193; 114B33:612–613; 37:687
Site 700, 114A7:259, 300
Site 701, 114A8:364, 369–371, 378, 402, 405, 408; 114B33:614
Site 702, 114A9:489
Site 704, 114A11:628, 630, 634; 114B33:625
Site 736, 119A5:129–130; 119B46:825
Site 737, 119A6:165
Site 738, 119A7:235
Site 744, 119A13:501–502; 119B44:771
Site 745, 119A14:508
Site 747, 120A6:97–98, 147
Site 748, 120A7:168
Site 749, 120A8:243
Site 750, 120A9:287
Site 751, 120A10:346
Site 794, 127A4:90; 128A3:77
Site 795, 127A5:186
Site 797, 127A7:341–343
Site 798, 128A4:124, 137–138
Site 799, 128A5:256, 260
sonication, 201B14:16
textural ranges, 119A6:167–168
thickness, 113A11:615
total organic and inorganic carbon, 201B8:3–5
velocity, 119B2:34; 120A7:216
vs. depth, 113A10:535; 11:614
X-ray diffraction data, 201A6:39
See also ooze, Bruniopsis
ooze, diatom-bearing nannofossil, lithology, 202A13:7–8
ooze, diatom calcareous, Site 704, 114A11:628, 631
ooze, diatom clayey, lithology, 138A(1)9:124–126
ooze, diatom foraminiferal
 lithology, 183A5:4, 13, 20; 6:4, 23, 35; 8:3–5
 Site 703, 114A10:555
ooze, diatom nannofossil, lithology, 167A(1)10:245–247, 177A4:6–7; 5:5; 6:5–6; 183A8:3–5; 202A9:8–11; 11:8–10; 11:5–10; 12:8–10
ooze, diatom nannofossil clayey
 dating, 113A8:334
 lithology, 138A(1)9:124–126; 11:269–271, 275; (2)14:740–743; 16:896–897; 138B40:811–813; 44:866; 201A12:9
 Norwegian Sea, 104B3:60
 photograph, 138A(2)15:834
 Site 699, 114A6:156
 Site 702, 114A9:489
 Site 704, 114B33:625
 Site 737, 119A6:168
 vs. depth, 113A8:334
ooze, diatom radiolarian
 lithology, 191A4:10–13; 198A3:12–13
 photograph, 138A(1)9:138; 191A1:39
 vs. depth, 113B6:74
ooze, diatom radiolarian clayey, lithology, 138A(1)9:124–126; 11:269–271, 275
ooze, diatom radiolarian nannofossil, lithology, 138A(2)13:681–684
ooze, diatom-rich nannofossil
 lithology, 175A12:346; 201A7:8–10; 11:9–10
 photomicrograph, 201B14:20
 X-ray diffraction data, 201A7:45
ooze, *Ethmodiscus*, backscattered electron imagery, 167B15:207–212
ooze, foraminiferal
 Bengal Fan, 116A4:55; 5:101
 Broken Ridge, 121A13:469; 121B8:211–212
 Cagayan Ridge, 124A12:302
 dating, 113B5:58

- diatom transition, 113A6:192
digital image, 208A7:40
geochemistry, 147B26:449
lithofacies, 133A(1)4:86–91
lithology, 133A(1)4:84–85; 5:144; 10:351; 134A8:145–146; 9:193; 11:325–326; 135A(1)4:99, 101; 164A6:107–108; 7:179–182; 165A3:53–55; 171B_A6:246; 7:323; 177A7:4–5; 180A7:7–8; 182A1:19–20, 33, 37; 5:4–7; 8:5–6; 10:7–8; 184A4:8–10; 189A3:11; 201A8:9; 207A7:5
Mascarene Plateau, 115A5:240
Nazareth Bank, 115A4:130–131
paleomagnetism, 115A4:140; 143B38:593–594
petrography, 147A3:55–56
photograph, 133A(1)10:360; 134A11:328; 162A4:108; 164A7:181
Site 703, 114A10:555
Site 744, 119B26:480
Site 747, 120A6:97–98
ooze, foraminiferal bioclastic, lithology, 133A(1)6:183
ooze, foraminiferal clayey nannofossil, lithology, 138A(2)18:1028
ooze, foraminiferal diatom, lithology, 177A6:5–6; 8:7–8
ooze, foraminiferal diatom nannofossil, lithology, 183A7:4–5, 13–14
ooze, foraminiferal graded, lithology, 135A(1)7:296–297
ooze, foraminiferal micritic, lithology, 165A5:238–241
ooze, foraminiferal nannofossil
Broken Ridge, 121A4:84; 6:116, 147; 8:194
compression index, 121B12:258
cores, 147A4:114
Eocene–Pleistocene interval, 130A9:375–383
lithology, 111A4:257; 133A(1)6:181–182; 7:206–207; 8:254–256; 9:305–307; 138A(2)15:811–813; 16:896–897; 17:971–974; 144A10:338–339; 159A7:226–227; 160A10:339–340; 166A10:295–296; 11:352; 171B_A3:51–54; 175A14:433–434; 15:460; 177A3:4–5; 180A8:4; 181A4:4–5; 183A1:30; 6:5; 8:3–5; 9:5–6; 189A6:12; 7:11–12; 192A3:5; 207A6:4; 208A3:5–6; 4:6–8; 5:4–6; 6:6–10; 7:5–6; 8:5–7
Mascarene Plateau, 115A5:240
Miocene, 117A3:38
Miocene–Holocene interval, 117A3:39
Miocene–Pleistocene interval, 130A7:230–232
Owen Ridge, 117A19:588
petrography, 161B1:6
photograph, 138B29:636; 144A10:349; 160A14:471; 177A3:24
physical properties, 121A7:185
preservation, 199B18:3–4
sediments, 177A1:21
Site 700, 114A7:306
Site 703, 114A10:555–559
Site 806, 130A8:298–307
upwelling, 117A3:40
ooze, grain-supported, lithology, 182A1:17
ooze, green diatom, photograph, 201A11:45
ooze, hemipelagic, sedimentation, 175B9:1–23
ooze, hemipelagic diatomaceous, lithology, 186A4:15–16
ooze, high-carbonate, Indian Ocean, 115B30:579
ooze, interbedded
diamictite siliceous, 119B48:882
diatomaceous, 186A1:9
ooze, iron- and manganese-rich nannofossil, photomicrograph, 201B14:21
ooze, laminated, porosity, 178B30:6
ooze, laminated diatom
benthic foraminifers, 138B32:665–673
correlation, 138B1:12–13
deglaciation, 178B34:3–4
depositional model, 138B30:643
downhole positions, 138B31:649
high-resolution sedimentology, 138B31:647–663
Holocene climate optimum, 178B34:4
ichnofacies, 138B10:178–179
lithology, 138A(2)16:896–897; 201A9:7–9
Miocene, 138B29:631–632
Neogene, 138B29:635
Neoglacial, 178B34:4
paleoceanography, 138B30:641–645
photograph, 138A(2)15:849; 138B29:638; 178A7:36; 199A15:21; 202A12:54
plate-motion backtracked diagram, 138B30:642
sedimentary record, 138B31:650
ooze, laminated mud-bearing diatom, lithology, 178A7:4–6
ooze, lithified pelagic, photograph, 144A7:266
ooze, marly calcareous, Oman margin, 117A14:442
ooze, marly nannofossil
magnetic susceptibility, 117A14:455
Oman margin, 117A11:322; 15:468; 16:496, 499; 17:547–548; 117B11:225
ooze, massive
bioturbated muddy diatoms, 178A7:4–10
diatom, 178A7:40
ooze, matrix-supported, lithology, 182A1:17
ooze, metalliferous, sedimentation, 138A(1)11:314–315
ooze, metalliferous oxide, lithology, 199A8:6
ooze, micritic, lithology, 133A(1)4:91, 93; 10:351; 12:461–462; 165A5:238–241
ooze, micritic nannofossil
lithology, 165A5:238–241, 245–248
Site 700, 114A7:259, 300
Site 704, 114A11:636
ooze, mud diatom
lithology, 177A6:5–6; 8:8
photograph, 177A8:37, 40
ooze, mud nannofossil, lithology, 177A4:6–7
ooze, nannofossil
acoustic impedance, 115A6:422
Albian–Cenomanian interval, 123A5:288
Atlantic Ocean E tropical, 108A2:35; 3:112, 114; 4:226; 5:330–331; 6:412–413; 7:492
Bengal Fan, 116A4:56
bioturbation, 107B38:650; 119B13:246–247
Broken Ridge, 121A9:238–239; 13:457–458, 469
carbonate content, 115A5:240; 8:589; 123A5:305
chalk transition, 119A7:269, 271; 13:500
clay mineralogy, 117B4:92; 9:185–186
color, 113A6:193–194; 117B12:239–241; 119A13:482
compaction rate and porosity, 119A7:271

- composition, 113A8:340; 160B1:5–6
 compressional wave velocity, 117A10:275
 Cornaglia Terrace, 107A9:609–610
 Costa Rica Rift, 111A3:114; 111B16:178, 180
 dark/light bed contacts, 121A12:367–368
 dating, 113A5:95; 6:189; 113B5:57–58
 De Marchi Seamount, 107A12:959, 961
 debris flows, 134A4:45
 density, 104A4:177
 depositional environment, 107B38:642; 115A5:244
 diagenetic activity, 117A8:179–180
 electron microscopy, 160B34:443–444
 Eocene–Oligocene interval, 105A6:729–730
 Eocene–Pleistocene interval, 130A9:375–383
 Formation MicroScanner imagery, 160B47:616
 Galicia margin W, 103A9:221–222, 230, 254–255,
 277, 290–291; 10:416–417; 103B36:637
 gamma rays, 103A9:271; 10:445
 geochemistry, 132B6:69–79
 glaciation, 120B(1)12:164
 Gortani Ridge, 107A11:884; 107B38:626
 hydraulic rebound, 199B12:3
 ice-rafted debris, 120B(2)56:1015–1016
 index properties, 160B48:636
 Indus Fan, 117A8:159; 117B11:222
 Kerguelen Sediment Ridge, 119A15:541
 lithofacies, 133A(1)4:86–91; 160B37:469
 lithology, 104A4:65–67, 70–72, 76; 105A6:676–690;
 133A(1)4:84–85; 8:256–257; 10:351;
 138A(1)9:126–127; 10:198; 11:269–271, 275,
 280; 12:339–344; (2)13:681–684; 19:1065–1066;
 143A9:305–306; 144A10:339; 145A5:130, 132;
 149A4:47–58; 5:118–124; 149B6:152–155;
 7:218–220; 154A4:60; 5:156; 6:235–236;
 154B18:283; 22:341; 157A5:108, 112; 6:138,
 143; 10:507; 157B12:173; 27:464; 159A7:226–
 227; 160A5:92–93; 6:129–130; 7:160–161;
 8:220–222; 9:294–295; 10:339–340; 11:381;
 12:421–423; 13:452–454; 14:469–474;
 160B34:438; 161A4:59–64; 5:118–120, 128;
 6:191–193; 7:304–305; 8:357–358, 361;
 162A3:55, 58, 61, 64–65; 4:101, 105–108; 5:146,
 149, 152; 6:181, 184; 8:261; 165A3:53, 55;
 5:238; 6:298–300; 166A8:177; 9:238–240;
 10:295–296; 11:350–355; 167A(1)4:55–57; 5:87,
 89, 92; 7:161; 10:246–247; 15:437–438; 16:465–
 468; 171B_A3:51–54; 4:98–99; 5:175, 179–181;
 6:246; 7:323–324; 172A5:164–165, 168–174;
 175A13:395; 14:433–434; 15:460; 177A1:21;
 4:6–7; 5:5–7; 7:4–5; 180A5:7; 6:8; 7:7–8; 9:6;
 180B6:5; 181A1:17–18, 21–23; 4:6; 5:5–6; 7:5–7;
 8:5–6; 9:5–6; 182A1:17–22, 31, 37, 39; 4:6, 9;
 5:4–7; 6:4–6; 8:5–8; 11:5; 182B9:2–7; 183A1:23;
 3:4–5; 4:4; 5:4–5; 7:5–6, 13–14; 184A9:8;
 189A3:10–11; 4:6–9; 5:10–12; 6:12–13; 7:11–12;
 197A3:8; 198A3:12–13; 4:9–13; 5:10–13; 6:7–10;
 7:8–10; 8:7–12; 9:9–10; 10:5, 7; 199A10:6; 11:7–
 8; 12:8–9; 13:6–10; 14:6; 15:5; 201A6:8–11;
 10:9–10; 12:9; 202A7:6–7; 8:9–11; 9:8–11; 10:6–
 10; 11:5–10; 12:8–10; 207A4:5–6; 5:4–5; 7:5;
 8:4–6; 208A3:5–9; 4:6–8; 5:4–6; 6:6–10; 7:5–9;
 8:5–9
 lower Eocene–upper Paleocene interval, 199A1:11–12
 lower Oligocene, 199A1:32; 10:3–4
 magnetic properties, 115A4:140; 7:477; 8:603; 11:857;
 13:1012; 117A18:569; 19:604; 119B46:819–820;
 120B(1)15:231; 121A12:394
 Marsili Basin, 107B38:668
 mass accumulation rates, 121A13:464; 121B44:938
 mass flow units, 160B37:467–468
 mechanical/porosity rebound, 199B12:3–5
 mineralogy, 117A9:233; 16:529
 Miocene, 117A3:38; 121A13:470
 Miocene–Holocene interval, 117A3:39
 Miocene–Pleistocene interval, 130A5:108; 7:230–232
 mud domes, 160A1:12–14
 Nazareth Bank, 115A4:128, 131–132
 Neogene, 103A9:248–249; 103B27:468–469
 Ninetyeast Ridge, 121A10:265; 12:360; 121B10:229
 Norwegian Sea, 104A4:54; 6:622–623; 7:753;
 104B2:31; 7:235; 10:273; 18:359; 40:831;
 45:954; 52:1077
 Oligocene–lower Miocene, 199A1:10
 organic carbon, 117A18:579
 Paleogene–Neogene interval, 104A4:82
 photograph, 133A(1)10:360; 138A(2)13:688–692;
 16:913; 17:978; 149A5:125; 157A7:333; 8:405;
 160A8:230, 237, 245–246; 9:299; 13:455–456;
 14:471–476; 161A5:121–122; 162A4:107;
 170A3:57–58; 171B_A3:57; 6:250; 172A4:90;
 175A13:395–397; 15:464; 180A6:91; 9:68;
 182A6:47–48, 51, 53; 183A3:28; 189A3:68;
 7:62–63; 198A4:44; 201A11:45; 12:31; 208A4:46
 photomicrograph, 160B49:658; 198A1:131; 5:49
 physical properties, 115A7:482; 8:609–610; 10:756;
 12:937; 13:1014; 117A15:476; 19:606;
 119A13:495; 120B(1)13:180; 121A13:495
 Pliocene, 107B38:655
 porosity, 103A10:437; 104A4:177–178
 reflectance spectra, 138A(1)4:74; 199B11:9
 Sardinian margin, 107A10:757, 763, 785; 107B12:182;
 35:588–599
 sedimentation, 119A7:253–254; 13:490; 121A15:517
 seismic reflection profiles, 115A4:152; 121A10:293–
 296
 Sierra Leone Rise, 108A10:743, 795; 12:837–838
 Site 688, 112A20:880
 Site 698, 114A5:93–94, 115
 Site 699, 114A6:157, 160, 193
 Site 700, 114A7:283
 Site 701, 114A8:364, 372
 Site 702, 114A9:490
 Site 703, 114A10:557
 Site 704, 114A11:629, 631, 634; 114B33:623
 Site 708, 115A6:405–406
 Site 709, 115A7:465
 Site 710, 115A8:597
 Site 711, 115A9:661
 Site 713, 115A10:737
 Site 714, 115A11:850–851; 12:922; 115B29:541
 Site 715, 115A12:917

- Site 716, 115B35:658
 Site 721, 117A6:199–200
 Site 722, 117A10:257–258
 Site 723, 117A11:368
 Site 725, 117A13:422–423, 434
 Site 728, 117B11:225
 Site 731, 117A19:588–589
 Site 744, 119A13:483, 502; 119B44:771–772
 Site 747, 120A6:98, 147
 Site 748, 120A7:169
 Site 749, 120A8:246–248
 Site 750, 120A9:288
 Site 751, 120A10:348
 Site 765, 123A4:78
 Site 766, 123A5:277–282
 Site 785, 125A13:309, 312
 Site 787, 126A5:77
 Site 803, 130A5:109
 Site 804, 130A6:182–187
 Site 806, 130A8:298–307
 sonication, 201B14:16
 stable isotopes, 167B7:129–140
 temperature gradient, 111B8:92
 Tortonian/Messinian boundary, 107B38:642
 turbidites, 173B6:1–11
 velocity, 103A9:259, 268; 10:437; 115A12:936;
 117A18:571; 120A7:216
 volcanic ash content, 132B5:57–66
 well-logging, 117A19:623
 X-ray diffraction data, 201A6:39
 ooze, nannofossil chalk
 bioturbated volcanic ash, 113A6:194–195
 dating, 113A6:189
 ooze, nannofossil–chalk transition, Site 702, 114A9:509
 ooze, nannofossil clayey
 color, 135B52:832
 lithofacies, 135B7:101–130
 lithology, 115A8:593, 595, 610–611; 9:662; 12:922;
 123A4:78, 81; 133A(1)9:305–307; 12:460, 462;
 15:623; 135A(1)4:98–101; 5:193, 197; 6:255–
 257; 7:295–301; 8:347–349; 9:410–412; 10:500–
 501; 143A9:305; 157A7:329–333
 Miocene, 135B11:164
 ooze, nannofossil diatom
 lithology, 138A(1)12:339–344; (2)14:740–743;
 16:896–897; 197A3:8; 199A13:7; 201A7:8–10;
 8:11–12; 202A11:7–10
 Peru margin, 201B15:4–5
 photograph, 138A(2)15:849
 photomicrograph, 201B14:20
 Site 699, 114B37:687–688
 Site 702, 114A9:489–490
 Site 704, 114B33:623
 Yaquina Basin, 112A15:442
 X-ray diffraction data, 201A7:45
 ooze, nannofossil foraminiferal
 dating, 113A6:189
 lithology, 115A6:405–406; 12:922; 13:1008;
 115B29:541; 138A(1)9:126–127; 10:199;
 143A6:121; 7:193; 144A3:47; 4:111, 113; 5:151–
 152; 11:443–444; 159A5:75–77; 6:162–166;
 175A13:395; 181A4:4–5; 182A1:28, 39; 8:7;
 183A8:5–6; 189A3:11; 6:12–13; 192A1:15; 4:4–
 5; 208A5:4
 Oman margin S, 117A18:556
 osmium isotopes, 159B18:184–185
 photograph, 208A6:47
 Site 698, 114A5:94
 vs. depth, 192A4:38
 ooze, nannofossil hemipelagic, lithology,
 133A(1)16:688, 691–692
 ooze, nannofossil pteropod-bearing, lithology,
 115A13:1008
 ooze, nannofossil radiolarian
 Costa Rica Rift, 111A4:254
 lithology, 143A9:305; 199A13:6–8
 ooze, nannofossil radiolarian clayey, reflectance spectra,
 138A(1)4:74
 ooze, nannofossil radiolarian foraminiferal diatom, re-
 flectance spectra, 138A(1)4:74
 ooze, nannofossil siliceous, Site 699, 114A6:156–157,
 160, 193
 ooze, nannofossil vitric
 lithofacies, 135B3:25–27; 12:175–178
 lithology, 135A(1)10:501
 magnetostratigraphy, 135B46:737–762
 permeability, 135B49:801
 ooze, pelagic
 Cenozoic, 103A9:230–231
 coarse-material oxygen isotopes, 121B8:217–218
 consolidation, 144B56:985–990
 Costa Rica Rift, 111A2:27
 depositional environment, 121B8:212
 foraminifers, 161B15:204
 lithology, 133A(1)16:702–703; 165A3:54–55;
 183A1:27; 3:4
 Neogene, 103A10:410; 144A5:177
 photograph, 144B46:810
 sediments, 175A16:489
 well-logging, 144A10:383
 ooze, pelagic biogenic, lithology, 165A3:53–55
 ooze, pelagic calcareous, Oligocene–Quaternary,
 189B10:3
 ooze, pelagic nannofossil foraminiferal, index proper-
 ties, 144A10:376
 ooze, periplatform
 aragonite cycles, 101B16:221–222
 Campanian, 101B17:250
 carbonate formation, 115A11:848–849
 consolidation, 101B22:315–320
 deposition, 115A13:1006
 diagenesis, 101B29:462, 469; 115B35:647
 diagenetic potential, 101B20:279
 Exuma Sound, 101A1:7–8; 9:344, 356; 10:389, 392,
 395; 11:440
 fossil redeposition, 101B30:474
 geochemistry, 115B35:648–649, 654
 lithification, 101B21:306
 Little Bahama Bank, 101A1:7–8; 6:116; 7:215; 8:273,
 288; 101B11:175
 mineral composition, 101B16:221; 115A11:849;
 115B35:647–648

- Miocene, 101A11:442
 Miocene–Holocene interval, 101A8:285
 overburden stress, 101B22:315–316, 319
 permeability, 101B22:325
 photomicrograph, 101B16:230
 rapid progression, 101A9:357
 sedimentation, 101B15:215–216; 133A(1)15:625
 shear strength, 101B22:317–323
 shear wave velocity, 101B22:323–324
 slope instability, 101B22:324–325
 sources, 101B21:306; 115A11:849
 stable isotopes, 115B35:654–655
 Straits of Florida, 101A1:8
 turbidites, 101B21:305
- ooze, periplatform carbonate, 115A1:13
 ooze, pteropod clayey, lithology, 133A(1)12:460
 ooze, pyritic nannofossil, Site 704, 114A11:634
 ooze, quartz-rich diatom, lithology, 201A11:11
 ooze, radiolarian
 Atlantic Ocean E tropical, 108A5:328, 343
 burrows, 138A(1)9:135
 Costa Rica Rift, 111A3:114
 dating, 113A5:95
 density, 113A5:101
 Eocene, 199A1:22–24
 interpillow material, 185A3:25
 lithology, 145A8:340–341; 199A10:7; 12:8–11; 13:6;
 14:6–7
 lower–lower middle Eocene interval, 199A1:11
 middle Eocene, 199A1:32; 10:4
 middle–upper Eocene interval, 199A1:10–11
 missing section, 199A1:30; 9:3
 Norwegian Sea, 104A7:753; 104B7:235; 44:954;
 52:1077
 Paleogene, 199A1:9–10
 photograph, 191A4:70
 photomicrograph, 191A4:62; 201B14:20
 porosity, 113A5:101
 rebound, 199B12:5
 reflectance spectra, 199A5:17; 199B11:9
 Site 711, 115A9:664
 temperature gradient, 111B8:92
 ooze, radiolarian nannofossil, lithology, 138A(2)15:811–
 813; 17:971–974
 ooze, sandy, magnetic susceptibility, 121A8:206
 ooze, sandy silty nannofossil, lithology, 206A3:23–24
 ooze, siliceous
 Argo Abyssal Plain, 123B1:46, 48
 consolidation, 145B35:536, 538
 Costa Rica Rift, 111A3:114
 dating, 113A5:95; 6:189
 Labrador Sea, 105A6:727–731
 lithology, 104A4:71–76; 5:466–467; 120B(1)13:189;
 151A11:357–359; 167A(1)4:56–57; 5:87, 89, 92;
 191A4:15
 Neogene, 145B16:247–256
 Norwegian Sea, 104A4:54–55; 6:622–623; 7:753;
 104B7:235; 10:273; 18:359; 40:831; 45:954;
 52:1077
 origin, 114B31:592–593
 photograph, 170A7:227
 Pliocene–Quaternary interval, 123B3:34
 Quaternary, 123B2:20
 sedimentation rates, 119B42:748–749
 Site 699, 114A6:158
 Site 700, 114A7:261
 Site 701, 114A8:372
 Site 702, 114A9:490–491
 Site 703, 114A10:556, 585
 Site 704, 114A11:630–631; 114B5:97–98
 Site 732, 118A3:42, 48, 49
 temperature gradient, 111B8:92
 Vøring Plateau, 104A4:75; 7:769–770
 vs. depth, 113B6:74
 ooze, siliceous calcareous
 consolidation, 138B16:359, 362
 Site 704, 114A11:631, 634
 ooze, siliceous diatom, Site 699, 114B37:687–688
 ooze, siliceous foraminiferal nannofossil, Site 703,
 114A10:555
 ooze, siliceous nannofossil
 Costa Rica Rift, 111A4:254
 dating, 113B5:58
 lithology, 111A4:258; 170A3:56–57; 7:221, 223;
 171B_A4:98–100; 5:175, 179–180; 6:246; 7:323–
 324
 Norwegian Sea, 104A5:464, 466
 photograph, 170A3:62; 171B_A4:103
 Site 699, 114A6:193
 Site 703, 114A10:555
 Site 704, 114A11:631, 634
 Vøring Plateau, 104A7:769–770
 ooze, silicified nannofossil, lithology, 182A9:7
 ooze, silicified nannofossil foraminiferal, lithology,
 182A8:8
 ooze, silty clayey nannofossil, lithology, 180A7:10–11;
 9:8–9
 ooze, silty diatom, lithology, 183A8:3–5
 ooze, silty nannofossil, lithology, 167A(1)5:89
 ooze, spiculitic, lithology, 145A8:340
 ooze, spiculitic nannofossil, lithology, 182A4:9
 ooze, unlithified, Exuma Sound, 101A9:344
 ooze, white nannofossil
 photograph, 182B9:14
 photomicrograph, 182B9:11
 ooze–chalk–limestone transition, physical properties,
 121B12:256
 ooze–chalk transition
 biostratigraphy, 130A10:504
 Broken Ridge, 121B13:264
 diagenesis, 130A10:528, 530, 534; 192A3:19; 4:5
 Eocene–Pleistocene interval, 130A10:507–508
 lithification, 130A8:305–306
 Miocene, 130A10:506
 physical properties, 121B12:256
 sediment column, 130A7:232
 seismic reflection profiling, 121A12:414; 154A3:46
 Site 703, 114A10:557
 Site 704, 114A11:637
 summary of bathymetry, ages, and subbottom depths,
 130A9:398

- ooze–chalk transition, nannofossil
 glacial–interglacial cycles, 117A10:260
 index properties, 117A18:571
 Site 722, 117A10:257–258; 117B11:223
 Site 731, 117A19:589–591
 vs. clay-rich sequences, 117A10:275
- ooze–mud couplets, deglaciation, 178B34:4
- opal
 abundance, 113B45:807; 127/128B(1)23:398–400
 Atlantic Ocean E tropical, 108B14:212, 219–221, 226–240
 bladed texture, 113B3:37
 Broken Ridge, 121A13:471; 121B13:262, 265–267, 271
 burial at Paleocene/Eocene boundary, 199B23:2–5
 Cagayan Ridge, 124B29:389
 carbonate correlation, 119B6:113
 chimneys, 158B27:381–382
 color reflectance, 167A(1)5:109; 10:264
 comparison of data, 138B35:720
 continental rise, 178B23:1–33
 core analyses vs. log estimates, 127/128B(1)23:404; 151A5:93–94
 Cretaceous/Tertiary boundary, 121A13:468; 121B44:931
 dating, 113B5:55, 58, 61
 densification, 171A_B3:10
 density, 154B9:158–159
 deposition, 108B14:223–224; 117A9:242–243; 10:303–304; 175B(synthesis):44–45, 81
 diagenesis, 160B33:427; 205A5:18–19
 diatoms, 113B45:804; 177B(synthesis):21
 dissolution, 127/128B(1)17:310–311; 160B27:338–339; 167A(1)5:104; 6:144; 7:166; 8:193; 10:261; 11:295; 12:328; 13:368; 14:406; 15:447; 16:475; 167B32:350; 177A6:15; 178A1:11
 extraction, 138B19:457–459; 167B14:204
 first occurrence, 121B13:262
 flux trends effect of upwelling, 108B14:217–218
 geochemical logs, 127/128B(2)65:1022–1024
 glacial–interglacial cycles, 119B13:240
 hydrothermal event frequency, 193B1:25
 inverse terrigenous correlation, 119B12:227
 Labrador Sea, 105A6:727–731
 laminated diatom ooze, 138B30:644
 lepispheres, 121B14:277
 light absorption spectroscopy, 199A5:5, 14, 18; 10:19, 62; 11:29, 118–120; 12:30, 121–123; 13:26, 88–89; 14:21–22, 63; 15:14, 54
 lithology, 129B2:32; 159A8:261–264; 172A6:258; 177A3:4–5; 4:7; 5:7; 8:7–8; 183A5:5–6; 210A3:33
 low density, 171A_B3:6
 lower Campanian–upper Paleocene, 210B8:10
 lower Quaternary accumulation, 175B21:1–31
 magnetic separates, 106/109A5:155
 mass accumulation rates, 108B15:248–249; 114B31:593; 121A13:465; 121B44:939; 129B32:593; 130B30:516; 167A(1)4:78
 Miocene, 167B32:368
 Miocene–lower Pliocene interval, 198B14:1–7
 models, 175B(synthesis):75
 modern surface sediments, 138B42:824–826
 Namibia opal acme, 175B(synthesis):43–44, 82–83
 Namibia paradox, 175B(synthesis):27–28
 Neogene, 145B38:589–590; 198A3:4; 198B1:14
 Norwegian Sea, 104A5:466, 467
 occurrence, 145B14:221–225
 OLin vs. OPer values, 175B4:14
 organic materials, 154B35:503; 160A8:247; 9:311
 Owen Ridge, 117A3:36; 19:628
 pelagic sediments, 145A3:61
 photoelectric effect, 170A3:88
 photomicrograph, 160B33:424; 206A3:253–254
 physical properties, 121B12:256; 127/128B(1)23:400
 Pigafetta Basin, 129B1:16
 Pleistocene, 108B14:214–215, 223
 Pliocene, 108B14:214, 217–219
 Pliocene–Pleistocene interval, 175B4:1–16
 Pliocene–Quaternary interval, 175A17:513, 518
 pore water, 151A11:367; 175A3:73; 177A8:17
 pre-Quaternary productivity, 175B(synthesis):25–27
 preservation and dissolution, 160B28:358–359
 productivity, 114B23:412; 25:463; 119B10:201; 127/128B(1)17:311; 175B(synthesis):17, 74; 18:10–12; 177A1:8
 Prydz Bay, 119B6:84, 85
 reflectance vs. wavelength, 199A5:13
 sea-ice production, 113B45:803
 seafloor distribution, 175B(synthesis):96
 sedimentation, 145B16:248; 154A9:424–426
 sediments, 138B19:431, 440–450; 35:719, 725–751, 755; 164B23:231–236; 167B30:331–332; 175B(synthesis):70–71; 1:3; 4:9–10; 177B13:1–10; 183B7:5, 9–10, 24; 184A1:8; 192A6:104; 198B14:7; 199B23:10–12
 silica transformation, 113B3:34
 Site 699, 114B37:688, 690
 Site 738, 119B10:190
 Site 744, 119B10:190
 Site 798, 127/128B(1)23:401–402
 sources, 121B13:268; 175B(synthesis):18–19
 statistical data, 178B23:33
 stratigraphy, 127/128B(2)77:1221
 terrigenous and biogenic components vs. mid-core depth, 145A6:220
 time series analysis, 138B19:452, 454
 upper Pleistocene, 177B2:1–5
 visible and near-infrared spectroscopy, 199B11:11–17; 206A3:49
 vs. age, 138B35:729; 144B42:710; 145B14:228; 20:295–300; 175A6:146; 175B4:15; 11:18
 vs. calcite, 138B19:451
 vs. calcium carbonate, 175A10:282
 vs. carbonates, 183B7:15; 198B14:6
 vs. density, 127/128B(1)23:402
 vs. depth, 113B3:30; 114B36:674–675, 683; 145A6:217; 145B14:227; 16:250; 150A8:214, 267; 164B23:233; 167B32:371; 175A9:242–243; 10:281; 175B4:12; 17:9; 177A3:22; 5:33; 198B14:5; 199A10:43; 11:69; 12:75; 13:60; 14:45; 15:35; 199B23:8–9; 24:15
 vs. gamma ray attenuation density, 138B19:451

- vs. midcore depth, 145A8:341
- vs. opal mass accumulation rates, 178B23:9–10
- vs. porosity, 127/128B(1)23:402; 164B23:234
- vs. reflectance, 198B14:6
- vs. time of extraction, 175B4:13
- well-logging, 114B28:518; 127/128B(1)23:402
- X-ray diffraction data, 113B3:29, 31; 175A9:235; 10:281–282; 177A5:62–63
- See also* biosilica; lepispheres; mass accumulation rates; quartz; silica
- opal, biogenic
 - abundance, 127/128B(1)26:443, 446–455
 - apparent overconsolidation, 204B8:9
 - Atlantic Ocean E tropical, 108A10:744; 17:1051–1052
 - color reflectance, 138B18:416–417
 - cycles, 127/128B(1)25:432; 26:444–447; 32:569
 - deposition, 178B23:1–33
 - dissolution, 115B37:677–678, 685, 687; 130A12:549; 175A14:445; 178A5:19; 9:15; 202A4:15; 8:22–23; 10:17
 - Eocene, 119B48:882
 - estimating, 108A17:1047; 138B18:420
 - grain density, 108A17:1047–1050, 1053
 - late Miocene, 178B23:6
 - lithology, 108A17:1050; 204A4:7; 7:5–6; 9:4–7
 - magnetic properties, 117A10:303–304
 - mass accumulation rates, 114B28:521–527, 533–550; 117B20:354; 184B21:2–3, 7
 - microfossil accumulation rates, 117A3:40
 - Miocene, 117A10:304; 117B17:259; 119B11:218
 - opal export, 177B(synthesis):6
 - Owen Ridge, 117A3:38; 117B8:186
 - pelagic marine sediments, 199A6:1–21
 - physical properties, 117A2:31; 19:629
 - Pliocene, 178B23:7
 - pore water, 175A11:326; 13:409; 202A6:14
 - preservation efficiency, 178B23:29
 - production, 165A3:79
 - sediments, 162B14:201; 175B11:7; 17:3–4, 10–12; 177A1:21; 178A4:23; 178B(synthesis):13; 1:1–7; 181B1:29; 6:1–12; 199B21:30–31
 - seismic expression, 127/128B(2)72:1140–1143
 - Sierra Leone Rise, 108A10:741; 11:795
 - silica precipitation, 117B30:504
 - sinks, 177A1:9
 - Site 700, 114A7:278
 - Site 704, 114B28:515
 - Site 711, 115B37:695
 - Site 737, 119B11:215
 - Site 744, 119B11:217
 - Site 798, 127/128B(1)26:443–446, 449–455
 - skeletons, 115B37:693
 - smear slides, 188A3:16–17
 - time series analysis, 117B20:351
 - upper Miocene–Quaternary interval, 184B21:1–12
 - upper Neogene, 167B16:213–214
 - upper Pleistocene, 177B2:1–5
 - upper Pliocene, 178B23:7
 - variations in supply, 127/128B(1)23:404
 - vs. age, 127/128B(1)26:445; 167B16:214; 178B23:25; 184B21:7
- vs. depth, 127/128B(1)26:445; 150X_B3:35–36, 40; 165A4:143; 167B16:214; 177B2:4; 178B(synthesis):39; 23:24, 27; 181B6:6–7; 204A3:45–47; 4:36–42; 5:22; 6:29–30; 7:26; 8:37; 9:32–33, 38; 10:40–43; 11:23–24, 26
- vs. silicon/aluminum ratio, 117B20:348–349; 23:417
- X-ray diffraction data, 108A17:1048–1049; 202A9:54
- See also* silica
- opal, bulk, vs. depth, 177A5:34; 6:23; 7:25; 8:29; 9:27
- opal, diatomaceous, Oman margin, 117A4:43–44
- opal, estimated, vs. depth, 167A(1)5:115; 12:342; 206A3:158
- opal-A
 - abundance, 127A4:94; 127/128B(2)78:1235–1241
 - Albian, 159A9:307
 - biostratigraphy, 200B4:7–8
 - chertification, 192A3:20
 - clay, 190/196B6:13
 - deepest occurrence, 127A5:187
 - diagenesis, 185A4:28
 - diatom frustules, 201B14:9
 - dissolution, 150B20:364; 165A5:261
 - lithium, 128A4:174–175
 - lithology, 129B3:82, 91; 183A5:4, 13; 7:5; 8:3–5; 186A4:15–22; 5:9–10, 13; 190A4:9; 195B1:6; 201A6:11–13; 7:12; 8:9; 9:11; 11:11; 12:10–11; 13:30
 - low-chloride pore fluids, 127/128B(1)34:608–610
 - middle–upper Eocene sedimentology, 210B8:12
 - petrography, 150X_B3:27–30, 36–37
 - physical properties, 127/128B(1)1:25–27
 - phytoliths, 188B5:7
 - pore water, 180A5:32–33; 198A8:23
 - radiolarian ooze, 199A5:17
 - reactions, 129B14:271–272
 - sediments, 172A6:288; 182A4:31; 190A6:17
 - siliceous rocks, 198B17:7
 - Site 698, 114A5:105
 - solubility, 178A8:14
 - unconformities, 150A8:243
 - upper Paleocene, 129B3:91
 - vs. depth, 186A4:91, 93; 5:53
 - vs. excess silica, 127/128B(2)78:1253
 - vs. porosity, 186A4:144
 - X-ray diffraction data, 186A4:88; 201A6:39; 9:10, 36
- opal-A/opal-CT ratio
 - vs. depth, 186A4:93
 - X-ray diffraction data, 201A6:39
- opal-A/opal-CT transition
 - acoustic impedance, 127/128B(2)73:1146
 - age, 127A1:19; 127/128B(1)15:251; (2)73:1145–1147; 81:1305–1306
 - barrier to pore water, 128A5:244
 - biostratigraphy, 127A5:198; 6:264; 7:355; 127/128B(1)1:3; 13:226; 15:249; 16:291–292, 295; 17:313; 20:341; 21:361; (2)78:1230–1232; 128A1:28; 5:303
 - bottom simulating reflector, 127/128B(2)73:1145–1149, 1152–1153
 - chloride concentration, 127/128B(1)34:609–610
 - density, 127/128B(1)1:18; (2)73:1146–1147; 77:1288

- depth, 127/128B(2)77:1224–1227
dissolution patterns, 127/128B(1)17:311
dissolved silica maximum, 127A4:174
factors controlling phase change, 127/
128B(2)73:1145
geochemical logs, 127/128B(2)89:1417
heat flow, 127/128B(2)73:1147–1150, 1156
inorganic geochemistry, 127A1:23; 5:187, 204–209;
7:362–364; 127/128B(1)34:607; 128A1:32; 5:321
Japan Sea, 127A1:31; 127/128B(1)3:49; 20:341
Leg 127, 127A1:19
Leg 128, 127/128B(1)21:359
light absorption spectroscopy, 199A5:6–7
lithium, 127/128B(2)79:1266
lithology, 119B11:219; 121A13:497; 121B27:522;
123A4:148; 123B41:784–786; 127/128B(1)1:10,
17
occurrence, 127/128B(1)1:6–17; (2)73:1145–1156;
128A1:28
opal-CT, 127/128B(1)1:10; (2)81:1306
oxygen isotopes, 127/128B(1)36:641–642
physical properties, 127A1:26; 4:127, 133–134; 5:187,
223; 6:290–295; 7:388–389; 127/128B(1)1:3, 6,
10–18; (2)73:1145; 80:1277–1278, 1284;
81:1305; 128A1:33
sedimentation rates, 127/128B(2)73:1147–1148
seismic expression, 127A1:28; 4:143; 5:169, 179, 234–
236; 6:251, 307–314; 7:403, 407, 410; 127/
128B(1)1:3; (2)72:1141; 81:1305; 128A1:13;
4:193
seismic reflectors, 188B10:12
silica, 127/128B(2)79:1263; 128A4:125
Site 794, 127A4:111
Site 795, 127A5:169, 198; 127/128B(1)1:4; 3:50
Site 796, 127A6:247; 127/128B(1)3:50
Site 797, 127A7:343, 351; 127/128B(1)1:5; 3:50
Site 798, 128A4:149; 5:240
Site 799, 128A5:238, 260, 278
slumping of slope, 127A6:268
synthetic seismograms, 127/128B(2)73:1146–1148
temperature, 127A1:19; 4:137; 5:232; 7:347, 392; 127/
128B(1)1:14; (2)73:1145–1147, 1152; 79:1263;
81:1305–1307; 87:1375; 128A4:150; 5:280
thermal conductivity, 127/128B(2)73:1147
thermal gradient, 127A6:268, 314
thermal history, 127/128B(2)81:1305–1307
thermal markers, 127/128B(1)1:3
thickness, 127/128B(1)1:16; (2)78:1240; 80:1281–
1282
time-temperature plot, 127/128B(2)79:1266; 80:1288
transition temperature, 127/128B(2)81:1306
velocity, 127/128B(1)1:18
volatile hydrocarbons, 128A5:323
well-logging, 127A4:139; 6:251, 302; 7:393–394; 127/
128B(1)1:3, 15–16, 19–22; 128A4:186–187;
5:333
X-ray diffraction data, 127A7:347; 127/128B(1)1:10,
17–18
zeolites, 127/128B(1)1:10
opal accumulation rate. *See* mass accumulation rates,
opal
- opal-C
lithology, 129B3:85
X-ray diffraction data, 129B3:87
opal-CT
abundance, 127A4:94; 127/128B(1)3:53; (2)78:1235–
1241; 128A4:141
Albian, 159A9:307
authigenesis, 198B16:4–5
biostratigraphy, 144A3:64; 159B29:364; 186A4:24;
200B4:4, 7–8; 201B14:9; 207A6:13–14; 8:12–13
chert layers, 119B11:218
chertification, 192A3:20
clay, 190/196B6:13
claystone cement, 136A4:40
core ages, 129B2:33
deepest occurrence, 127A5:189; 128A5:280
densification, 171A_B3:10
diagenesis, 174A_A3:74; 185A4:28; 189A3:45; 6:53;
7:45
formation conditions, 119B11:219; 126B34:525, 527;
127A4:109; 127/128B(1)3:49
geochemistry, 136A4:55; 177A9:13
isotopic temperatures, 127/128B(1)3:55–56
layers, 119B11:214–215
lepispheres, 123B4:74; 150B20:369
lithology, 129B1:11–15; 2:33; 3:82, 85–91, 95–98;
150A8:219–220; 159A6:164, 166; 7:227, 234;
165A4:147; 5:244, 260; 6:301; 167A(1)4:56;
183A5:4, 13; 185A4:14–15; 190A4:9; 195A3:14;
201A6:11–13; 7:12; 210A3:24, 30
lower Miocene, 129B3:93
minimum temperatures of formation, 129B3:97
oxygen isotopes, 127/128B(1)3:51–54
paleosols, 144B19:386, 388
paleotemperature, 129B7:174
peak intensity vs. depth, 174A_A3:59
petrography, 150X_B3:27–30, 36; 160B36:455
photograph, 150X_B3:48
photomicrograph, 129B3:100–105, 112–117;
185A4:83; 185B10:5, 7
physical properties, 127/128B(1)1:25–27; (2)79:1263
phytoliths, 188B5:7
porcellanite, 177A1:22
pore water, 166A6:94–95; 180A5:32–33; 198A8:23
precipitation, 150B20:365
pyroclastic sequences, 124B131:86
radiolarian ooze, 199A5:17
reactions, 129B14:271–272
recrystallization, 185B10:1–11
Salaverry Basin, 112A12:260
samples, 129B3:88
scanning electron micrograph, 159B16:153, 156
sediments, 136B5:66–68; 146A(1)5:153; 150X_B4:50,
53; 185A1:24; 189A5:47; 200A3:29
shallowest occurrence, 127A5:187; 7:343, 347;
128A4:124, 138, 149; 5:174; 6:278
silica sink, 126B34:525
siliceous rocks, 198B17:7
siliciclastics, 189B11:3–5
Site 699, 114B37:695, 697
Site 738, 119B11:217, 220

- Site 765, 123A4:150
 Site 795, 127A5:190
 thermal gradient, 127/128B(1)2:49
 time-temperature plot, 127/128B(2)79:1266
 unconformities, 150A8:243
 upper Paleocene, 207A1:24–25
 volcanic ash, 190/196B2:4
 vs. age, 189B11:9–12
 vs. depth, 150A6:74; 7:144, 146; 150B20:365;
 185A4:115; 186A4:92
 vs. excess silica, 127/128B(2)78:1253
 weathering, 152B9:117
 X-ray diffraction data, 129B5:143; 167B32:350;
 177A9:29; 185A4:79, 85; 185B9:20; 198B16:5;
 201A6:39; 9:10; 208A6:54
See also opal-A/opal-CT ratio; opal-A/opal-CT transi-
 tion
- opal dissolution transition zone (ODTZ)
 age, 127/128B(1)20:350
 Japan Sea, 127/128B(1)20:342
 lithology, 127/128B(1)20:347–349
 Northern Hemisphere glaciation, 127/128B(1)20:350
 photomicrograph, 127/128B(1)20:355–357
 radiolarians, 127/128B(1)20:345–347
 Site 794, 127/128B(1)20:344
 Site 795, 127/128B(1)20:345
 Site 797, 127/128B(1)20:345
 thickness, 127/128B(1)20:347, 350
- opal flux
 Bering Sea, 127/128B(1)26:439
 Onnagawa Formation, 127/128B(1)26:439, 446
 Santa Barbara Basin, 127/128B(1)26:439
 Sea of Okhotsk, 127/128B(1)26:439
 Site 798, 127/128B(1)26:439–455
- opal index, sediments, 175B(synthesis):70
- opal maximum
 climate events, 177B(synthesis):39
 Matuyama Chron, 175A17:513, 518, 526–528
 upper Eocene, 177B(synthesis):8, 20
- opal productivity, power vs. frequency, 175A3:53
- opal sedimentation rates. *See* mass accumulation rates,
 opal
- opal shift, closure of Panama Isthmus, 138B35:748–750
- opaque minerals
 alteration effects, 200B3:12–13
 Atlantis Bank, 118A6:119
 basement, 197A3:157; 4:16, 116; 5:15–16, 99–100;
 6:104–105
 composition, 141B4:56–57; 176A3:18; 200B3:33–34
 diagenesis, 126B8:126
 ferrobasalt, 200B3:3–6, 22
 lava flows, 197A3:20–21; 6:13
 lithology, 126B9:140; 176A3:22–23; 197A3:8–9; 5:6;
 201A12:10
 Mascarene Plateau, 115A5:264; 115B3:29
 mineral chemistry, 200B3:7–8
 Nazareth Bank, 115B3:29
 petrography, 200A4:30–36
 petrology, 118B5:114–117
 photomicrograph, 179A4:117, 141, 145; 197A5:53;
 200A3:88
 sediments, 146A(1)6:253
 Site 699, 114B37:687–688
 Site 701, 114B40:739
 Site 713, 115B3:29
 Site 715, 115B3:29
 Site 765, 123B1:5
 textures, 118A6:117
 Tyrrhenian Sea, 107B5:78
 vs. depth, 141A9:314; 150A8:219; 179A4:94;
 179B2:26, 45; 197A3:52; 4:39, 41; 5:36;
 202A3:25; 4:32; 6:30
 X-ray diffraction data, 208A6:46
See also clinopyroxene-olivine-opaque minerals
- opaque oxides, petrology, 168A5:118
- open-hole logging
 Site 808, 131A6:188–194, 216
 summary, 131A6:230
- open marine environment
 Cretaceous, 143B10:140–141
 Site 748, 120B(1)20:313
- opal/marine organic carbon ratio, 175A3:53
- opal/silica ratio
 light absorption spectroscopy, 199A9:13, 45
 vs. depth, 199A9:30
- ophicalcite
 breccia, 149A6:204
 photograph, 149B22:403
 serpentinite, 149B31:535
- ophiolite clasts. *See* clasts, ophiolitic
- ophiolite model, petrology, 176A3:31–33; 176B10:25–27
- ophiolites
 age, 141B35:425
 alteration, 148B34:431
 Apennines N, 107B1:21
 basement, 160B54:735–736
 Borneo N, 124B9:128–129
 clasts, 160B45:585–586
 comparisons, 135B25:454; 147B6:143; 158B28:399–
 404
 complexes, 147B6:127
 composition, 141A3:24
 compressional wave velocity, 111B15:173–176
 correlation, 180B1:2–4
 Costa Rica Rift, 111B11:119
 deuterium, 147B14:277
 emplacement, 160B51:695–696; 54:759–763
 fabric, 147B17:324–325
 forearc terranes, 125B27:449
 formation, 125A1:10; 10:199
 geological boundaries, 111B16:178
 hydrothermal circulation, 147B12:233
 lineaments, 160B52:705–706
 magmas, 118B1:6; 135B55:898–899
 Masirah Island, 117A4:49; 5:57, 61
 model for origin, 125B27:458
 nappe complex, 107B38:623
 Nicoya Peninsula, 170A1:7
 Oman margin, 117A4:43; 5:57
 oxygen-minimum zone, 117A13:420; 14:442; 15:468;
 16:496; 17:548; 18:556
 Pacific Ocean W, 124A3:41

- Palawan Island, 124A3:38; 124B4:54; 9:121–122
 Paleogene, 180B6:19
 petrology, 141B28:349–360
 Philippine mobile belt, 124A3:40
 physical properties, 137/140B24:283, 287;
 147B25:428
 plate tectonics, 160B54:764–775
 platinum-group elements, 147B4:83–84
 Ra's Madrasah, 117A5:57, 61
 seafloor spreading, 179A4:11–13
 sediment provenance, 180B6:17–24; 7:20
 seismic reflection profiling, 117A16:495
 serpentinite breccia, 149B35:574
 shallow-water limestones, 117A14:466
 Site 723, 117A11:319–320
 Site 724, 117A12:386
 Site 726, 117A14:441
 Site 729, 117A17:547
 Site 786, 125B9:148
 source terrains, 180B6:22
 stratigraphy, 160B32:413–414; 51:684; 179A4:11–13,
 48
 structure, 176A1:2–5
 suprasubduction zone, 126A1:6
 Taitao Ridge, 141A1:6; 9:337
 tectonics, 134B2:21–22, 26
 tectonite, 147A4:127–128
 terranes, 146A(1):1:5
 thrust stacks, 160B50:672
 typical stratigraphy, 179A4:79
 Variscan basement, 149B1:8
 ophiolites, suprasubduction zone (SSZ)
 conditions of formation, 125B1:6, 8
 rare earth elements, 125B28:487–488
 vs. forearc peridotite, 125B28:501–504
 See also suprasubduction zones
 ophiolitic clasts. *See* clasts, ophiolitic
 Ophiomorpha
 lithology, 159A5:77; 6:166; 174A_A3:57; 4:111;
 191A4:11–12
 photograph, 191A4:67
 sediments, 174A_B3:6, 9
 ophitic diabase. *See* diabases, ophitic
 ophitic texture. *See* textures, ophitic
 ophiuroids, Site 736, 119A5:135
 Opoitian, biostratigraphy, 181A3:13; 8:16, 19; 9:12, 14
 optical emission spectrometry. *See* inductively coupled
 plasma–optical emission spectrometry data
 optical indicatrix axes, gabbros, 153B6:105–107
 optical zonation. *See* zoning, optical
 optimum, productivity, 175B(synthesis):8
 orbital cycles
 Cretaceous/Tertiary boundary, 208B1:42
 cyclostratigraphy, 166B15:155–166; 16:174–176;
 207B2:11
 deposition, 175B22:3–5
 Neogene, 167B32:354–363, 373
 paleothermometry, 167B10:153–161
 precession, 171B_A7:357
 sediments, 167B22:257–260
 terrigenous component, 167B18:231
 See also eccentricity; insolation; Milankovitch cycles;
 obliquity; precession; suborbital cycles
 orbital eccentricity. *See* eccentricity
 orbital forcing
 Atlantic Ocean E tropical, 108B8:131–132
 carbonate content, 138B14:332–333; 15:351–352
 Cenozoic, 177B(synthesis):5
 chronology, 165B20:306
 climate change, 202B1:19–24
 currents, 175B18:3–4
 glaciation causes, 145B21:323, 325; 38:594
 lithology, 165A6:304–308
 magnetic susceptibility, 115B41:760–763, 767–768
 marine isotopic stages, 177A1:27
 planktonic foraminifers, 161B37:469–479
 precession cycle, 154A6:272
 sedimentation, 138B43:846; 175B9:1–23; 201A7:12
 surface water, 177A1:9
 timescales, 138B6:88–89
 See also obliquity
 orbital insolation. *See* insolation
 orbital obliquity. *See* obliquity
 orbital parameters
 changes, 129B30:529–547
 cyclicality, 145B11:185; 146B(2)19:259–263
 Labrador Sea, 105B36:772
 stable isotopes, 138B43:843
 stratigraphy, 145B19:283–292
 vs. age, 145B21:324
 orbital periodicity, well-logging, 127/128B(1)23:396–398
 orbital response, carbonate deposition, 154B15:235–236
 orbital rhythms
 cyclostratigraphy, 208B1:6–7
 lower Cenozoic, 208A1:31–32
 paleoclimatology, 198A1:25; 4:3–4
 orbitoidids, abundance, 144B9:178–186
 order–disorder transitions, magnetic minerals, 178B14:2
 ore deposits
 copper, 145B25:389–397
 distribution, 158B28:400–403
 hydrothermal alteration, 135B40:657–658
 timing, 139B43:679–693
 tonnage, 158B28:397–398
 See also mineralization
 ore-forming elements, accumulation, 135B43:703, 705
 organic acids
 geochemistry, 144B43:742
 platinum–palladium fluids, 125B29:511
 pore water, 125B22:387–395; 135B44:709–714;
 144B43:738
 precursor materials, 125B21:388–389; 36:603
 serpentine sediments, 125B21:387; 36:603
 See also amino acids; esters
 organic acids, short-chain, pore water, 144B27:469–474
 organic biomarkers. *See* biomarkers, organic
 organic carbon. *See* carbon, organic
 organic carbon-rich layers, photograph, 192A4:50
 organic compounds. *See* alcohols; alkanes; alkenones; al-
 kyl diols; alkyl keto-ols; aromatic compounds; ar-
 omaticity; bitumens; bituminite; chlorins; esters;

- hydrocarbons; isoprenoids; isorenieratane; ketones; malonate; melanoidins; serine; squalene
- organic debris
 - lithofacies, 155B40:623
 - lithology, 163X_A6:20; 167A(1)16:468; 171B_A4:113–116; 197A4:6–9; 204A3:4–8; 210A3:42
 - photograph, 155A21:643, 661–662; 160A14:470, 474
 - sapropels, 160A5:93
 - vs. depth, 155B10:202–213; 24:408; 197A3:52; 4:38, 40
- organic facies
 - cores, 144A5:181; 6:234–236; 8:306–308; 11:429
 - deposition, 144A10:368
 - limestone, 144A7:277
 - Mediterranean region, 107B35:588–589
 - sediments, 150B18:329–344
- organic fossils. *See* molecular organic fossils
- organic geochemistry. *See* geochemistry, organic
- organic materials
 - carbon isotopes, 154B35:501–505
 - phosphorus, 154B33:479–481
 - See also* hydrocarbons; organic matter; telaginite; triterpanes; triterpenes; triterpenoids; van Krevelen diagram
- organic matter
 - abundance, 180B10:5–7
 - alteration, 160B49:660
 - amorphous materials, 124B18:243–247
 - anaerobic diagenesis, 202B9:5–6
 - assessment, 198A10:13–14
 - autochthonous sources, 127/128B(1)35:627–628
 - bacterial degradation, 127A1:22
 - barium remobilization, 127/128B(1)37:654
 - biomarkers, 159B43:595–599; 207A10:19–22
 - bituminous limestone, 160A7:190, 199
 - black shale, 149B13:295–300; 207A6:28–29; 210B10:4–5
 - boron, 127/128B(1)36:640
 - burial and degradation, 201B1:4–6
 - Cagayan Ridge, 124A12:330
 - carbon isotopes, 141B23:299–305; 184B20:1–13
 - carbon/nitrogen ratio, 168A6:177; 172A4:121–122; 184A5:16; 6:12–13; 7:16; 9:20–21
 - carbonates, 143A2:28; 143B9:120; 194B2:6
 - Celebes Sea, 124A10:157, 159; 13:357; 124B15:218–220
 - characterization, 167A(1)9:233
 - chemofacies, 144B51:900, 902
 - chromatographs, 155B32:523; 180B16:5–9
 - climate optimum, 178B34:5–6
 - composition, 127/128B(1)25:423–429; 159A5:103–108; 7:243; 8:269, 282–284; 159B41:567–568; 160A7:189; 162A4:115; 5:157; 6:192; 7:244–245; 9:308; 10:361; 169S_A2:14; 170A4:137; 205A5:36
 - consumption, 207A8:26–28
 - continental vs. marine origin, 124B18:244–245
 - cores, 144A3:69–70; 4:131–132; 5:180–181; 6:234; 8:306; 10:368; 11:428–429
 - correlation with physical properties, 160A8:254–255
 - Cretaceous–Paleocene interval, 159B24:254–255
 - cyclicality, 127/128B(1)26:446; 31:564; 33:584; 38:668–669; 128A4:140; 175B(synthesis):17–23
 - dark layers, 162A8:274
 - data, 204B12:71
 - decomposition, 127A6:279–280; 138B17:380; 139B20:408–409; 172A5:218, 221–225; 6:281, 285–286; 174A_A3:73–74; 202A4:14; 6:14; 204A3:17; 10:14–15
 - deep-sea sediments, 141B9:119–132
 - degradation, 124B18:239; 127/128B(1)36:646; 128A4:172–173; 5:318; 159A5:109; 6:193–194; 8:284; 160A4:67; 5:108, 110; 8:247; 9:310–311; 10:363; 161A4:83, 85, 89; 5:145–146; 7:320–321; 9:404–405; 174A_B(synthesis):9; 175A7:188–189; 8:212; 12:367; 177A6:14–15; 8:17; 178A4:21; 5:18–19; 7:15–16; 8:13; 9:15; 181A3:23–24; 182A1:26–27, 32; 5:20–21; 7:20; 185A4:27; 186B11:4–6; 189A5:47; 7:44; 199A14:18
 - deposition, 175B(synthesis):44–45
 - diagenesis, 127/128B(2)79:1262–1263, 1267; 131B12:159–163; 146B(1)25:380–381; 156B12:168; 29:354–355; 159A9:303, 305, 310; 161B40:513; 162A3:75; 165A4:164; 5:275; 166B17:191–194; 167B32:344–349, 358; 168A4:80; 6:176; 169S_B1:32, 36; 172A3:60–63; 4:123, 125; 174A_A3:73–74; 4:123; 175A17:511; 20:548–550; 180A6:56–59; 201B5:1–30; 202A4:14; 5:12; 6:14; 7:17; 8:23; 9:18; 10:17; 11:15; 12:15; 205B2:6–7; 207A1:21–22; 4:26–27
 - diffuse reflectance spectrophotometry, 188B7:9–10; 13:10–11
 - dilution factor, 124B18:243–244
 - dinocysts, 189A5:43
 - extraction, 175B23:27
 - factor score vs. depth, 188B7:28, 33, 38, 43
 - Formation MicroScanner imagery, 143B21:332–333
 - geochemical logs, 128A4:187
 - geochemistry, 127A5:204; 144B43:741–742; 157A2:24; 157B21:361–372; 38:628–630; 161B30:394; 172B1:1–9; 201B4:1–21; 208A6:25
 - green clay, 184B15:5–8
 - heating, 141B22:295
 - hydrogen index, 127/128B(1)35:628
 - hydrogen vs. oxygen indexes, 130B34:578
 - intact membrane lipids, 207B12:1–11
 - isotopes, 164B7:67–77; 202B9:5
 - Japan Sea, 127A1:31
 - kerogen, 183B3:5–6
 - laminations, 146B(2)14:219–229; 160B27:338
 - lipid fraction, 128A5:324
 - lithofacies, 143B31:514, 518–520; 160B32:408; 165B7:131–133
 - lithology, 159A5:86; 160A4:60, 75–78; 9:294; 13:454; 167A(1)6:132–135; 169A5:208; 174AXS_A4:22; 5:35; 6:43–46; 7:16; 180A12:13; 180B6:13; 189A3:13–14, 38; 5:41–44; 6:17–19, 45–48; 207A4:9; 5:8–10, 24–25; 6:8–9; 7:9–10; 207B8:4–11; 9:1–23
 - loading, 157B34:587
 - lower Aptian, 198A9:3–4

- maturity, 123B11:222; 124B15:222; 127/128B(1)25:429; 131A6:190; 141A6:111–113; 7:205–208; 10:390–392; 156A6:143; 164A9:298; 166A6:91; 7:160; 8:188; 9:250–251; 10:312; 180B10:5–7; 190A1:35; 5:27; 9:21; 207A10:7–8
- Messinian–Pliocene interval, 160B34:441
- methanogenesis, 207A9:6–8
- microbial activity, 207A8:26–28
- mid-Cretaceous, 207B2:3–5
- mineralization, 124B18:242–243
- Neogene, 157B21:361–372
- nitrogen isotopes, 202B1:8
- oceanic anoxic events, 198B16:6–9
- organic biomarkers, 199B25:1–11
- organic carbon, 198A9:27
- origin, 157A6:166; 180B10:12
- oxidation, 157B32:569; 34:581–589; 35:591–607; 160B29:366, 368; 177A6:15; 180A1:11; 9:40–41; 181A8:32; 182A1:41; 198A3:30–32; 202A1:22–23; 204B19:6
- oxygen index, 174A_A4:127–128
- oxygen isotopes, 207B11:1–13
- paleoenvironment, 127/128B(1)38:670–672; 152B24:289; 184A1:31; 189A3:19–21
- palynofacies, 131B5:59–61
- patterns, 175B(synthesis):8–9
- petrography, 164B5:52
- phosphate, 166A11:365
- photograph, 174A_A3:57; 180A9:78; 188A4:60–61; 207A6:49–50; 7:47; 8:47
- photomicrograph, 207A5:50; 207B2:29
- Pleistocene, 161B30:391–400
- Pliocene–Pleistocene interval, 149B46:705–712
- pore water, 127/128B(1)34:607; 130A8:324; 131B13:165–174; 133B48:713–714; 165A4:166–167; 195A3:38–40; 201B12:1–7
- postdepositional oxidation, 157B35:601–604
- preservation, 160B16:200–204; 189A5:43–44
- provenance, 123B41:788; 128A4:125; 5:324; 146B(2)15:216–217
- pyritization, 124B15:218–219, 224–225
- quality, 157B21:365–366
- Quaternary, 161B36:464
- reactivity, 160B20:254
- recycling, 127/128B(1)35:625
- redox, 149B14:301–304
- reduction, 151B24:423–425; 168A5:135–137; 185B3:4–6
- remineralization, 161B38:487; 165B19:288–291; 177A9:14; 201B10:3
- reoxidation, 194A5:16–17
- Rock-Eval pyrolysis, 157A6:165–166; 10:534–535; 170A4:138; 175B6:6–7; 181A7:180; 188A3:50; 4:31–32; 5:25; 210A3:97
- salinity, 128A4:172
- sapropels, 160B3:33–35; 21:261–283; 22:271–283
- seafloor distribution, 175B(synthesis):96
- sedimentation, 127/128B(2)79:1265; 130B34:574–575
- sediments, 131B30:379–385; 135B9:148; 41:667–676; 138B26:600; 139A5:124–125; 7:348; 28:495–508, 511; 139B15:329–339; 143B12:180–187; 144B43:738; 146B(1)26:388–389; (2)10:142; 14:201–211; 149A5:133; 6:190; 7:241, 243; 150A6:96, 98; 7:167; 8:231–233; 9:285–286; 10:330; 151A5:85–86; 6:135–136; 7:189, 193–194; 8:243; 9:288, 291; 151B22:391–405; 152A8:97; 12:269; 155B34:539–553; 41:669; 157A1:8; 157B33:577; 159A6:190–192; 162A3:74; 164B5:48–51; 167B24:273–276; 168A5:140; 169A3:121; 4:183; 5:225; 6:287; 169B10:19–20, 23; 178A5:17–18; 180B(synthesis):15; 182A1:14; 186A1:13; 5:27; 189A3:38, 43, 158–159; 5:69; 7:40, 138; 194A3:17; 198A1:62–63; 205A6:19; 206A1:25–26; 210A1:20; 3:353–355
- seismic units, 188B8:7
- siliceous rocks, 198B17:9–10
- siliciclastics, 189B11:3–6
- Site 750, 120A9:316
- Site 798, 127/128B(1)26:446; 38:667–669; 128A4:125
- Site 799, 127/128B(1)35:624; 38:667–669; 128A5:245, 318, 323–324
- sources, 124B18:241; 149A4:93, 96; 155B31:505–517; 161A4:81–82; 5:143–144; 6:233; 7:318; 8:374–375; 9:403; 161B29:383–390; 172A5:214–217; 6:278, 281; 175A3:75–76; 4:102–103; 5:131–132; 6:167; 7:192–193; 8:215–216; 9:258, 260; 10:298; 11:327; 12:374–375; 13:411–412; 14:446; 175B1:4; 181A3:25; 6:31; 7:41; 8:33; 198A9:28–29; 207A4:23; 6:28–29; 7:25–26; 8:24–25; 10:8–9
- spectral data, 164B31:319–322
- stable isotopes, 155B18:319–333; 188B16:1–11
- sulfate reduction, 131A6:149; 181B7:1–15; 188A3:44–45
- Sulu Sea, 124A11:241, 246, 280; 124B15:220–222
- terrestrial origin, 123B11:219
- thermal history, 151B23:407–414
- thermal maturity, 127/128B(1)38:671–672; 180B16:4
- transform faults, 159A1:12
- transformation, 164B5:55
- turbidites, 149B15:305–313
- types, 168A4:86
- van Krevelan diagram, 144A5:183
- vegetation, 151B15:289–296
- vs. depth, 131B13:168; 159B24:260; 25:286–290; 189A3:67; 6:77–78; 7:61, 65; 210A3:281
- X-ray fluorescence data, 141A8:269–272; 9:327
- See also* alginite; alkenes; alkenones; beta-carotene derivative; beta-hopanes; beta-sitosterol; biphytanediols; bishomohopanoid acid; bitumens; campesterol; canthaxanthin; chlorophyll; Chlorophyll-*a*; chlorophyllinite; chlorophyllone; cholesta-5-en-3-ol; cholestan; cholestane; cholesterol; cis-2-butene; cyclopropyls; dark layers; di-unsaturated cyclized isorenieratene derivative; di-unsaturated isorenieratene derivative; diasteranes; diasterenes; dichloromethane extracts; dichotriaenes; dinorhopane; dinosterol; diols; esters; ethanogenesis; ethanotrophy; ethene; ethers; ethyl alkadienone; ethyl ketones; ethylcholest; 24-ethylcholest-5-en-3-ol;

- ethylcholestane; ethylene; farnesane; fatty acids; friedelan-3-one; fructose; fucosterol; fucoxanthin; furans; furfural + acetic acid/pyrrol ratio; glucose; glucose/fucose ratio; glutamic acid; glycine; glycolipids; hentriacontane; heptadecanoic acid; heptanes; heptatriacontan-8(E),15(E),22(E)-triene; heptatriacontan-15(E),22(E)-diene; hexanes; humic material; hydrocarbons; hydroxydotriacontan-15-one; inertinite; kerogen; ketones; lignin; lipids; liptinite; loliolide; lupanes; lupeol; lycopane; macerals; moretanes; *n*-alkanes; norlupane; oleananes; olefins; oleic acid; pentamethyleicosane; phenols; phytadienes; phyterals; phytoclasts; polyenes; polysaccharides; polythionates; porphyrins; prist-1-ene; pristane; pristanone; pristene; propylene; pyrenes; pyrolysates; pyrophaeophytin; pyrolysates; pyrridines; pyrroles; quinones; sapropels; stanols; stanols/sterols ratio; stanones; stenone; steradienes; steranes; steratriens; sterenes; stereoisomers; steroid moieties; steroids; sterol esters; sterol ethers; sterols; sterones; steryl esters; sugars; telaginite; *Thioploca*; triterpanes; triterpenes; triterpenoids; vitrinite
- organic matter, amorphous, 161B36:458–459, 464
- organic matter, dispersed
 photomicrograph, 180B10:33–34
 sediments, 180B10:10
- organic matter, extractable
 analytical methods, 119B22:407
 gas chromatograms, 119B22:412–414; 160B23:287
 maturity, 119B22:408–412
 thermal history, 119B22:409
- organic matter, marine
 accumulation, 186B11:1–17
 vs. age, 159B41:568
- organic matter, sedimentary, dilution, 202A1:23–24
- organic matter, soluble
 properties, 139A5:132
 sediments, 164B5:48–51
- organic matter, terrigenous, 155B32:519–530
- organic matter, woody, upper Miocene, 190A1:26
- organic petrology, Woodlark Basin, 180B10:1–36
- organic-rich layers
 cleaning, 207B6:6–9, 20–23
 correlation, 161A4:65, 67; 5:124–125; 6:195–196; 161B37:477
 Cretaceous–Paleogene interval, 207B1:1–26
 frequency, 161A7:307
 iron isotopes, 207B10:1–14
 lipids, 161B39:489–503
 lithology, 161A4:59–64; 5:118–120, 128; 6:188–189; 7:304–305, 309; 9:394; 161B40:510
 location, 161A9:397
 magnetic susceptibility, 161B9:112, 115
 mid-Cretaceous, 207B2:5
 origin, 161A4:62
 paleoenvironment, 161B30:391–400
 photograph, 161A4:66–67; 5:123; 7:307–308, 314
 Rock-Eval pyrolysis, 161A6:257; 8:385
- thickness vs. depth, 175A12:384
 vs. depth, 161A7:313
See also sapropels
- organic structures. *See* xenophyophorians
- organisms, endemic shallow-water, 144B50:887–893
- organofacies. *See* organic facies
- orientation
 compressional wave velocity, 156B8:121
 electronic multishot core reorientation, 135B19:302
 paleomagnetism, 192A4:21–23
 thin section data, 140A2:100–101
- ornithine, Sumisu Rift, 126B35:538
- orogenic belts
 melange, 160B51:693–695
 Miocene, 161A1:6–8
See also tectonics
- orogeny, Paleogene, 180B(synthesis):4, 6
- orosphaerids, Bahamas, 101B5:106–107
- orthoclase
 andesite-plagioclase composition, 126B28:443
 basement/sediment contact, 161A6:215
 diagenesis, 150X_B3:31
 gabbros, 176B10:9–11
 Kerguelen Plateau-Prydz Bay region, 119B3:52
 mineral chemistry, 179B2:10
 occurrence, 127/128B(1)9:147
 vs. anorthite, 127/128B(1)8:122; 179B2:35
 X-ray diffraction data, 172B5:21
See also potassium feldspar; quartz-albite-orthoclase assemblage
- orthoconglomerate
 photograph, 180A6:114
 photomicrograph, 180A6:115
- orthocumulate
 gabbros, 179B(synthesis):18
 lithology, 179A2:5–6
- orthopyroxene phenocrysts. *See* phenocrysts, orthopyroxene
- orthopyroxenes
 alteration, 125A8:164; 147A3:69–70; 4:128, 131–132; 147B11:216; 153A4:153–154; 5:197; 6:236; 176A3:39–40; 176B4:7–8
 Atlantis Bank, 118A6:99
 augen, 118A6:107
 banding, 209A3:7–8
 basaltic andesites, 135B32:559–562
 basement, 123B10:207; 126B27:406–407, 419; 28:435, 439, 444
 boudinage, 125B30:523
 bronzite andesites, 125B10:180
 Cagayan Ridge, 124A11:255; 12:313; 14:403
 Celebes Sea, 124A10:142
 chemical composition, 106/109B3:20, 24; 4:30–37; 5:50; 8:90–91, 94; 118B3:60–61; 124B35:469; 126B11:176–177; 28:438; 135B29:521–524; 30:535–538, 541; 157B15:249–250; 176B4:10
 chromium number, 153B14:299
 clastic mineral phases, 157B15:234
 clinopyroxene, 106/109B4:40; 118A6:122; 118B3:44

- composition, 118B2:31; 135B25:433–455; 147B2:28; 6:107; 176A3:18; 176B4:35; 6:69–70; 179B2:53–55
- crust, 152B28:344
- crystal-plastic fabric, 153A3:92–95
- deformation features, 118A6:131
- dunites, 195A3:17–18; 209A3:7
- electron microprobe data, 113B1:7; 209B2:1–13
- exsolution lamellae, 118B1:4
- formation temperature, 176B4:11–12
- gabbros, 147A3:60–61; 147B1:5; 153B17:338, 340; 27:473–474, 479; 176B8:3–14; 10:13–14; 179A4:30–42; 179B(synthesis):8, 26; 205A4:27–28; 209A3:8–9
- Galicia margin W, 103B13:213–219
- geochemistry, 176B8:49; 10:59; 195B6:6–7
- glass inclusions, 126B11:182
- grain size, 153A3:62; 209A9:51
- harzburgites, 125B30:526; 195A3:16–17; 209A3:6
- high-temperature deformation, 125B30:523
- high-temperature microscopic veins, 176B4:25–26
- hydration, 103B16:243, 247
- hydrothermal alteration, 209A9:7–11; 209B4:3–4
- iddingsite replacement, 113B1:12
- igneous rocks, 176A1:11
- late fractures, 118A4:69–70
- lherzolites, 195A3:18
- lithology, 176A3:14; 176B6:4–14; 179A4:31–34; 179B(synthesis):9–11; 209A5:4–8; 6:4–10; 7:3–7, 42; 9:2–7; 10:7–10; 210A4:7
- mafic and ultramafic rocks, 153B10:184–185, 189
- magnesium number, 153B5:96, 98; 176B10:43
- magnetic fabrics, 106/109B22:265
- major oxides, 149B21:390
- melting, 125B9:152–153; 127/128B(2):56:895
- metamorphic rocks, 118B8:160
- metamorphism, 153B22:401–404; 195A3:53–54
- microstructure, 106/109B5:54
- Mid-Atlantic Ridge, 106/109A8:206–207
- mineral chemistry, 103B12:198–200; 16:242; 17:257; 134B18:366–367; 144B30:516, 527–528; 147B7:141; 11:215–216; 14:261; 153B26:459, 461–462; 28:498; 31:535–536; 176B10:15; 179B2:11; 180B8:10; 193B2:8–9
- mineral inclusions in troctolite spinel, 147B7:142
- mineral/melt partition, 153B10:219
- mineral texture, 176A3:19
- minor elements, 118B3:53, 67
- neoblasts, 176B9:17–19
- oikocrysts, 118A6:121
- olivine, 106/109B4:40; 176B4:6–7, 51–52
- orthopyroxenites, 209A3:7–8
- peridotites, 125B27:450–451; 28:500; 30:522–523; 149A4:77, 79; 153A3:52–60; 153B12:269; 13:279–280; 14:291, 296–297; 29:507–511
- petrography, 125B10:172, 177–178; 147A4:123; 179A4:38–41
- phase equilibria, 153B31:536
- phenocrysts, 126A8:263, 266; 135A(1)6:267–268
- photograph, 135A(1)9:443; 147A4:118–119, 135; 147B7:154–155; 149B21:381; 153A3:59, 63, 72, 90; 4:137, 154; 153B2:34; 3:48; 7:138; 11:248; 29:520–521; 30:529; 173A9:281; 195A3:81; 209A3:102, 129; 5:54, 89; 7:45–47
- photomicrograph, 176B4:31–32, 39–40; 179A4:117–118; 179B2:33; 195A3:80, 84, 87, 93; 209A1:89, 100; 3:78, 99–100; 5:56–58, 72, 91, 105, 112, 114, 117–118, 130–131; 6:46–47, 69, 81; 7:54–59, 82; 9:42–50, 61, 69–71, 74; 10:62, 75–77; 209B1:27
- plutonic rocks, 118B1:12
- porphyroclasts, 209A6:19
- posteruptive alteration, 126A8:262
- preferred orientation, 153B2:26–29
- proportions, 209A3:9–10
- pseudomorphed by bastite, 107B3:41
- recrystallization and mechanical twins, 118A4:69
- relative abundance, 176A3:104
- relict minerals, 118A5:85
- replacement, 118A4:66, 71; 118B8:163
- resorption, 125B30:522
- sediments, 146A(1)6:253; 147B27:452
- selvage, 176B10:13–14
- serpentinization, 153B20:382; 173A9:280–282
- shape, 103B14:226–227, 234; 106/109A8:209
- size, 106/109B3:19; 8:86, 92
- spinifex texture, 125B10:201
- Sulu Sea, 124A11:255, 260, 263
- textures, 118A6:117; 176B4:8–9
- troctolites and gabbros, 147B14:267
- Tyrrhenian Sea, 107B4:42
- ultramafic rocks, 125A6:102; 125B26:436; 147B14:260; 149B21:382
- volcanic ash layers, 127/128B(2)87:1379; 128A4:151
- volcanic clasts, 134B19:381–382
- volcanic rocks, 134A12:413–414
- volcaniclastic sand/sandstone, 126B10:158, 160
- vs. depth, 146B(1)2:39–42; 147B11:216–217; 176B6:31; 10:46–51; 209A9:41
- X-ray diffraction data, 209A9:61
- zoning, 103B17:260
- See also* bronzite; clinopyroxenes; clinopyroxene/orthopyroxene ratio; enstatite; ferrosilite; hypersthene
- orthopyroxenes, altered
- photograph, 209A5:69; 210A4:14
- photomicrograph, 209A3:60–69; 5:70
- proportion in harzburgites and dunites, 209A3:68
- orthopyroxenes, anhedral, photomicrograph, 209A5:68
- orthopyroxenes, elongated, photograph, 209A7:55
- orthopyroxenes, euhedral
- microphenocrysts, 135A(1)6:272–273
- photograph, 209A10:61
- orthopyroxenes, granular, photomicrograph, 209A9:69
- orthopyroxenes, interstitial
- photograph, 209A7:55
- residual peridotites, 209B1:7–8
- orthopyroxenes, kinked, photograph, 149A4:80
- orthopyroxenes, polygonal, lithology, 209A7:5
- orthopyroxenes, porphyroclasts, photograph, 153A3:51, 64, 81, 88, 92–94, 97

- orthopyroxenes, protogranular, photomicrograph, 209A9:69
- orthopyroxenes, recrystallized, composition, 153B5:81–82, 90–93
- orthopyroxenes, subhedral, photomicrograph, 209A5:62
- orthopyroxenes, tectonized, photomicrograph, 195A3:86
- orthopyroxenites
banding, 209A3:7–8
lithology, 209A5:4–6
photomicrograph, 209A3:69
- orthoquartzite, transform faults, 159A1:10
- oscillations, stratigraphy, 145B19:285–287
- oscillatory zoning. *See* zoning, oscillatory
- osmium
Paleocene/Eocene boundary, 199B16:3
peridotites, 153B29:518
sediments, 159A1:14; 159B18:182–184
vs. iridium in sediments, 159B18:183
See also rhenium/osmium ratio
- osmium/iridium ratio, sediments, 159B18:183–184
- osmium isotopes
hydrothermal mounds, 158B7:91–100
peridotites, 209B1:15–16
seawater, 159B18:181–186
vs. age, 159B18:184
vs. rhenium/osmium ratio, 159B19:185
- OsmoSamplers
CORK-II, 205A2:3–5, 15–22; 205B1:14
miniaturized temperature loggers, 205B12:12
- Osmundaceae
palmomorphs, 188B3:11
sporomorphs, 183B3:7
- OSN-1. *See* Ocean Seismic Network (OSN-1)
- ostracodes
abundance, 144B6:131; 9:179–185; 175B(synthesis):94
Albian–Cenomanian interval, 101B9:153
biogenic components, 161B6:78–80
biostratigraphy, 107B30:480, 483–484; 160A10:355; 160B1:13; 174AXS_A1:35; 189A3:28–29; 4:13; 5:26–28; 6:32–34; 7:28–30
Cenozoic, 133B27:401; 143B4:75–86; 144B4:87–96
Cretaceous, 143B10:139; 35:575–580; 150X_B21:287–292
dolomite, 103B10:157–158
ecological interpretation, 101B9:154–155
faunal assemblages, 107B30:484–486
lithology, 104A3:22–25; 166A9:239–241; 11:351–355; 182A1:10; 4:5–6, 9; 9:4; 10:5–6; 183A6:7–8; 8:6; 194A3:5
macroturbidite, 103B31:517
magnesium/calcium ratio, 133B13:175–180
mass accumulation rates, 160B19:231–234, 237, 240
Messinian, 161B42:529–541
Messinian–Pliocene interval, 160B34:441
microfacies, 133B21:292–293, 297–298
Miocene, 101B8:139–140
Miocene/Pliocene boundary, 161B42:538
Neogene, 159B38:525–531
Oligocene, 101B8:139–140
- oxygen isotopes, 120B(2)44:844
- photograph, 161B42:535
- photomicrograph, 160B38:506, 508; 210A3:151
- Pliocene, 101B8:139
- Pliocene/Pleistocene boundary, 107B30:480
- productivity, 175B(synthesis):38
- psychrospheric fauna, 107B26:413
- quantitative range, 107B30:488–489
- Quaternary autochthonous and allochthonous taxa, 146B(2)18:251–255
- sediments, 160B36:457; 175B1:3, 21
Site 639, 103B11:191–192
- species diversity vs. age, 146B(2)18:252–253
- stratigraphic range, 107B30:482
- taxonomy systematics, 104B38:772–773; 143B35:575–580
- vs. foraminiferal zones, 107B30:486–487
See also Cushmanideidae
- Otaian, foraminifers, 181A7:21; 8:17
- otoliths
Cretaceous and younger, 120B(2)59:1065
lithology, 166A9:239; 10:297, 300; 11:352
- outcrops
maps, 176A1:48
photograph, 159A3:60
- outer-arc high (OAH)
Izu-Bonin arc, 126B15:231
reflection profiling, 126B42:631
relation to frontal-arc highs, 126B42:634
- outer perimeter ridges
deposition, 144B45:784–785
diagenesis, 144B46:804–805
lithology, 144B45:774, 779–781
origin, 144B15:301–304
sedimentary sequences, 144B15:295–310
stratigraphy, 144B49:878–879
- outer platform environment
foraminifers, 133B26:371–374
sediments, 194B5:17–18
- outer ridge facies, Cretaceous, 144B9:189–190
- outer rises, plate convergence, 134B3:49–50
- outer shelf
sedimentation, 133B23:315–325; 24:327–351
topography, 178A2:10
- outer trench wedge, microstructures, 190/196B7:3
- outflow zones, chimneys, 193A1:23–28
- outgrowths
epitaxial, 193B6:12
photomicrograph, 193B9:19
- overbank environment
lithology, 155A10:265; 155B40:631–632; 174A_A5:159; 174AXS_A5:41–42; 180A6:33
paleoenvironment, 174AXS_A4:10–12, 17–25
photograph, 174A_A5:159
- overburden, effective/shear strength ratio. *See* stress, effective/shear strength ratio
- overburden, repressurized sediments, 204B26:6
- overburden erosion, geotechnical surveys, 151A8:251, 255

overburden pressure. *See* shear strength/effective overburden stress ratio; shear strength/overburden pressure ratio

overburden strength
 vs. depth, 178A5:77
See also strength

overburden stress
 deformation, 190/196B10:14
 porosity, 178B30:5–7
 sediments, 188A3:58
 vs. depth, 188A3:150
See also shear strength/effective overburden stress ratio; shear strength/overburden pressure ratio

overcompaction, sediments, 131B21:268

overconsolidation
 basement, 168B6:71
 causes, 119B9:174–176
 claystone, 170B3:8–9
 dewatering, 131B7:84–88
 gas escape, 150B21:384
 glacial advance and retreat effects, 119B8:157
 ice loading effects, 119B48:884
 physical properties, 119B2:31, 46; 8:150
 porosity, 131B7:93; 138B16:367–368
 Prydz Bay, 119B8:154
 sediments, 134B29:523–525; 141B33:411, 413; 151B26:448–449; 156B7:111–112; 164A5:93
 stress, 131B21:265
 transition to normally consolidated sediments, 119B9:181
 velocity, 155B29:491–492
 void ratio, 167B31:334–336

overconcolidation, apparent, overburden pressure, 204B8:8–9

overconsolidation difference, vs. void ratio, 150B21:382

overconsolidation rate, vs. void ratio, 150B21:382

overconsolidation ratio (OCR)
 ooze, 145B35:536
 Prydz Bay, 119B8:152
 sediment loading effects, 119B8:156
 sediments, 123B25:494–498; 127/128B(2)71:1125–1129; 207B15:20
 vs. depth, 144B56:991; 145B36:551
 vs. shear strength, 119B8:155–156

overgrowths
 lithology, 173A6:112–114
 nannofossils, 133B2:37; 168B4:45–47
 pillow basalt, 187A5:3
 photomicrograph, 161B20:286; 163X_A6:38; 169A3:79; 183A5:108; 187A13:18
See also calcite overgrowths

overgrowths, dendritic, photomicrograph, 185A3:99

overgrowths, syntaxial
 limestone, 203A3:9
 Miocene, 133B34:501, 504
 photomicrograph, 194A5:41

overlaps, biostratigraphy, 173B7:5–8

overloading ratio, sediments, 131B21:271

overlying plates, coupling with subducting slabs, 186B1:5–6

overpressure
 aquifers, 174A_A3:74
 Cascadia margin, 146B(1)12:208
 décollement zone, 190/196B1:6
 diagenesis, 156B1:25–27
 fault splays, 146B(1)23:365–366
 fluids, 156B17:236–237; 161B10:117–128
 hydraulic conductivity, 146B(1)17:281–289
 low density, 171A_B3:6
 lower oceanic crust, 176B(synthesis):22–23
 mud volcanoes, 160B48:641–642
 permeability, 156B9:132–134; 180B23:7–8
 pore water, 156B12:168–169; 201A1:45
 sediments, 131B29:373; 155A9:234
 stress, 146B(1)22:349–358
 tests, 156B19:250–251
 veinlets, 160B50:668–669
 vs. velocity, 146B(1)22:353, 356; 28:417

overprinting
 amphibolite clasts, 173A7:190–191
 basalts, 130B4:52
 breccia, 173A4:201
 cataclasts, 173A4:199
 coercivity, 178A4:16–17
 demagnetization, 171B_B9:3–4
 fabric, 176A3:58, 65
 foliation, 173A6:148
 lithology, 176A3:19
 magnetic polarity, 167B28:315–317; 207B3:5–7
 magnetic properties, 161A5:138, 140; 176A3:74–75; 184A4:17; 186A4:27–32
 magnetostratigraphy, 178A9:14
 photomicrograph, 180A11:27
 recrystallization, 153B8:149
 tonalite gneiss, 173A6:131

overspills
 turbidites, 155B4:76–77
 turbidity currents, 155B4:56
See also spillover

overthrust forearc wedge sequences, redeposition, 205A6:9

overthrust sections, temperature, 205B12:19

overthrusting
 tectonics, 160B54:761
 thrust stacks, 160B50:672

overturned bedding. *See* bedding, overturned

oxea
 sediments, 120B(2)43:833–834
 Site 689, 113B54:965, 968
 Site 795, 127/128B(1)30:542

Oxfordian
 biostratigraphy, 129B10:205–206; 11:222
 lithology, 129B14:268
 rifting, 149B1:9–11; 210B1:6–7

Oxfordian/Kimmeridgian boundary, biostratigraphy, 129B20:396

oxic environment
 biomarkers, 167B12:189–190
 geochemical effects, 115B39:710–713
 glauconite, 167B25:292–293
 lithology, 165A7:368; 198A3:15–17; 5:15

- Site 698, 114A5:100
 Site 700, 114A7:267
- oxidation
- alteration, 119B16:314–315; 148A3:148–149;
 148B11:159; 149B30:519–527; 168A4:77; 5:132–
 133; 168B10:119–136; 187A8:8; 11:7–10; 14:5
 - Aptian–Albian interval, 198A9:17
 - basalts, 129B20:368; 134A8:153–154; 135B36:603–
 613; 142B3:25–26; 163B2:25–26; 187A10:3–4;
 187B7:7
 - basement, 131A6:155; 183A6:26–42; 183B12:12
 - black halos, 148B12:180–183
 - breccia, 183A5:28
 - Cagayan Ridge, 124A12:313–314
 - cerium, 191B4:5–7
 - chrome spinel, 120B(1)9:128
 - deposition, 143B37:591
 - diagenesis, 157B33:573–580; 167B23:265–266
 - geochemical cycles, 205B6:1–26
 - glass shards, 183A4:12–13
 - hydrothermal reactions, 209A9:11
 - intervals, 157B33:576
 - iron, 172B2:1–11; 209A7:9
 - lava flows, 163A5:63
 - lithology, 151A11:360; 160A7:161; 167A(1)9:225–
 227; 194A4:7–8; 198A5:14; 208A7:6; 209A7:2–4;
 210A3:29; 210B8:17
 - magnetic anomalies, 137/140B22:257–259
 - magnetization, 120B(1)6:84, 90–94; 136B12:149;
 187B7:8; 203B1:6
 - methane, 161B32:420; 34:434–436; 166B17:192;
 174A_B(synthesis):9
 - microbial pits, 148B14:212
 - organic carbon, 130A12:549; 159A5:109
 - organic matter, 130B34:574–575; 133B48:713–714;
 160A4:67; 160B29:366, 368; 161B29:386;
 166B9:109; 167B32:344–345, 348–349;
 172A6:278, 281; 175B6:6–7; 177A6:15;
 180A1:11; 6:56; 9:40–41; 181A8:32; 182A1:41;
 198A3:30–32; 201B10:3; 202A1:22–23; 5:12;
 7:17; 8:23; 9:18; 10:17; 11:15; 12:15; 204B19:6
 - petrography, 187A12:6–7
 - photograph, 138A(2)16:910; 160A10:348; 209A7:67;
 9:64; 210A3:185, 194
 - photomicrograph, 168A4:74; 180A12:91; 183A5:95
 - phytane, 156A6:147
 - pillow lava, 148A3:142
 - pore water, 150X_B24:338–339
 - pyrite, 160B20:258
 - rock magnetism, 192A4:20–21
 - sapropels, 160B20:257; 161B39:500
 - sedimentation, 180A12:23
 - sediments, 155B10:195–196; 157A4:68–70;
 172A4:121; 177A6:15; 182A1:14; 188B15:1–15;
 189A3:38–40; 191B1:4; 4:1–24
 - serpentinites, 149B31:535
 - siliceous rocks, 198B17:9–10
 - sulfides, 139A6:228–229; 139B18:378–379;
 201A11:15; 201B7:5–9
 - titanomagnetite, 120B(1)6:81
 - veins, 179A4:55
 - volcaniclastics, 183A7:42–43
- See also* alteration; anaerobic methane oxidation
 zone; bole horizons; diagenesis; hydrothermal
 activity; methane oxidation; methane oxida-
 tion rate; redox; reduction; sulfate reduction
- oxidation, anaerobic, methane, 164B8:79–85; 9:87–99;
 172B3:6
- oxidation, exsolution
- cooling rate, 121B28:541
 - magnetic effects, 121B28:535
 - temperature, 121A11:323; 121B28:535, 539
 - titanomagnetite, 121B28:535
- oxidation, iron
- clay formation during alteration, 102B10:143
 - hydrothermal deposits, 129B22:423
- oxidation, late-stage, Atlantis Bank, 118B27:546
- oxidation, surficial, Site 786, 125B9:148–149
- oxidation byproducts, organic matter, 201B4:5–6
- oxidation fronts
- organic matter, 157B34:581–589; 35:591–607;
 38:630–632
 - photograph, 157A4:64–65
 - provenance of trace elements, 160B16:202
 - pyrite, 160B20:254–255
 - turbidites, 157B32:559–571
- See also* redox
- oxidation halos
- alteration, 168B10:129–131; 183A9:31
 - composition, 183A8:21–22
 - lava flows, 183A1:37
 - lithology, 183A1:28, 32
 - photograph, 183A7:144–152; 9:76–77, 105; 200A4:97;
 206A3:251
 - photomicrograph, 168B10:136
- See also* greenish red to green zone; greenish to light
 gray zone
- oxidation lamellae, photomicrograph, 197A5:60–65;
 6:54–55, 61, 65
- oxidation ratio
- alteration, 148B11:156–157; 12:178–180
 - vs. Curie temperature, 148B12:182
 - vs. depth, 148B12:182; 34:423, 440
 - vs. potassium oxide, 148B12:178
- oxidation rims, alteration, 187A10:3–4
- oxidation-reduction potential
- copper, 145B25:394
 - Kerguelen sediment ridge, 119B18:371, 373
 - sediment accumulation rates, 119B18:367
 - Site 738, 119B18:364
- oxide diorite. *See* diorites, oxide
- oxide gabbro. *See* gabbros, oxide
- oxide gabbronorite. *See* gabbronorites, oxide
- oxide infillings, photomicrograph, 209A10:72
- oxide metagabbro. *See* metagabbro, oxide
- oxide microgabbro. *See* microgabbros, oxide
- oxide olivine gabbro. *See* gabbros, olivine oxide
- oxide olivine microgabbro. *See* microgabbros, oxide oliv-
 ine
- oxide-rich zones, correlation, 179B(synthesis):47
- oxide troctolite. *See* troctolites, oxide

oxides

activation of strain-softening mechanisms, 118B22:407
 alteration, 121A11:333; 147A3:70–71; 4:132; 153B30:523–529
 Atlantis Bank, 118B4:94
 basalts, 121B32:621
 bulk samples, 193A3:288–289
 calculation, 143A4:77
 Celebes Sea, 124B42:544, 547–548, 551–552
 chemical composition, 124B35:475; 134B16:344–347; 139B6:100; 149B26:454–455
 deformation, 118B4:104; 176A3:67, 210
 distribution, 118A6:122–125
 electron microprobe data, 193B3:7–8
 gabbros, 147A3:61–62; 147B2:34–36; 153A5:187–191; 153B17:338, 341; 176B6:16–18; 179B(synthesis):9–11, 33
 geochemical logs, 133B57:800–803; 134B36:634–637, 640–643; 136B13:155–156; 138B44:860; 143A4:80–81
 glass shards, 121B14:279–283
 high-temperature minerals, 176A3:35
 hydrothermal deposits, 135B5:75–76
 igneous rocks, 143B15:247, 251; 176A1:11; 3:260
 image analysis micrograph, 147B2:43
 lithology, 131B14:183; 176A3:22–23, 124; 200A1:28–30
 magmatic origin, 118B8:155
 magnetic properties, 118B4:78; 144B36:616–621; 158B25:345; 176B11:17
 major elements, 193A3:284–285, 290–291; 4:243–244
 metamorphism, 118A6:134–136; 118B27:547
 mineral chemistry, 193B3:1–31
 modal abundances, 147B2:24; 176A3:21
 morphology and cooling rate, 121B28:542
 noncotectic proportions, 118B2:31
 Pacific Ocean W, 124B35:474–475
 paragenesis, 193A4:159, 168
 percentages, 159B17:175
 petrography, 193A1:14–15, 19; 3:51–58; 4:33–41; 6:6
 phosphorus, 154B32:479–481
 photograph, 138A(2):18:1034; 147B2:42; 153B9:165; 176A3:148
 photomicrograph, 161A6:245–246; 176A3:128; 209A10:74
 pigments, 121B28:542
 principal component analysis, 118B15:273–274
 scan, 176A3:123
 sediments, 146B(1):6:124; 178B4:1–12
 temperature vs. plagioclase composition, 118B4:91
 tephra layers, 121B14:273, 286, 288–291
 thin sections, 176A3:23–28
 veins, 176A3:29
 vs. depth, 138A(2):17:975; 176A3:122, 126
 vs. magnetic susceptibility, 176B11:20–29; 209A10:66–67
 vs. titanium oxide, 147B2:48; 176A3:119
 well-logging, 121B41:900–901, 904–905
 X-ray diffraction vs. X-ray fluorescence data, 172B5:23

See also anatase; baddeleyite; birnessite; brookite; cas-
 siterite; chromite; corundum; cuprite; diaspore;
 goethite; hematite; ilmenite; intrusions; limo-
 nite; lithiophorite; magnetite; major oxides;
 manganese oxides; manganese oxide/aluminum
 oxide ratio; metagabbro; microtextures; modal
 composition; pseudobrookite; pyroboles; pyro-
 phanite; rutile; sulfide/oxide aggregates; tita-
 nomaghemite; titanomagnetite; todorokite;
 vernadite

oxides, black, vs. depth, 197A3:101
 oxides, ferromanganese, photograph, 164A6:107
 oxides, groundmass, vs. depth, 185A3:101
 oxides, interstitial
 lithology, 209A5:8–9
 photomicrograph, 209A5:122; 7:54
 oxides, iron-manganese
 hydrothermal deposits, 135B5:76–77
 Site 786, 125A14:316
 oxides, iron-titanium
 Atlantis II Fracture Zone, 118B26:464
 basalts, 131B16:200
 crystallization effect on liquid line of descent,
 118B4:101
 deformation textures, 153B6:105
 distribution, 118A6:123–124
 magnesium number, 118B4:82–83
 mobilization, 118A6:135
 photograph, 153A4:155; 5:189; 153B7:125, 137–141;
 11:248
 rheology, 153B7:123–141
 sulfide minerals, 118A6:125
 oxides, lithophile, as mantle depletion measure,
 125B9:155, 168
 oxides, magmatic, photomicrograph, 209A5:112–114,
 117
 oxides, major element
 basement basalts, 123A4:201
 sediments, 123A4:154
 oxides, modal whole-rock, 179B(synthesis):70
 oxides, secondary, alteration, 121B28:541–542
 oxides + sulfides
 vs. compressional wave velocity, 139B38:608
 vs. density, 139B38:608
 oxidized beds, lithology, 164A6:105–106
 oxidizing zone
 alteration, 197A4:21
 photograph, 195B7:6; 197A4:74–75
 oxidizing zone/reducing zone contact, photograph,
 197A4:74–75
 oxyanions. *See* thiosulfate
 oxyasters
 Site 748, 120B(2):43:837
 Site 689, 113B54:965
 Site 696, 113B54:965, 970
 oxygen
 basalt glasses, 142B4:32–34
 benthic foraminifers, 127/128B(1):29:528
 borehole correction factors, 164B21:213
 bottom water, 117A5:57
 contours, 202A1:114

- core void gas, 204A4:112–113; 5:58; 6:74; 7:68; 8:86; 9:84–85; 10:102–103; 11:57
- diffusion, 147B12:232–233
- fluid inclusions, 144B48:861–864
- fugacity inferred from spinel, 127/128B(2)51:842–844
- gas hydrates, 164A6:143–144; 7:215; 204A4:114; 5:59; 6:75; 7:69; 8:97; 9:86
- gases, 169S_B1:37
- hydrothermal alteration, 209B1:10–11
- Japan Sea, 128A1:20
- mass balance, 169A3:98
- microelectrode measurement, 201A12:57
- North Indian Intermediate Water, 117A1:6
- pore water, 199B20:13–14
- pressure cores, 204A4:115; 6:76; 8:88–89; 9:87; 10:104–105
- proxies, 202B10:3
- seawater, 146B(2):26
- sediments, 139A5:121
- serpentinization, 147B14:278
- sulfides, 209B3:4–5
- Sulu Sea, 124A7:103, 105; 124B29:381–382
- vs. depth, 154B21:321
- vs. uranium/molybdenum ratio, 202B10:5
- water circulation, 160A4:57
- See also* carbon/oxygen ratio; iron-nickel-sulfur-oxygen system; low oxygen event; magnesium-calcium-silicon-oxygen-hydrogen system
- oxygen, dissolved
 - microbial activity, 201A1:13–14
 - pore water, 201A1:20, 24, 27, 45; 6:14–15; 7:14; 12:12
- oxygen, Vacutainer, vs. depth, 169S_A2:48, 51
- oxygen-18, vs. age, Indian Ocean, 175A1:9
- oxygen-18/oxygen-16
 - age model, 130B21:374–375
 - alkali basalts, 129B22:420–423
 - benthic foraminifers, 130B24:411–421; 44:715–716
 - chemobiostratigraphy, 130B18:323–332
 - chemostratigraphy, 130B17:307–322
 - color bands, 130B27:454, 457–462
 - Cretaceous/Tertiary boundary, 130B45:746–749
 - décollement zone, 131B32:404–405
 - distribution in cores, 130B22:386
 - foraminifers, 130A10:511; 130B12:241–242; 16:281–305; 19:336–338; 20:349–362; 21:363–379; 22:381–395; 29:498; 30:515–516
 - limestone, 130B14:259–268
 - mid-Miocene enrichment, 130B17:311–312
 - paleoceanography, 130B37:627–628
 - pore water, 131B34:425
 - sediments, 130B15:269–279
 - Site 807, 130B16:304
 - Sites 805 and 806 comparison, 130B21:373
 - stylolites, 130B26:446–448
 - vs. age, 130B16:297; 20:356
 - vs. carbon isotopes, 130B23:402
 - vs. depth, 130B16:296; 22:383, 387–388
 - vs. spliced depth, 130B19:351
 - See also* oxygen isotopes
- oxygen/carbon ratio
 - Lima Basin C, 112B9:142
 - organic matter, 175B6:6–7
 - Pisco Basin W, 112B9:142
 - Site 680, 112B9:140, 142
 - Site 681, 112B9:142
 - vs. hydrogen/carbon ratio, 143B12:189
- oxygen depletion
 - black shale, 207A4:25
 - diagenesis, 167B23:265–266
- oxygen fugacity
 - basalts, 135B36:603–613
 - chlorites, 135B40:660
 - crustal buffering, 118B4:101–102
 - crystallization controls, 118B4:91
 - lava, 152B33:412–413
 - sulfur, 126B29:451; 157B23:408–409
 - troilite and variations, 118B5:119–122
 - vs. barium/lanthanum ratio, 135B36:609
 - vs. inverse absolute temperature, 142B3:25
 - vs. rubidium, 135B36:609
 - vs. strontium-87/strontium-86 ratio, 135B36:609
 - vs. sulfur, 135B36:611
 - vs. temperature, 152B33:413; 179B2:43
- oxygen index
 - black shale, 171B_A3:76–77, 81; 210B10:4–5
 - dark-light cycles, 127/128B(1)25:431–432
 - hydrocarbons, 151A7:189; 12:391–392
 - Indus Fan, 117A5:182, 185
 - iron isotopes, 207B10:8
 - kerogen, 198A3:28
 - Lima Basin S, 112A19:821–825
 - Oman margin, 117A11:353; 12:406; 14:481; 16:524; 18:579; 117B31:524
 - organic matter, 161A6:233; 7:318; 9:403; 161B29:387; 167A(1)9:233; 172A5:216; 6:278, 281; 174A_A3:76–77; 4:127–128; 175A3:75–76; 4:102–103; 5:132; 6:167; 7:192–193; 8:216; 9:258, 260; 10:298; 11:327; 12:375; 13:412; 175B6:6–7; 181A7:41; 184A5:16; 198A3:30–32
 - Owen Ridge, 117A9:243; 10:296; 117B31:526
 - Pisco Basin W, 112A18:724–725, 731
 - pyrolysis, 175A3:82; 4:109; 6:173; 7:193; 8:218; 9:264; 10:304; 11:334; 12:375; 13:420; 182A7:73
 - Rock-Eval pyrolysis, 141B9:125; 159A5:107; 6:193; 194A3:75; 7:143–144
 - sapropels, 160B22:273–274
 - sediments, 143B12:180, 183; 157A6:166; 159A7:244; 8:283; 162A8:277; 9:313; 172A3:55, 60; 4:133; 5:223; 6:284; 174A_A3:77; 4:128; 184A5:88; 6:61; 7:95; 9:116; 189A3:38–39, 158–159; 5:41, 154–155; 6:45, 163–164; 7:41, 138; 194A3:16–18; 4:23; 6:14; 7:25; 8:18; 9:17; 198A1:148; 207A4:23, 104; 5:111; 7:104; 8:94
 - Site 680, 112B26:446, 448
 - Site 682, 112A14:386–387
 - Site 685, 112A17:628
 - Site 688, 112A20:909; 112B26:447–448
 - Site 736, 119A5:144–145
 - Site 737, 119A6:198–199
 - Site 739, 119B22:408, 410
 - Site 741, 119A10:388
 - Site 742, 119A11:426

- Site 743, 119A12:469
 Site 748, 120A7:212–213
 Site 750, 120A9:316
 Site 765, 123A4:160; 123B11:218
 Site 794, 127A4:115–118
 Site 795, 127A5:213, 219
 Site 796, 127A6:285
 Site 797, 127A7:367
 Site 798, 127/128B(1)25:425; 38:668–669; 128A4:177, 196
 Site 799, 127/128B(1)25:429; 35:624–627; 38:668–669
 Trujillo Basin, 112A16:549, 554, 563
 vs. depth, 162A9:313; 167A(1)9:235; 207B10:12
 vs. hydrogen index, 117A11:355; 12:411; 14:463; 15:489; 16:526; 18:581; 117B31:522; 33:551; 121A8:219; 25:495; 141A6:119; 7:215; 8:279; 141B9:124; 23:303; 143B12:186–187; 144A5:183; 149B13:298; 15:313; 46:710; 150A6:98; 7:167; 8:235; 9:287; 151A12:394; 151B22:402; 152A8:100; 11:233; 156A6:143; 7:238; 157A6:173; 10:545; 157B21:365; 160B22:274; 161A4:90; 5:150; 6:256; 7:329; 8:385; 9:409; 161B29:387; 162A9:307–308, 314; 164B5:53; 167A(1)9:235; 168A4:87; 5:147; 171B_A6:294; 172A3:60; 4:133–134; 5:223; 6:284; 7:317; 175A3:82; 4:109; 6:172; 7:194; 9:264; 10:304; 11:334; 12:375; 13:420; 175B6:17; 180B16:11; 181A7:98; 184A9:67; 198A1:141; 3:90; 9:26–27, 77; 207A4:55; 5:65; 6:63; 7:59; 8:56; 210B10:10
 vs. total organic carbon, 143B12:187
 Yaquina Basin, 112A15:463
See also hydrogen index/oxygen index ratio
 oxygen isotope events. *See* marine oxygen isotope events
 oxygen isotope excursions
 Eocene thermal maximum-2, 208B1:16
 Paleocene/Eocene boundary, 174AXS_A(summary):13
 oxygen isotope fractionation, dissolved sulfate, 201B7:6–9, 17
 oxygen isotope index, sediments, 175B(synthesis):70
 oxygen isotope signal
 magnetic susceptibility, 175A3:564
 Messinian/Pliocene boundary, 160B1:6–7
 Pleistocene, 152B25:301
 oxygen isotope stages
 age models, 166B2:15–21; 3:30
 biostratigraphy, 146B(2)17:238–241; 20:268, 272, 275; 21:285, 287, 290; 151B10:188; 178B2:2
 Brunhes/Matuyama boundary, 178A8:12
 clay minerals, 178B8:10–12
 correlation with deep-sea section, 146B(2)1:12
 cyclic processes, 178B25:7
 deposition, 178A4:10
 interglacial correlation, 139B2:47–49
 lithofacies, 178B25:19–20
 lithology, 105B32:604–609; 108B12:179; 127/128B(1)26:442–443; 178A4:4
 organic carbon, 184A5:15
 stage boundaries, 107A6:144; 7:310; 112B21:356–358; 115B29:550; 127/128B(1)27:468
 vs. lithology, 146B(2)1:16–17
 oxygen isotope stratigraphy
 correlation, 172A7:318; 172B9:5–6
 lower–middle Pleistocene, 177B12:1–20
 planktonic vs. benthic foraminifers, 121B14:285
 sediments, 177B9:1–26
 Site 607 correlation, 121B15:305–307
 Site 677 correlation, 121B15:304
 Site 758, 121B11:245, 247–248; 15:304–307
 tephrostratigraphy, 186B10:4, 7
 timescales, 138B6:74–75
 vs. depth, 172A6:303
 oxygen isotope zone, sea level changes, 150A2:12
 oxygen isotopes
 abundance in gravity cores, 194B4:13
 ages, 114B24:442–446; 25:461; 26:477; 115B29:552; 117B20:346; 21:368–369; 120B(2)45:859; 138B13:297; 161B38:482; 175B7:25; 18:6–7; 23:42–45; 189B9:5–6; 202B4:8–17
 Albian–Santonian interval, 207B11:1–13
 alkali basalts, 129B22:420–423
 alteration, 118B8:173; 123B9:197; 127/128B(1)36:641–642; 40:699–702; 129B27:494; 148B10:132–137
 Amery Ice Shelf, 119B5:64
 anhydrite and sulfides, 158B6:85–90
 Antarctic Bottom Water, 119B19:383
 Antarctica Cenozoic record, 119B48:869–870
 apatite, 129B7:176; 151B33:583–591
 aragonite, 115B29:553–556; 147B16:311–313
 Atlantic Ocean E tropical, 108B6:95; 11:165; 12:168–174, 181–182
 Atlantis Bank, 118B6:135–136; 8:158
 authigenic carbonates, 164B29:289–294; 188B15:6, 15
 averages, 160B13:177
 Baffin Bay, 105B32:602–610
 basalts, 136B9:110, 114–115; 163B10:113–117
 Bass River Formation, 174AX_A1:42
 below sediment/water interface, 119B19:385
 Bengal Fan, 116B10:127–129
 benthic and planktonic records, 107B26:411; 108B12:170, 174; 114B23:416, 418; 117B19:323–336; 121B11:247–248
 benthic foraminifers, 114B25:461–463; 27:482, 486–487; 115B27:519–525; 31:599; 32:613, 615, 618; 117B17:292–295, 300–301; 120B(2)30:541–543; 34:617; 44:841; 45:857; 46:873; 58:1003; 127/128B(1)26:443–444; 138B17:374–377; 145B18:268–273, 279–280; 154B28:434–438; 30:451–461; 174AX_A1:41–42; 175B(synthesis):85; 19:4–8; 177B(synthesis):9; 14:8; 178B(synthesis):40; 181B1:35; 10:1–20; 183B7:29; 189B9:4–5; 199B18:10; 21:29
 biochronology, 160B13:167–180
 biomediation, 184B12:9
 biostratigraphy, 114B9:195–199; 115B30:581–582
 bolivininid abundances, 115B31:596
 Broken Ridge, 121B10:231; 22:449
 bulk samples, 192B2:14–15
 Cagayan Ridge, 124B29:385–387, 395
 calcareous plankton, 160B12:159

- calcite, 149B33:554; 159B8:73–79
calcium carbonate, 115B35:656; 149B46:708–709
calcium, 116B10:130–131
Campanian–Maastrichtian interval, 207B7:3
Campbell Plateau, 120B(1)12:164
carbon dioxide equilibrium, 119B38:697
carbon isotope correlation, 105B32:611
carbon/nitrogen/phosphorus ratios, 155B31:513–515
carbonate compensation depth, 199B21:12–13
carbonate content, 119B10:194–195; 154B12:195;
16:239–253; 24:371–372; 162B12:181;
207B11:4–5
carbonate crash, 206B4:5–6
carbonate diagenesis, 127/128B(1)40:701–702
carbonate fine fraction, 115B36:672
carbonate mineralogy, 115B29:568–575
carbonate sediments, 115B36:671
carbonate veins, 121B22:453–455; 156B5:85–87, 92;
29:356
carbonates, 112A6:99; 115B29:543; 132B6:69–79;
134B6:91–93; 139B14:315–322; 146B(1)6:126–
133; 7:137–148; 151B24:425–429; 160B1:4;
35:448–450; 164B13:140–146; 30:306–311;
182B15:1–13; 186B12:3, 5; 198B13:4–5
cements, 143B13:209
Cenomanian/Turonian boundary, 174AXS_A(sum-
mary):9–10
Cenozoic, 150X_B27:363–364, 370; 202B3:10;
208A1:56
chalcedony, 129B3:95
chemostratigraphy, 174A_B(synthesis):7–8
chert, 129B3:95
chlorine correlation, 116B10:130
chlorite and tremolite, 127/128B(2)55:888
chloritization, 158B21:293
chronostratigraphy, 138B13:298; 43:839–854;
184B2:4–10
clay mineral zones, 150B9:164; 169B6:6–9
clinopyroxene vs. plagioclase, 118B2:39; 6:140
closed vs. open system conditions, 118B6:133
coexisting plagioclase and amphibole pairs,
147B13:249
coiling ratio correlation, 127/128B(1)27:467
comparison of pore water and *Globigerinoides ruber*
SPECMAP global record, 121B15:303–305
composite depth model, 117B22:394; 121B15:306–
311, 340–355
cool-water bryozoans, 182B13:1–29
cool-water carbonates, 182B1:12; 11:1–14
cooling trend, 119B48:885
Cornaglia Terrace enrichment event, 107B24:394;
27:423–424
correlation, 150B12:233; 150X_B12:155–157;
155B39:596–597, 601–605; 162B4:56
corrensite, 147B14:280
covariance, 107B26:413
Cretaceous, 160B30:384, 389–390; 174AXS_A(sum-
mary):9–10; 198B1:39; 207B6:13; 208B1:9–10
Cretaceous–Cenozoic interval, 189B10:6–7
Cretaceous/Tertiary boundary, 119B47:859;
120B(2)54:964; 208B1:41
cross spectra, 138B33:678–679, 685
cyclicality, 117B24:437–438; 127/128B(1)25:431;
32:569–571
deepwater circulation, 198B1:7–8
depletion, 118B8:171; 119B19:377; 204B13:6–8
depth of events, 105B34:655
deuterium/hydrogen ratio, 127/128B(1)36:642
diabases, 137/140B8:102–105
diagenesis, 116B10:130–131; 124B14:214–215; 127/
128B(1)40:699; 134B8:120–121; 144B46:800–
803; 150B17:313–328; 192B2:1–15
diagenetic carbonate, 127/128B(1)6:83, 86–88
diatoms, 127/128B(1)33:588
dikes, 148B34:429
dinocysts, 105B33:630–631; 189B4:15
dissolved sulfate, 201B7:1–23
dolomite, 127/128B(1)6:89; 133B35:516;
143B11:162–163; 175B15:16–17
early Oligocene glacial maximum, 208A1:61
enrichment, 201B7:20
Eocene, 108B16:279; 119B38:707–709; 48:882–883;
150X_B17:238–241
Eocene–Miocene interval, 119B38:708–709; 48:882,
884; 52:935–939
Eocene/Oligocene boundary, 119A2:10; 119B38:694,
704, 708–714; 120B(2)55:979; 121B10:232;
177B(synthesis):6; 181B1:42–45; 199B1:13
Eocene–Oligocene interval, 105B9:124–125
eolian dust flux, 121B9:221
equilibrium values, 127/128B(1)6:89
eustatic sea level changes, 116B32:410
event ages, 167B7:135
faunal changes, 105B33:635
felsic veins, 118B27:546
fine fraction, 114B24:438, 440, 458; 199B17:8
fluctuations, 114B24:437, 446; 25:465–469
fluid flow, 166B8:91–98
fluid mixing, 158B11:137–138; 22:306–308
foraminifers, 113B46:814–815, 818–820; 47:831–832,
835; 48:849; 133B12:163–173; 14:185–186;
16:208, 212–213; 17:242–246; 19:269–273;
22:303–308; 134B13:293–308; 138B15:340;
22:505–508; 34:698, 701, 711; 141B17:236–239;
144B20:401–410; 43:738; 57:993–995;
146B(2)1:3–18; 151B22:391–405; 26:445–454;
152B18:243–248; 155B17:310, 317; 18:321;
20:358–361; 41:667; 159B40:548–549;
164B18:173–175; 165B4:88–93; 16:243;
167B7:129–140; 32:355, 358–359; 172B(over-
view):5; 175B11:6; 12:3–9; 177B9:1–26;
184B3:1–8; 4:1–8; 188B13:11; 15:5, 11; 195B3:6,
22; 202B12:5–13
Fourier spectrum, 175B21:21
gabbros, 118B6:129–131; 147B12:227–234
gamma ray logs, 127/128B(1)23:405
gas hydrates, 112B32:524; 127/128B(1)3:52; 164A1:8;
164B1:7
geomagnetic correlation, 114B24:447
glacial debris, 119B38:712
glacial–interglacial cycles, 107A6:143–144; 107B1:16,
26; 24:394, 397; 26:409–410; 38:702–703;

- 108B11:157–158; 12:177–179, 183;
114B28:527–531; 115B32:617–618; 117B17:293,
295, 300; 18:314; 19:324; 119B48:886;
121B15:304; 22:452; 127/128B(1)26:442–443;
175B(synthesis):80–81
glaciation, 120B(1)12:163–164; (2)44:849–852
global warming and Tertiary decline, 119B38:694
Gortani Ridge, 107B10:144
gradient variations, 105B12:180–181
grain size, 112B21:359–360; 121B8:214–215
greenhouse forcing, 207A1:8–11
Greenland Ice Core Project, 172B5:19
gypsum, 160B34:440–442
hiatus correlation, 119B52:936
hydrothermal alteration, 139B12:291–305;
147B12:244–249; 148B5:57–69
hydrothermal fluids, 139B21:421–423; 158B11:138–
139
hydrothermal mounds, 158B11:129–141; 21:285–309
hyperfiltration-osmosis, 116B10:130
ice core correlation, 177B(synthesis):17–19; 9:13
ice sheets, 119B6:78–79; 120B(2)44:852; 55:991;
56:1004; 177B(synthesis):14
ice volume, 108B6:96; 119B48:870
igneous rocks, 139B6:81, 84
Incertae sedis forma A, 160B10:132
Indian Ridge central, 118B6:133
interhole correlation, 117B6:149; 119B38:713
interspecific differences, 119B38:697
iron oxyhydroxide veins, 136B11:135
isotope stratigraphy, 155B16:287–290; 164B18:173–
175
Japan Sea, 127/128B(1)26:442–443, 447
Labrador Sea, 105B9:122–130; 33:634; 35:697, 703
large amplitude oscillations, 107B24:390–391
Late Cretaceous, 174AXS_A(summary):30
latest Maastrichtian, 174AXS_A(summary):11–12
latitudinal gradients, 120B(2)55:990–991; 56:1021–
1022
Lima Basin S, 112B25:431
limestone, 143B29:454–455
lithology, 112B21:360–361; 116B10:129–132;
129B3:81–117
loess, 127/128B(1)23:395
long-period variations, 117B24:437
lower–middle Eocene, 207B1:25
lower Oligocene, 182B14:4
lower Quaternary, 175B21:5–6
Maastrichtian, 174AXS_A(summary):32
Maastrichtian–Eocene interval, 121B40:885–889
magnesium correlation, 16B10:132
magnetic properties, 117A8:190; 117B18:311–312;
19:339; 133B38:560–561
magnetite, 149B32:544–546, 552; 153B20:382–385
magnetostratigraphy, 119B38:694–695;
120B(2)55:982
major climatic events, 177B(synthesis):39
marine geology, 154A3:42; 154B18:271; 21:321, 326–
328
marine isotope stages, 181B1:29–31, 105; 194B4:4
marker horizon depth correlation, 117B6:159
Marsili Basin, 107B10:144
mass balance calculations, 121B22:452–453
Maud Rise, 113B47:836–839; 48:860–861
meltwater peaks, 105B32:602
middle Pleistocene, 121B15:313; 181B1:34
millennial-scale variations, 202A1:116
mineral separates, 118B9:206–207, 212; 147B13:247
Miocene, 119B6:120; 121A8:211; 121B8:214; 10:232;
11:247; 44:943; 150X_B11:143; 20:283;
189B13:1–12
Miocene–Pliocene cooling trend, 119B13:249
modal composition and variations, 118B8:170
mollusk shells, 119B41:740, 742
nannofossils, 161B13:174
negative events, 108B12:176–177
Neogene, 119B48:887–888; 121B11:247; 208A1:11
Ninetyeast Ridge, 121B9:231–236; 15:329–339;
22:449
nodules, 139B15:333
Northern Hemisphere glaciation, 127/128B(1)23:403
obliquity, 202B1:7
oceanographic front oscillations, 127/128B(1)10:168
offsets in foraminiferal tests, 113B48:834–836
Oki Ridge stratigraphy, 127/128B(1)26:444
Oligocene, 119B13:248; 46:821; 120B(2)44:839;
150X_B15:189; 199B1:11; 17:3; 41:74
Oligocene/Miocene boundary, 177B(synthesis):7;
199B19:1–13
Oligocene–Miocene interval, 119B10:202
Oman margin, 117B18:310; 24:441; 25:448
ooze, 160B1:5–6, 17–18, 21
opal-A/opal-CT transition, 127/128B(1)36:641–642
opal-CT, 127/128B(1)3:51–54; 129B3:95
open-system characteristics, 118B6:135, 140
orbital frequencies, 105B34:657
organic matter, 201B1:9–10
Owen Ridge sites, 117B24:436; 25:448
Pacific Ocean W, 124B14:210–211; 17:236–237
“Pacific-type” carbonate stratigraphy, 177B(synthe-
sis):52
paleoceanography, 119B38:714–715; 138B33:676;
161B38:481–488; 167B8:141–150; 10:162–182
Paleocene/Eocene boundary, 119B38:697, 704, 706;
199B18:1–12
Paleocene–Eocene interval, 150X_B23:305–315;
198B10:13
Paleocene/Eocene Thermal Maximum, 198B1:45
paleoclimatology, 138B1:16–19; 166B2:13–22;
202B3:1–15; 207B1:4–12
Paleogene, 113B49:873; 53:949–950; 177B(synthe-
sis):20–22; 207B6:11–12
palynomorphs, 105B33:628–633
paragonitization, 158B21:292
pelagic oozes, 121B8:217; 10:231–232, 237–240
peridotites, 210B1:17
periplatform sediments, 115B35:654–655
Peru margin, 112B25:431, 436; 32:523–524
phyllosilicates, 176B1:5–6
Pisco Basin W, 112B21:367; 23:393
planktonic foraminifers, 105B33:623–637;
107A7:310; 115B31:599; 32:612–613;

- 117B17:292–299; 20:350; 23:410; 119B38:705;
120B(2)30:543; 44:842; 46:873; 56:1003;
121B11:246, 250; 127/128B(1)26:442–443;
138B13:289–319; 161B37:469–479;
167B22:257–260; 202B1:4; 207B6:3–4
Pleistocene, 105B32:610; 33:619; 107B23:363;
108B14:215–216; 114B26:476; 117B18:316–317;
177B(synthesis):44
Pliocene, 107B26:409–410; 115B40:730–735;
202B1:5; 13:1–27
Pliocene/Pleistocene boundary, 177B(synthesis):43
Pliocene–Pleistocene interval, 107B23:372–380;
24:388–395; 26:410; 38:701; 202B11:1–19
Pliocene–Quaternary interval, 160B12:157, 162;
14:181–189
plutonic rocks, 153B15:309–313
polar cooling, 121B8:211
polar ice accumulations, 113B53:939–940
porcellanite, 129B3:95
pore fluids, 156B29:354
pore water, 119B19:384–387; 121B22:448–453;
124B14:206–208; 127/128B(1)3:51–54; 6:84–85;
34:607; 36:639–643; 40:697–703; 133B35:515–
516; 48:705–706; 134B8:116; 141B25:313–329;
143B14:235–236; 144B58:997–999;
146B(1)25:379–380; 30:435–436; 152B25:294,
301; 154B13:201–206; 156B25:315–316;
161B32:413–421; 164B6:59–66; 12:129–137;
29:292; 166B8:94–95; 17:184; 174A_B(synthe-
sis):10; 2:1–11; 180B17:1–20; 184B13:4;
195B9:4, 14; 204B13:3–4; 207B16:1–11
power spectra, 138B43:843; 154B18:281; 20:309–313;
38:437
productivity cycles, 175B(synthesis):42–43
profiles, 105B32:604–609
Prydz Bay, 119B20:377
pyroxene vs. plagioclase pair, 118B6:141
quartz, 127/128B(1)3:51–54; 129B3:95
radiolarians, 120B(2)56:1004
reaction zones, 121B22:453; 137/140B13:147–150
recrystallization, 113B46:815–816; 137/140B14:163
red lutite, 172B(overview):5–6
Salaverry Basin, 112B23:393
salinity, 107B27:424; 113B49:876
saponite clays, 127/128B(2)55:888
sapropels, 160B26:309–331
Sardinian margin, 107B23:370–372
sea level changes, 117B19:323–324, 337; 121B44:943;
150A2:11–12; 166B6:65–66; 189A1:67
sea-surface temperature, 117B19:323; 25:446–449,
452
seawater, 118B8:170, 174; 9:206; 119B38:695;
202B1:4
secondary minerals, 115B9:98–99; 127/
128B(2)55:888; 137/140B14:160
sediment color cycle correlation, 117B12:244
sediment mass accumulation rates, 108B15:249;
117B18:312
sedimentation, 117B17:293; 121B9:226–227
sediments, 133B11:129–161; 30:461–463;
145B38:581, 583; 146B(1)15:261; 160B1:13–15;
166B13:138–142; 14:147–151; 167B11:169–173;
175B(synthesis):16–17; 21:27–31; 178B7:5–11;
182B12:5; 183B7:6, 26; 192B2:4; 199B21:31
serpentines, 153B20:382–385
serpentinites, 149B32:541–552
serpentinization, 153B20:381–388
siderite, 155B30:500
silica, 127/128B(1)3:49; 40:701–702
Site 680, 112B21:364–365; 22:371; 25:431
Site 681, 112B25:431
Site 689, 113B48:852–856
Site 690, 113B48:850, 853–855; 53:942
Site 704, 114B5:98–99; 23:412–415, 423–435; 26:475–
476
Site 709, 115B28:536–538
Site 716, 115B29:546–547; 30:580–582
Site 738, 119B38:700–705
Site 744, 119A13:503; 119B38:696–699; 46:826–828;
52:935–939
Site 747, 120B(2)45:855–858
Site 748, 120B(2)27:502–503
Site 754, 121B10:231–232
Site 794, 127/128B(1)36:641–643
Site 795, 127/128B(1)36:641–643
Site 796, 127/128B(1)36:641–643
Site 797, 127/128B(1)33:593; 36:641–643
Site 798, 127/128B(1)26:442–443; 40:698–699
Site 799, 127/128B(1)34:614; 40:698–700
Sites 1170 and 1190 comparison, 189B9:11
Sites 689–690 comparison, 113B49:867–869, 874;
53:946, 948
Sites 851 and 1241 comparison, 202B12:45
SPECMAP comparison, 105B34:656; 182B15:4
spectral analysis, 202B13:24–25
spliced records, 162B18:251, 254
stable isotope stratigraphy, 171B_B5:1–14
standard sediment sample, 121B41:892
stratigraphy, 108B12:174–177; 13:191–193;
112B22:372, 374; 114B27:490–495, 501–504,
507; 117B19:323; 119B52:935; 127/
128B(2)77:1221; 133B11:131–142; 143B6:99–
108; 145B7:134–139
strontium isotope correlation, 119B40:734
subducting pelagic sections, 205B4:1–18
sulfate reduction, 160B29:365–373
Sulu Sea, 124A8:109; 124B29:383–384
surface water, 105B32:602; 113B49:870–871, 874–
875; 53:945; 119B38:697, 704, 709–710, 714;
127/128B(1)27:464–465, 468
systematics, 119B38:696–697
temperature, 153B26:467–468; 166B2:17–21;
177B(synthesis):39; 189B1:29; 193B1:23
tephra layers, 121B14:285; 152B5:54
Termination I, 107A6:144
Termination IV, 107A7:310
time-frequency analysis, 133B12:173
time series analysis, 117B20:351–354; 167B32:360–
361
timescales, 154B3:74; 20:304–305
tracers of seawater vs. connate waters, 143B14:232
troctolites and gabbros, 147B14:280–281

- Trujillo Basin, 112A6:99; 112B25:431
Tyrrhenian Sea, 107B10:144
ultramafic rocks, 153B26:464–468
upper Paleocene, 198A1:96
upper Pleistocene, 172B9:1–14
upwelling, 116B10:130–131; 117B19:337–339
veins, 118B8:173–174; 136B11:139, 143; 147B13:249
vent fluids, 125A4:75
volcanic ash, 127/128B(1)3:52; 36:641; 40:701;
151B17:313–314
vs. age, 114B25:468; 132B6:79; 133B32:487;
138B13:302–307; 15:346, 349, 352; 17:379, 386,
390; 22:509–510; 27:611; 33:677; 39:802–805;
43:842, 844; 144B42:720, 722; 145B16:253;
18:279–281; 20:296–300; 21:320–321; 38:584;
146B(2)1:11, 13; 11:164–167; 12:192; 17:235,
237; 21:285, 289–291; 23:316–317;
150X_B23:310–312; 27:370; 151B25:440–443;
26:452; 27:463; 154B14:215, 218, 224–226;
15:232; 16:246; 17:258, 260; 18:278–282;
19:286, 289–290, 296; 20:315–316; 21:321–324,
327; 22:343–344; 24:371; 28:436; 30:459;
154B30:459; 155B20:364; 159B40:548–549;
41:564; 160B14:186; 26:316–317; 30:389;
161A1:14; 161B37:475–476; 39:499;
164B18:175; 165B4:94, 97; 17:262; 18:281;
166B2:19; 167B7:135–138; 8:144; 9:150; 17:223,
226; 21:252–253; 22:258; 32:355, 358;
172B9:10; 174AXS_A(summary):30; 175A6:146;
17:526; 175B11:18; 12:12–13, 16; 19:14;
177A4:25; 177B(synthesis):35, 38, 41–45, 52;
9:10–16, 19; 12:9–12; 20:7; 178B7:30–31; 20:6;
181B9:5; 182B1:24, 30; 13:22; 15:10; 183B7:21;
184B2:23–24; 3:6; 4:5; 5:6–7; 11:14, 18; 12:19,
22–23; 15:16; 17:15; 19:14–15; 185B7:20;
188B1:42; 189B9:11; 192B2:12; 195B3:6, 22, 25;
198A1:95–97; 198B1:27; 199B21:28; 202B3:14;
4:29; 12:38–40; 13:21–23; 206B4:21; 207A1:63;
207B7:7; 208A1:58
vs. age models, 175B18:22
vs. albite percentage, 137/140B8:103
vs. alteration percentage, 137/140B8:103
vs. amphibole percentage, 137/140B8:103
vs. calcite content in *Adeonellopsis*, 182B13:21
vs. calcium, 134B8:121
vs. calendar age, 167B25:293
vs. carbon isotopes, 127/128B(1)6:88; 134B6:94;
143B6:102; 144B14:284; 23:433, 436; 24:442;
46:808–809; 48:860, 868; 57:995; 146B(1)6:132,
142; 148B10:148; 149B33:557; 150B17:320;
150X_B23:313; 151B24:427–428; 154B21:326;
29:443; 159B8:74–77; 160B10:132; 35:450;
164B29:297; 30:308; 165B18:281; 177B(synthe-
sis):36; 20:8; 21:19, 22–23; 23:31–32, 35–36;
182B12:10; 198B12:11; 202B4:31–33; 206B4:21;
207B6:19
vs. carbonate content, 144B13:265; 183B7:15
vs. carbonate trace elements, 148B10:148
vs. centimeters from the Cretaceous/Tertiary bound-
ary, 174AXS_A(summary):33
vs. chloride, 134B8:121; 152B25:296; 164B6:61, 63;
166B8:93, 96
vs. chlorite volume percent, 158B21:290
vs. chromaticity, 172B9:7–9
vs. color, 167B32:363
vs. composite depth, 145B17:259; 154B14:215;
160B13:172
vs. corrected depth, 138B15:341; 167B21:252; 22:258
vs. depth, 114B23:410–411, 416–429; 24:440–441,
452–454; 116B10:128–129; 133B11:139, 143,
146; 12:165, 170–173; 19:267; 32:486; 48:707–
713, 721; 134B8:120; 137/140B8:104–105;
14:162; 138B17:374–378; 33:677; 43:842;
139A14:319–320; 139B12:296–299, 304;
141B29:369–370; 144B23:432, 435; 43:739–741;
46:805; 58:998; 145B18:271–272, 281;
146B(1)7:142, 144; 10:179, 184; 25:380; 30:438;
(2)1:9–10; 22:302; 23:315; 147B12:230–231;
14:278–279; 148B5:61; 10:143, 146; 34:423;
149B46:708; 150B7:117; 17:320; 151B24:428;
25:439; 26:449; 27:459–463; 28:472–473;
152B25:296, 302–303; 154B13:203–205; 16:244;
19:288; 28:435; 30:457–458; 155B6:143;
16:285–302; 17:313–314, 317; 19:339–345;
31:517; 156B29:355; 158B6:86; 11:135;
159B40:540; 41:564; 43:590–593; 160B1:6;
14:184; 30:389; 35:449; 44:573; 161B32:418;
33:427; 164A4:62–63; 5:65; 6:132, 144; 7:175;
9:308, 311; 164B29:299; 165B4:92–93; 18:278–
281; 166B2:16–17; 6:65; 8:93, 96–97; 13:142;
14:152; 167B7:135; 8:143; 9:146; 32:363, 372–
373; 168B9:107–115; 171A_A3:36; 171B_B5:6;
174A_B2:7–8; 175B7:14; 12:12; 177A1:53;
177B(synthesis):34; 9:9, 11, 15–18; 12:8, 11;
180B17:11; 181B1:101; 10:5–6; 182B11:6; 12:9;
13:15–17; 14:8; 15:7–10; 183B7:16; 184B2:21;
3:5; 4:6; 5:5; 9:21; 13:11; 188B13:33; 15:9;
189B9:13–15; 13:5–6; 192B2:11; 194B4:9–10;
195B7:9; 9:10; 198B12:10; 13:8–14; 199B17:6;
18:8–9; 201B1:41; 7:15–18; 202B11:6;
204B13:15, 17; 205B4:9–15; 7:30; 207B7:6;
16:5–6; 208A1:60
vs. deuterium, 116B10:128–130; 127/128B(1)34:615;
36:643; 134B8:122
vs. estimated diatom abundance, 175B21:23
vs. fluid/rock ratio, 153B20:386
vs. fluoride, 144B24:442
vs. fluoride/calcium ratio, 144B57:994
vs. gamma ray attenuation density, 138B15:351–352
vs. hydrogen isotopes, 195B9:10
vs. insolation, 138B15:350–351
vs. iron, 139B14:326
vs. iron and volatile content, 148B10:144
vs. loss on ignition, 147B12:232
vs. magnesium, 137/140B13:146, 151; 144B24:443
vs. magnetic susceptibility, 133B49:742–744;
145B31:473; 154B11:183
vs. manganese, 139B14:326
vs. Messinian/Pliocene boundary, 160B1:6
vs. normal mid-ocean-ridge basalts, 118B6:133
vs. organic carbon, 154B20:315

- vs. paleoclimatic curves, 161B40:511, 513
- vs. palynomorphs, 155B23:390
- vs. plagioclase, 147B12:231
- vs. planktonic foraminiferal zones, 160B30:389
- vs. potassium, 127/128B(2)79:1273
- vs. reflectance, 172B9:7–8; 182A8:50
- vs. rubidium, 127/128B(2)79:1273
- vs. salinity, 166B2:19
- vs. spectral analysis, 117B18:312, 313
- vs. strontium, 144B24:443
- vs. strontium-87/strontium-86 ratio, 158B11:138; 22:305
- vs. strontium isotopes, 147B16:312; 148B5:65; 10:143, 148
- vs. subbottom depth, 141B25:316–317
- vs. sulfate, 160B29:370; 161B32:417
- vs. sulfur isotopes, 158B6:87; 161B32:418
- vs. temperature, 149B33:557; 167B32:359
- vs. time, 160B13:173, 177
- vs. Vostok ice deuterium, 177B(synthesis):54
- vs. water/rock ratio, 137/140B8:105
- warming temperature, 133B33:496
- water in gas hydrates, 164B2:20–21
- water temperature, 113B46:813; 120B(2)29:528; 36:657; 44:839; 56:1003
- water/rock ratio, 118B6:135–136
- weathering effects, 119B19:381
- whole rock, 118B8:170–171; 9:206; 129B22:423, 425; 148B5:64; 153B26:467
- Yaquina Basin, 112B25:431, 435
- See also* glacial positive oxygen isotopic events; marine oxygen isotope Oi-1 glacial event; marine oxygen isotope Mi-1a event; stable isotopes
- oxygen isotopes, benthic, vs. age, 199A1:56
- oxygen isotopes, in mineral separates, 147B13:248
- oxygen isotopes, planktonic record, 165A5:240
- oxygen isotopes (clinopyroxene), vs. oxygen isotopes (plagioclase), 153B15:313
- oxygen isotopes (plagioclase), vs. oxygen isotopes (clinopyroxene), 153B15:313
- oxygen isotopes (quartz), vs. depth, 158B21:291
- oxygen isotopes (sulfate)
 - vs. depth, 160B29:371
 - vs. sulfur isotopes, 160B29:373
- oxygen level, formation of color-banded bedding, 127A7:349
- oxygen minimum zones (OMZ)
 - Arabian margin, 117A1:9
 - Arabian Sea, 117A1:6
 - biochemical processes, 117A4:45–46
 - biostratigraphy, 115B31:597–598; 181B1:21; 202A7:11–15
 - bioturbation, 183B7:11
 - causes, 117B17:291
 - Cenomanian/Turonian boundary, 207A1:7
 - clay mineralogy, 117B8:191–192
 - cyclostratigraphy, 207B2:15
 - deposition, 143B37:591; 210A3:62
 - diagenesis, 144B48:865–866
 - displacement, 112B22:380–381
 - dissolution, 117B18:314–315
 - ferromanganese crusts, 144B44:760
 - glaucopy, 150B10:181–182
 - Indian Ocean N, 117A1:6
 - laminated sediments, 117A4:43
 - lithology, 146A(2)2:32; 207B9:8
 - magnetite, 146B(2)12:179
 - oceanography, 202A1:5–6
 - Oman margin, 117A4:50; 11:320
 - ophiolites, 117A13:420; 14:442; 15:468; 16:496; 17:548; 18:556
 - organic carbon, 117B6:155
 - Peru margin, 112B22:369
 - phosphate association, 112B8:113
 - Pisco Basin W, 112A18:706, 716
 - regional vs. local origin, 117A13:434–435
 - Salaverry Basin, 112A12:250
 - sea level influence, 112A18:714
 - Site 680, 112B22:379
 - Site 722, 117B33:548
 - Site 724, 117A12:386
 - Site 726, 117A14:464
 - Site 728, 117B33:548
 - Trujillo Basin, 112A16:526
 - upper boundary fluctuations, 112A13:327
 - Upper Cretaceous, 159B33:435
 - upwelling, 112A19:804; 112B4:46; 34:539; 117A1:9
 - oxygen paleolevels, lycopane, 207A10:11
 - oxygenation
 - basins, 146B(2)23:309–312, 320–323
 - bioturbation, 127A6:267, 315
 - burrows, 127/128B(2)78:1232
 - carbon/sulfur ratio, 127/128B(2)78:1249
 - cerium anomaly, 127/128B(1)39:692
 - dark–light cycles, 127/128B(1)25:432; 32:574–575; 33:590–591, 595
 - deposition, 192A3:12–13; 6:11–12
 - diagenetic carbonate, 127/128B(1)6:93–94
 - dolomite, 127/128B(1)6:92
 - gateway history, 189B1:8–11
 - glacial–interglacial variations, 127/128B(1)33:590–591
 - igneous provinces, 192B1:6
 - Japan Basin, 127A5:199; 127/128B(1)12:201–208
 - Japan Sea, 127/128B(1)12:216; 20:342–343; 25:430; 39:678–679; 41:705, 713–715; (2)77:1221
 - Kita-Yamato Trough, 128A5:354–355
 - lithofacies, 146B(2)22:299
 - lithology, 207A4:10; 5:9; 8:9–10
 - manganese, 127/128B(1)6:90
 - organic geochemistry, 127A6:267, 283
 - oxygen isotopes, 127/128B(1)26:442–443
 - paleoenvironment, 189A6:48
 - sedimentation, 165B4:98
 - sediments, 199B22:8
 - Site 794, 127A4:96; 127/128B(1)12:209
 - Site 795, 127A5:212; 127/128B(1)41:708–709, 713–715
 - Site 796, 127A6:247, 251, 267
 - Site 797, 127A7:349; 127/128B(1)12:209; 33:593
 - Site 799, 127/128B(1)6:76–77, 91–92

sulfur vs. organic carbon plots, 127/128B(1)41:708–709
wind velocity, 127/128B(1)26:447
Yamato Basin, 127/128B(1)12:189, 201–208
See also redox

oxygenation, benthic, sulfur, 146B(2)16:228

oxyhydroxides
ferromanganese crusts, 144B44:751, 757–758
low-temperature minerals, 176A3:38
photograph, 144B44:763
See also ferrihydrite; manganese oxyhydroxide; manganese

oxyhydroxides, iron, paleosols, 144B19:388

oxyhydroxides, iron-manganese, veins, 131B32:406, 411–412

Oxytomidae, Site 692, 113B28:444, 448

oyster shells
abundance in carbonates, 144B6:130
lithology, 174AXS_A1:23–24; 5:34–35; 6:28–29; 207A8:9
photograph, 144A10:351; 144B16:332; 194A4:58
Sardinian margin, 107A10:765

P

P1 layer
ash fall layers, 157B14:202–205, 211–213; 16:275
genesis, 157B14:213–214
photomicrograph, 157B14:217
volcaniclastics, 157B14:215–216

P-modulus
vs. depth, 201A12:45
See also foliation

P-T conditions. *See* pressure-temperature conditions

P-waves. *See* compressional wave velocity

“*pachyderma*” event, ocean circulation, 165A4:154–155; 5:250; 165B2:29

Pacific assemblage, paleobioprovinces, 144B50:890–892

pack ice
Prydz Bay, 119A4:110, 112–113
Site 738, 119A4:110, 112–113
Site 744, 119A4:110, 112–113

packer experiments
décollement zones, 156B15:199–218
fault zones, 146B(1)18:291–297
inflation tests, 148B27:359–360
methods, 102A3:97
permeability, 139B29:614–620; 148B27:357
pressure-time records, 148B27:357
Site 892, 146A(1)7:355, 357–359
Site 896, 148A3:174–175
Site 948, 156A6:169–171
Site 949, 156A7:253–256
Sites 1023–1025, 168A4:96–97
Sites 1026–1027, 168A5:146–147, 153
structure, 131A6:195–198
well-logging, 139A7:370; 8:533–535

packstone
biostratigraphy, 110A5:223; 120A7:198
carbonates, 161B6:78
Cenomanian–Coniacian interval, 159B12:116–118

clay mineralogy, 133B30:465–466
Coniacian–Eocene interval, 159B12:119
Cretaceous, 143B10:136–140
deposition, 129B12:232–233; 133B22:303–308; 166A2:16
diagenesis, 144B46:791–796
Eocene–Miocene interval, 133B21:296–299
Exuma Sound, 101A10:389–390
faults, 159A6:186–187
geochemistry, 144B59:1001
grain size, 182B15:3–4
image facies, 166B7:78–81
isotopes, 143B6:103
lithofacies, 133A(1)4:86, 91; 143B30:473–477, 486–488, 491–493; 144B14:282–283; 16:319; 17:340–359; 160B38:495
lithology, 101A7:221; 129B3:88; 133A(1)6:183; 10:357; 13:512–514; 14:576; 16:688, 696–697; 18:808; 144B13:267–268; 160A6:143; 7:196; 161A8:357–358, 361; 166A6:77–80, 115; 10:299, 303; 173A8:234; 180A6:12, 15, 23–24; 8:10; 9:14–15, 22–23; 12:18–19; 180B6:8, 11, 13; 182A1:19–20; 4:5–8; 5:4–9; 6:4–5; 8:4–7; 9:4–8; 12:4–6; 183A7:7–8; 194A4:6–10; 5:3–6; 6:4–5; 7:10–11; 202A7:7–10
Little Bahama Bank, 101A6:120; 7:214–216, 219, 220
Mascarene Plateau, 115B9:94
microfacies, 133B21:294–296, 298–299
mid-Cretaceous, 207B2:6–7
Miocene, 160B33:420–436
outer perimeter ridges, 144B15:296, 299
paleoclimatology, 207B2:11
paleoenvironment, 133B4:60
petrography, 143B12:176, 179–180; 144B48:846
photograph, 144A7:268; 10:350; 144B16:332; 160B33:422; 161A9:364; 166A6:81; 10:300; 180A6:97, 108–109; 9:88; 12:79; 183A7:71–72; 194A3:29; 5:50
photomicrograph, 160B33:425; 37:472; 38:506, 508; 182B9:11; 194A3:31, 34; 4:61, 65
reef mounds, 182A2:4; 182B1:9–10
rock magnetism, 166B4:35–43
Sardinian margin, 107A8:416–417; 107B2:32; 38:645
sedimentation, 183A1:37, 39
Site 715, 115A12:917, 922
Site 748, 120A7:172; 120B(1)9:133
stratigraphic sequences, 133B25:355, 358–360
thickness, 101A10:390
vener seams, 133B36:529
volcaniclastics, 180B8:4–5
well-logging, 144A7:284
X-ray diffraction data, 160B33:427–428
See also biopackstone; grainstone-packstone series; grainstone-rudstone-packstone series

packstone, algal coralline, lithology, 133A(1)5:146–149
packstone, alveolinid-rich, photograph, 144A3:56
packstone, benthic foraminiferal, photograph, 144A3:59
packstone, bioclastic
geochronology, 182B8:4–6
lithofacies, 143B30:472–473

- lithology, 133A(1)4:91, 93; 7:208; 13:514–516;
 16:693–701; 17:776–779; 133B27:384–385;
 166A8:177–178; 10:298, 301; 182A1:25–26, 28,
 31, 33, 37; 4:9; 5:5–8; 7:5–8, 11–12; 8:4–9; 9:4–7;
 10:6–7; 11:6; 182B12:3–5
 moldic porosity, 133B45:669
 photograph, 133A(1)10:364; 134A11:334;
 166A10:301; 182A7:37; 10:41, 44–45
 photomicrograph, 182B12:8
 reef mounds, 182B13:1–29
 well-logging, 133B23:317–324
 packstone, bioclastic coarse, lithofacies, 143B30:483–484
 packstone, bioclastic peloidal, lithology, 133A(1)5:148–
 149
 packstone, bryozoan, lithology, 182A1:33; 182A10:406
 packstone, calcisphere, lithology, 171B_A6:257
 packstone, cemented skeletal, lithology, 144A7:262–263,
 266
 packstone, chalky, photograph, 144A3:54
 packstone, coarse-grained skeletal foraminiferal
 photograph, 182B9:14
 photomicrograph, 182B9:11
 packstone, dolomitic, lithology, 133A(1)5:144–146;
 166A10:297–298
 packstone, dolomitized, photograph, 182A7:38
 packstone, fine-grained skeletal foraminiferal
 lithology, 182B9:4–5
 photograph, 182B9:14
 photomicrograph, 182B9:11
 packstone, foraminiferal
 cyclostratigraphy, 207B2:9–17
 deposition, 144A4:119
 lithology, 133A(1)5:148–149; 7:207; 144A8:294–295;
 166A10:295–296; 171B_A6:253, 256; 182A6:10–
 11; 10:9–10; 194A3:5–6; 4:7–8
 photograph, 133A(1)7:212; 182A7:36; 194A6:34;
 207B2:29–31
 packstone, foraminiferal lithified, lithology,
 133A(1)8:259
 packstone, foraminiferal skeletal, lithology, 144A9:290–
 291
 packstone, gastropod, photograph, 144A10:349
 packstone, glauconite-bearing sandy, lithology,
 183A5:5–6
 packstone, glauconitic/phosphatic, mid-Cretaceous,
 207B2:7
 packstone, grain-peloid, photograph, 144B16:334
 packstone, indurated muddy skeletal, 144B15:296–299
 packstone, intraclast, photomicrograph, 173A4:80
 packstone, laminated, lithology, 166A10:299–300
 packstone, medium-grained skeletal foraminiferal
 lithology, 182B9:5
 photograph, 182B9:14
 photomicrograph, 182B9:11
 packstone, mollusk, lithology, 133A(1)5:148
 packstone, muddy, photograph, 144B15:307
 packstone, nannofossil foraminiferal, photograph,
 144B5:105
 packstone, pebbly, photograph, 180A9:88
 packstone, peloidal
 lithology, 144A10:340–341; 166A7:154–156; 10:298
 photomicrograph, 173A4:78; 8:233
 packstone, porcellaneous foraminiferal-red algal, micro-
 facies, 194B5:8
 packstone, quartz-sandy, photograph, 159B12:119
 packstone, radiolarian, photomicrograph, 192A6:60
 packstone, red, lithology, 143A8:278
 packstone, rudist algal, lithology, 144A8:291–292
 packstone, sandy
 lithology, 183A1:24; 7:7
 photograph, 183A5:69; 7:70
 sedimentation, 183A5:8
 packstone, silt-sized
 photograph, 194A5:49
 photomicrograph, 194A5:53
 packstone, skeletal
 biostratigraphy, 144A7:272–273
 depositional history, 144B18:361–380
 lithology, 144A5:155–158; 6:216, 219–220; 10:341,
 350; 11:417–420; 159A6:168–170; 194A4:7, 9;
 5:4–6; 6:3–4; 8:4–9; 9:4–8
 photograph, 143B29:452; 144A7:264; 11:425;
 144B46:810; 159A6:169, 172; 194A4:37–39, 42,
 50; 5:44, 51; 6:35–36; 8:35–36; 9:31
 photomicrograph, 194A4:39, 51; 5:52; 8:38
 packstone, skeletal dark gray, lithology, 144A3:52
 packstone, spiculitic skeletal, lithology, 182B9:2–7
 packstone, turbiditic, lithology, 133A(1)16:688, 691–692
 packstone, unlithified
 lithology, 166A11:350–355
 photograph, 202A7:48
 packstone, unlithified foraminiferal lithoclastic,
 166A10:297
 packstone, unlithified peloidal, lithology, 166A10:297
 packstone-chalk series, foraminiferal-peloidal,
 173A8:233
 packstone-floatstone series
 bioclastics, 166A10:299
 foraminifers, 144A8:294
 lithology, 143A8:278
 red algal *Miogypsina-Lepidocyclina*, microfacies,
 194B5:9–10
 packstone-grainstone series
 litholog, 194A5:4–6
 photograph, 144A5:169; 194A5:45
 packstone-grainstone series, skeletal, lithology, 194A8:5–
 9
 packstone-wackestone series
 benthic foraminifers, 144A3:49–50
 bivalve/gastropod/echinoids, 143A8:278
 cycles, 143A7:196, 199
 foraminifers, 117A14:446
 nummulitids, 117A14:449
 pahoehoe lava flows
 basalts, 183A1:34; 183B14:2–8
 basement, 183A5:23–35; 6:26–28, 32, 34, 37–46;
 7:30–35; 9:15–16; 197A4:18–19
 breccia, 183A1:16
 diagnostic features, 163B5:49
 graphic logs, 197A3:72–74
 groundmass, 163A5:57
 lava flows, 183A1:37; 4:16

- lithology, 152A9:126–127, 139; 163A4:37–38;
 183A1:21; 197A4:14
 lobe thickness distribution, 197A3:70
 melts, 163B12:145
 photograph, 183A5:75, 82–83; 6:104, 123; 7:102;
 9:56; 183B14:18–19
 physical and magnetic properties, 163B4:41–49
 stratigraphy, 197A1:13
 vesicles, 197A1:10–11
 volcanic rocks, 197A6:8
 vs. a'a lava classification, 183B14:20–21
See also compound pahoehoe lava; simple pahoehoe
 lava
 pahoehoe lava flows, channelized, photograph,
 183A6:114
 pahoehoe lava flows, compound
 internal architecture, 197A5:11–13, 45; 6:10, 31
 volcanology, 197A3:16–17
 pahoehoe lava flows, folded, photograph, 183A6:114
 pahoehoe lava flows, rubbly
 lava flows, 183B14:5
 macroscopic attributes, 183B14:23
 vs. a'a lava classification, 183B14:21
 pahoehoe lava flows, slab
 identification, 183B14:3–8
 macroscopic attributes, 183B14:23
 vs. a'a lava classification, 183B14:20
Palaeophycus, lithology, 174A_A4:104, 111; 5:159–160;
 181A1:16; 4:6; 5:5; 7:8, 11; 8:5, 8–9
Palaeophycus heberti
 lithology, 182A6:9; 7:8–9
 photograph, 182A7:36
 palagonite
 alteration, 124B13:188, 190–191; 135A(1)5:223;
 148B14:208; 187A1:10–11; 4:4; 6:5–7; 7:5–8;
 9:5–7; 13:11; 187B1:7–8; 200A3:22–27;
 200B2:13–14
 basalts, 151A5:78–79; 191A4:27, 144
 composition, 148B11:167; 200B3:35
 gabbros, 205A4:27–28, 31–32
 glassy rims, 168B10:126, 134
 Gortani Ridge, 107A11:890
 lithology, 180A9:21; 12:9; 183A4:5, 11; 5:13;
 187A6:4–5; 11:4; 13:6; 14:3–4; 197A4:6;
 200A3:12–13, 15–19
 occurrence, 102B10:143
 petrography, 187A8:5; 15:6–7
 petrology, 191A1:15
 photograph, 187A1:38; 4:14; 7:21–22, 28; 8:32; 10:7,
 16, 18; 11:27; 12:21, 31; 14:9–10, 17, 24; 15:18,
 21, 28, 37
 photomicrograph, 187A1:39; 6:29, 31; 8:44; 12:28;
 13:22; 15:31, 39; 187B5:19; 191A4:102;
 200A4:106
 redeposition, 205A6:9
 Site 786, 125B14:268–269
 stratigraphy, 205A5:15–16
 thin sections, 201A12:11
 volcanology, 197A3:16–17
 See also alteration; clasts; fibropalagonite
 palagonite, vesicular
 alteration, 129B19:362
 photograph, 145A5:137
 photomicrograph, 129B4:134; 5:143, 148, 152; 6:158
 Site 802, 129B4:120
 palagonite rims, photomicrograph, 200A3:92, 94, 98–99;
 4:106, 108
 palagonite/volcanic ash ratio, vs. depth, 197A4:39, 41
 palagonitization
 alteration, 187A4:4; 15:9; 185A3:26; 200A3:22–27
 basalts, 165A6:327; 195A4:21–22
 composition, 187A11:12
 ferrobasalt, 200B3:4–6
 glass shards, 183A4:12–13
 hyaloclastite, 143B16:265–266
 igneous rocks, 205B1:12–13
 lithology, 170A4:108; 197A5:5
 mineral chemistry, 200B3:8
 photograph, 187A7:22
 photomicrograph, 187A6:29; 187B5:16; 192A4:77;
 195A4:91
 sediments, 195A1:22
 tephra, 205A4:20, 25
 See also alteration
 paleobathymetric curve, vs. depth, 159B25:286, 288, 290
 paleobathymetry
 biostratigraphy, 141B15:214; 146B(1)5:102;
 150X_B15:199; 16:214–221, 225; 159B31:391–
 393; 174A_A3:61; 180A6:47–48; 182A1:11–12;
 189A5:29; 6:35
 Cenozoic, 134B12:265–291; 150B5:67–68
 changes, 159B11:106
 Cretaceous, 171B_A1:6
 deposition, 141A8:291; 156A6:100–101; 192A4:9–10
 distribution, 150X_B16:212
 Eocene, 197B2:2
 history, 189B10:3
 mid-Cretaceous–lower Paleogene interval, 192A3:157
 middle Eocene, 159B33:435–436, 438
 Pacific Ocean E, 138B42:827
 sedimentation rates, 180B(synthesis):33; 4:5–11
 Site 814, 133A(1)7:213
 subsidence, 161B5:73
 volcanism, 157A2:17
 vs. depth, 160B39:511–512
 zonation, 208A3:46; 4:49; 7:46; 8:46
 See also bathymetry
 paleobiogeography
 Albian–Eocene organisms, 144B50:887–893
 algae, 144B11:225
 biostratigraphy, 129B37:702; 159B28:352; 29:364,
 366–367; 30:379–380
 Cretaceous–Paleocene interval, 159B24:254–258,
 261–262
 Mesozoic, 159B35:488–489
 rudists, 143B1:8–9
 See also biogeography; paleobioprovinces
 paleobioprovinces, Cretaceous–Paleogene interval,
 144B50:891–893
 paleobotany, mid-Cretaceous, 183B3:1–39
 paleoceanographic proxies, monsoon, 184A1:13

paleoceanography

age models, 130B44:718–719; 189B9:7–8
 alkenones, 146B(2)19:263; 165B16:239–247
 Amazon Fan, 155A2:17–21
 Arctic Ocean, 162A1:5–20
 bathymetric gradients, 172B(overview):5–6
 biostratigraphy, 130B19:333–348; 138B9:163–176;
 25:555–597; 33:675–693; 34:695–714; 47:911–
 930; 141B15:214; 16:230–231; 144B1:12; 3:74–
 76; 7:147–148, 150; 151B11:197–201;
 152B11:147–160; 15:209–219; 159B26:327;
 29:363–373; 162B4:58; 11:174–175;
 164B33:338–339; 167B6:120; 172A7:319–321;
 175B7:5–8; 177A6:10; 180A6:45; 181B1:20–21;
 182A1–12, 20; 182B3:14; 183B7:6–7; 186B3:1–
 21; 4:7–9, 19–20; 5:1–15; 199B24:8–10;
 201B14:2–3; 202A5:8–10
 calcite, 154B34:491–499
 carbonate compensation depth, 157B10:122–123
 carbonate crash, 206B4:1–24
 carbonates, 130B3:34–35; 133B52:768–769;
 144B52:929–930; 16:329; 181B1:36
 Ceara Rise, 154A9:440–441; 154B18:269–284; 19:285–
 297; 20:299–318
 Cenozoic, 130B12:231–244; 25:432–433;
 134B12:265–291; 141B30:373–377;
 144B42:702–703; 43:742–743; 145A3:61–62;
 4:101–102; 5:179–180; 6:273–276; 7:318–319;
 8:363–364; 145B29:452; 38:577–578, 581–586,
 593–594; 150B5:65–95; 151A1:20; 13:409–411;
 151B6:101–124; 8:158–161; 22:391–405;
 35:641–658; 152B16:226–227; 24:283–292;
 154A1:8–9; 9:440–441; 154B27:395–431;
 30:451–461; 161B39:489–503; 181B1:6–7;
 189A1:1–6, 57–60; 198B1:1–47; 208A1:32–33
 chart indicators, 138A(2)16:929–930
 clay, 190/196B4:9–10
 continental margins, 152A1:15–16
 correlation, 145B34:503
 Cretaceous, 129B13:247; 143B2:24–25; 149B13:299;
 171B_B10:1–22; 183B1:21–22, 28; 198B1:1–47;
 210A1:28–29
 Cretaceous–Cenozoic interval, 132B1:3–13
 Cretaceous–late Tertiary interval, 144B44:745–769
 Cretaceous–lower Cenozoic interval, 171B_A1:7
 Cretaceous/Paleogene boundary, 208A1:9
 Cretaceous–Paleogene interval, 144B5:116; 207B1:1–
 26
 Cretaceous/Tertiary boundary, 165A1:8–10
 Cretaceous–Tertiary interval, 165A4:154–155; 6:341–
 342, 346–348; 8:380–385; 165B2:29
 deposition, 133A(1)5:168–171; 161B4:66–67;
 166B2:18–21; 15:161–162
 dissolution cycles, 134B13:301
 Eocene, 105B36:717–718; 183B1:22, 28
 Eocene/Oligocene boundary, 181B1:42–45
 Eocene–Oligocene interval, 183B1:22–23, 28;
 198A1:11; 199A1:20–22
 evolution, 151B3:54–55
 Flandrian transgression, 146B(2)12:180–181
 gateway opening, 207A1:13–14

geochemistry, 138B36:763–764
 grain size, 167B25:291–294
 gamma ray attenuation density, 130B37:625–627, 635
 Haptophytes, 167B10:155–160
 Holocene, 178B7:10–14
 ice-rafted debris, 181B1:36–37
 indicators, 130A9:448–449; 130B33:566–568
 intermediate water, 133B16:204–205
 isotopes, 143B6:99–104
 laminated diatom ooze, 138B30:641–645
 late Albian–early Campanian interval, 207B1:5–6
 latest Quaternary, 165A8:385
 lithology, 133B33:496; 162A9:302–303; 181A5:6–8;
 210A3:25, 29–30, 35–36, 38–39, 43–44, 46, 49–
 50
 lower Cenozoic, 182A1:12–13
 Lower Cretaceous, 198A1:14–15
 lower Miocene, 177B(synthesis):5–7
 lower Paleogene, 199A1:4–5
 magnetic logs, 145B30:455–456
 marine isotope stages, 181B1:29–31
 mass accumulation rates, 144B54:960–961
 mega-Pacific beginning, 129B32:573
 Mesozoic, 185B1:9–11
 Mesozoic–Tertiary interval, 160B52:701–708
 Messinian/Pliocene boundary, 160B1:9–28
 microbial activity, 201A1:14–16
 middle Miocene–Pliocene interval, 177B(synthesis):7–
 10
 middle Pleistocene, 177A8:15
 middle–late Miocene interval, 165B17:249–273
 middle–upper Eocene, 177B(synthesis):5–7
 millennial cycles, 167B32:355; 172A4:134; 202A1:32–
 40
 mineral magnetic variations, 133B49:740
 Miocene, 130B18:323–332; 35:594; 133B33:489–498;
 167B32:368; 185B1:10
 Miocene–Pleistocene interval, 183B1:23–24, 28
 Miocene–Pliocene interval, 186B6:6–7
 Neogene, 130A8:339; 10:533–535; 130B10:137;
 133B18:255–261; 19:263–280; 138B1:5–21;
 20:461–478; 144B20:409; 145B16:247–256;
 149B14:308; 150B14:269–281; 151B13:246–248;
 16:299–305; 27:455–468; 32:569–582;
 154B16:239–253; 157B7:73–82; 161A1:11–15;
 161B29:387–388; 164B34:343–363;
 167B32:342–343, 368–373; 189A1:12–13;
 189B1:18; 191B1:3–4; 198A1:24–25; 4:3;
 198B1:13–18; 208A1:10–11
 nondeposition, 143B31:526–527
 North Atlantic–Arctic Gateways, 151B1:3–23
 old bottom water model, 105B36:710; 37:742
 Oligocene, 130B15:275–277; 199A1:7, 19–20;
 199B17:1–12
 Oligocene–Miocene interval, 149B4:118; 181A1:1–80;
 184B9:8–9
 Ontong Java Plateau, 130A1:7
 organic biomarkers, 199B25:1–11
 organic matter, 175B6:7–8; 186B11:6–7
 oxygen isotopes, 146B(2)1:9–15

- Pacific Ocean, 138A(1):1:6–9; 138B3:31–46; 202B1:1–56
- Paleocene, 183B1:22, 28
- Paleocene/Eocene Thermal Maximum, 198B1:10–12
- paleoclimatology, 175A1:11–13; 181B1:48–51; 192B2:4–6; 199B1:2–3
- paleodrift, 202B12:3–5
- paleoenvironment, 181A5:13; 210A1:17
- Paleogene, 145B18:265–281; 197A1:18; 199B1:1–39
- paleoproductivity, 138B14:333–335; 178B23:12–16
- Panama Isthmus, 138B35:748–750
- physical properties, 172B(overview):3–4
- Pigafetta Basin, 129B2:39; 9:194
- planning and execution of high-resolution drilling, 138A(2)20:1095–1096
- Pleistocene, 138B27:605–613; 154B14:207–228; 161B37:469–479; 38:481–488; 177B(synthesis):10–19
- Pliocene, 130B20:349–362; 133B36:532–533; 154B21:319–330; 161B14:185–195; 167B32:369–370; 180B11:4–5; 202B13:1–27
- Pliocene–Pleistocene interval, 151B30:494–514; 159B41:568–572; 42:575–583; 170B6:1–28; 172A1:7–11
- Pliocene–Quaternary interval, 181B1:22–23
- pollen, 151B16:301–303
- postcruise research, 177A1:26–29
- proxies, 182B13:9–10
- Quaternary, 130B24:411–421; 133B11:129–161; 13:175–188; 15:189–202; 51:756–759; 146B(2)8:103–124; 11:145–168; 22:302–303; 23:309–325; 151B25:437–444, 449, 451–452; 28:469–482; 152B18:243–248; 154B13:201–206; 155A1:12–13; 161B35:441–455; 40:505–518; 167B22:260; 195B3:1–31
- rock magnetism, 166B4:42
- sapropels, 160A2:21–25; 160B3:29–36
- seaway closure, 198A1:107
- sedimentation, 154A9:424–426; 155B16:289–290; 167B11:163–182; 178B18:6; 34:1–14; 183A3:6–7; 210A1:12–13
- sediments, 183A1:15; 184A1:8–10
- seismic data, 130A10:516; 138B24:537–553; 181A6:26–27
- silica productivity, 138B29:633–635
- Site 803, 130A5:164
- Site 805, 130A7:275, 277
- Site 847, 138A(1)12:372–374
- Southern Ocean, 177A1:1–67; 177B(synthesis):1–55; 182A2:20–21
- stable isotopes, 155B17:305–318; 160B13:167–180; 165B18:275–283; 167B7:129–150; 175B12:1–22; 178B20:1–10; 182B15:4
- Subtropical Front, 181B1:37–38
- summary, 182A1:28, 37–38
- tectonics, 180B6:42
- tektites, 150B13:259
- transform faults, 159A1:13–15; 9:298–313
- Upper Cretaceous, 159B31:393–396
- Upper Jurassic–Lower Cretaceous interval, 129B32:604
- upper Miocene–Holocene interval, 198A1:103
- upper Oligocene, 202B3:5–6
- upper Quaternary, 155B18:319–333
- upwelling, 167B3:100, 103–104; 175A17:505–531; 175B(synthesis):1–102; 18:10–12
- volcanism, 157A2:17
- Zanclean, 160B9:113–123
- See also* gyres; water masses
- paleoceanography, abyssal, gateways, 210A1:16
- Paleocene
- agglutinated foraminifers, 149B8:206; 159B31:389–411
- basins, 152B41:520
- benthic foraminifers, 154A8:353; 174AXS_A6:51; 181A8:111; 199B7:1–34
- biomagnetostratigraphy, 171B_A4:134; 5:199–203
- biostratigraphy, 129B12:229–231; 143B3:40–42; 4:76–77; 145A5:141; 145B9:159; 40:634; 149A7:227; 150X_B10:111–127; 171B_A3:59–69; 5:188–199; 6:263–278; 173A7:177–182; 8:241–244; 173B5:1–50; 174AXS_A1:31–32; 181A5:8–15; 183B4:1–59; 198A1:56; 198B4:1–56; 208A1:30
- calcareous nannofossils, 130A9:399–400; 150X_B9:91–110; 165A4:154; 198B2:4–5
- carbonate platforms, 144B47:831, 833–834
- carbonates, 181B1:27; 198B10:1–24
- chromatograms, 208A8:24–25
- clay mineralogy, 189B11:4–5
- claystone, 159B12:118; 19:185–186
- composite record, 207A4:20–21
- conglomerate, 173A6:114
- continental margins, 149B1:6
- correlation, 171B_B9:14
- diabases, 180B(synthesis):5
- dinocysts, 189B3:8
- foraminifers, 132B2:22, 24; 141B35:425; 143B36:581–586; 181A5:57; 8:18; 199A8:9–10; 207A4:14–15; 5:16; 7:14; 8:17; 208A4:13; 6:17; 7:15; 8:16
- gateway history, 189B1:8–11
- hiatuses, 149B6:189
- isotope excursions, 174AX_A1:42
- limestone, 165A6:346
- lithology, 129B14:269; 132A4:81–82; 143A2:24–26; 6:121; 9:305–306; 144A4:111, 113, 117; 5:154–155; 6:212–214; 7:258–259; 145A5:132; 6:217; 149A7:220–223; 154A8:344–346; 159A5:80–81; 7:227–228; 165A4:148, 150; 6:300–306; 171B_A3:51–53; 5:181–183; 6:246–251; 173A7:165–175; 8:225–234; 174AXS_A5:30–31; 181A5:5–6; 189A7:16–18; 192A3:7; 198A5:12–13; 6:9–10; 199A13:8–9; 207A4:7–8; 5:5–7; 8:6–7; 208A3:7–9; 4:6–8; 8:7–9
- magnesium/calcium ratio, 198B12:4–5
- magnetic susceptibility, 171B_A7:357
- magnetostratigraphy, 171B_A3:71; 171B_B9:1–58; 173A6:121, 124; 173B11:21–23; 207A5:20–21; 6:24–25; 7:21; 8:21; 207B3:10–15; 208A1:85; 208B1:36; 4:12–13
- margins, 152A1:12–15
- mass accumulation rates, 198A4:23
- metamorphic rocks, 152B10:129–144

- muscovite, 210B4:4
nannofossils, 132B2:17; 173B5:28–33, 35–38;
174AXS_A5:46; 197B4:1–12; 198B3:1–15;
207A5:13; 208A3:12; 4:11; 6:13; 7:12; 8:12
paleoceanography, 171B_B(introduction):5–6;
183B1:22
paleoclimatology, 181B1:5; 184A1:6–7
paleoenvironment, 181A8:23; 189A1:50–53;
210B13:22–23
paleomagnetism, 130A9:412; 143B38:593–594;
159B20:203
pelagic sedimentation, 165A8:378
photograph, 192A3:55–56; 198A5:48
photomicrograph, 210A3:171
planktonic foraminifers, 130B8:103–111; 154B2:33–
68; 165A4:157–158; 173B9:1–13; 174AX_A1:36;
174AXS_A1:31–32; 6:49
postrift sedimentation, 210B1:28–31
progradation, 189A1:7
provenance of volcanic sand, 210B2:8–9
quartz-feldspar-lithic fragments system, 210B2:27
quartz-potassium feldspar-plagioclase system,
210B2:29
radiolarians, 181B1:15–16
sandstone and grainstone, 210B2:1–47
seafloor spreading, 210A1:12–13
sedimentary rocks, 165B10:190
sedimentation, 150X_B23:305–315; 159A5:95;
165A4:162; 183B4:14–15; 189B10:18; 207A8:23;
210A3:63–64
sediments, 183A1:15
sequence stratigraphy, 150X_B19:267–275
Site 803, 130A9:121–122
stable isotopes, 145B38:581, 583
stratigraphy, 150X_B1:8–9; 160B32:412–413;
197A1:13
tectonic models, 160B54:771–772
transform faults, 159A1:12
transgressions, 144B51:902, 905, 907–910
unconformities, 159B2:16; 189B1:9
volcanism, 165A8:390; 165B20:308–309
zeolitic limestone, 192A3:16–17
See also Albian–Eocene interval; Campanian–Eocene
interval; Campanian–middle Eocene interval;
Campanian/Paleocene boundary; Campanian–
Paleocene interval; Cretaceous–Paleocene inter-
val; Cretaceous–Eocene interval; Cretaceous–
Miocene interval; Cretaceous/Tertiary bound-
ary; Danian; Jurassic–Eocene interval; late Pale-
ocene Thermal Maximum; Maastrichtian/
Paleocene boundary; Selandian; Teurian
- Paleocene, lower
biogeography, 183B4:14
biostratigraphy, 208A1:30; 210A3:86, 88; 210B13:13–
14
C Hiatus, 207A5:24
lithology, 171B_A3:51–55; 4:100–101; 174AX_A1:26–
27; 174AXS_A1:20–21, 54; 6:26–27; 181A8:8;
198A7:10
magnetostratigraphy, 171B_B9:11; 210A1:19
sedimentation rates, 183B4:11
stratigraphy, 198A6:4
tectonics, 194A1:4–5
See also Danian; Selandian
Paleocene, lower–middle, biostratigraphy, 192A6:13
Paleocene, lower–upper, events, 198B9:18
Paleocene, lower(?)–upper, lithology, 173A6:110, 112–
114
Paleocene, lower/upper boundary, biostratigraphy,
208A8:12
Paleocene, middle. *See* mid-Paleocene biological event;
Selandian
Paleocene, middle–upper, biostratigraphy, 192A6:12–13
Paleocene, middle/upper boundary, age models, 189B3:6
Paleocene, upper
age vs. depth, 198A6:53; 7:49; 8:45
biostratigraphy, 183A6:13, 19; 189A7:34–35;
197A4:10–11; 199A8:7; 14:11–12; 207A4:12;
7:13; 207B5:1–5; 208A3:14–15; 210A3:81, 86;
210B13:14–15
carbon isotopes, 198A1:96
carbonate dissolution, 198B10:7–8
chert and slump deposits, 208A1:5
cycles, 208B1:37
depositional history, 144B12:233–253; 189A6:19–21
downhole measurements, 165B11:196–197, 199
events, 198B9:1–29
gamma rays, 207A4:53
hiatuses, 189B1:3
ion chromatograms, 208A5:50
lithology, 129B3:88; 144A3:50–52; 171B_A4:100;
174AX_A1:26–27, 54; 174AXS_A1:18–21; 5:28–
30; 6:25–27; 183A3:4–6; 197A4:7–9; 199A8:5–6;
10:8; 14:7–9; 207A6:7; 7:7–9; 208A6:6–10; 7:7–
9; 210A3:25–36, 59–61
magnetic polarity, 197A4:25
magnetic susceptibility, 207A4:52
magnetostratigraphy, 207A4:19; 207B3:8–9;
210A3:93–94
mass accumulation rates, 171B_A6:273–274
nannofossil ooze/chalk, 199A1:11–12
paleoecology, 144B6:133–134
photomicrograph, 192A6:41
plate tectonics, 152B40:482
postrift sedimentation, 210B1:31
remanent magnetization, 183A6:54
sedimentology, 210B8:10–12
seismic stratigraphy, 183A3:20
stratigraphy summary, 174AXS_A5:60
tectonics, 177A1:41
thermal maximum, 183B4:15
See also late Paleocene biotic event; late Paleocene
thermal maximum; Thanetian
Paleocene, upper–middle Eocene interval, 198A4:56
Paleocene carbon isotope maximum, 198B10:13
Paleocene–Eocene assemblages, paleobiogeography,
144B50:889–890
Paleocene/Eocene boundary
age models, 189B3:6
benthic foraminiferal stable isotopes, 208A1:58
benthic foraminifers, 120B(2)34:616; 199A13:16, 41;
199B7:4

- biogenic burial, 199B23:1–12
 biostratigraphy, 120B(2)31:552; 197A5:7–8;
 199A10:9–10; 199B1:7–8, 18–19; 207A1:40–41;
 208A1:29; 210B13:15–16
 bulk geochemistry, 199A13:23–24
 calcareous nannofossils, 198A5:17; 7:14; 198B2:4–5
 carbon isotopes, 105B36:719; 119B38:697, 704;
 174AXS_A(summary):13
 carbon preference index, 208B5:3–4
 carbonate content, 208A6:69; 208B1:43
 composite depth, 198A5:24; 208A3:5
 composite images, 199A13:36–37, 40; 199B1:37;
 208A3:42; 4:48; 6:56; 7:44; 8:42, 44
 compressional wave velocity, 208A8:43
 continental drift, 151B15:296
 critical events, 207A1:11–12, 25–26, 30–31, 35;
 210A1:17–18
 deepwater record, 198A1:27–28; 4:6–7
 deposition, 189A6:19–21
 digital photograph, 199A1:81–82, 84
 dinocysts, 189A6:38–39
 foraminifers, 199A12:18; 14:13; 207A4:14; 5:16; 6:18;
 7:16; 8:17; 208A3:14; 4:13; 6:16–19; 7:15; 8:15–
 16
 gamma rays, 207A5:32
 geochemistry, 199A2:26; 14:19–20
 glauconite, 173B6:3
 global warming, 208B1:20
 inorganic geochemistry, 199B16:1–12
 Islas Orcadas Rise, 114B27:481
 isotopic shift, 113B47:842
 lithology, 197A5:5–7; 198A5:12; 199A1:29; 8:3–6;
 13:8–9; 14:8; 207A1:37–38; 4:5, 7, 10; 5:10; 6:5–
 6; 7:5–7; 8:6; 208A3:8–9; 4:8; 7:8–9; 8:7–8
 magnetic polarity, 207B3:6
 magnetic properties, 173A7:217; 198A5:57; 208A4:31
 magnetobiostratigraphy, 120B(2)31:561
 magnetostratigraphy, 173B11:15, 19–22;
 174AXS_A(summary):34; 207A6:24; 208A1:85;
 6:22, 66; 7:20; 208B1:6
 marine isotope stages, 181B1:30
 mass accumulation rates, 208A6:31–32
 microfossil extinctions, 113B53:946–947
n-alkane carbon isotopes, 208B5:1–11
 nannofossils, 143B3:51–52; 183B4:5, 8–9; 199A13:12;
 14:11; 207A5:13; 6:14; 7:13; 208A3:11–12; 4:11;
 6:12–13; 8:12; 208B3:1–9; 210A3:76–77
 Northeast Georgia Rise, 114B27:481
 oxygen isotopes, 113B48:851–852; 119B38:697, 704
 paleoceanography, 171B_B(introduction):5–6
 paleoclimatology, 171B_B10:10–13; 174AXS_A(sum-
 mary):13; 199A1:5
 phosphorus and barite geochemistry, 199B22:1–23
 photograph, 199A14:28–29; 207A5:46; 6:42–43; 7:45;
 8:45; 208A3:43
 planktonic foraminifers, 208A1:60
 reflectance, 198A1:129; 5:47; 8:37
 sedimentation, 154A8:355; 171B_A3:69; 6:275;
 183B4:11
 sediments, 208A8:24
 Site 738, 119B38:697, 704, 706
 Site 766, 123B18:399, 402–403; 38:731
 Southern Ocean, 114B27:482, 497
 stable isotopes, 199B18:1–12
 stratigraphy, 198A8:2–3; 199A1:24–26; 1:41–44; 13:3–
 4; 14:3–4; 207A1:17, 20–21
 surface water temperatures, 113B48:859
 synthesis, 171B_A7:357
 temperature excursions, 113B48:849
 unconformities, 145B37:563
 uplifts, 189B1:7
 warming interval, 113B49:877; 53:937, 945
 well-logging, 120B(2)58:1059; 165B11:200–201
 Paleocene/Eocene boundary benthic extinction event,
 nannofossils, 199A13:12; 14:11; 199B6:10
 Paleocene–Eocene interval
 dissolution, 208A7:8–9
 Formation MicroScanner imagery, 192A6:44–45
 lithology, 192A6:5–6
 magnetic susceptibility, 208A1:99–100
 magnetostratigraphy, 171B_A6:281; 192A6:21
 mass accumulation rates, 207A6:62
 nannofossils, 199A14:10–11; 210B13:46
 sedimentation, 189B10:17; 192A6:11
 tectonics, 177A1:41
 well-logging, 192A6:27
 Paleocene/Eocene Thermal Maximum
 benthic foraminifers, 181B1:19–20, 105; 198B1:11,
 27; 208A1:58
 biostratigraphy, 198A1:112; 5:39; 6:14–20; 198B1:10–
 12; 2:4–5; 208B1:11; 210A3:76; 210B13:15–16
 calcareous algae, 208B1:14–15
 calcareous nannofossils, 198A5:17
 carbon isotopes, 207B1:24
 composite depths, 198A6:21
 correlation, 198A1:71–73, 123, 143; 7:36
 critical events, 207A1:11–12; 208A1:35–37; 208B1:10–
 15; 210A1:17–18, 32
 dinocysts, 189B5:6
 foraminiferals, 207A6:19
 global warming, 207B1:10
 greenhouse warming, 198A1:10
 lithology, 174AXS_A5:29; 6:25; 198A6:11–12; 8:11–
 12; 207A5:6; 8:10
 lysocline shoaling, 198B8:1–36
 magnetic susceptibility, 198A5:57
 magnetostratigraphy, 208B4:12–13
 nannofossils, 198B1:46
 paleoceanography, 198B1:10–12
 photograph, 198A6:43; 198B1:44; 207A5:46
 planktonic foraminifers, 198A5:19
 reflectance, 198A5:47
 sedimentation rates, 189B10:17
 sediments, 199B22:11
 seismic data, 208B6:10
 stable isotopes, 198B1:45
 stratigraphy, 198A1:30–32, 36, 40, 44; 4:2; 5:3–5; 6:3;
 7:2–4; 8:3–4; 208A1:1–8
 well-logging, 207A5:77–78
 See also Delta excursion; late Paleocene thermal maxi-
 mum
 Paleocene–Eocene unconformity, 171B_A6:294

- Paleocene–lower Eocene interval
 magnetic susceptibility, 207A1:74
 plate tectonics, 160B54:771
Paleocene–middle Eocene interval, 182A2:14, 16
Paleocene–Oligocene interval, 198A5:61
paleocirculation
 deep water, 133B16:204
 hydrothermal fluids, 136B10:129–131
 foraminifer proxies, 175B7:5–8
 Pliocene–Quaternary interval, 181B1:22–23
 See also ocean circulation
paleoclimate ratio
 paleotemperature, 145B3:48
 vs. age, 145B3:49, 53
 vs. modern sea-surface temperatures, 145B3:49, 52
 See also climate ratio
paleoclimatology
 alkenones, 167B10:153–160; 184B17:1–17
 Arctic Ocean, 162A1:5–20
 biomarkers, 184B18:5–6
 biostratigraphy, 182A1:20; 202A7:14
 biotic turnover, 207A1:6–8
 bulk and clay mineralogy, 184B19:6–9
 Campanian/Maastrichtian boundary, 174AXS_A(summary):2
 Campanian–Maastrichtian interval, 207B7:3
 carbonate crash, 206B4:1–2
 carbonates, 138B14:332–333; 15:351; 145B20:299–300; 166B6:67–69; 167B11:163–194
 Cenozoic, 133A(1):1:25; 133B30:468–470; 138B28:615–625; 145A3:61–62; 4:101–102; 5:179–180; 6:273–276; 7:318–319; 8:363–364; 145B11:185; 15:231–245; 29:452; 38:593–594; 150X_B4:55; 14:181–183; 151A13:409–411; 151B3:54–55; 8:158–161; 31:515–567; 35:641–658; 152B11:154, 156; 24:289; 154A4:125; 5:210, 212; 161B39:489–503; 162A1:14–15; 178A8:8; 181B1:5, 105; 188A1:2–5; 189A1:1–6; 198B1:1–47; 199B1:2–3; 207A1:64; 208B1:1–55
 chronology, 167B7:134
 clay mineralogy, 150B23:415–419; 150X_B5:63; 155B9:189–191; 178B8:2–3; 189A3:16–17; 5:17–19; 6:23–25; 7:19–21
 color, 146B(2):2:19–43; 167B29:319–329
 comparison, 160B26:327–328
 connection with tectonics, 167B32:370–372
 continental climate, 145B14:228–229
 core-log integration, 186B15:9–10
 Cretaceous, 144B19:392–393; 45:785–787; 171B_B10:1–22; 207A1:8–11
 Cretaceous–Eocene interval, 174AX_A1:42
 Cretaceous–lower Cenozoic interval, 171B_A1:7–9; 171B_B(introduction):1–11
 Cretaceous–Paleogene interval, 207B1:1–26
 Cretaceous/Tertiary boundary, 165A1:8–10
 curves vs. anhyseretic magnetic susceptibility, 161B40:512
 curves vs. depth, 161B40:511
 curves vs. oxygen isotopes, 161B40:511, 513
 cyclostratigraphy, 161B40:515–517; 166B7:85–87
 deposition, 152A10:173; 188A5:13; 202A8:13–14
 diatoms, 146B(2):17:237–241; 167B3:103–105; 4:111–113; 6:119–125; 178B25:9
 dinocysts, 189B2:10–11; 3:11–12
 earliest Oligocene event, 174AXS_A(summary):14
 early and mid-Pleistocene, 177B14:1–23
 Eocene, 150X_B17:229–242; 152B16:226–227; 192A3:17–18; 199B20:19–20
 Eocene–Miocene interval, 133B21:291–300
 Eocene/Oligocene boundary, 154A2:9; 183B5:8–9; 198B11:2–3
 Eocene–Oligocene transition, 189A7:24–25
 eolian sedimentation, 144B42:702–703
 evolution, 178B23:31; 184A1:4–7, 51
 fans, 155A2:20
 Flandrian transgression, 146B(2):12:180–181
 foraminiferal stable isotopes, 167B7:135–137
 foraminifers, 146B(2):21:281–293; 151B10:190–192; 161B14:190–193; 38:485–487; 175B7:5–8; 188B13:11
 gateway history, 189B1:8–11
 glacial–interglacial cycles, 175B(synthesis):78
 greenhouse mode, 177B(synthesis):5
 Holocene, 133B22:305–308; 169S_A2:14–15; 178B7:1–45
 ice catchment, 178A1:5; 178B(synthesis):20–22
 ice core correlation, 177A1:10; 177B(synthesis):18–19
 ice sheets, 178A2:1–44
 icehouse mode, 177B(synthesis):5
 laminites, 146B(2):6:81–82
 land record, 155B41:668–670
 Late Cretaceous, 174AXS_A(summary):9–10
 late middle Eocene, 171B_B5:3–4
 late Paleocene thermal maximum, 174AXS_A1:2
 latest Maastrichtian, 174AXS_A(summary):11–12
 latest Quaternary, 165A8:385
 light absorption spectroscopy, 199A5:1–20
 lithology, 164A6:111; 210A1:14–15; 3:38
 lower Cenozoic, 182A1:12–13; 208A1:2–4
 lower Eocene, 199A1:55
 lower Paleogene, 199A1:3–4; 3:1–30
 lower Quaternary, 175B21:5–10
 Maastrichtian, 192B2:1–15
 magnetostratigraphy, 132B3:43
 margins, 152A1:15–16
 marine environment, 161B36:461
 Mesozoic, 185B1:9–11
 mid-Cenomanian Event, 207B1:6–7
 mid-Pleistocene climate revolution, 175B(synthesis):19–20; 23:1–46
 mid–Upper Cretaceous interval, 198A1:12–13
 middle Eocene, 199B24:8–10
 middle Oligocene, 183B7:9
 middle Pleistocene, 172A7:314–318; 188B14:12
 middle Pliocene, 160B18:219–226
 middle Pliocene–Pleistocene interval, 172A1:7–11
 millennial-scale variability, 162A1:15; 167B25:277–296; 172A4:134
 Miocene, 150X_B20:277–285
 Miocene–Pliocene interval, 186B6:6–7
 models, 155B41:666–670
 modular plots, 175B21:24

- Namibia opal acme, 175B(synthesis):43–44
nannofossils, 188B11:6–7
Neogene, 138A(1):1–9; 138B1:5–21; 145B16:247–256;
151B27:455–468; 32:569–582; 154B8:341–345;
157B7:73–82; 20:349–354; 27:449; 31:557;
161B16:223–237; 162B(appendix):273–275;
167B20:239–245; 175A1:8; 17:518; 177A6:12;
177B(synthesis):5–23; 188B1:13; 189B1:16, 18;
5:5–6; 198B1:13–18
Neoglacial, 178B34:7
Northern and Southern South China Sea comparison,
184B11:8
ocean circulation, 181B1:48–51
ocean record, 155B41:666–668
Oligocene, 199B1:10–12; 17:4
Oligocene/Miocene boundary, 154B28:433–439;
29:441–449; 199A1:18–19
Oligocene–Miocene interval, 151B15:289–296
orbital rhythms, 198A1:25; 4:3–4
ostracodes, 151B11:197–201
oxygen isotopes, 146B(2):1–9–15; 175B(synthesis):85;
177B(synthesis):39; 207B1:4–12
packstone, 207B2:11
paleoceanography, 151B36:654; 161B29:387–389
Paleocene/Eocene boundary, 174AXS_A(summary):13
Paleocene–Eocene interval, 150X_B23:305–315
Paleocene/Eocene Thermal Maximum, 198A1:30–32;
198B1:10–12; 3:12; 210A1:17–18
paleoenvironment, 160A9:296–297
Paleogene, 145B18:265–281; 171B_B10:1–22;
198B1:12
paleoproductivity, 178B23:12–16
palynomorphs, 145B10:171–176; 174A_B(synop-
sis):6–7; 188B2:10–11; 3:9, 11–12
pelagic foraminifers, 130B22:381–395
planktonic foraminifers, 154B17:259–262;
164B34:344, 350; 166B2:13–22; 167B2:58–59;
182B3:14; 184B11:1–21
plate tectonics, 202B1:13–19
Pleistocene, 133B12:163–173; 138B13:300, 305–308;
17:371–412; 27:612–613; 34:695–714;
141B17:235; 154B18:269–284; 155B8:169;
161B37:475–477; 184B22:1–10
Pliocene, 130B20:349–362; 145B38:590–591;
154B17:255–256; 180B11:1–15; 181B1:21–22;
202B1:10; 12:1–51; 13:1–27
Pliocene–Holocene interval, 161B7:95–96
Pliocene–Pleistocene interval, 130B19:337–338;
151B30:494–514; 159B41:568–572; 42:575–583;
162B6:92–93; 181B1:22; 183B9:14; 202B11:3
Pliocene–Quaternary interval, 160B14:186–188
pollen indicators, 133B10:120; 151B16:301–303
principal results, 189A1:15–18, 30–32
productivity control, 175B18:14
proxies, 202B10:3
Quaternary, 130B23:404, 411–421; 133B11:129–161;
15:189–202; 26:371; 51:759; 146A(2):2:18–19;
146B(2):4:45–59; 7:94; 8:115, 118–121; 9:131–
134; 10:139–140; 11:145–168; 18:253; 19:257–
264; 22:302–303; 23:309–325; 151B25:437–444;
26:449–452; 28:469–482; 152B18:247–248;
154B13:201–206; 159B43:585–603;
161B36:464–466; 40:505–518; 165A7:368;
165B4:92–98; 167B17:217–226; 20:239–245;
22:260; 184B2:13–15; 201B15:7; 202B1:6
sapropels, 160B3:35; 19:227–248; 26:317–331
samples, 159B20:203
sea level changes, 143B20:322–326
seamounts, 144B33:579
sediment color, 175A22:565–566
sedimentation, 150B6:110–111; 154A9:424–426;
155B41:653–675; 162A8:266–268; 175B9:1–23;
178B18:6; 34:1–14; 189A1:34–35; 191B1:5
sediments, 177A1:2
sequence stratigraphy, 133B25:362–363
silicoflagellates, 185B4:1–11
stable isotopes, 138B43:843–844; 154B14:210–211;
160B13:167–180; 175B(synthesis):85; 12:1–22
summary diagram, 181B1:85
tectonics, 202A1:26–32
Tertiary, 195A1:18
thorium/potassium ratio logs, 154A9:438
Tortonian–Messinian interval, 161B43:546–548
upper Cenozoic, 202B1:48
upper Oligocene, 202B3:1–15
upper Quaternary, 155B25:411–418; 167B21:249–254;
175B11:1–32; 195A1:26–27
vegetation, 167B32:361–362
volcaniclastics, 152B9:123–125
volcanism, 144B36:626; 157A2:16–17; 157B27:460–
462; 165A8:390; 181B1:25–26
weathering, 188B13:15
well-logging, 151A9:302–304
X-ray diffraction data, 188A4:16
Zanclean, 160B9:119–120
See also climate; climate change; climate proxies;
global cooling; habitats; late Paleocene thermal
maximum; magnetic polarity; Mid-Pleistocene
Climate Revolution; Miocene glacial event Mi-
1; paleomagnetic pole; pole positions; Oligo-
cene glacial event Oi-1; temperate climate; tem-
perature, sea-surface; tropical climate
paleoclimatology, high-resolution, 145B3:43–53
paleoclimatology, orbital-scale
climate change, 202B1:19–24
Neogene, 202A1:32–33
paleoclimatology, subtropical, 133B21:297–300
paleocurrents
analytical methods, 126B4:91–93
axial flows, 131B2:19–20
current ripples, 131B3:40
directions, 126B41:612
fabric, 149B17:339, 342
lithofacies, 160B43:550–551, 558–559
models, 178B24:6–8
sediments, 126B15:233; 131B26:317–318
Site 766, 123B31:580–581
tectonics, 180B6:42
turbidites, 131B2:30; 3:37, 39–40
turbidity currents, 210B3:1–27
See also currents; ocean circulation

- paleodeclination
 borehole elongation, 147B18:338–339
 foliation, 147A3:87–88
 plate motion, 197A1:18
 See also magnetic declination
- paleodepth
 age models, 181A7:36–37
 benthic foraminifers, 127/128B(1)29:504–506;
 150X_B16:214–221; 17:226–227; 18:247, 249;
 23:311–312; 171B_A3:70; 189A5:27–28; 6:92;
 198A6:19–20; 9:71
 biostratigraphy, 174AXS_A1:29–36; 3:40–42;
 182A1:23, 26, 34, 37, 40; 8:17–18; 10:18–20;
 12:15–16; 194A4:15–17
 carbonate compensation depth, 192A3:16
 Cretaceous, 129B32:579
 deepwater circulation, 198B1:7
 deposition, 194B2:5
 diatoms, 189A5:29–30
 foraminifers, 183B2:6–7; 199A9:6–7; 208A8:17
 hotspots, 167A(1)3:43–46
 Japan Basin, 127/128B(1)12:201
 Japan Sea, 127/128B(1)29:526, 528–529
 Jurassic, 129B32:579
 lithology, 174AXS_A5:24–25; 6:36, 49–50; 192A1:22–
 24
 lower Cenozoic, 208A1:42
 Mesozoic, 129B32:580
 Neogene, 133A(1)5:170–171; 10:383
 Paleocene, 165A8:381
 paleoenvironment, 160B38:500
 pelagic deposition, 133A(1)6:183, 185
 Quaternary, 133B11:157, 160–161
 seismic stratigraphy, 194A1:47–49
 Site 797, 127A7:357
 Site 798, 127/128B(1)22:373
 Site 799, 127/128B(1)22:373, 379
 Sites 1218 and 1219 correlation, 199B2:27, 35, 41
 subsidence, 149B39:627–629
 vs. age, 138B42:837; 150B5:73, 75–78; 199A1:63;
 199B1:36
 vs. depth, 174AXS_A(summary):32; 189A3:80; 4:33;
 5:75
 Yamato Basin, 127/128B(1)12:201
- paleodepth, abyssal, foraminifers, 210A3:83
- paleodrift, paleoceanography, 202B12:3–5
- paleoecologic assemblages
 biogeography, 144B50:887–893
 Cretaceous, 144B6:132–133; 7:142–143; 9:183, 186–
 191
 foraminifers, 144B10:210–211
 foraminifers-algae-macrofossils groups, 144B6:131–
 133
 Site 874, 144A6:228
 Site 878, 144A10:359
- paleoecology
 agglutinated foraminifers, 149B8:209
 algae, 133B5:67–74; 144B11:225
 benthic foraminifers, 143B32:547–548; 144A5:173–
 175; 149B7:194; 8:204–205; 150X_B19:269–270
 biomarkers, 167B12:189–190
 calcareous nannofossils, 133B1:15–16; 144B1:12;
 149B2:29, 34–35
 Campanian, 129B33:627
 carbonate platforms, 133A(1)17:779; 144B47:821,
 823, 825–829
 Cenozoic, 130B12:233; 134B12:265–291;
 149B14:248–253
 Coniacian, 129B33:627
 coral fragments, 194B5:36
 deposition, 143B30:480–482
 diatoms, 160B28:356–358; 169S_B1:9; 172B(over-
 view):4; 8:3–15, 19, 35
 dinoflagellate cysts, 133B7:93–94; 8:101; 189B4:13–
 15
 foraminifers, 129B12:231–234; 130B5:63–84;
 133B3:47; 4:51–66; 138B13:291–293; 25:556;
 139B2; 144A7:271–274; 144B10:210–211;
 161A7:313; 8:366–367; 9:399
 fossils, 144A10:359–360; 144A5:174–175
 Japanese archipelago, 127/128B(1)18:320, 334
 Lago Mare facies, 161A4:72
 laminated mats, 138B30:641–643
 lower Campanian, 129B33:627
 microfossils, 161A5:135–137
 nannofossils, 173B7:6–8
 Oligocene, 183B5:7–8
 Oligocene–Miocene, 149B4:79–145
 oxygen isotopes, 138B13:306–307
 paleoclimatology, 167B21:253
 paleoequatorial crossings, 129B33:624
 palynomorphs, 155B24:399, 406
 periplatform environment, 133B2:29–30, 32
 planktonic foraminifers, 129B33:615; 130B10:147,
 149, 151–152, 154; 138B25:559–560
 Pleistocene, 133B28:450
 pollen, 146B(2)20:265–279; 167B17:219–222; 19:240–
 244
 Pseudosolenia calcar-avis and rhizosolenids,
 160B28:357–358
 radiolarians and silicoflagellates, 160B11:137–154;
 185B4:9; 199B24:8–10
 rudists, 143B1:9
 sediments, 169S_A2:16–17
 Turonian, 129B33:627
 Upper Cretaceous, 129B13:247–264; 159B33:434–388
 vegetation, 155B23:381–396
 See also environment; paleoenvironment
- paleoecostratigraphic floras, silicoflagellates,
 145B41:639–641
- paleoelevation, transgression, 152B41:516–517
- paleoenvironment
 basins, 146A(1)5:154; 146B(2)1:15; 178A7:9–10
 benthic foraminifers, 120B(1)23:395; (2)34:605;
 143B32:546–547; 145B18:269–270; 159B28:349,
 352; 44:605–610; 192A4:13; 5:9–11; 7:6;
 194B2:9–10; 208A6:18–19
 biogenic component, 189A3:18–21
 biostratigraphy, 151B14:280; 152B12:161–189;
 178A4:13–16; 181A3:15–18; 4:13–15; 5:13–15;
 6:17–20; 7:25–26; 192A3:24–25
 black shale, 207A10:9

- Botryococcus* colonies, 180B15:2
braided streams, 174AX_A1:15
calcareous nannofossils, 188A3:29–30
Campanian, 197B3:1–10
carbon/nitrogen ratio, 189A3:19–21
carbon/sulfur ratio, 189A3:18, 20–21
carbonates, 144A5:173–175; 6:228; 144B52:930–931;
161B6:77–81
cement stratigraphy, 133B34:507–508
Cenomanian, 159B11:105
Cenozoic, 129B4:119; 151A1:18–19; 13:397–420;
152B24:283–292; 189B1:4
clay mineralogy, 155B9:189–191; 189A3:15–17; 5:17–
19; 6:23–25; 7:19–21
cool-water bryozoans, 182B13:1–29
Cretaceous, 143B12:189–192; 144A10:398;
144B9:190–191; 14:271–294; 183B1:21–22, 28;
2:1–28
Cretaceous–Eocene interval, 160B38:499
Cretaceous–Paleocene interval, 159B24:262; 25:293;
192A6:14–15
deep water, 151B9:180
deposition, 143B30:480–482; 37:591; 159A6:174–177;
159B8:72–73; 160A5:102–103; 6:130–132;
7:162–164, 176; 8:223–224; 9:296–297, 303;
10:344; 13:454; 161B1:14–16; 173A9:270, 272–
273; 178A4:10–13; 178B(synthesis):5–9;
182B4:9–11; 189A1:26–27; 202A8:13–14
diagenesis, 141B11:160–161
diatoms, 177A5:15; 6:10; 178A7:9, 82; 183B9:14
dinocysts, 120B(1)20:312–316; 144A4:124–125;
151B13:243–253; 162B6:88, 91–93; 189A6:39;
7:35; 189B2:9–11; 3:11–12
downhole logging, 160B38:483–508
Eocene, 152B16:225–226
Eocene–Miocene interval, 133B21:297–300
Eocene/Oligocene boundary, 189A3:20
Eocene–Oligocene interval, 183B1:22–23, 28;
189A1:53–55; 7:24–25
eruptions, 192A1:29–30
faunal assemblages, 188B4:9–10
foraminifers, 129B12:234; 139B2:46–47; 144B20:402;
57:993–995; 145A5:141; 6:222; 8:345;
145B8:152; 9:163–164; 146B(1)5:79–113;
152B18:243–248; 161B15:204; 188B4:15–16;
188B15:5
fossils, 133A(1)7:210; 144A10:359–360
glauconite, 189A3:20–21
grainstone and packstone, 144A7:273–274
hemipelagic origin, 146A(1)7:317–318
hiatuses, 189A3:19
Holocene, 178B7:10–14
interpretation, 194A4:103–104; 5:95–96; 6:80–81;
7:132–136; 8:73–74; 9:65–66
isotope stages, 151B28:477–481
Izu-Bonin arc system, 126B19:288–298
lacustrine environment, 159B14:133–134
larger foraminiferal facies, 129B12:233–234
Late Cretaceous, 183B2:1–28
late Miocene, 160B36:453–463
lithofacies, 159B12:115–122
lithology, 150X_B2:15–24; 16:214–221; 160A4:60;
163X_A6:20–21; 177A8:9; 189A3:18–21; 5:15–
16
lower Pliocene, 178A6:28, 41
magnetic minerals, 161B40:513
magnetostratigraphy, 181A6:23–24
marine incursions, 189A3:19–20
Mesozoic, 129B8:180; 159B35:481–490
Messinian, 161B42:529–541; 43:543–551
Messinian–Pliocene interval, 160B34:441
microfacies, 194B5:7–13
microfossil content, 141A6:85–88
mineralogy, 145B15:231–245
Miocene, 133B29:455–460
Miocene–Pleistocene interval, 183B1:23–24, 28
Miocene–Pliocene interval, 186B6:6–7
nannofossils, 164B33:338–339; 188B11:6–7; 197A5:8;
198B7:12–13
Neogene, 181A9:15–16; 188A4:19–20; 188B4:15–16
Neoglacial, 178B34:6–8
nodules, 188B15:4–7
ooze, 160B2:18–20
organic facies, 144A10:368; 11:429
organic matter, 151B22:391–405; 161B30:391–400;
189A3:19–21; 198A9:28–29
osmium isotopes, 159B19:186
ostracodes, 150X_B21:289
outer perimeter ridge, 144B15:304
oxic to anoxic environment, 165A7:361
paleoceanography, 181A5:13; 210A1:17
Paleocene, 150X_B19:269–270
Paleocene–Eocene interval, 150X_B23:305–315;
183B1:22, 28; 189A1:50–53
Paleogene, 151B5:75–99; 189A1:12; 7:24–25;
189B4:16
palynomorphs, 173A4:104; 183B3:6–9; 188B3:28
phytoliths, 188B5:8
planktonic foraminifers, 161B35:449, 451–452, 454
platform flooding, 144B6:132–134
Pleistocene, 133B22:303–313; 28:450; 139B2:40
Pliocene, 180B(synthesis):10–12
Pliocene–Pleistocene interval, 151B30:498–503;
159B41:557–574
pollen indicators, 127/128B(1)18:320; 133B9:109–
112; 10:120; 151B16:301–303
principal results, 188A1:15–17, 22, 30–32
Quaternary, 133B11:129–161; 16:216–218; 26:371;
49:723–747; 159B43:585–603; 161B36:457–468
radiolarians, 175B14:4; 178B33:1–14
residues, 188A3:75–76; 188B4:12–13
sapropels, 160A5:95–97, 100; 160B3:35
sedimentary basins, 189A6:19–21
sedimentation, 141B31:379–395; 146A(1)6:254–255;
162B17:233–246; 178A7:9; 184A1:29–37;
184B15:1–23; 188A1:24; 195A4:17–19
sediments, 152A8:97; 169S_A2:16–17; 175B10:16;
183A1:15; 188B4:22
seismic data, 185B1:9–11; 188B8:1–21; 189A3:18
shallow water, 133B25:358–359
signals, 129B3:82
siliciclastics, 189A3:19–21

- silicoflagellates, 162B5:67, 70–71
 Site 794, 127A4:103; 128A3:99–100
 Site 795, 127A5:199
 Site 796, 127A6:274
 Site 797, 127A7:357
 Site 798, 127/128B(1)22:379–380; 128A4:166
 Site 799, 127/128B(1)22:381; 128A5:312
 Site 1192, 194A3:8–11
 Site 1193, 194A4:15–17
 Site 1194, 194A5:9–13
 Site 1195, 194A6:6–10
 Site 1196, 194A7:16–20; 194B5:1–38
 Site 1197, 194A8:9–14
 Site 1198, 194A9:8–12
 Site 1199, 194A7:20–22; 194B5:1–38
 spreading centers, 145B27:417
 statistical parameters, 146B(1)1:9–13
 structural evolution, 123B43:808
 subsidence, 183A1:25–26
 sulfur isotopes, 159B14:129–131
 systems tracts, 150X_B14:175–180; 15:201–203;
 17:232–238
 tectonics, 189A3:18
 transitions, 188B1:20–22
 transport, 152B5:51–52
 turbidity currents, 195A5:8
 Upper Cretaceous, 129B12:229–230; 159B33:434–388;
 160B32:408
 upper Eocene, 189A3:78
 upper Quaternary, 175B11:1–32
 vegetation, 155B23:384–388
 volcanic ash, 151B17:309–311; 18:345, 347–349
 volcanoclastics, 152B9:123–125
 volcanism, 157A2:17
 vs. depth, 174AXS_A(summary):31–32
See also abyssal environment; anoxia; Antarctic environment; bathyal environment; brackish environment; coastal environment; continental environment; deltaic environment; deposition; environment; estuarine environment; euphotic environment; eutrophic environment; fluvial environment; freshwater environment; hemipelagic environment; humid environment; intertidal environment; lacustrine environment; lagoonal environment; littoral environment; marginal environment; marine environment; nearshore environment; neritic environment; paleoecology; pelagic deposition; periplatform deposits; sedimentation; semidesert environment; shelf environment; subantarctic environment; subaqueous environment; suboxic environment; subtropical environment; supratidal environment; temperate environment; terrigenous environment; tidal environment; trench slope environment; tropical environment; troughs
 paleoenvironment, inner-platform, 133B26:371–374
 paleoequator
 Cretaceous, 143B32:550; 185A1:12
 Late Cretaceous, 165A8:393
 middle Eocene and upper Oligocene, 199A1:64
 paleoceanography, 129B9:194
 radiolarian bioevents, 199B3:17
 Southern Hemisphere, 129B33:617
 upwelling, 129B9:194; 33:624
 paleoequator, paleoproductivity, 199B1:9–10
 paleoequatorial crisis, carbonates, 144B52:930–932
 paleoequatorial crossings
 evidence, 129B9:189–201
 lower Maastrichtian, 129B33:627
 middle Eocene, 129B33:627
 post-Campanian, 129B33:627
 upper Campanian, 129B33:627
 Upper Cretaceous, 129B33:629
 Upper Cretaceous–lower Cenozoic, 129B33:624
 paleoexport production, Quaternary, 189B1:19
 paleofields
 Matuyama–Brunhes transition, 157B6:60–67
 See also magnetic field
 paleoflow
 currents, 155B4:53–78; 181A1:6–7; 210B3:1–27; 4:5
 levees, 155B4:64
 paleofluids
 brines, 161A6:235–236
 fluid inclusions, 159B6:49–52
 pore water, 161A7:321; 8:378
 Paleogene
 age vs. depth, 189B10:28, 31, 34, 37
 basalts, 180A6:37–38
 benthic foraminifers, 149B8:203–216; 198A4:20–21;
 5:21–22; 6:18–19; 7:18–19; 8:16
 biologic evolution, 171B_A1:9
 biosiliceous sediments, 151A11:364
 biostratigraphy, 133B4:51–66; 54:779–785;
 145B9:157–170; 150X_B10:111–127;
 151A13:416; 160B30:377–394; 165A3:64, 66;
 6:342; 165B3:57–81; 173A9:273–275; 181A8:59;
 182A1:22–23; 189A7:23–24; 199B1:6–8;
 200B4:4–5; 207A1:67; 210A1:16
 calcareous nannofossils, 143B3:31–74; 145B44:633–
 638; 159B32:413–431; 165A6:310–311;
 198A4:17–18; 5:17; 6:14–15; 7:14; 8:13;
 198B2:17
 carbonate compensation depth, 199A1:12–13
 carbonate content, 181B8:1–5
 chronostratigraphy, 152A1:15–16; 171B_A3:75; 4:138;
 5:204; 7:333
 collision complexes, 180B(synthesis):4
 correlation, 130A2:29
 critical events, 207A1:11–13
 cryosphere, 177A1:7–8
 cyclostratigraphy, 199B1:8
 deepwater circulation, 198A1:10–11, 70–71; 208A1:9–
 10
 deposition, 144A3:88–89
 dinoflagellates, 151B12:203–242; 162B7:99–109
 ebriidians, 152B19:249–250; 199B10:1–9
 foraminifers, 130B12:233–234; 144B6:127–139;
 150B1:3–15; 181A7:20; 210A3:80–81
 geochronostratigraphy, 182B4:1–28
 geology, 171B_A1:5–10
 geomagnetism, 197B1:9–11

- hardgrounds, 144B5:97–126
 hiatuses, 130B25:423–444
 history, 189A1:11–12, 57–59; 189B1:3
 hyperthermals, 198B1:12
 intact membrane lipids, 207B12:1–11
 lithology, 150X_B2:16–21; 152A8:92–94; 10:170–173;
 189A7:61, 65; 199A1:9; 207A1:68
 magnetic polarity timescale, 171B_B9:20–21
 magnetostratigraphy, 152B20:253–257
 margin carbonates, 189A1:55–56
 nannofossils, 181A8:14–15; 189B8:1–14; 189B10:3;
 210A3:75–76
 neodymium isotopes, 198B1:41
 ocean basins, 199B1:3–4
 ocean circulation, 198B1:6–8
 ophiolites, 180B6:19
 orogeny, 180B(synthesis):4, 6
 oxygen isotopes, 177B(synthesis):20–22
 paleoceanography, 145B38:581–586; 171B_B10:1–22;
 183A3:6–7; 197A1:18; 199B1:1–39
 paleoclimatology, 145B18:265–281; 151B36:654;
 171B_B(introduction):1–11; 10:1–22
 paleoenvironment, 181A7:25–26; 189A7:24–25;
 189B4:16; 192A6:14–15
 paleomagnetism, 159B20:201–203; 171B_A1:8–9
 palynomorphs, 188B2:4–5; 210A3:85–86
 pelagic sedimentation, 165A8:377
 planktonic foraminifers, 130A9:404; 165A6:312–313;
 183A7:12–13; 8:10–11; 198A5:18–20; 6:16–17;
 7:15–17; 8:14–15; 198B4:1–56
 radiolarian and foraminifer-rich sands, 165A4:206
 radiolarians, 151B7:125–152; 181A7:24–25;
 189A7:30–31; 199B3:13–17; 210A3:87–88
 rifting, 145B27:413–434; 163X_A1:1–19
 sedimentation, 183A3:7; 183B4:11; 189B10:8–18
 sediments, 130A10:520–524; 133A(1)4:118;
 157A2:13; 189A1:7
 seismic data, 188B8:7–10; 194A1:11; 199A4:1–21;
 199B1:8–9
 silicoflagellates, 199B9:1–29
 stable isotopes, 130B14:259–268; 143B36:581–586;
 198B1:40; 207B6:3–4
 stratigraphy, 144B49:873–885; 174AX_A1:5–6;
 199B1:5–9; 207A1:1–89
 summary, 198A1:1–148
 tectonics, 181A1:4
 velocity and density, 199B13:1–31
 volcanoclastics, 152B6:71; 8:93–113
 volcanism, 145B23:370–371
 See also Cretaceous/Paleogene boundary; Cretaceous–
 Paleogene interval; Cretaceous/Tertiary bound-
 ary; Cuisian; Ilerdian; Lutetian; Maastrichtian–
 Paleogene interval; Mesozoic–Paleogene inter-
 val; Neogene/Paleogene boundary
- Paleogene, lower
 agglutinated foraminifers, 129B13:252
 hiatuses, 129B3:91
 paleoclimatology, 199A1:3–4; 3:1–30
 stratigraphic relations, 129B3:91
 terrigenous grain-size distribution, 208B2:10
- Paleogene, upper, biostratigraphy, 151B5:75–99
- Paleogene equatorial transect
 operation, 199A1:26–28
 summary, 199A1:1–87
- Paleogene/Miocene boundary, sedimentation,
 182A10:21
- Paleogene/Neogene boundary
 biostratigraphy, 159B32:413; 177A5:12; 182A6:12–14;
 8:19
 unconformities, 132B1:12
- paleogeography
 Cenozoic, 134B10:228–229; 25:456; 165B9:173
 clay mineralogy, 150B23:415–419
 Cretaceous, 129B9:189–190; 33:630; 132B1:9, 12;
 143B32:550; 144B45:785–787; 149B36:580;
 210B3:18
 Cretaceous–Cenozoic interval, 129B33:627;
 159A9:300–301
 Cretaceous/Tertiary boundary, 189A1:66
 diatoms, 144B3:74–76
 Eocene/Oligocene boundary, 189A1:72
 gateway history, 189B1:8–11, 34–35
 Jurassic–Eocene interval, 160B32:414
 Late Cretaceous, 160B50:672
 late Miocene, 180B(synthesis):9
 Lower Cretaceous, 129B33:621
 magnetic lineations, 129B33:622–623
 Mesozoic, 160B54:740
 Mesozoic–Cenozoic interval, 183B4:26
 Mesozoic–Tertiary interval, 160B54:728–766
 Messinian, 161B43:547–548
 Messinian/Pliocene boundary, 160B2:9–28
 middle Eocene, 159B33:434–435; 189A1:71
 Miocene, 165A8:387
 nannoplankton, 144B7:148
 plate tectonics, 130B43:697–709; 170B7:3–5, 9
 Pleistocene, 180B(synthesis):13–14
 Pliocene, 134B12:282
 quartz-feldspar-lithic fragments system, 210B2:37
 reconstruction, 190A1:45
 sedimentary basins, 189A6:20
 sediments, 177A1:2
 serpentinite breccia, 149B36:584–585
 terrains, 161B44:557–559
 Tertiary–Holocene interval, 160B54:744
 transform margins, 159B11:108–109
 upper Albian, 207B2:21
 Upper Cretaceous, 207A1:60
 upper Eocene, 189A3:78
 Upper Jurassic, 129B33:621
 upper Miocene, 161B43:548
 upper Paleocene, 198B9:12
- paleohydrography
 carbonate stratigraphy, 172B(overview):6
 currents, 139B2:40
 marine isotope stages, 172B(overview):6
 See also hydrography
- paleoichnogenesis
 sediments, 138B10:184–185
 See also ichnofossils; trace fossils
- paleoinclination
 sediments, 143B27:408, 411

- sills, 198B20:4–5
See also magnetic inclination
- paleointensity
basalts, 197B1:9–11
Cenozoic, 145B32:475–482
composite records, 138B38:784–786
geomagnetic field, 177A1:11
magnetic excursions, 172A5:188
magnetic polarity, 178B31:8–9
magnetite, 145B33:489
magnetostratigraphy, 188A3:43
plagioclase, 197B1:31
plate motion, 197A1:5–7
record, 155B12:231–243
relative estimates, 202A4:12–13
thermal demagnetization, 197B1:29
vs. age, 138B38:785–787, 790–795; 195B3:28
vs. depth, 186A4:121
vs. magnetic domains, 157B6:59–60
See also magnetic field; magnetic intensity
- paleointensity, relative
Brunhes Chron, 175A10:292
vs. depth, 178A4:75; 7:49
- paleolatitude
angular standard deviation, 192A5:22
Aptian–Albian interval, 123B39:755
Australian polar wander path, 123B28:531–533;
29:552–553
Bahamas, 101B23:338–339
basalts, 192A6:23, 112; 197A5:24–25
basement, 123B29:553; 136B3:48–50; 197A1:9–10
Caribbean plate, 165B9:149–173
Cenomanian, 143B27:413
colatitude arcs, 198B21:13
Cretaceous, 130B4:55–56; 143B25:397, 399–403;
144B45:785–787; 183A6:56; 185A1:12;
210B15:1–37
Cretaceous–Paleogene interval, 171B_A1:9;
171B_B9:13
demagnetization, 199A11:20–21
diatoms, 144B3:74–76
discrete samples, 205A4:44–45
Emperor seamounts, 197A1:5–7
Eocene, 199A1:23
estimates, 120B(1):19; (2)29:523; 123B28:527;
126B24:364; 138B5:72
ferromanganese crusts, 144B44:759
guyots, 144B34:593–594; 52:916–918, 927–929
hiatuses, 192A5:21–22
history, 197B1:7–8
hotspots, 144B53:940–942
igneous provinces, 192B1:3–4
Jurassic, 123B39:753
late Aptian–late Eocene interval, 171B_B9:27
limestone, 143B31:505–508
magnetic inclination, 123B28:530–531; 29:552;
126B24:355, 357; 165B9:159–166; 192A1:50;
6:23; 197A3:35–36
magnetic polarity, 173B11:17–18, 72; 185A4:36–37
magnetostratigraphy, 171B_A6:280, 282
Mesozoic, 123A3:46; 185A1:41
minicores, 207B3:7
Miocene, 130B31:537–538, 546
nannoplankton, 144B7:148
observed values to true values, 165B9:164–165
Pacific basalt data comparison, 191B7:16
Pacific plate, 191B7:1–20
paleomagnetism, 192A5:21–22, 120; 6:23; 197A6:20–
22; 197B1:3–7; 199A1:65
Philippine Sea plate, 125B31:538, 545
plant migration, 151B15:293
plate motion, 195A1:18; 197B1:2–13
polarity ratings, 171B_B9:4–6
seamounts, 144B36:626
sediments, 143B27:408; 192A3:34; 5:20; 198B21:4–6,
11
Site 747, 120B(1):7:91
Site 748, 120B(1):7:92
Site 749, 120A8:259; 120B(1):7:93
Site 750, 120B(1):7:94
Site 765, 123A4:139–140
Site 787, 126A5:84
Site 792, 126A8:257
Site 793, 126A9:352, 354
Site 803, 130A5:130
Site 844, 138A(1):9:182
Site 845, 138A(1):10:251
Site 846, 138A(1):11:321
Site 866, 143A7:214–215
structural data, 173A4:98–102
tectonics, 134B25:449–450
volcanic limestone breccia, 144A10:365–366
vs. age, 143B31:508; 165B9:170; 197A1:29; 197B1:27–
28; 199A1:65, 76
vs. bio-barium mass accumulation rates, 199B20:29
vs. biostratigraphic age, 192A1:50; 3:135
vs. calcium mass accumulation rates, 199A1:72
vs. carbonate content, 165B9:171
vs. depth, 165B9:168–170
vs. grain size, 138B28:618
vs. magnetic inclination, 197A1:28
vs. porosity, 165B9:171
vs. silicon mass accumulation rates, 199A1:71
vs. upper Cenozoic pelagic cap thickness, 144B41:686
vs. water content, 165B9:171
See also angular standard deviation; apparent polar
wander path; colatitude arcs
- paleolatitude, instantaneous, plot, 129B23:436
- paleolatitude, mean
apparent polar wander paths, 129B26:480
basalts, 129B24:448; 25:459
Berriasian–Valanginian interval, 129B32:598
Calloviaian, 129B33:621
Cretaceous, 129B9:193; 33:629
estimates, 129A2:56; 129B1:13; 9:194
Euler pole rotation parameters, 129B33:627
interpretation, 129A4:236
Jurassic–Paleocene interval, 129B23:431–446
lithology, 129B23:439
Lower Cretaceous, 129B23:435; 32:598
magnetic anomalies, 129B27:479; 33:615–631
mass accumulation rates, 129B32:605

- Mesozoic, 129B31:577; 32:580; 33:628
 Middle Jurassic, 129B33:629
 Middle Jurassic–Lower Cretaceous interval, 129B33:615
 plate motion, 129A3:158
 sedimentation rates, 129B23:445–446
 Site 800, 129A2:54–56
 Site 801, 129A3:120–123; 129B33:628
 Site 802, 129A4:202–204
 stratigraphic plot, 129B23:441, 445; 33:618
 Upper Cretaceous–Eocene interval, 129B32:576–578
 Upper Cretaceous–lower Tertiary interval, 129B23:444
 Upper Jurassic–lower Aptian interval, 129B32:578
 vs. corresponding cores, 129A4:204
 paleolatitude vs. age, smectite–illite transition, 199A1:59
 paleomagnetic age, polarity, 202A7:70; 8:100; 11:76
 paleomagnetic datums
 Cenozoic, 149B16:323, 328, 333
 chronostratigraphy, 149B45:693
 vs. biostratigraphic datums, 149A4:73
 paleomagnetic declination. *See* paleodeclination
 paleomagnetic directions
 coercivity, 160A4:73
 dating, 165A3:68
 paleomagnetic events, Pliocene–Pleistocene, 149B5:158–160
 paleomagnetic field
 directional variability, 202A4:11–12
 See also magnetic field
 paleomagnetic inclination. *See* magnetic inclination
 paleomagnetic inclination, stable, vs. depth, 147B24:412
 paleomagnetic inclination logs, vs. depth, 178B31:18–19
 paleomagnetic pole
 Cretaceous, 198B20:13
 paleolatitude, 191B7:1–20
 paleomagnetic secular variations
 directional variability, 202A6:12
 magnetostratigraphy, 144B34:600–601; 172A5:187
 sills, 210B15:10–11
 time series, 202B2:22
 upper Quaternary, 202B2:1–22
 vs. depth, 202A1:86–87; 4:12; 202B2:11–19
 vs. magnetic declination, 202A1:88–89
 paleomagnetic units
 angular standard deviation, 192A7:11
 hiatuses, 192A5:21–22
 magnetostratigraphy, 192A1–4; 5:21, 119; 6:111; 192B1–18
 paleolatitude, 192A6:23
 paleomagnetism
 age, 151B32:574; 183B9:10–11
 Antarctic Peninsula W, 178B37:3–6
 archive halves, 206A3:82–83, 344–348, 385–387
 Argo Abyssal Plain–Exmouth Plateau region, 123A3:46
 Atlantis Bank, 118A6:151–157, 209
 Atlantis II Fracture Zone, 118A2:21
 Baffin Bay, 105A4:107, 110
 Barbados Ridge, 110A1:20–21; 4:89–90; 110B25:380, 386–389
 basalts, 136B3:45–63; 142A4:61–63; 165B9:157; 183B1:24–25; 191A4:25; 191B7:1–20; 8:1–27; 197A1:12–17; 206A1:33–34
 basement, 197A3:34–37; 206A3:80–85
 Bengal Fan, 116A3:29, 38–42; 4:61–63, 66–70, 81; 5:112–116; 6:168–172; 7:202; 116B26:317, 335; 27:337–344
 biostratigraphy, 173B11:57, 60, 63, 67, 69, 71
 Bonin–Mariana region, 125B31:535, 537–538
 Broken Ridge, 121A3:63
 Cagayan Ridge, 124A14:406–408; 124B2:11–28; 38:511–518
 carbonate rocks, 133B50:749–753
 Carnegie Ridge, 111B13:156
 Celebes Sea, 124A5:88; 10:147–151; 13:353–354; 124B1:4–5; 2:11–28; 3:40–41; 5:68–70; 39:519–520
 Cenozoic, 138B38:779–795; 143B38:593–594
 centennial-scale variations, 202B14:9–10
 Chile triple junction, 141B3:31–48
 clays, 103A12:585
 Cocos Ridge, 111B13:156
 comparison with virtual geomagnetic pole latitude, 199B1:31
 constraints, 129B2:38–39
 Cornaglia Terrace, 107A7:311; 107B8:123–126
 correlation, 155B39:596–597
 Costa Rica Rift, 111A4:270–274; 111B13:148–155; 14:160–162
 Cretaceous, 129B24:447–454; 130B4:51–59; 143B27:405–418
 data, 191B1:6–7
 deep-sea sediments, 185B7:7
 deformation, 131B8:104; 209B1:13
 Demerara Rise, 207A1:42–43
 diabases, 180A6:52–53
 diagenesis, 130B31:527–546
 dip corrections, 140A2:91
 direction of 180 degree component, 121B39:783–784, 798
 discrete samples, 160A15:503–504; 165B9:156–157; 174A_A3:66; 4:124–125; 5:169; 178A4:17–18; 5:15–16; 6:12; 7:12; 9:13–14; 200A3:37–38, 153; 206A3:350–351, 384; 209A3:164; 5:42–43
 drilling disturbed intervals, 206A3:344
 emplacement mode parameter (F), 127/128B(2)59:934, 936–937, 942
 environmental control, 133B38:543–562
 equal-area projection directions, 134A11:350
 Eulerian rotation poles, 121B39:782
 events, 199A8:50; 9:38; 10:54; 11:105; 12:110; 13:79; 14:56; 15:48
 evolution, 192B1:3–4
 experiments, 182A(appendix):1–15
 Exuma Sound, 101A9:350–353; 10:402–403; 10:449–450; 11:449
 gabbros, 147B21:373–381; 22:383–391; 205A4:42–43; 209A3:132
 Galicia margin W, 103A8:143–148; 10:430; 11:539–541
 geodynamic model, 197B1:28

- geomagnetic polarity timescale, 104A6:645
Glomar Challenger, 101A3:33
Gortani Ridge, 107A11:881, 891–892; 107B7:99–104, 107, 109
Greenland margin SE, 163X_A8:6
hotspots, 115B40:735; 197A1:17–19
hydrothermal fields, 158A1:10–11; 158B25:337–351
igneous rocks, 198B20:1–15; 206A3:385–387, 389
Indus Fan, 117A6:65, 67–68; 8:170–171
interhole correlation, 117A12:396; 117B20:345; 22:391–393; 121A12:396–398
Japan arc rotation, 127/128B(2)82:1317–1318
Japan Sea, 127A1:22, 128A1:30–31
JOIDES Resolution, 101A3:33–37
Jurassic, 129B25:455–470
Jurassic–Eocene interval, 129B32:577
Jurassic–Paleocene interval, 129B23:431–446
Kerguelen Plateau, 120B(1)2:35; (2)51:931
Labrador Sea, 105A5:459–462, 466, 491; 6:709, 712–714, 716; 105B34:675–688
late Pleistocene–Holocene interval, 202B1:8
Lima Basin, 112A11:188; 19:824–828
linear regression, 121B39:805, 809–810
lithology, 101B23:344–360; 104B40:887–901; 129A1:18; 129B2:57; 32:579; 130A2:32–33; 10:527–528; 140A2:103–106, 125; 146A(1)4:73, 75–77; 5:162–166; 6:256–257; 7:323–324; (2)2:32–39; 209A3:132
Little Bahama Bank, 101A6:135–137, 145; 7:226, 231; 8:282, 290
magnetic anomalies, 130B32:547–559
magnetostratigraphy, 173B11:56, 58–70
marl, 103A12:585
Marsili Basin, 107A6:132–133, 152–153; 107B22:347–349
Mascarene Plateau, 115A5:252–259; 115B40:719, 723
Mid-Atlantic Ridge, 106/109A7:189; 8:219–220; 106/109B29:312
millennial-scale variations, 202B14:9–10
minicores, 140A2:121
mud volcanoes, 195A3:155
natural remanent magnetization, 104A6:644
Nazareth Bank, 115B40:721–723
Nazca Basin, 111B13:156
Neogene, 132B3:37–45; 138A(1)1:9; 152B22:265–269
Ninetyeast Ridge, 121B28:526–534
North Aoba Basin, 134B26:457–474
Northwest Providence Channel, 101A12:497–498; 13:535, 540
Norwegian Sea, 104A5:485–489; 6:637–643; 104B40:844, 846–847, 851–901
Oman margin, 117A2:21–22; 6:65, 67–68; 11:335–337; 12:399–400; 14:474
orbital forcing, 115B41:760–763, 767–768; 117B22:394–396, 402
orientation, 112A17:620–621; 192A4:21–24; 209A3:132, 166–167
overprinting, 121A13:491; 160A14:497–505; 161A5:138, 140
Owen Ridge, 117A2:21–22
Pacific Basin, 111B13:156
Pacific Ocean, 189A(appendix):1–10; 191B8:1–27
paleocurrents, 131B3:41; 210B3:10–11
Paleogene, 152B20:253–257; 171B_A1:8–9
paleointensity, 155B12:231–243
paleolatitude, 165B9:151–171; 197B1:3–7
peridotites, 147B24:405–413; 149B25:431–446; 173B8:1–34
periodicities, 117A10:272–273
periodograms, 114B29:565–568, 570
Peru margin, 112A2:37
Pisco Basin W, 112A18:728, 736
plate motion, 115B12:120, 122; 197A1:7–10
Pleistocene, 145B33:483–490
Pliocene–Pleistocene interval, 183B9:49
Pliocene–Quaternary interval, 164B39:411–418
principal component analysis, 178A4:151–155; 5:123–124; 7:104; 8:73; 178B37:55–60; 206A3:349
principal results, 188A1:14, 21
Prydz Bay, 119A3:45; 12:465
Quaternary, 161B40:505–518
reflective sequence, 112A12:271, 273
reorientation, 135B19:301–311; 137/140B21:245–247
Salaverry Basin, 112A12:267; 17:630
Sardinian margin, 107A8:404, 427–428; 10:750, 769; 107B21:345
seafloor spreading anomaly, 120B(2)50:920; 121A4:71
seamounts, 129B33:615
sedimentary overburden, 206A3:29–35
sediments, 104A4:152–168; 133B39:563–571; 40:573–614; 138B5:59–72; 143B22:373–379; 152B23:271–280; 159B20:199–207; 172A:318–319; 172B(overview):6–7; 182A1:12–14; 183B13:1–17; 191A4:24–25; 191B9:1–19; 195B13:1–14; 201A6:26–27; 7:28–29; 8:23; 9:19–20; 10:22–23; 11:25–26; 12:21; 205A4:41–42
Serocki Volcano, 106/109A4:68–72, 74–75; 26:291–292; 27:297–300
Site 504, 148A2:68–71
Site 680, 112A12:267–268, 271
Site 681, 112A13:320, 323
Site 682, 112A14:390, 392
Site 685, 112A17:625, 630–635
Site 688, 112A20:884–885, 921, 930
Site 692, 113A7:311–312
Site 698, 114A4:35; 5:114
Site 699, 114A4:35; 6:176–182
Site 700, 114A4:35; 7:278, 280
Site 701, 114A4:35; 8:391–396
Site 702, 114A4:35; 9:501–502
Site 703, 114A4:35; 10:567, 570, 573
Site 704, 114A4:35; 11:652, 656–659
Site 708, 115B40:719, 723
Site 709, 115A7:474–478, 482; 115B40:719, 723–726
Site 710, 115B40:719, 721
Site 711, 115A9:669–674; 115B40:719, 728–730
Site 712, 115A10:746–748; 115B40:730
Site 713, 115A10:746–748; 115B40:730
Site 714, 115A11:856–857; 115B40:731
Site 715, 115A12:918, 925–928; 115B40:731

- Site 716, 115A13:1011–1012; 115B40:733–734
Site 717, 116A5:112–116, 131; 6:168–171, 186;
116B26:318
Site 721, 117A6:65, 67–68; 9:216–221
Site 722, 117A6:65, 67–68; 10:274
Site 725, 117A6:65, 67–68; 13:427–429
Site 726, 117A6:65, 67–68
Site 727, 117A6:65, 67–68; 15:477
Site 728, 117A6:65, 67–68; 16:527
Site 729, 117A6:65
Site 730, 117A6:65, 67–68
Site 731, 117A6:65, 67–68
Site 733, 118A4:73, 75
Site 735, 176A1:22–23; 3:69–77
Site 736, 119A3:45, 135–137
Site 737, 119A3:45; 6:185–189
Site 738, 119A3:45; 7:252–254
Site 740, 119A9:359, 374
Site 742, 119A11:415–417, 451
Site 744, 119A3:45; 13:488–490, 503; 119B44:783–
794
Site 745, 119A3:45; 14:516–518
Site 746, 119A3:45; 15:544–547
Site 747, 120A6:114; 120B(1)6:80–82, 90
Site 748, 120A5:79; 7:176, 198–204, 230; 120B(1)1:24;
6:82, 91
Site 749, 120A8:255, 273; 120B(1)6:82–83
Site 750, 120A9:306; 120B(1)6:83–84, 93
Site 751, 120A21:355
Site 752, 121A6:130–137
Site 753, 121A7:179–182
Site 754, 121A8:192, 205–212
Site 755, 121A9:238, 246–249
Site 756, 121A5:101; 10:279–288; 121B28:530; 39:784
Site 757, 121A2:52–53; 5:101, 105; 11:331–333, 338–
340; 121B28:531; 39:784, 792
Site 758, 121A12:394–398, 410–411; 121B28:532;
39:792–797
Site 765, 123A2:14–16; 4:130–140; 123B28:529
Site 766, 123A2:14–16; 5:297–301; 123B28:529–530
Site 778, 125A6:108, 114
Site 779, 125A7:140
Site 782, 125B31:535, 539
Site 784, 125A12:294; 125B31:537, 540
Site 786, 125A14:335–338; 125B31:537–538, 540–541
Site 794, 127A4:103–105; 127/128B(2)59:934–935;
128A1:30–31; 3:69, 100–105
Site 795, 127A5:174, 199; 127/128B(2)59:934, 937
Site 796, 127A6:251, 275
Site 797, 127A7:324, 357; 127/128B(2)59:934, 937–
938; 60:947–957
Site 798, 128A1:30–31; 4:166
Site 799, 128A1:30–31; 5:312
Site 800, 129A2:52–57
Site 801, 129A3:118–123; 185A3:31–35
Site 802, 129A4:200–205
Site 803, 130A5:127–131
Site 804, 130A6:193–196
Site 805, 130A7:245–248
Site 806, 130A8:316–320
Site 807, 130A9:408–414, 455–456
Site 808, 131A6:121–128
Site 809, 132A3:60–61
Site 810, 132A4:88–93
Site 811, 133A(1)4:99–100
Site 812, 133A(1)5:153–154
Site 813, 133A(1)6:187–188
Site 814, 133A(1)7:213–215
Site 815, 133A(1)8:264
Site 816, 133A(1)9:313–314
Site 817, 133A(1)10:368
Site 818, 133A(1)11:428–429
Site 819, 133A(1)12:465–466
Site 820, 133A(1)13:519–520
Site 821, 133A(1)14:580–581
Site 822, 133A(1)15:629–631
Site 823, 133A(1)16:705–707
Site 824, 133A(1)17:781
Site 825, 133A(1)4:101
Site 827, 134A7:115, 118
Site 828, 134A8:158–161
Site 829, 134A9:211, 214–218
Site 830, 134A10:281, 283–284
Site 831, 134A11:344–346
Site 832, 134A12:423–424
Site 833, 134A13:509, 511, 514
Site 836, 135A(1)6:262–265
Site 837, 135A(1)7:309–315
Site 838, 135A(1)8:363–365
Site 839, 135A(1)9:422–428
Site 840, 135A(1)10:526, 530–534
Site 842, 136A4:42–54
Site 843, 136A5:68–69
Site 844, 138A(1)9:142–145
Site 845, 138A(1)10:216
Site 846, 138A(1)11:293
Site 847, 138A(1)12:352–353
Site 848, 138A(2)13:692–695
Site 849, 138A(2)14:748
Site 850, 138A(2)15:825–826, 830
Site 851, 138A(2)16:909, 912–913
Site 852, 138A(2)17:986–987
Site 853, 138A(2)18:1032, 1034–1035
Site 854, 138A(2)19:1073–1079
Site 855, 139A5:113–114
Site 856, 139A6:183, 185–188
Site 857, 139A7:305–307, 312–313
Site 858, 139A8:459–465, 467–470
Site 859, 141A6:92–94
Site 860, 141A7:181–183
Site 861, 141A8:259–261
Site 862, 141A9:318, 320–321
Site 863, 141A10:365, 367–369
Site 865, 143A6:133–135; 143B24:389–393
Site 866, 143A7:213–215
Site 869, 143A9:325–329
Site 871, 144A3:65–66
Site 872, 144A4:125–126
Site 873, 144A5:177–178
Site 874, 144A6:231
Site 877, 144A8:299, 301–302
Site 878, 144A10:362–366

- Site 879, 144A11:426–427
Site 880, 144A12:445
Site 881, 145A3:50–51
Site 882, 145A4:93, 95
Site 883, 145A5:145–147
Site 884, 145A6:228, 231–234
Site 887, 145A8:349–350
Site 894, 147A3:90–98
Site 895, 147A4:144–150
Site 896, 148A3:158–161; 148B15:217–226
Site 897, 149A4:70–73
Site 898, 149A5:129–131
Site 899, 149A6:179–182
Site 900, 149A7:230–231
Site 902, 150A6:86–89
Site 903, 150A7:157–159
Site 904, 150A8:227–228
Site 905, 150A9:280
Site 906, 150A10:325–326
Site 907, 151A5:74–77; 162A7:240–241
Site 908, 151A6:125–129
Site 909, 151A7:176–181
Site 910, 151A8:236–239
Site 911, 151A9:281–285
Site 912, 151A10:329–332
Site 913, 151A11:365–366
Site 914, 152A6:64–66
Site 915, 152A7:78–79
Site 916, 152A8:96–97
Site 917, 152A9:119–121; 152B21:259–264
Site 918, 152A11:219–224
Site 919, 152A12:266–267
Site 920, 153A3:106–111
Site 921, 153A4:167–171
Site 922, 153A5:209–211
Site 923, 153A6:251–254
Site 924, 153A7:271–272
Site 925, 154A4:78–79, 90–91
Site 926, 154A5:167–168, 170–171, 180–181
Site 927, 154A6:244, 250–251, 254–255
Site 928, 154A7:293, 297–299, 303
Site 929, 154A8:353–354, 360–361, 364–365
Site 930, 155A6:100, 102–103
Site 931, 155A7:138
Site 932, 155A8:188–189
Site 933, 155A9:213
Site 934, 155A10:255–256
Site 935, 155A11:291–293
Site 936, 155A12:343, 345
Site 937, 155A13:395, 397–398
Site 939, 155A15:447–448
Site 940, 155A16:474–475
Site 941, 155A17:519
Site 942, 155A18:550, 552–555
Site 943, 155A19:579
Site 944, 155A20:606–608
Site 945, 155A21:648–649
Site 946, 155A22:670–671
Site 948, 156A6:131–137
Site 949, 156A7:220–221
Site 950, 157A4:75–77
Site 951, 157A5:121–123
Site 952, 157A6:152–154
Site 953, 157A7:347, 349–351
Site 954, 157A8:412–414
Site 955, 157A9:453–454
Site 956, 157A10:520
Site 959, 159A5:93–95
Site 960, 159A6:182–184
Site 961, 159A7:238
Site 962, 159A8:274–276
Site 963, 160A4:63; 5:103–104
Site 965, 160A6:135–136
Site 966, 160A7:177–179
Site 967, 160A8:233–234
Site 968, 160A9:303–304
Site 969, 160A10:356–357
Site 970, 160A11:390
Site 971, 160A12:435
Site 973, 160A14:479, 481
Site 974, 161A4:73–78
Site 975, 161A5:137–140
Site 976, 161A6:204–209
Site 977, 161A7:313–314, 316
Site 978, 161A8:367, 369, 372–373
Site 979, 161A9:399
Site 982, 162A4:112
Site 983, 162A5:154
Site 984, 162A6:189
Site 985, 162A8:269–270
Site 986, 162A9:304, 306
Site 987, 162A10:357–358
Site 988, 163A3:26
Site 989, 163A4:35–36
Site 990, 163A5:54; 163B4:37–40
Site 994, 164A6:117–122
Site 995, 164A7:189–193
Site 996, 164A8:258, 260–261
Site 997, 164A9:292–295
Site 998, 165A3:67–69
Site 999, 165A4:158–161
Site 1000, 165A5:251–252
Site 1001, 165A6:314–315
Site 1002, 165A7:368–369
Site 1003, 166A6:89–90
Site 1004, 166A7:158–159
Site 1005, 166A8:185–186
Site 1006, 166A9:246–248; 166B11:123–127
Site 1007, 166A10:309–311
Site 1008, 166A11:358–359
Site 1009, 166A11:359–360
Site 1010, 167A(1)4:63–64, 71–72
Site 1011, 167A(1)5:102–103
Site 1012, 167A(1)6:139–141
Site 1013, 167A(1)7:163–165
Site 1014, 167A(1)8:187
Site 1016, 167A(1)10:256
Site 1017, 167A(1)11:293
Site 1018, 167A(1)12:325
Site 1019, 167A(1)13:364–366
Site 1020, 167A(1)14:400
Site 1021, 167A(1)15:442

- Site 1022, 167A(1)16:473
Site 1035, 169A3:134–139
Site 1036, 169A4:200–201
Site 1037, 169A5:231–233
Site 1038, 169A6:293–295
Site 1039, 170A3:70–71
Site 1040, 170A4:126–127
Site 1041, 170A5:167
Site 1042, 170A6:201
Site 1043, 170A7:232–233
Site 1049, 171B_A3:70–71
Site 1050, 171B_A4:132–134
Site 1051, 171B_A5:196, 199–203
Site 1052, 171B_A6:274–282
Site 1053, 171B_A7:329–330
Site 1065, 173A4:81, 83–84
Site 1067, 173A6:121, 123–124
Site 1068, 173A7:182–185
Site 1069, 173A8:244–245
Site 1070, 173A9:275–277
Site 1071, 174A_A3:65–71
Site 1072, 174A_A4:120–122
Site 1073, 174A_A5:168–170
Site 1075, 175A3:69–70
Site 1076, 175A4:98–99
Site 1077, 175A5:126–128
Site 1078, 175A6:159–160
Site 1079, 175A7:183, 185–187
Site 1080, 175A8:209–211
Site 1081, 175A9:251–254
Site 1082, 175A10:291–292
Site 1083, 175A11:320, 322–323
Site 1084, 175A12:363–364
Site 1085, 175A13:406
Site 1086, 175A14:442
Site 1087, 175A15:468, 470–471
Site 1088, 177A3:10–11
Site 1089, 177A4:14
Site 1090, 177A5:17
Site 1091, 177A6:11–12
Site 1092, 177A7:13
Site 1093, 177A8:14
Site 1094, 177A9:11
Site 1095, 178A4:16–20
Site 1096, 178A5:15–16
Site 1097, 178A6:11–13
Site 1098, 178A7:11–12
Site 1099, 178A7:11–12
Site 1100, 178A9:12–15
Site 1101, 178A8:11–12
Site 1102, 178A9:12–15
Site 1103, 178A9:12–15
Site 1108, 180A5:27–30
Site 1109, 180A6:48–53
Site 1114, 180A8:29–30
Site 1115, 180A9:34–38
Site 1116, 180A10:15–16
Site 1117, 180A11:9–10
Site 1118, 180A12:33–35
Site 1119, 181A3:18–20
Site 1120, 181A4:15–16
Site 1121, 181A5:15–18
Site 1122, 181A6:20–24
Site 1123, 181A7:26–32; 181B1:91
Site 1124, 181A8:23–27
Site 1125, 181A9:16–17
Site 1126, 182A4:24–26
Site 1127, 182A5:14–17
Site 1128, 182A6:22–24
Site 1129, 182A7:16–19
Site 1130, 182A8:19–21
Site 1131, 182A9:14–16
Site 1132, 182A10:21–22
Site 1133, 182A11:10–11
Site 1134, 182A12:17–18
Site 1135, 183A3:13–14
Site 1136, 183A4:23–26
Site 1137, 183A5:45–48
Site 1138, 183A6:53–56
Site 1139, 183A7:47–49
Site 1140, 183A8:22–24
Site 1141, 183A9:35–37
Site 1142, 183A9:35–37
Site 1143, 184A4:15–17
Site 1144, 184A5:11–13
Site 1145, 184A6:8–10
Site 1146, 184A7:12–13
Site 1147, 184A8:5–6
Site 1148, 184A9:15
Site 1149, 185A4:34–37
Site 1150, 186A4:27–35
Site 1151, 186A5:22–23
Site 1165, 188A3:39–43
Site 1166, 188A4:26–29
Site 1167, 188A5:19–22
Site 1168, 189A3:34–36
Site 1169, 189A4:17–18
Site 1170, 189A5:36–38
Site 1171, 189A6:40–43
Site 1172, 189A7:36–39
Site 1173, 190A4:14–16, 57–62, 130; 196A3:32–33
Site 1174, 190A5:17–20, 63–66, 69
Site 1175, 190A6:12–15, 41–42, 44–45, 82
Site 1176, 190A7:10–11, 35, 72
Site 1177, 190A8:12–14
Site 1178, 190A9:14–15
Site 1179, 191A1:16–17; 4:23–25
Site 1183, 192A3:32–35
Site 1184, 192A4:19–24
Site 1185, 192A5:18–22
Site 1186, 192A6:20–23
Site 1187, 192A7:9–11
Site 1192, 194A3:11–13
Site 1193, 194A4:17–19
Site 1194, 194A5:13–15
Site 1195, 194A6:10–12
Site 1196, 194A7:22–23
Site 1197, 194A8:14–16
Site 1198, 194A9:12–14
Site 1199, 194A7:23–24
Site 1200, 195A3:26–29
Site 1201, 195A4:28–33

- Site 1202, 195A5:9–11; 195B13:1–14
 Site 1203, 197A3:31–37
 Site 1204, 197A4:24–30
 Site 1205, 197A5:21–25
 Site 1206, 197A6:18–22
 Site 1207, 198A3:25–26
 Site 1208, 198A4:21–22
 Site 1209, 198A5:23
 Site 1210, 198A6:20–21
 Site 1211, 198A7:19–20
 Site 1212, 198A8:17–18
 Site 1213, 198A9:24–25; 198B20:1–15; 21:1–14
 Site 1215, 199A8:10–12
 Site 1216, 199A9:7–8
 Site 1217, 199A10:12–13
 Site 1218, 199A11:19–21
 Site 1219, 199A12:21–22
 Site 1220, 199A13:18
 Site 1221, 199A14:15
 Site 1222, 199A15:9–10
 Site 1223, 200A3:34–39, 148–150
 Site 1224, 200A4:6, 41–42
 Site 1232, 202A3:11–12
 Site 1233, 202A4:11–13; 202B2:1–22; 14:1–30
 Site 1234, 202A5:10–12; 202B2:1–22
 Site 1235, 202A6:11–12
 Site 1236, 202A7:15–16
 Site 1237, 202A8:20–22
 Site 1238, 202A9:17
 Site 1239, 202A10:15–16
 Site 1240, 202A11:13–14
 Site 1241, 202A12:13–14
 Site 1242, 202A13:12–13
 Site 1243, 203A3:17–20
 Site 1253, 205A1:20; 4:5–6, 41–45
 Site 1254, 205A1:30; 5:5, 25–27
 Site 1255, 205A1:35; 6:3, 13–14
 Site 1257, 207A4:16–19
 Site 1258, 207A5:18–21; 207B3:36–37
 Site 1259, 207A6:22–25; 207B3:38–39
 Site 1260, 207A7:18–21; 207B3:40–45
 Site 1261, 207A8:19–21; 207B3:47–48
 Site 1262, 208A3:17–19
 Site 1263, 208A4:15–17
 Site 1264, 208A5:12–13
 Site 1265, 208A6:20–22
 Site 1266, 208A7:18–20
 Site 1267, 208A8:20–21
 Site 1268, 209A1:21–23; 3:41–47
 Site 1270, 209A1:30–33; 5:41–45
 Site 1271, 209A1:39; 6:33–35
 Site 1272, 209A7:28–31
 Site 1274, 209A9:22–25
 Site 1275, 209A10:31–36
 Site 1276, 210A1:19–20; 3:90–95
 Site 1277, 210A1:23–24; 4:9
 Sites 708–710, 115A9:674
 Sites 867–868, 143A8:284
 Sites 875–876, 144A7:274–275
 Sites 885–886, 145A7:310–311
 Sites 894–895, 147A1:12
 Sites 980–981, 162A3:70–71
 Sites 991–993, 164A5:82–87
 Sites 1054–1055, 172A3:44–47
 Sites 1056–1059, 172A4:97–104
 Sites 1060–1062, 172A5:184–188
 Sites 1063–1064, 172A6:262–266
 Sites 1110–1113, 180A7:19–21
 Sites 1174–1173, 190A5:19–20
 Sites 708 and 709, 115B25:476
 Sites 722 and 731, 117A19:607
 split cores, 165B9:154–156; 178A4:16–17, 125–145;
 5:15, 106–118; 6:11; 7:11–12, 83–102; 8:11, 67–
 71; 9:12; 206A3:32–33
 Stage 3, 172B11:1–20
 Straits of Florida, 101A5:67–70
 stress field, 127/128B(2)67:1050
 structure, 147B32:516–529
 Sulu Sea, 124A5:88; 11:226–233, 279; 124B2:11–28;
 5:68–70; 38:511–515
 summary, 177A1:23–24, 49; 182A1:17–20, 51–52;
 189A1:37–38; 198A1:58; 200A1:14; 203A3:80–
 81; 203B1:5–6; 206A1:24
 TAG area, 158A7:120–123; 8:166–168; 10:201–203;
 11:221–223
 tectonics, 115B11:115–116; 120B(1)7:95;
 134B25:447–456; 209A1:44, 52–53, 63–65
 tephra, 165B9:154
 thermal overprinting, 141B4:59–76
 timescales, 157A2:23–24
 Transect EG64–EG68, 163X_A4:13–14, 25; 5:6, 16;
 6:23–24, 50; 7:5, 16;
 Trujillo Basin, 112A16:554, 566
 Tyrrhenian Sea, 107A7:290–291, 339; 107B7:99–104,
 107, 109
 U-channel samples, 178B37:49–54
 Upper Cretaceous–Eocene interval, 129B32:576–578
 volcanic ash, 151B17:313–314
 volcanic sequence, 104A4:166–175; 104B42:911–919;
 144B34:585–604
 vs. structural analysis, 134B24:431–443
 well-logging, 143B23:383
 whole-round experiment, 206A3:83–84
 working-half measurements, 206A3:81–82
 Yamato and Japan basins, 127/128B(2)59:941–942
 Yaquina Basin, 112A15:464–465, 468; 17:630
See also coercivity; magnetic inclination; magnetic
 lineation; magnetic polarity; magnetic proper-
 ties; magnetic susceptibility; magnetostratigra-
 phy; magnetozones; median destructive field;
 paramagnetism; remanent magnetization; rock
 magnetism; Verwey transition
 paleome, microbial communities, 201B1:19
 paleontologic datums, sedimentation, 139A7:326
 paleontology
 Cretaceous/Tertiary boundary, 198A1:113; 5:40
 Paleocene/Eocene Thermal Maximum, 198A1:112
 Site 835, 135A(1)5:204
 Site 838, 135A(1)8:362
 Site 839, 135A(1)9:421
 Site 840, 135A(1)10:528–529
 Site 841, 135A(1)11:610–612

- vs. depth, 135A(1)4:114–115
Site 1033, 169S_A2:40–41
See also modern analog technique
- paleopathways, clay mineralogy, 178B8:14
- paleopiezometry, magnetite and ilmenite, 153B7:132–133
- paleopoles
Eocene, 199B21:4–5
frontal systems, 177A1:22
oriented sample data, 143B27:415
- paleopositions. *See* paleopoles
- paleoproductivity
age models, 181A9:18–19
alkenones, 146B(2)19:262; 165B16:243;
167A(1)11:296–297; 167B10:156–160
biogenic opal, 181B6:2–3
biogeography, 198B7:15–16
biomarkers, 175B5:9; 198A3:32
biostratigraphy, 177A4:11
calcareous nannofossils, 188A3:29–30
carbon burial, 199B1:17–18
carbonates, 138B14:333–335; 144B52:931;
167B25:291
Cenozoic, 144B41:688
clay content increase, 105B13:193
color, 146B(2)3:42–43; 178B3:6–7
continental margin, 146B(2)8:115–117
Cretaceous, 144B45:785–787; 159B20:203
diatoms, 144B3:74–76; 151B29:483–492; 164B35:366,
376; 167B3:67, 104; 181A4:8
dinoflagellates, 151B12:214; 14:280–281
Eocene–Holocene interval, 105B13:191–193
Eocene–Oligocene interval, 189B1:14
ferromanganese crusts, 144B44:758
foraminifers, 175B7:7–8; 12:3–8; 198B9:7–8
formulas, 105B13:186–187
geochemistry, 189A3:39–40
guyots, 144B53:947
hemipelagite, 161B8:102–104, 109
Labrador Sea, 105B13:191–193
laminites, 146B(2)6:81–82
lithology, 151A7:171; 10:322–326; 11:360; 189A7:19
manganese nodules, 138B40:809
marine environment, 161B36:459–462
marine organic carbon, 105B13:207; 159B41:570
mass accumulation rates, 184B21:3
millennial cycles, 167B32:356
Miocene–Pliocene interval, 145B38:594
mud, 178A2:16–17
nannofossils, 144B7:147–150; 183B4:12; 188B11:7
Neogene, 145B38:590
organic carbon, 151B22:397–398
organic matter, 146B(2)9:131–135; 167B24:275–276;
175B6:8
organic-rich layers, 161B30:397
paleoceanography, 167B32:369–370; 178B23:12–16
paleoclimatology, 146B(2)23:320–323; 161B29:388;
31:409–410
paleoenvironment, 151A13:418–419; 181A7:26
Paleogene, 151B5:83; 199A1:14–17
plankton, 131B30:382–384
planktonic foraminifers, 182B3:14
plate movement, 199B1:9–10
Pleistocene, 161B38:487
proxies, 198B11:3–4
Quaternary, 146B(2)11:161
radiolarians, 183B5:7–10
sapropels, 161B40:517
sedimentation, 105B14:217; 138B9:172–174;
161B2:29; 165A3:96; 165B4:96
sediments, 146B(2)14:210; 149B13:299; 151A6:135–
136; 159B43:590; 175A3:75; 184B18:5–6
surface water, 105B13:193
teleconnections, 167B32:371–372
time intervals, 105B13:208
upper Quaternary, 167B7:138
vs. age, 146B(2)8:116
See also productivity
- paleoproductivity, measured, accumulation rate,
146B(2)8:108
- paleoproductivity proxies, biogenic opal, 178B23:9
- paleoprovinces, dinocysts, 189B5:6
- paleoredox
biomarkers, 207A10:12
deep-sea sediments, 185B7:7
See also redox
- paleorelief, photograph, 194A8:41
- paleorift basins, Pliocene, 180B(synthesis):11
- paleosalinity
Eocene, 151B33:583–591
sediments, 149A4:99–100
Termination 1, 202B1:26
See also salinity
- paleoseafloors, volcanism, 193B1:9–11
- paleoseawater
calcareous nannofossils, 159B26:327
chloride, 164B12:133–134
vs. seawater, 129B16:298
See also paleosurface water; sea water
- paleosecular variations. *See* paleomagnetic secular variations
- paleoseismicity, proxy data, 169S_A2:17
- paleoshelf, thickness, 188B14:5
- paleosols
clay mineralogy, 144B26:466
composition, 144B19:383–388
deposition, 152A10:173
diagenesis, 144B46:790
lithology, 152A10:170–173; 160A6:130; 160B43:560;
174AXS_A4:18–19, 24–25; 5:41–42; 6:19–20,
41–42
origin, 144B17:348–394
photograph, 160A6:132; 174AXS_A6:80
Site 750, 120B(1)8:106
volcanic substrate, 144B53:942
See also pedogenesis; terra rosa
- paleosurface, mud volcanoes, 195A3:15
- paleosurface water
calcareous nannofossils, 159B26:327
See also surface water

- paleotemperature
 alkenones, 139B26:482; 161A4:82; 5:144; 6:233;
 7:318; 165B16:242–246; 167B10:153–161;
 186B13:3
 bitumens, 160A5:115, 117; 7:189–190; 8:251–252,
 264; 10:370–371
 carbonate platforms, 144B52:930–931
 cements, 144B24:440
 chertification, 167B32:350
 Cretaceous, 159B7:63–64
 diatoms, 167B4:111–113
 dolomite, 143B11:163
 estimates, 129B7:174
 foraminifers, 133B19:269, 271–273
 lithification, 192B2:5
 maturation, 139B28:498–504
 nannofossils, 139B5:70
 Neogene, 144B20:409
 nuclear magnetic resonance, 139B27:491
 organic-rich layers, 161B30:396
 paleoceanography, 186B3:1–21
 paleoclimatic curves, 145B3:48–50
 paleoenvironment, 194B2:9–10
 Pleistocene, 133B12:166–170
 profiles, 139B43:684–685
 Quaternary, 133B13:175–180
 reconstruction, 138A(1)11:302–304
 sediments, 139B35:565–570; 146B(2)14:209–210;
 150A6:98
 stable isotopes, 141B17:239
 Tertiary, 133B20:285
 thermal history, 159B7:65
 vs. depth, 133B13:179; 161B30:397; 186B13:6
See also temperature; paleoclimatology
 paleotemperature, sea-surface
 biomarkers in sapropels, 161A4:91; 5:151
 Quaternary, 146B(2)19:257–264
 vs. depth, 161A4:91; 5:151
 paleothermometry
 greenhouse forcing, 207A1:8–11
 magnesium/calcium ratio, 202B13:4–5
 middle Pliocene, 202B1:5
 paleotopography, rifts, 152B41:517
 paleotransport
 tectonics, 180B7:45
See also transport
 paleovalleys, sedimentation, 180A6:32–33
 paleovegetation
 age vs. depth, 152A10:175
 continental environment, 161B36:462–464
 Cretaceous, 183B3:10–11
 depth, 152A12:265–266
 Quaternary, 155B32:525–526
 sedimentation rates, 152A11:225
See also grasses; pollen; vegetation; vegetation index
 paleoveins, photograph, 169A3:72
 paleovesicles, paleosols, 144B19:388
 paleowater depths
 Australian NW margin, 123B43:810–813
 benthic foraminifers, 174AXS_A5:44–45
 depth, 198A5:22
 lithofacies, 135B12:178–188
 nannofossils, 189A4:11
 sediments, 194A8:13
 seismic profiles, 180B(synthesis):34
 Tonga forearc, 135B53:847
 paleowater, abyssal, benthic foraminifers, 198A3:24
 paleowind intensity, diatoms, 144B3:74–76
 Paleozoic
 terranes, 146A(1)1:5
 Variscan basement, 149B1:7–8
 palisade cells, photomicrograph, 180B10:34
 palladium
 diabases, 137/140B10:117–120
 Mascarene Plateau, 115B7:77
 Nazareth Bank, 115B7:77
 Paleocene/Eocene boundary, 199B16:3
 peridotites, 153B29:518
 serpentinite seamounts, 125B29:509–513
 Site 699, 114B37:693
 Site 713, 115B7:77
 Site 715, 115B7:77, 81
 sources, 125B29:511
 speciation in pore fluids, 125B29:511–512
 sulfides and sediments, 158B3:46
 vs. copper, 135B35:600
 vs. depth, 137/140B10:119
 vs. gold, 135B35:602
See also platinum/palladium ratio; platinum-palladium series; platinum-group elements
 palladium/iridium ratio
 alkalinity, 115B7:82
 basalts, 115B7:77
 magma, 115B7:81–82
 Palmason model, seismic reflectors, 152A1:8
 palygorskite
 aridity cycles and formation, 117B9:207
 authigenic minerals, 149B31:532; 159B11:106
 claystone, 159B1:10
 Coniacian–Eocene interval, 159B12:118
 deposition, 159A9:308
 diagenesis, 159B7:59
 distribution, 107B20:324
 dolomite association, 117B8:192
 electron microscopy, 160B34:443–444
 Eocene, 159B32:421
 eolian transport, 117A10:283
 formation environment, 107B20:325
 Formation MicroScanner imagery logs, 160B47:619
 Indus Fan, 117B8:196
 lithology, 125B7:117; 159A7:227–228, 234; 8:264–
 266, 268; 160B34:438
 lower Eocene, 159B15:141–156
 Mesozoic, 103B35:598
 mineral associations, 123B2:69; 3:79; 41:785
 Miocene, 117B8:193
 Miocene/Pliocene boundary, 117B8:192
 monsoonal circulation, 117B8:188–189
 ooze/chalk transformation, 123B41:784
 origin, 159B15:148–150
 Owen Ridge, 117B8:187
 paleoenvironment, 159A6:175–176

- photograph, 159A7:229
 provenance, 107B10:147; 20:325; 117B8:183, 192;
 9:198, 202–203; 123A4:151–152; 123B2:70;
 41:785; 125B7:129; 160B18:221, 238
 replacement of serpentinite, 149B31:534
 scanning electron micrograph, 159B16:153–156
 sedimentation, 161B2:31
 serpentine sediments, 125B18:332
 siliciclastics, 133B30:462–470
 Site 722, 117B8:196; 23:412
 Site 723, 117A11:351, 362
 Site 724, 117B23:412
 Site 725, 117A13:424
 Site 765, 123A4:98, 100; 123B2:74–75
 Straits of Florida, 101B11:173–174
 transmission electron microscopy, 129B1:30
 turbiditic–pelagic transition, 117B8:187, 193
 Tyrrhenian Sea, 107B10:152
 uplifts and abundance, 117B8:187–188, 194
 vs. depth, 160B18:221, 223
 western source, 117B8:193
 X-ray diffraction data, 125B7:120; 159A6:168; 8:265;
 185A4:14, 71, 79
 zeolitic clays, 123B1:33
See also smectite/palygorskite ratio
- palygorskite, eolian
 Arabian Peninsula transport, 117A3:35
 Somali Peninsula transport, 117A3:35
 sources, 117A3:35
- palynofacies
 biostratigraphy, 144A4:124; 5:175
 Cretaceous–Paleocene interval, 159B24:258–262;
 25:277–318
 laminations, 160B27:338
 sediments, 131B5:57–69
 vs. depth, 144A4:126; 159B25:286, 288, 290
 See also biofacies
- palynofacies units
 Site 872, 144A4:124
 Site 873, 144A5:175
- palynology. *See* palynomorphs
- palynomorphs
 absence, 113B36:595, 598–599
 abundance, 104A4:130–137; 123B20:422; 155A8:188;
 10:258; 11:291; 12:349; 13:397; 14:422; 16:478;
 17:524; 18:552; 19:581; 20:610; 22:673;
 155B23:383; 41:668–669; 173A4:104; 8:263
 age, 104A5:478–479; 6:633–634
 Antarctica, 119B48:873–874; 123B39:747
 Aptian–Albian source area, 123A4:129
 Aptian/Barremian boundary, 123A4:125
 Argo Abyssal Plain, 123B1:42
 Australia, 123B20:423; 21:433–434
 biofacies, 112B17:310–313, 319–320
 biostratigraphy, 105B24:401–402; 25:426, 429;
 28:519–520; 50:941; 113A7:311; 113B29:452–
 454; 116B21:251–252; 119A5:135; 7:252;
 32:631–632; 123A4:118; 5:292; 123B19:407–
 410; 129A1:16–18; 143A6:133; 7:212–213;
 9:320; 144A3:58, 64–65; 4:124–125; 5:175–176;
 6:228; 8:299; 10:361–362; 11:426, 445;
 146A(2)2:48–49; 146B(2)20:265–279;
 150X_B11:129–145; 151A5:73; 6:125; 7:175;
 8:236; 11:364; 155A6:100; 7:137; 8:186; 9:212–
 213; 10:254–255; 11:291; 12:343; 13:395;
 14:421; 15:447; 16:473; 17:518–519; 18:550;
 19:579; 20:606; 21:648; 22:669; 159A5:92–93;
 171B_B6:1–25; 173A4:103–104; 8:263;
 174A_A3:63–64; 4:118–119; 5:167–168;
 174A_B(synopsis):5–7; 174AXS_A1:44–45; 2:33–
 35; 3:35–38, 65; 4:28–29; 7:23–24; 178B26:1–21;
 28:1–22; 183A4:10; 183B3:9–13; 186B6:1–19;
 188A4:25; 188B2:1–20; 189A3:31–33; 4:15–16;
 5:30–35; 6:36–39; 7:32–35; 191A4:18–19;
 210A1:16; 3:85–87; 210B13:41–43
 boreal taxa, 105B24:407
 Brunhes epoch changes, 108B6:99–100
 Cenozoic, 123B20:422–425; 131B5:57–69;
 149B10:241–265; 152B16:221–231; 188B3:1–43
 Chenopodiaceae–Amaranthaceae influx, 108B6:101–
 102
 clustering groups, 108B6:94, 96
 concentrations, 104A5:478–479; 6:632–633;
 105A4:98–99; 105B22:388, 390; 23:389–391;
 24:403–405, 410–411; 25:429; 32:606–608, 611–
 613; 33:628, 635; 108B6:94, 106–111
 continental rise, 178B2:1–10
 Cretaceous, 123A4:125–126; 123B12:232; 38:721;
 174AX_A1:41; 174AXS_5:48
 Cretaceous–Cenozoic interval, 189B3:6–7
 Cretaceous–Paleocene interval, 159B24:253–318
 dating, 113B29:449–450
 dinocysts and acritarchs, 105B23:390; 24:402, 405–
 407, 409–411
 distribution, 123B19:413–415; 174AXS_A6:56–57,
 103; 189A3:145–148; 7:126–127; 210A3:337
 electron microscopy, 185B9:25
 Eocene–Oligocene transition, 189A5:74; 189B3:26
 geographical plants region, 117B15:277
 glacial–interglacial cycles, 105B24:407, 411;
 108B6:93, 97–101
 glaciation, 120B(1)2:175
 grassland species, 123B20:423
 isotopic stratigraphy, 108B6:94–97
 Italy S, 107B24:395
 Japan Sea, 127/128B(1)18:317–321; 19:325–338
 Kerguelen Plateau central, 120B(2)53:952
 Kimmeridgian–Portlandian interval, 173A8:263
 Labrador Sea and Atlantic Ocean N comparisons,
 105B27:470–472
 Lima Basin, 112B17:300–302
 lithology, 105B23:387–388; 163X_A6:20
 Lower Cretaceous, 129B11:221–228
 Maastrichtian–Eocene interval, 189B3:27
 Maastrichtian–Paleogene interval, 189B10:3
 marine sediments, 123B20:421
 marine taxa, 103B21:357; 105B23:390–392; 24:402,
 405–409; 27:474, 476–483; 28:519–520
 Matuyama epoch climatic cooling, 107B23:376
 Mesozoic, 159B35:481–490
 Mesozoic–Paleogene interval, 188B1:6
 methods, 104B33:664–665

- microfabrics, 185B9:8–9
microfossil studies, 104A2:40; 4:131, 136–141, 147;
5:478–479; 104B39:783–784
microplankton biofacies, 112B17:302–317, 320–321
mid-Cretaceous, 183B3:1–39
Miocene, 150X_B20:277–285
modern atmosphere, 117B15:278–279
monsoon, 117B14:271; 15:277–280
Neogene, 123A4:125, 246; 123B21:432–434;
133B10:115–125; 188B1:11; 2:1–20
occurrence, 174AXS_A2:66; 5:91–93
orbital forcing response, 108B6:99
paleoceanography, 105B25:431–433; 120B(1)19:289
paleoclimatology, 113B29:454–455; 116B21:253;
145B10:171–176; 155B25:411–418;
167B17:217–226; 20:239–245
paleoecology, 104A2:40; 4:131, 136–141; 5:478–479;
6:634
paleoenvironment, 104A5:478–479; 6:633;
105B23:390–392; 24:407, 409; 25:431–433;
123A4:129; 183B3:6–9; 189B10:4
palynoclasts, 112B17:298, 307, 310, 316, 320
palynodebris, 112B17:298
palynofacies, 112B17:302–316, 319
palynoflora, 113B29:451–452
percentages, 105B24:408, 412; 33:632–633
Persian Gulf, 123B21:434
Peru margin, 112B9:139; 123B21:434
photomicrograph, 129B11:228; 189B2:23–35
phytoclasts, 112B17:298
Pisco Basin W, 112B17:300–302
Pleistocene, 116B21:249, 253; 155B24:397–409
Pliocene–Pleistocene interval, 181B1:22, 97
pollen and spores, 105B23:393; 108B6:95–99
preservation, 104A2:40; 4:131, 136–141; 5:478
protoperidiniacean cysts, 105B25:430, 432; 28:525
Prydz Bay, 119B53:941–945
Quaternary, 108B6:100; 133B9:107–114; 155B23:381–
396; 161B36:457–468; 189B3:24–25
radiolarian claystones, 123B1:17
recovery depths, 105A5:445; 6:698
reworked taxa, 105B23:394; 24:409; 25:426; 27:473;
119A11:415; 123A4:126
Sahel–Sahara boundary shift, 108B6:94, 101
sedimentation, 108B6:94; 113B29:455–456
sediments, 124B27:369–372; 169S_A2:16–17
Site 261, 123B1:27
Site 680, 112B17:300–301
Site 681, 112B17:300–302
Site 717, 116B21:249–257
Site 720, 117B15:281, 283
Site 739, 119B7:139
Site 740, 119B3:54
Site 741, 119A10:384
Site 742, 119A11:414–415; 119B7:139
Site 743, 119B7:139
Site 748, 120A7:196
Site 750, 120A9:305
Site 750, 120B(1)17:256; 19:281
Site 765, 123A4:118–119; 123B20:424–426
Site 766, 123A5:297
Site 800, 129A2:52
Site 801, 129A3:118
Site 802, 129A4:200
sporomorph assemblages, 105B25:431; 27:485–486
stable isotopes, 105B33:621, 634
stratigraphic ranges, 105B25:427–428
summary, 104A2:40; 4:131, 136–144; 5:478–479;
7:756–761; 104B37:762
taxonomy, 104A5:478–479; 104B33:674–676;
113B36:601; 159B24:262–267
Tenaghi Philippon sequence correlation, 108B6:100–
101
terrestrial taxa, 105B23:392–394; 24:407–410;
108B6:93; 116B21:253
trade-wind indicators, 108B6:96
transport, 155B23:383–384; 188B2:11–12
tropical environment, 123B21:432–434
Trujillo Basin, 112B17:300–302
turbidity-current deposited, 123B20:421
Turonian–Santonian interval, 174AX_A1:41
vegetation, 108B6:99; 113B29:454–455; 151B15:289–
296; 188B2:10–11; 3:8–9
vs. age, 181B1:97
vs. depth, 155A8:188; 155B24:400–407; 189B2:20
warm-temperate taxa, 105B25:431–434; 27:485
wind transport, 108B6:93, 98, 104
zonation, 104A2:40; 4:131, 136–141; 5:478–479, 482–
483; 6:634–636; 105B50:937; 116B21:249, 253;
123A3:44; 123B38:722
See also acritarchs; Bennettitales; Casuarinaceae; Cay-
toniales; *Chaetoceros* spores; Chenopodiaceae;
Cheirolepidiaceae; Chierolepidiaceae; chloran-
thaceous affinity; Cichorioideae; Covulvu-
laceae; cycadophytes; Cyatheaceae; Cyperaceae;
Dicksoniaceae; dinocysts; dinoflagellates; Early
Cretaceous *Cerebropollenites* province; Early Cre-
taceous–Cenomanian trisaccates province; Eri-
caceae; fungi spores; Gleicheniaceae;
Gramineae; Gyrospemonaceae; *Hoegisporsis* su-
perzone; hornwort; Isoetales; Juncaceae; juni-
per/cedar ratio; juniper/cypress ratio;
Kamptneriaceae; Labiatae; Lapideacassaceae;
Liguliflorae; liverworts; lycosids; miospores;
monocolpates; monolete spores; Myricaceae;
Myrtaceae; Osmundaceae; phototrophic dino-
flagellates; Podocarpaceae; podocarpacean affin-
ity; pollen; Polycyclolithaceae; Polygonaceae;
Polypodiaceae; pre-Albian west Early Cretaceous
Dicheiropollis etruscus/Afropollis province; Rhizo-
poraceae; Riellaceae; Schizaeaceae; Selaginalla-
les; *Sequoia* pollen; Sphaerocarpaceae;
Sphagnaceae; spores; Stylidiaceae; Taxodiaceae;
teleutospores; tricolpates; tricolporoidates; tri-
lete spores
palynomorphs, offshore, vs. depth, 189B3:23
palynomorphs, terrestrial, vs. depth, 189B3:23
panidiomorphic texture. See textures, panidiomorphic
pantanelids, Site 765, 123A4:130
pantellerite. See also glass shards, pantelleritic; ignim-
brite, comendite-pantellerite; ignimbrite, pantell-
erite-trachyte

- Paquier events
 critical events, 210A1:19, 21
 oceanic anoxic events, 192A3:14
- paraconformities
 age models, 189B9:4
 biostratigraphy, 175A4:93
 Cenozoic, 181B1:11
Chondrites, 181B1:107
 Eocene–Oligocene biostratigraphy, 181B1:16
 Eocene/Oligocene boundary, 181B1:42–45
 Horizon A, 135B22:369
 lithology, 175A18:540; 181A1:17–18, 29; 7:7–9, 14
 marine isotope stages, 181B1:30
 Marsall Paraconformity, 189B1:15
 nannofossils, 181A7:16
 Oligocene, 181B1:41–42
- paraconglomerate
 basement, 180B3:3–4
 lithology, 180A10:6–7; 12:20–21; 180B6:13–14
 petrography, 180B7:16
 photograph, 180A5:64; 10:30; 12:80
 photomicrograph, 180A12:81
- paraconglomerate, calcareous
 lithology, 160A7:161; 160B51:687
 composition, 180A1:8
- paraconglomerate, sandy, photograph, 180A12:84
- paraffins
 sequences, 150X_B16:208–209
See also alkanes; unconformities
- paragenesis
 alteration, 148B8:98; 158B18:241–243; 19:266, 268;
 183A7:45
 carbonates, 139B14:315; 165B14:228–230
 cementation, 141B11:161
 deposition, 166A3:39
 fluid inclusions, 157B26:432
 glauconite, 146A(1)5:147
 high-grade schist, 161B19:271–272
 in altered serpentinites, 149B31:540
 lithology, 209A6:7
 massive sulfides, 139B17:359; 18:376–377
 metamorphism, 195A1:7; 209A1:49–50
 pelitic and migmatitic gneiss, 161B19:272–273
 photograph, 152B9:128
 photomicrograph, 169B5:18; 195A3:80
 pyrite-chalcopyrite series, 158B15:194–195
 secondary minerals, 193A3:199; 4:36–37, 40, 159, 168
 serpentinites, 149B31:534–535
 sulfides, 139A6:222, 227–228; 176B7:5–9; 193A3:52–
 58; 4:159, 168
 veins, 193A3:53–58, 61–65; 200A4:39
- paragneiss
 garnet-biotite-feldspar system, 119A11:454
 garnet-biotite-sillimanite system, 119A11:454
- paragneiss, granulitic, Prydz Bay, 119B7:138
- paragonite
 composition, 158B18:237–241; 21:291–293
 geochemistry, 193B8:5
 hydrothermal event frequency, 193B1:25
 lithology, 200A3:13
 photograph, 158B18:248–253
- sediments, 200A1:21–22
 vertical distribution, 158B1:14–17; 18:237–241
 X-ray diffraction data, 200A3:97
- paragonitization
 basalts and clasts, 158B19:257, 263–264
 geochemistry, 158B19:270–273; 21:291–293
 oxygen isotopes, 158B21:292
 photograph, 158B18:249–254
- paralic biotopes
 benthic foraminifers, 150X_B19:269
See also neritic biotopes
- paralic sedimentation. *See* sedimentation, paralic
- parallel laminations. *See* laminations, parallel
- paramagnetic minerals
 magnetic susceptibility, 184B1:2–3; 186B16:4
 microfabrics, 185B9:6–7
- paramagnetism
 ferroan dolomite, 164A5:84
 hysteresis loops, 154B10:175
 occurrence, 101A4:39
 remanent magnetization, 175B13:4–5
 sediments, 161B11:130; 175B8:4
 Straits of Florida, 101A5:68–69
- parasequences
 depositional history, 144B18:365–380
 lithology, 144B12:236–241; 13:268; 17:340–359
 sequence stratigraphy, 133B25:359–360
See also flooding surfaces/parasequence boundary
- parasequences, algal-rich, facies, 144B17:342, 345–348
- parent/daughter ratios, crustal tracers, 123B8:185
- pargasite
 Atlantis Bank, 118B8:163
 composition, 103B14:227; 147B15:305
 geochemistry, 176B4:11, 20
 glacial–interglacial cycles, 118A5:84
 hydrous fluids, 149B32:546–548
 mineral inclusions in spinel, 147B7:142
 sand fraction, 157B17:302
 temperature of formation, 118B8:172
See also hornblende, pargasitic; titanium pargasite
- pargasite, titanium, serpentinites, 149B32:543
- partial melting
 alkali basalts, 203A3:14
 basalts, 158B17:220–225, 228–229; 187B2:23;
 192B1:5–7
 dunites, 147B8:166
 lava, 157A2:13
 mantle, 149B23:420; 173A1:17; 9:293; 180B1:6
 metamorphic rocks, 161B20:290
 middle series magmas, 163B9:107–110
 ocean–continent transition, 149B47:718, 723
 peridotites, 149B22:405–406
 picrite, 152B31:384–385
 spinel facies, 173A7:215
 textures, 209A6:21–22
 ultramafic rocks, 149B21:386
See also melting; melts
- partial pressure, carbon dioxide, 130B24:415
- particle size analyzer, calibration, 146B(1)1:6
- particles
 morphology, 157B13:191, 193

- vs. depth, 151B21:381, 384
- particulate flux
 - collections, 119A4:109–110
 - mass flux, 119A4:114
- particulate tracers
 - contamination, 190A4:24, 141; 5:29; 6:20; 8:21; 9:23; 201A2:1–19; 7:22–23; 8:20–21; 9:16–17; 10:19; 11:22; 12:17–18; 205A4:51–52
 - microbial activity, 206A3:86
- particulates, borehole fluids, 137A2:38–39
- partition coefficients
 - anhydrite, 158B10:122–124
 - basaltic magma, 136B9:114
 - basalts, 135B29:526–527; 30:533, 537–539
 - fractional melting, 135B24:404
 - gabbros, 179B(synthesis):15
 - magnesium, 158B10:126
 - mantle, 152B31:381
 - strontium, 158B10:126
 - strontium/calcium ratio, 158B11:136–137
 - vs. precipitation temperature, 158B11:139
 - vs. strontium-87/strontium-86 ratio, 158B11:139
 - See also* correlation coefficients; element correlations
- partitioning
 - hydrothermal deposits, 135B5:76–77
 - platinum element group, 137/140B17:203
 - siliceous deposits, 129B2:42
 - strontium, 158B10:122–123
- parvicingulids, Site 765, 123B15:323, 337
- Pasisar system, tectonics and sedimentation, 149B41:649–657
- passing ships, seismic data, 200A4:62
- passive continental margins. *See* continental margins, passive
- Patellinidae, Site 766, 123B14:278
- Pb-206/Pb-204. *See* lead-206/lead-204 ratio
- Pb-207/Pb-204. *See* lead-207/lead-204 ratio
- Pb-208/Pb-204. *See* lead-208/lead-204 ratio
- Pb isotopes. *See* lead isotopes
- PCR. *See* polymerase chain reaction
- PCS. *See* pressure core samplers
- “peachy orange slime,” fluorescence micrograph, 204A10:19, 64
- Pearce element ratio
 - basalts, 137/140B5:54–56
 - crystal melt equilibria, 135B27:498–499
- Pearson correlation, gas hydrate correlation with sediment grain size, 204B10:4–6, 25–29
- peat
 - biostratigraphy, 144A8:299
 - gelification, 180B10:5
 - intraclasts, 180B10:10–11
 - photomicrograph, 180B10:32
 - weathering profiles, 144B14:275
- pebble breccia. *See* breccia, pebble
- pebble clusters
 - ghosts, 160B47:614
 - lithofacies, 160B43:549–564
- pebbles
 - alteration, 183A9:33–35
 - basement, 183A6:41; 7:14, 25; 9:12, 14, 16, 19, 30
 - Broken Ridge, 121A13:462; 121B44:937
 - composition, 169S_A2:26
 - deposition, 178A8:7–8
 - diabases, 180A7:14
 - distribution, 178A9:47
 - eustatic sea level and deposition, 121A13:469
 - Formation MicroScanner imagery, 160B47:614–615, 617, 621
 - glaciomarine sediments, 163X_A8:3
 - granite porphyry, 180A7:13
 - ice-rafted debris, 120B(1)14:210; 178B11:1–23
 - lithology, 146A(1)4:64, 66–67; 155A12:331–332; 155B40:641; 161A8:358–359, 362; 163X_A4:6–11; 6:5–19; 7:3–4; 167A(1)6:133; 169S_A2:21–22, 24; 172A4:88; 173A4:71–74; 6:112–114; 174A_A3:56–57; 4:104–111; 174AXS_A1:28–29; 2:17–18, 23; 4:14–15; 6:19–20; 175A13:395; 178A4:9–10, 122; 5:10–12; 7:5–8, 35, 39; 178B11:10; 25:6; 180A5:8–9, 14; 6:23–24, 28–29; 8:5; 10:7–8; 12:19–22; 181A4:6; 182A7:9–10; 183A3:4; 4:3–5; 5:7, 16–18, 25; 6:4, 8–9; 7:8, 13–14, 25; 8:5–6; 186A4:15–16, 22; 188A4:10–11; 5:9–11; 190/196B4:3–4; 192A4:6–7; 197A4:8–9; 199A8:6; 10:7; 204A10:5; 209A9:2
 - metadiabase, 180A7:14–15; 8:18
 - metamorphic rocks, 161B25:334–335
 - number, 186A4:182–183
 - paleoenvironment, 174AX_A1:18
 - petrology, 180A11:5–6
 - photograph, 144A4:118; 144B44:763; 146A(1)4:68; 152A9:129; 155A9:210; 12:336; 17:517; 160A8:249; 170A5:164; 7:223; 173A4:76; 7:176–179; 174A_A3:57; 4:113; 5:158, 161; 178B11:15; 180A5:57, 64; 9:83, 88; 183A5:72; 6:74, 79–80; 190A1:68; 192A6:59; 194A8:40; 199A10:26; 209A9:38
 - photomicrograph, 173A4:78; 180A7:47; 192A6:60
 - physical properties, 121A13:495
 - Pleistocene, 180A1:12–13
 - regolith, 183A6:10
 - roundness, 178B11:13
 - sandstone, 180B7:13
 - sediments, 178A7:81
 - shape, 178B11:11–12
 - sphericity, 178B11:14
 - structures, 180A12:30
 - trough-mouth fans, 188B1:12
 - volcanic rocks, 161B27:359
 - volcaniclastics, 180B8:5–6
 - vs. depth, 178A4:49; 5:57; 8:30; 178B11:9; 186A4:78
 - X-ray radiography, 178B10:20
 - See also* boulders; gravel; mud-pebble layers
- pebbles, basalt
 - alteration, 123A4:193
 - conglomerate, 123B4:203
 - Cretaceous interval, 123B2:68
 - geochemistry, 123A4:187, 189; 5:323; 123B10:204–207; 126B27:420
 - Lower Cretaceous, 149B36:578–580
 - occurrence, 123A4:185–186
 - petrography, 123A4:64, 186–187, 192

- Site 765, 123A4:172
Site 781, 125A9:183
source, 123A4:189
velocity, 123A4:168
- pebbles, basalt/andesite
lithology, 161A7:309
photograph, 161A7:312
- pebbles, bioclastic
displacement, 123A14:289
Izu-Bonin forearc, 126B4:87
lithology, 180A9:23–24
- pebbles, blackened, alteration, 166A3:39
- pebbles, clayey
basement units, 183A9:18, 21
sedimentology, 200A4:25
X-ray diffraction data, 200A4:39; 4:121
- pebbles, granite, lithology, 163X_A4:10; 6:10–11
- pebbles, igneous rocks, Lingayen Gulf, 124E_A13:76
- pebbles, limestone
mass flow units, 160B37:467
Oligocene disconformity, 121B44:936
photograph, 192A6:59
photomicrograph, 160B37:472
Site 752, 121A6:116, 119; 121B44:937
Site 753, 121A7:176
- pebbles, massive and flow-banded felsic volcanic, 183A7:14, 25
- pebbles, matrix-supported, photograph, 173A6:119
- pebbles, metamorphic, lithology, 183A3:4
- pebbles, nonvolcanic, photograph, 161A8:371
- pebbles, obsidian, Site 757, 121A11:311
- pebbles, phosphate, lithology, 174AXS_A1:22–23
- pebbles, pumice
lithology, 199A10:7
photograph, 199A10:26
Site 790, 126A7:155
- pebbles, quartz
lithology, 174AX_A1:22, 24
photograph, 155A6:102; 190A7:29
Pleistocene, 174AXS_A1:14
- pebbles, rhyodacite, photograph, 161A7:312
- pebbles, sandstone-coated, lithology, 180A12:22
- pebbles, siltstone, vs. depth, 146B(2)11:156
- pebbles, subrounded, photograph, 210A3:145
- pebbles, volcanic
age and geochemistry, 161B44:568–569
geochemistry, 126A9:369
Miocene, 161B44:577
photograph, 161A8:369–370
Site 766, 123A5:278–279
transportation, 123A5:289
- pebbles, volcanoclastic, lithology, 144A4:117
- pebbles, well-rounded, photograph, 180A12:80
- pebblestone, lithology, 180B6:15
- Peclet number, sediments, 160A9:317
- pedogenesis
basalts, 144B19:381–398
guyots, 144B49:883–885
hydrothermal alteration, 144B51:908–909
rates, 144B19:393–394
volcaniclastics, 152B9:121–124
- See also* paleosols; Plinthic Acrothox; terra rosa
- pedogenesis, carbonate, climate, 119A9:374
- peds
electron microscopy, 185B9:23
microfabrics, 185B9:8–9
origin, 185B9:9–12
- pegmatites
alteration, 147A1:10
chemistry, 180A12:27
gabbro, 173A9:289
lithology, 176A3:14
melanocratic hornblende-biotite, 163X_A6:8
olivine gabbros, 176A1:12
See also gabbros, pegmatitic; micropegmatite
- pegmatites, gabbroic, rifting, 210B1:12
- pegmatitic diabase. *See* diabases, pegmatitic
- pelagic caps
biostratigraphy, 144A5:157, 165–166, 169–172, 175–176; 144B1:12
fence diagram, 144B41:687
geochemistry, 144B43:737–743
geomorphology, 144B41:686, 688
geotechnical units, 144A4:135–137; 5:187
guyots, 144B2:21–59; 5:115; 41:675–689
Neogene, 144A3:55–58
pore water, 144B27:470–474
sedimentation rates, 144A4:126–128; 5:178
seismic profiles, 143A6:170; 144B33:576–577
strontium isotopes, 143B14:237
- pelagic deposits. *See* sediments, pelagic
- pelagic deposition. *See* deposition, pelagic
- pelagic drapes, lithology, 181A4:6–7
- pelagic environment
chalk, 160B32:410
deposition, 133A(1)10:357, 359
grain size, 149B40:748
lithology, 149A4:47–51; 149B40:745; 150B11:206–207; 171B_A3:59; 6:259–260, 262; 182A1:39; 4:11–12; 8:9–10; 12:7; 183A4:6; 6:10; 7:25; 8:6–7; 202A7:9–10
nannofossils, 192A5:6–7
Oligocene–Miocene sediments, 183B7:1–31
sedimentation rates, 177A8:15
stratigraphy, 201B16:1–19
- pelagic facies, lithology, 205A4:20
- pelagic interbeds
lithology, 157A4:63–64; 5:108, 112–113
mass accumulation rates, 157A4:87; 6:164–165
photograph, 157A5:117
thickness vs. age, 157A4:94; 5:134; 6:172
volcaniclastics, 157B13:191
vs. depth, 157A4:63; 5:114; 6:147
- pelagic sedimentation. *See* sedimentation, pelagic
- pelagic sediments. *See* sediments, pelagic
- pelagites
Atlantic Ocean E tropical, 108B18:323
characteristics, 108B18:320
core photographs, 129B3:93, 97; 6:164
deposition, 149A4:49–50, 52, 56–59
isotope stratigraphy, 205B4:4–5

- lithology, 149A5:119; 6:152–155, 159; 7:218–220;
149B45:688; 173A4:73–77; 8:234–236; 9:273;
181A1:24
mid-Cretaceous, 207B2:6
mineral composition, 103B36:644
percentage in sediments, 149B45:691
photograph, 149A7:226
See also sediments, pelagic
- pelbiomicrite, Cretaceous, 143B9:138
pelbiosparite, Cretaceous, 143B9:138
pelecypod fragments. *See* bivalve fragments
pelite schist, pressure-temperature conditions,
161B19:264–265
- pelites
lithology, 173A4:74–77 7:173–174
photograph, 173A8:230, 240
photomicrograph, 173A4:80; 7:174
Site 799, 127/128B(1)2:33
See also shale
- pelitic sources, garnet, 183B16:2
- pellets
gas hydrates, 146B(1)8:154
glauconite, 174A_B(synopsis):8–9
lithology, 152A11:198; 166A8:178; 174AXS_A1:25;
182A1:39; 194A8:6–9; 210A3:51
microfabrics, 185B9:9–12
photograph, 146A(1)7:316–317; 159A7:229
photomicrograph, 210A3:233
sediments, 146A(1)5:147–149, 151
- pellets, fecal, photograph, 184A6:28
- pellets, glauconite
lithology, 159A7:227
origin, 160B45:587
paleoenvironment, 159A6:176
photograph, 152A11:202, 206; 159A6:165; 8:265;
194A4:42
- pellets, phosphatic, paleoenvironment, 174AX_A1:29
- pelmicrite, Cretaceous, 143B10:137–140
- peloids
carbonate mineralogy, 166B6:73–74
lithology, 143B30:473–477, 486–488, 491–492;
166A6:77–78; 7:154–156; 8:177–178; 9:238–
241; 10:295–297; 11:350–355
photograph, 159A5:79; 7:230; 171B_A6:261–262;
173A8:238–240
photomicrograph, 173A8:233
sedimentation, 205A5:15
vs. depth, 166A6:80; 8:177; 10:298; 11:351, 354
within basalt, 203A3:8–9
See also grainstone, peloidal
- peloids, micritic, photomicrograph, 160B32:405
- pelomicrite, Cretaceous, 143B10:137
- peloosparite
Cretaceous, 143B10:136–137
mud breccia, 160B46:601
- pelsparite
Cretaceous, 143B10:136–138
photomicrograph, 205A5:55
- penetration distance, Oligocene, 181A1:3
- penetration distance, olivine vs. iron-titanium oxide
gabbro, 118B4:59, 70
- penetration rate logs, vs. depth, 156A5:79–82;
171A_A3:24, 28; 4:43; 5:64, 68; 6:82, 86; 7:98,
102; 174A_A3:89; 193A3:250; 204A4:88; 5:50;
6:60; 10:81
- penetrative breccia. *See* breccia, penetrative
- penetrative planar fabric. *See* fabric, penetrative planar
- penetrometer strength
sediments, 150A6:104; 8:238; 10:336
vs. depth, 150A6:104–106; 7:174, 176; 8:237; 9:292;
10:335
- penetrometer tests, normal faults, 160B49:651–657, 659
- penninite
chemical composition, 137/140B13:149
electron microprobe data, 137/140B18:210–211
- pentacosane, sediments, 141B9:128
- pentadecanoic acid, gas chromatograms, 205B8:17
- pentakishomo-hopane-keto-diol, mass spectrum,
175B10:28
- pentamethyleicosane, sediments, 175B5:4
- pentane
core void gas, 204A4:112–113
decomposed gas hydrates, 204A4:114
headspace gases, 138A(1)9:152–153; 202A10:88
molecular composition, 131A6:191
pressure cores, 204A4:115
sediments, 131B15:186–195; 184A9:18, 110–112;
189A5:45, 156–157; 6:49; 190A9:20–21;
202A10:16; 210A3:95
vs. depth, 204A4:70
See also cyclopentane; *iso*-pentane; methylcyclopentane; methylpentane; *n*-pentanes; *neo*-pentane
- pentlandite
alteration, 147A3:71; 4:133; 209B1:10
basalts, 183A5:32
basement units, 183A7:38; 8:18
dunites, 147B5:93
electron microprobe data, 209B2:4
gabbros, 176B7:5–9
green amphibole, 118B5:117
hydrothermal veins, 153B30:524
igneous rocks, 209B3:4
igneous sulfides, 118B5:115
igneous vs. secondary origin, 118B5:117
lava flows, 197A3:20–21
photograph, 147B4:89
photomicrograph, 176B7:15, 23; 183A5:106;
197A3:90
platinum-group elements, 147B4:83
secondary sulfides, 118B5:115–116
serpentinization, 153B3:38–39; 209A3:11
textures, 176A3:27
vs. depth, 209B3:10
- Penutian, biostratigraphy, 197B2:4
- peperites
basement, 183A6:39
geochemistry, 144B30:531–532
lithology, 144A11:423
- peperitic texture. *See* textures, peperitic
- peralkaline rhyolite volcanism. *See* volcanism, peralkaline rhyolite

- perfect fractional crystallization. *See* fractional crystallization, perfect
- perfluorocarbon tracers
 bacteria, 204A3:23; 4:19; 8:16–17; 10:19
 comparison with bead contamination tests, 201A1:78
 comparison with fluorescent microspheres, 201A2:13, 18–19
 contamination tests, 193A3:74; 201A6:20–21; 7:21–22, 91–92; 8:20; 10:18–19; 11:21–22; 12:17; 205A4:50–51; 209A3:47, 168; 6:35–36, 129
 cores, 201A2:6–7
 gas chromatograms, 206A3:308; 209A5:172, 187; 6:118
 log-log curve, 191A4:79
 methods, 201A1:49; 2:2–4, 11, 14–16
 microbiology, 204A4:119; 206A3:86
 sediments, 185A4:145, 189
 standard curve, 209A3:153
- peridiniacean cysts. *See* protoperidiniacean cysts
- peridinoid dinoflagellates. *See* gonyaulacoid/peridinoid ratio
- peridinioid/gonyaulacoid ratio, dinocysts, 189A5:34
- peridotite, suboceanic
 aluminum vs. sodium, 153B12:271
 heterogeneity, 153B14:285–303
 titanium vs. sodium, 153B12:270
- peridotite ridges
 age, 103B41:746–747
 distribution, 149B1:13, 17
 Galicia margin W, 103B41:743–745; 45:820, 826–827
 magnetic anomalies, 149B43:667–674
 Mesozoic emplacement, 103B41:749
 occurrence, 103B45:812
 ocean/continent boundary, 103B41:747–750; 149B47:722–729
 rift timing, 103B41:749
 seismic reflection profiles, 103B45:815
 tectonic models, 210B9:30–31
See also serpentinite ridges
- peridotites
 alteration, 103B16:250; 147B15:304–305; 209A1:14
 aluminum/silica ratio vs. magnesium/silica ratio, 153B14:300
 aluminum oxide/silica ratio vs. magnesium oxide/silica ratio, 153B10:213
 annealing temperature, 125B30:528–529
 antigorite formation, 106/109B9:105–106, 115
 Aptian, 149B36:579
 asthenosphere diapirism, 103B41:750–753, 755; 45:816
 Atlantic and Indian oceans, 147B6:118
 average compressional wave velocity, 209A3:148
 Barremian–Aptian, 149A6:203
 basement, 173A1:10, 19
 Bouvet Fracture Zone, 118B21:361
 brittle deformation, 153A3:95–98; 209A3:30
 bulk rock composition, 153B14:299–300
 Cabo Ortegal, 103A8:140
 calcite replacement, 103B12:197; 13:210, 213; 14:225; 15:235–239; 18:270, 274; 41:748
 cesium vs. barium, 153B14:302
 chromium number, 153B14:299
 chromium oxide, 153B14:288; 29:514
 chromium-spinel, 120B(1)9:126–127
 classification, 118A1:10
 composition, 106/109B4:28–30
 Cretaceous, 103B4:45
 deformation, 106/109B9:105–106, 115; 125A11:262; 12:290; 125B30:523, 528–531; 36:611; 147A4:141; 153B2:23–34; 209A5:28–29
 density, 153B25:442–444
 depletion, 125B27:456–457; 209A1:16, 25–26, 34, 41–42, 46–47
 detrital minerals sources, 147B27:452–453
 diopside, 153B13:277–284
 dissolution rates, 209B5:1–38
 distribution, 103B4:42–43
 East Pacific Rise, 118A1:3; 3:42
 electron microprobe data, 106/109B4:30–35; 209B2:1–13
 element ordering, 125B28:492, 495
 emplacement, 107B1:15, 26; 3:45–46; 125B36:611
 enrichment pattern, 125B36:606
 equilibration temperature, 103B13:218–219; 106/109B3:22
 evolution, 125B36:610
 extensional basins, 161A1:9–10
 fluid compositions, 103B16:249–250
 foliation, 103B13:214; 106/109B5:50, 55
 forearc regions, 125B27:451
 formation, 107A7:325–326; 125B36:606, 611
 fractionation phases, 125B9:164–165
 Galicia margin, 103A1:3, 10, 15; 2:31, 38–39; 5:85, 92, 95; 8:123, 125, 129–140, 156, 158, 160; 103B2:15; 27:462; 45:812, 814
 geochemistry, 107B3:43, 45; 125B27:449–455, 466–467; 195A3:103; 209A1:10–11; 3:33–35; 5:34–38, 148–153; 6:102–105; 7:21–24, 93–96; 9:18–20, 84–89; 10:114–118
 geology, 195A1:3–4; 195B1:2–4; 209A1:78–79
 geothermometry, 106/109B4:39–43; 8:88–89, 96–97
 H-type, 125B27:451, 456–457
 heterogeneity, 173A7:212, 215–217
 high-temperature assemblages, 107B3:42
 Hill 5100 (Galicia margin), 103A1:7
 hydration, 209A3:33
 hydrothermal veining, 153B3:35–59
 intermediate-temperature assemblages, 107B3:43
 internal structure, 125B30:523
 iron/(iron + magnesium) ratio vs. chromium/(chromium + aluminum) ratio, 153B29:516
 iron oxide vs. magnesium oxide, 209A3:138
 island arc/subduction zone, 107B3:45–46
 isotopes, 153B15:306, 315–316
 LH-type, 125B27:451, 456–457
 lithology, 147B16:117; 209A5:5–9; 7:2–7; 9:2–7
 Lizard Point, 103B17:256–260
 low-temperature assemblages, 107B3:43
 magma channeling, 153B12:265–275
 magmatic-tectonic events 1–6, 125B30:529–531
 magnesium number, 153B10:210; 11:254; 14:299; 17:339

magnesium oxide, 153B14:300
 magnetic anomalies, 210B1:16–17
 magnetic fabrics, 106/109B22:263–265
 magnetic properties, 106/109A8:217–220; 106/
 109B21:258–262; 149B25:431–446
 major elements, 106/109B7:78
 mantle, 106/109B4:37; 118B21:361; 137/140B12:137–
 138
 melting, 103B12:201–205; 13:218–221; 17:256–257,
 268; 41:748, 751–752; 45:814; 106/109B4:37–
 41; 8:89, 93–98, 101; 118B21:361, 363;
 125B28:492; 147B8:159; 210B1:14–15
 metamorphism, 107B3:45; 147A4:137; 195A3:53–54
 microbiology, 209B5:1–38
 microstructures, 106/109B5:47–50, 52
 Mid-Atlantic Ridge, 209A1:1–139
 mineral chemistry, 106/109B3:20–22; 8:88–93; 9:106–
 112; 125B27:450–451
 mineral composition, 103B12:195–206; 16:241;
 41:748–749; 125B28:489–490
 mineralogy, 107B3:39–40; 125B30:523; 149B32:541–
 552; 153A3:52–60
 ocean–continent transition, 149B47:718
 ocean-floor exposure, 106/109B4:27
 origin, 147B7:146; 149A4:82
 orthopyroxenes, 209A7:42
 osmium isotopes, 209B1:15–16
 oxygen isotopes, 106/109B9:106, 112–113; 210B1:17
 Palawan Island, 124B9:121
 paleomagnetism, 103A8:144–145; 147B22:383–391
 petrogenesis, 125B28:501–503; 38:638
 petrography, 106/109B5:47–52; 107B3:40–41;
 118B21:381; 125B30:520–521; 147A1:11–12;
 153B25:444
 petrology, 106/109B28:303–305; 125B28:488; 29:522–
 524; 38:633–634; 147B7:135–155; 153A3:48–62;
 173A7:189–190
 phase equilibria, 192B1:5
 photograph, 149A4:79; 6:167; 149B10:412–413, 417,
 419; 153A3:53, 58; 153B1:12; 209A3:108; 6:55
 photomicrograph, 209A5:91; 6:70; 7:82; 209B5:16–17
 physical properties, 118A6:157; 209A3:142
 poor recovery, 106/109B4:29
 porosity, 153B25:440–442
 porphyroclastic texture, 125B30:523
 pyroxene composition, 147B14:262
 rare earths, 125B28:492, 494–495; 38:638
 reference materials, 147B30:493–496
 relict mineral assemblages, 107B3:41–42
 resonant bar measurements, 103B18:269–270
 Riddle Nickel Mountain composition, 209B5:34
 ridges, 173A1:15
 rift valleys, 147A1:6–8; 209A3:32–33
 rifting, 210B1:12
 rock magnetism, 147B24:405–413; 173B8:1–34
 seismic properties, 125B36:606
 seismic velocity, 103A8:150–151
 serpentine-free composition, 106/109B4:28
 serpentinization, 106/109B5:51, 53; 8:86–88; 9:103,
 105–106, 115; 153B3:35–59; 21:382;
 173A7:189–190; 9:293

shear intensity, 103B13:214
 shear sense, 103B13:216, 221
 Site 395, 106/109B3:21–22
 Site 734, 118A5:78
 size, 106/109B3:19; 9:112
 sodium oxide, 153B10:231–234
 sound velocity, 103A1:10
 Southwest Indian Ridge, 118A3:42
 spinels, 173A1:12
 spreading centers, 209B1:4–6
 spreading rates, 209B1:30
 strain intensity, 103B13:216, 218; 14:225; 106/
 109B5:50–51
 stratigraphic position, 106/109B28:305–306;
 107B3:37
 stress intensity, 103B13:216, 218; 14:225; 106/
 109B5:51
 strontium/zirconium ratio vs. zirconium, 153B14:302
 structures, 103B45:821; 209A1:8–10
 subaxial history, 153B1:16–17
 subduction component, 125B28:500
 suprasubduction zone settings, 125B30:519
 tectonites, 147A4:127–128
 tectono-metamorphic evolution, 149B22:397–413
 temperature effects, 103B13:218–220; 14:232;
 15:235–239
 tensional serpentinization, 106/109B9:105, 115
 textures, 103B12:195–196; 13:212, 215; 106/
 109B3:20; 153A3:58–62
 thermal conductivity, 209A3:146; 5:160–161; 6:110;
 7:103
 thermomagnetic curves, 106/109B22:267; 173B8:25
 thickness, 103B13:212
 trace elements, 106/109B7:78; 125B28:490–493, 498–
 500; 38:634–635, 640, 642; 153B14:289–291;
 209A3:139
 Tyrrhenian Sea, 107A7:298, 305; 107B3:37–46
 ultrasonic measurements, 103B18:270–272
 upper mantle, 125B27:457
 Variscan, 103B13:210
 veins, 209A3:93
 velocity, 107A7:325
 vertical distribution, 125B27:463
 vs. abyssal peridotite, 125B38:634
 vs. depth, 209A6:54
 vs. spatially related boninite, 125B28:501, 504
 vs. suprasubduction zone ophiolites, 125B28:501–
 502, 505
 well-logging, 103B18:272–275
 whole-rock geochemistry, 147B29:482
 zero-offset transform, 106/109B8:95–96
 zirconium/hafnium ratio vs. zirconium, 153B14:302
See also dunites; harzburgites; metaperidotite; peridot-
 ite ridges; seawater-peridotite interaction; ser-
 pentines; websterite; wehrlites
 peridotites, abyssal
 chromium vs. cerium/ytterbium ratio, 153B13:283
 chromium number vs. magnesium number,
 153B13:281
 geochemistry, 153B10:181–241
 magnesium number, 153B13:282

- oxygen isotopes in aragonite veins, 147B16:312
rare earths, 153B13:282
titanium oxide vs. aluminum oxide, 153B13:283
- peridotites, altered
 geochemistry, 209B2:11–13
 sulfides, 209B3:1–18
- peridotites, banded, clasts, 149A6:164–166
- peridotites, brecciated, composition, 103B12:197
- peridotites, foliated serpentized
 Atlantis II Fracture Zone, 118A5:84
 photograph, 210A4:14, 25–27
- peridotites, impregnated, trace elements, 209B1:31
- peridotites, poikilitic, photomicrograph, 209B1:27
- peridotites, poikilitic impregnated, 209B1:28
- peridotites, residual
 impregnation, 209B1:7–8
 melting regime, 153B10:185–186
- peridotites, residual abyssal, sodium oxide, 153B10:232
- peridotites, serpentized
 aluminum oxide, 107B3:44
 aragonite, 125B18:333
 Atlantis II Fracture Zone, 118A1:4
 basement, 149A4:108–112
 bulk rock geochemistry, 153A3:69
 calcite veins, 149B34:559–569
 carbon dioxide, 147B14:278–280
 chrysotile veins, 107A7:307
 clasts, 149A6:164–166; 173A9:279
 composition, 149A4:75–83; 153B29:505–521
 compression, 149B41:654, 656
 compressional wave velocity, 153B25:447–448; 453–454
 crystal-plastic fabric, 153A3:92–95
 deformation, 118A5:85; 173A9:290
 dehydration temperature, 125B20:370
 demagnetization, 125B33:566–568; 173A7:185
 density vs. porosity, 153B25:446
 dredge hauls, 176B(narrative):18
 exposure via normal faulting, 125B36:612
 fields, 125B18:335, 337
 geochemistry, 107A7:305; 107B3:44; 118A5:87; 149B23:413–424; 173A7:196–199; 9:285–286; 209A6:27–29
 gold, 153B29:514
 Gortani Ridge, 107A11:878
 hydrothermal alteration, 153A3:73–76
 lithology, 149A4:59–62; 149B45:691–693; 173A7:192–193; 210A4:5–8
 magmatic differentiation, 153B11:261
 magnesium number, 153B11:259; 29:515
 magnetic anisotropy, 153B23:419–427
 magnetic carriers, 125B33:566
 magnetic properties, 125B33:561, 564–574; 209A1:15; 210A1:24
 major elements, 125B18:334–336
 Miocene compression, 149B41:654, 656
 neutron absorption cross section, 149B37:595–599
 ocean–continent transition, 107A11:879; 149B47:723
 origin, 107A7:305
 oxide petrography, 125B33:563–564
 petrography, 118A5:85
 petrology, 149A4:90; 173A9:280–282
 photograph, 149A4:80, 87, 90, 93; 6:166, 174, 176, 186–187; 149B22:403; 153A3:55; 153B20:384; 173A7:190; 9:281, 287; 210A4:28
 photomicrograph, 173A9:283–284, 289
 porosity change in time, 153B25:446
 radionuclides, 149B44:678–682
 seamount uplift and hydration, 125B36:611
 sedimentary contacts, 107B38:652
 seismic properties, 125B34:581–584; 195B11:1–12
 serpentine-filled veins, 107A7:308
 serpentine mud comparison, 195B4:6–7
 serpentinite breccia, 149B36:577–591
 Site 778, 125B18:328
 spinel and clinopyroxene, 153B11:256
 structural data, 173A7:201–203
 tectonics, 153A1:11–12; 176A1:6–8
 thermomagnetic analysis, 125B33:564, 567
 trace elements, 125B18:336–337, 339
 velocity vs. serpentized fraction, 153B25:447
- peridotites, spinel
 protoliths, 173A7:192–193
 variation with geological environment, 125B27:457
- peridotites, spinel-plagioclase, petrology, 149B21:277–395
- peridotites-mylonites mixtures, serpentized, Site 732, 118A3:50
- peridotites-seawater interaction, Conical Seamount, 125B36:602, 605–606
- perimeter ridges
 diagenesis, 144B48:867
 evolution, 144B53:945–946
 physiography, 144B14:274
- periplatform deposits
 carbonate mineralogy, 166B6:69–75; 14:145–152
 Cenomanian–Coniacian interval, 159B12:116–117
 deposition, 166A2:14–18
 lithology, 165A5:239, 245–248; 166A7:156; 8:179–180
 seismic reflectors, 165A5:234
 See also platforms
- periplatform environment
 carbonate sediments, 133B2:29–30, 32; 40:573–614
 sedimentation, 133A(1)10:357, 359; 133B17:235–254
 sediments, 115B35:648; 133B48:706–711
- periplatform sediments. *See* sediments, periplatform
- perisphere model, large igneous provinces, 198B1:4
- peritidal environment
 Barremian, 143A7:208
 contacts with lagoonal lithofacies, 101B13:196–197
 Cretaceous, 143A7:207; 143B9:120–124
 limestone, 144B18:370
 lithofacies, 144B14:282–283
 permanent magnetization, 143B24:389–393
 petrography, 101B13:194–196, 199, 200
 upward-shoaling sequences, 101B13:196–197
- perlite
 basement, 183A7:15–17, 24–27, 37
 lithology, 193A3:23; 4:18–19
 Norwegian Sea, 104A4:98, 102
 photomicrograph, 183A7:78, 82; 193B8:7; 9:20

- Site 690, 113B1:12
 volcanic glass, 113A6:199
 volcanism, 193B1:9–11
See also volcanic glass
- perlite, banded, basement, 183A7:14–15, 25–26
 perlitic fracture. *See* fractures, perlitic
 perlitic texture. *See* textures, perlitic
- permeability
 accretionary complexes, 134B1:13–18; 141B29:368, 371; 156A1:4
 alteration, 168A4:77
 anisotropy, 169B8:4, 24
 Atlantis Bank, 118A6:90, 210
 basement, 168A1:12–14; 168B1:4
 biosiliceous sediments, 127/128B(2)71:1128
 carbonates, 166A3:35; 194B6:1–217
 clays and oozes, 144B56:986–989
 compressibility, 190/196B10:1–16
 data, 190/196B10:15
 décollement zone, 156B9:132–134; 171A_B3:11
 deformation, 118B25:443–144; 180B(synthesis):17
 density, 171A_B3:8–10
 depth uncertainties, 106/109B17:216
 determination, 113B17:213
 diamictons, 119B8:152, 154
 diatomaceous sediments, 191B5:1–16
 drill-string packer tests, 106/109B17:215–222; 118A6:201–203; 118B19:333–339; 137A2:50–51; 168A5:146–147, 153; 180B23:7
 fault splays, 146B(1)23:365–366
 flow-through data, 205B1:29; 10:10, 16–17
 fluid flow, 139B41:662–664; 158B23:324, 326; 169B8:10–12; 170B3:3–4; 193B1:29–30, 37; 207B15:13–14
 fluid pressure, 106/109B17:216; 118B19:336–337; 146B(1)28:420
 foliation fanning, 118B26:502
 fractures, 118B14:266–267; 19:339; 28:554; 159B6:52
 gas hydrates, 204A1:45–46
 geochemical cycles, 205B6:1–26
 grain size, 127/128B(2)71:1127–1128
 heat flow, 148B20:295; 168A2:30–31
 high-conductivity layers, 118B20:352
 horizontal advection, 118B20:351–352
 hydraulic conductivity, 146B(1)17:284–289
 hydrothermal systems, 139B39:613–626
 in situ vs. calculated bulk, 148B27:355–356
 intervals, 118B19:339, 345
 Labrador Sea, 105B41:793
 lithology, 118A6:205; 118B14:266; 19:346; 169B8:3–5
 low density, 171A_B3:6
 mass transfer, 185B11:2–4, 14
 matrix, 160B50:668
 Mid-Atlantic Ridge, 106/109B16:205
 model-fitting procedures, 118B19:336
 numerical modeling, 180B23:7–8
 oceanic crust, 123A3:56–57; 144B63:1007–1019
 opal-CT formation, 127/128B(2)79:1263
 opal-CT/quartz transition, 129B3:95–96
 operations, 118A6:203–205
 physical and chemical properties, 118A6:200
 pore water geochemistry, 180B22:6
 porosity, 105B40:788; 118B20:351; 127/128B(2)71:1128–1129
 pressure-time records, 118A6:204–205
 pressure records, 106/109B17:217–218
 proto-décollement zone, 171A_A3:34–35
 resistivity and X-ray computed tomography, 193B14:1–14
 sediment/rock interface, 139B35:669–672
 sediment microfabric, 120B(1)13:185–186
 sediments, 134A9:204; 135B48:790; 49:800–801; 139B40:635–639; 141B11:157; 146B(1)16:275–280; 150B21:379–382; 156B7:109–114; 160B48:631–633, 637–640; 166A3:34; 174A_B7:5, 27; 180B22:20–21; 23:1–14; 190/196B18:1–22; 19:1–12; 201B1:24–26; 18:1–18; 207B15:1–35
 serpentinization, 153B20:386–387
 shallow sediments, 194B7:1–28
 Site 765, 123A4:244
 Site 798, 127/128B(2)71:1127–1128, 1131–1132
 Site 799, 127/128B(1)2:39; (2)71:1128, 1131–1132
 Sites 504 and 395 comparison, 118B19:347
 slug tests, 106/109B17:214–215; 118A6:202; 19:341–342
 Stoneley waves, 205B13:6–9
 structures, 170B4:4–5
 subducting sediments, 205B10:1–24; 11:1–13
 TAM packer, 118A6:202–203
 temperature anomalies, 118B20:349; 127A6:299
 test results, 205B11:11–12
 upper oceanic crust, 148B27:353–363
 vertical advection, 118B20:351–352; 28:556
 vs. confining pressure, 193B13:12–13
 vs. depth, 139B39:625; 148B27:354, 361, 363; 34:420; 156B7:114; 169B8:33; 180B23:13; 185B11:4, 13; 193B13:14, 16
 vs. effective pressure, 139B42:672; 190/196B10:10
 vs. effective stress, 135B48:792; 156B24:306–308; 160B48:639; 170B3:8–9, 26–27, 29; 174A_B7:17; 180B22:5–6, 15; 190/196B18:18–19; 201B18:11
 vs. formation factor, 169B8:26
 vs. fractional porosity, 205B10:11–12; 11:10
 vs. grain density, 169B8:3–4, 23
 vs. maximum difference in temperature, 139B42:671, 673
 vs. porosity, 127/128B(2)71:1132; 156B24:308–309; 169B8:3–4, 22; 170B3:28; 174A_B7:18; 185B11:12; 191B5:15; 193B13:15, 17; 14:12; 194B6:11–13
 vs. pressure, 169B8:3–4, 21, 25, 36–39; 191B5:14; 193B14:12
 vs. void ratio, 139B40:637; 156B24:308
 water content, 129B27:494
 Weddell Sea, 113B17:213
 well-logging, 118B14:267–268; 139B33:577
See also fluid flow; porosity
- permeability, bulk
 backarc basalts, 135B50:805–816
 packer experiments, 131A6:195–198
 sediments, 146A(1)7:355, 357–359

- vs. effective stress, 156B15:215–216; 24:309
- vs. depth, 148A2:34
- vs. modified pore pressure, 156B15:216
- permeability, core-scale, hydrothermal systems, 193B13:1–19
- permeability, dynamic, consolidation, 131B7:91–93
- permeability, gas
 - uncalibrated measurements, 190A4:10–11, 55–56; 5:13–14, 61; 6:10, 40; 7:8, 34; 8:10; 9:11
 - variations, 190A4:56
 - vs. depth, 190A4:55; 5:61; 6:40; 7:34; 8:40; 9:48; 190/196B18:10–11
- permeability, in situ
 - fault zones, 146B(1)18:291–297
 - packer experiments, 156B15:199–218
 - sediments, 118A6:201; 118B19:336
 - vs. calculated bulk permeability, 106/109B17:215; 139B39:616
 - vs. effective stress and void ratios, 150B21:383
- permeability, intrinsic
 - vs. effective pressure, 190/196B19:7
 - vs. porosity, 146A(1)1:14
- permeability, static
 - consolidation, 131B7:91–96
 - deformation, 131B29:371–372
 - sediments, 131B19:235–245; 20:250–252
 - tools, 131A5:61–67
 - tuffs, 131B22:276–278, 280
 - vs. void ratio, 131B19:241–242, 244
- permeability, vertical
 - sediments, 180B22:5, 19
 - vs. depth, 180B22:12
 - testing, 190/196B10:8–9
- permeability anisotropy, Site 740, 119A9:369
- permeability index, vs. log permeability, 139B40:635
- permeability logs, basalts, 144A9:323–325
- Permian
 - lithology, 161B23:308
 - palynomorphs, 188B2:4–6
- Permian, Upper, tectonic models, 160B54:766
- permineralization, plant fossils, 183A6:22
- Permo–Triassic, Beacon Supergroup redbeds, 119B3:54
- perthitic feldspar. *See* feldspars, perthitic
- perylene
 - biomarkers, 207A10:7
 - maturation, 139B24:459–460
 - paleoenvironment, 207A10:10
 - sediments, 155B35:556–557; 175B10:12
 - Weddell Sea, 113B16:206
- petrofabric
 - gabbros, 153B6:105–106
 - magnetic fabric, 153B23:422–423
 - See also* fabric; magnetic fabric;
- petrofacies
 - lithology, 123B6:141–142
 - See also* facies; lithofacies; petrographic facies
- petrogenesis
 - gabbros, 176B8:5–14
 - igneous rocks, 205B9:10–11
 - lithology, 200A1:28–30
 - oceanic crust, 129B19:361–388
 - volcanic rocks, 152B28:343–344
- petrographic facies, vs. depth, 160B38:495
- petrography
 - alteration, 137/140B15:168–169; 148B12:172–173; 153B30:523; 168B10:119–136; 200A3:22–25
 - analytical methods, 125B10:171–173
 - authigenic carbonates, 164B29:287–289
 - basalts, 129B17:306–308; 19:363–364; 130A10:524–526; 132A3:57–59; 136B9:109–110; 142B1:3; 11:84; 143B16:264–266; 144B28:477–479; 29:497–499, 501–502; 147B1:4; 9:174–179; 151A5:78–79; 163B2:22; 165A6:326–329; 168A5:127; 183A4:17–19; 183B15:21; 187A1:8–9; 187B2:13–15; 192A3:26–28; 4:13–15; 5:13–14; 6:16–17; 7:7–8; 195A4:20–22; 195B8:4–5; 203A3:10–12; 203B2:29; 206A3:55–64
 - basement, 123A4:179–189; 183A5:30–34, 181–182; 6:187; 7:37–39, 196–197; 8:109; 9:24, 129; 183B15:22–23; 196A3:31; 200A1:12–13; 4:3–4
 - breccia, 158A7:68–93
 - calcite, 149B34:559–569; 168B10:119–148
 - carbonates, 146B(1)6:119–120; 182B12:1–11
 - cements, 144B24:442; 161B25:334–335
 - chloritized metabasite clasts, 173A7:191–192
 - clasts, 160B45:577–579
 - composition, 169A3:94–95
 - deep-sea sediments, 185B7:4–5
 - diabases, 137/140B3:35–38; 148B4:42–43
 - diagenetic dolomite, 201B13:1–34
 - dropstones, 145B12:201–203
 - ferrobasalts, 200B3:3–6
 - fluid inclusions, 139B21:413–416; 157B26:432
 - gabbros, 147B1:4; 2:26–28, 33–37; 11:214–215; 153A4:145; 5:192; 6:235; 153B17:334–335; 25:445; 27:471–472; 179A4:38–41; 179B2:6–9; 205A4:31–32
 - grainstone, 210B2:4–5
 - groundmass, 123A4:183, 185; 5:321
 - hardgrounds, 144B22:420–421
 - high-temperature microscopic veins, 176B4:6–9
 - hydrothermal alteration, 148B10:122–123; 158B1:9–10; 3:42; 18:236–239
 - igneous rocks, 123A5:319–321; 130A9:429, 439; 131A6:151–153; 135A(1)4:131–150; 143B15:246, 251; 148A2:32–34; 169A3:90–94; 193A1:14, 18, 21–22; 200A4:29–36; 209B4:3–4
 - jasperoids, 193B9:1–30
 - lava flows, 142A4:57–60; 197A5:14–16; 6:12–13
 - limestone, 144B23:429–437; 48:846–847
 - lithology, 135A(1)4:137; 135B6:92; 149A4:47, 50, 55–56, 58; 5:119–121, 124–127; 6:154–155, 158, 162–175; 7:220, 222; 161B1:5–7; 168A4:63; 173A4:71–73, 75; 6:112–114; 7:173–177; 176A3:17–21; 176B6:7–14; 180A5:12–13; 195A4:14–16; 200A3:14–19, 143; 206A1:28–30
 - mafic rocks, 149A7:233–235
 - magnetic fabric, 153B23:422–423
 - magnetism, 158B25:345
 - mass flow units, 160B37:471
 - massive sulfides, 169B5:1–34
 - matrix, 160B45:579–580

- meta-anorthosite clasts, 173A7:191
- metagabbro clasts, 173A7:191
- metamorphic rocks, 153B31:531–534; 173A6:130–132; 7:187
- metasediments, 173A8:246–249
- metatonalite clasts, 173A7:191
- micrite, 165B14:228–230
- mineralogy, 185A4:168
- oolites, 143B8:113–116
- organic matter, 164B5:52
- pegmatitic gabbros, 173A9:283
- peridotites, 153B12:265–270; 25:444
- phenocrysts, 123A4:179, 183; 5:319–320
- pillow basalts, 183A8:17–18
- provenance, 159B12:119–120
- sand, 146B(2)5:72–73; 149B11:278–280; 157B17:297–298; 161B3:39–46; 168B5:54–56
- sandstone, 146B(1)29:425–426; 180B7:1–58; 210B2:4–5
- secondary clays, 168B12:150–151
- secondary minerals, 120B(1)4:64
- sediments, 139A5:129; 143B12:176–177; 18:288–289, 292–293; 146A(1)5:137, 140–142; 6:248; 150X_B3:27–35; 157B20:359–360; 161B7:86–87; 198B16:24–29
- serpentinites, 149B32:541–544; 173A7:190–192; 9:282–284
- sheeted dikes, 137/140B2:20; 14:156–158
- siliceous rocks, 198B17:6, 33–39
- sills and lava flows, 129B18:345–359
- siltstone, 173A9:270, 272–273
- Site 747, 120A6:133
- Site 800, 129A2:65–67
- Site 801, 129A3:132–139
- Site 802, 129A4:217–219
- Site 803, 130A5:149
- Site 894, 147A3:55–68
- sulfides, 176B7:4–5, 24–25; 193A1:14–15, 19
- tephra, 186B10:22
- tomography, 158B16:203–204
- ultramafic rocks, 147A1:11–12; 149B21:378–379
- unlithified cohesive-sediment impregnation technique, 112B6:87–89, 91
- veins, 147B15:299; 176B9:3–8
- volcanic basement, 163X_A8:7–8
- volcanics, 134A11:339, 342; 136B4:55; 144A3:74; 152B6:68–71; 33:404–405; 161B27:357–359; 190/196B2:1–9; 198B18:1–26; 201B19:8–10
- volcaniclastics, 129B5:137–152; 157A7:351–355; 8:414–415; 9:454, 456; 10:520–521; 157B13:185–191; 20:347; 161B12:139, 144–148; 180B8:1–44
- xenocrysts and xenoliths, 123A4:185
- xenoliths, 193B6:2–3
- petrography, transmitted-light, dolomite, 175B15:5–6
- petroleum, hydrothermal, sediments, 169A4:179–181; 6:284–287
- petroleum potential
 - diagenesis, 139B24:461–462
 - generating potential, 113B15:196
 - migration, 139A6:199–200
- sediments, 143B12:182–183; 157A6:166, 169; 162A8:277; 9:313; 172A3:60; 4:133; 5:223; 6:284
- source rocks, 139A7:539
- transform faults, 159A1:12
- vs. depth, 157A6:173; 162A9:313
- petroleum-type compounds
 - organic matter, 184A9:20–21
 - sediments, 167B12:188
 - sources and transportation, 167B12:191–192
- petrology
 - ash fall layers, 157B18:315–328
 - basalts, 165B15:233–236; 168A5:114–123; 6:171
 - carbonate platforms, 166A3:33–34
 - chemical composition, 127/128B(2)53:863–864, 866–868; 56:894
 - Cretaceous siliceous rocks, 198B17:1–45
 - crustal rocks, 151A13:418
 - dacite lava, 193B2:1–31
 - electron microprobe data, 127/128B(2)53:862
 - exchange coefficients, 127/128B(2)53:864
 - experimental conditions, 127/128B(2)53:862
 - gabbros, 147B1:3–19; 179B2:1–76
 - graphic projections, 135B27:487–503
 - hydrothermal alteration, 193B1:16–18
 - hydrothermal mineralization, 158B1:5–26
 - igneous rocks, 158A8:163; 10:199–200; 192A1:28–30
 - mafic rocks, 149B26:449–469
 - magmatism, 192B1:5–7
 - Mesozoic crust, 185A1:30
 - Messinian, 161B1:3–20
 - oceanic anoxic events, 198B16:1–31
 - pillow basalts, 168A6:170–173
 - procedures, 127/128B(2)53:861; 56:895
 - Site 504, 137/140B1:3–17
 - Site 869, 143B16:263–276
 - Site 899, 149A6:151–175
 - Site 976, 161A6:212–217, 223–230
 - Site 1067, 173A6:124–135
 - Site 1068, 173A7:186–196
 - Site 1069, 173A8:245–249
 - Site 1070, 173A9:277–285
 - Site 1243, 203A3:10–13
 - Sites 1023–1025, 168A4:59–77
 - starting materials, 127/128B(2)53:861–862; 56:894–895
 - sulfides, 158A7:68–114; 8:144–160; 9:171–172; 10:178–193; 11:212–216, 219
 - synthesis, 135B55:879–905
 - ultramafic rocks, 149B21:277–395
 - volcaniclastics, 157A7:351, 353–354; 8:414–415; 9:454, 456; 10:520–521, 523
 - See also* Pearce plots
- petrophysical logs
 - basalts, 123A4:248
 - lithology, 123A5:336
 - sediments, 135B8:131–146
 - Site 765, 123A4:64; 123B33:604
 - Site 766, 123A5:270, 344
 - well-logging, 123A4:223–224; 5:336–337

petrophysical units

- correlation, 160A6:142
- Palmer Deep, 178B30:1–17
- sediments, 166A6:96–97; 9:255–256; 10:318–319;
 11:365, 367; 178B30:6
- seismic sequences, 166A7:167
- vs. depth, 178B30:11–12
- See also* physical properties units

petrophysics

- carbonates, 166A3:35
- lithology, 159B23:244–246
- sediments, 143B18:288–300
- See also* physical properties

PGE. *See* platinum-group elements

pH

- bacterial cells, 169B2:8
- bottom waters, 129B32:604
- Cagayan Ridge, 124A12:326
- Celebes Sea, 124A10:154–155; 13:356
- Conical Seamount, 125B21:377–378
- cores, 144A12:447
- discontinuities, 119A6:187
- geochemistry, 155A6:105; 193B1:27
- hydrothermal fluids, 139B20:398–399
- Indus Fan, 117A8:177
- Jane Basin, 113A12:730
- Kerguelen-Heard Plateau N, 119A5:139–140; 6:186
- lithology, 123A4:145–146; 5:303
- Oman margin, 117A11:346; 13:431–432; 14:458;
 15:478; 16:520; 18:578
- organic matter, 180A9:40–41
- Owen Ridge, 17A9:228; 10:278–279; 19:617
- phase equilibria, 209A6:17
- Pisco Basin W, 112A18:727, 734
- pore water, 127/128B(1)6:94; 129B14:269, 273–275;
 133A(1)4:101, 104, 105, 107; 5:155–156; 6:189–
 190; 7:216; 9:316–319; 10:371; 11:431–432;
 134A11:347; 135B42:680–688; 136A4:47; 5:71;
 138A(1)11:297; 139A5:121; 6:188; 143A6:136;
 7:215; 9:330; 144A3:67–68; 4:129; 5:179; 6:232;
 8:302; 10:366; 11:430; 146B(2)25:331;
 150A10:333; 151A7:181–182; 8:240; 9:285–286;
 10:333; 11:367; 154A7:302; 8:355; 155A7:140;
 10:260; 11:295; 12:348; 13:398; 14:424; 15:449;
 16:476; 17:520; 18:557; 19:583; 20:610; 21:650;
 22:674; 159A7:243; 162A9:310; 165A3:73–74;
 4:166; 5:259; 6:317; 168B4:47–48; 171B_A4:143;
 5:209; 6:285; 7:334; 180A6:54, 56; 7:21; 9:38;
 12:36, 38; 181A4:18; 5:19; 6:28; 7:37; 8:30; 9:19;
 182A1:27; 4:31; 5:20; 6:29; 7:21; 8:25; 9:19;
 10:24; 12:20; 184A4:21; 5:18; 6:13–14; 7:18; 8:8;
 9:22; 186B14:5; 189A3:43, 161; 4:21, 60; 5:47,
 158; 6:51, 166; 7:44, 140; 193A4:48; 195A4:33–
 36; 195B1:6; 3:35–40; 198A3:33; 4:25; 5:26;
 6:24; 7:23; 8:20; 9:30; 199A8:15; 9:10; 10:16;
 11:25; 12:25; 13:21; 14:18; 206A3:37–38;
 208A3:20; 4:18; 5:14; 6:22; 7:21; 8:21
- progressive evaporation, 112B25:424
- Prydz Bay, 116A8:312; 9:362; 11:418
- sediments, 139A7:318; 150A10:328–329
- Site 685, 112A17:626, 628, 631

- Site 690, 113A6:230
- Site 693, 113A8:374
- Site 695, 113A10:560
- Site 696, 113A11:646–647
- Site 699, 114A6:174
- Site 701, 114A8:389
- Site 702, 114A9:499
- Site 703, 114A10:567
- Site 738, 119A7:256
- Site 744, 119A26:491
- Site 745, 119A28:517
- Site 747, 120A6:117
- Site 748, 120A7:208
- Site 749, 120A8:260
- Site 750, 120A9:309
- Site 751, 120A10:357
- Site 778, 125A6:105
- Site 779, 125A7:126
- Site 780, 125A8:158
- Site 783, 125A11:260
- Site 794, 127A4:107
- Site 795, 127A5:205
- Site 796, 127A6:283
- Site 797, 127A7:364, 374
- Site 799, 127/128B(1)34:610; 128A5:317–318, 328
- Sulu Sea, 124A11:238
- vs. depth, 113A5:128–130; 6:237; 8:380; 11:650–651;
 12:737; 114B37:687; 129A2:59; 3:126; 4:208;
 133A(1)4:103; 9:318; 137/140B13:145;
 139A5:125; 6:194; 7:333; 8:475; 141A10:406;
 141B28:369–370; 143A6:139; 9:332; 144A3:73;
 4:130; 5:182; 10:368; 150A6:103; 7:172; 8:236;
 9:290; 10:333; 150B17:324; 150X_B24:335;
 154A4:103; 5:184; 6:256; 7:305; 8:381;
 155A6:112; 7:149; 8:192; 9:219; 10:261; 11:296;
 12:354; 13:402; 14:426; 15:456; 16:481; 17:528;
 18:558; 19:585; 20:615; 21:651; 22:677;
 160A5:114; 161A4:92; 5:152; 6:260; 7:332, 387;
 9:412; 162A4:119; 9:318; 166A7:163; 8:189;
 168A4:83; 5:145; 6:182; 168B8:98–102;
 169A4:176; 169B2:8, 18; 171B_A3:84; 4:147;
 5:217; 6:296; 7:341; 174A_A3:75; 4:126; 5:173;
 177A3:33; 4:48; 5:51; 6:43; 7:34; 8:50; 9:41;
 180A6:162; 9:114; 12:118; 181A3:54; 4:40; 5:46;
 6:73; 7:93–94; 8:75; 9:49; 182A5:46; 6:70; 7:50;
 8:53; 9:43; 10:54; 11:31; 12:46; 184A7:56;
 188A3:125; 5:65; 189A3:93; 4:38; 5:92; 6:105;
 7:84; 195A1:45; 3:115; 4:132; 195B10:5;
 206A3:147
- vs. magnesium, 139B20:402; 169A4:172
- vs. subbottom depth, 141B25:317
- See also* ammonium/pH ratio; pmH
- pH/chloride ratio, platinum-palladium fluids,
 125B29:511–513, 518
- phacoids
 - boudinage, 125B19:352; 36:609
 - computed tomography, 131B10:140
 - Conical Seamount, 125B19:347, 349; 36:605
 - deformation, 125B19:354
 - Site 778, 125B18:328

- Torishima Forearc Seamount, 125B19:352, 354;
 36:609–610
See also pebbles
- phaeodarians, Cenozoic, 134B14:309
- phaeophytin
 Peru margin, 112A2:38
 Salaverry Basin, 112A12:268
 sapropels, 160B24:298–302
 Trujillo Basin, 112A16:547, 549, 557
- Phanerozoic, geology, 188A1:7–8
- phase equilibria
 aluminosilicates, 161B23:314
 basaltic andesites, 135B32:557–563
 basalts, 127/128B(2)54:870; 152B30:361, 363, 365–
 372; 163X_A8:11
 basement, 161B44:567
 calcium oxide-magnesium oxide-aluminum oxide-sil-
 ica-water system, 147B14:284
 carbonates, 154B19:288; 20:314–316, 318
 chabazite, 152B34:419–420
 clinopyroxene-olivine-quartz system, 153B17:348
 crystallization, 127/128B(2)53:861–862, 864–866;
 56:895–896
 dacites, 163B9:97–112
 experiments, 127/128B(2)53:862–863
 fluid inclusions, 139B21:417–419
 gabbros, 153B28:495–496; 176B8:5–14
 gas hydrates, 164B26:260–261
 graphic projections, 135B27:487–503
 heulandite group, 152B34:420
 hydrothermal alteration, 153B30:523–529
 iron-nickel-sulfur-oxygen system, 209A3:97
 lava flows, 163B12:139
 magnesium-calcium-silicon-oxygen-hydrogen sys-
 tem, 209A6:17–18, 77
 magnetic susceptibility, 145B19:292
 mantle, 152B31:381
 melting experiments, 127/128B(2)53:861; 56:894–897
 metamorphic rocks, 153B31:536, 540; 161B18:257–
 258; 20:288, 290–293
 metamorphism, 153B21:391–393
 mineral-liquid equilibria, 127/128B(2)53:862–863
 modal composition, 176A3:18
 normative projections, 127/128B(2)53:868
 olivine-amphibole-talc assemblage, 209A6:17–18
 olivine-plagioclase-clinopyroxene system,
 163X_A8:20
 opal-CT/quartz transition, 129B3:95–96
 peridotites, 192B1:5–6
 petrology, 176A1:14
 phase proportions, 127/128B(2)53:862
 quartz-albite-orthoclase system, 135B38:639
 quartz-olivine-clinopyroxene system, 135B29:523
 rock units, 161B44:567
 sediments, 135B6:92–94
 serpentine-brucite assemblage, 209A6:17–18
 serpentinization, 153B3:47–49; 209A6:17–18
 sulfides, 209B3:8–9
 textures, 158B15:195
 titanium-zirconium-yttrium system, 180A6:134
- titanium oxide-potassium oxide-phosphorus oxide
 system, 180A6:133
- tochilinite, 173B2:8
 vs. cooling rate, 163B12:139
 vs. pressure, 158B13:174
See also pressure-temperature conditions; stability
 zone
- phasor dual induction tool (DIT). *See* phasor induction
 logs; resistivity logs
- phasor induction logs
 Site 747, 120B(2)58:1054
 vs. depth, 151A9:305; 201A6:71; 7:76; 9:57; 10:61;
 11:77
See also resistivity logs, deep induction phasor
- phenanthrenes
 gas chromatographs, 169A6:286
 maturation, 139B24:458
 sediments, 139B15:331–336; 155B35:557
See also alkyl phenanthrenes; methylphenanthrenes
- phengite, Site 778, 125B25:419, 424–425
- phenocrysts
 alkali feldspar, 183A7:42–43
 alteration, 183A4:21; 9:33–35; 187A1:9–10; 187B5:7
 ash fall layers, 157B18:316, 318
 basaltic andesites, 135B32:559–560
 basalts, 125A9:184–185; 134A8:153; 137A2:26–27;
 140A2:53–55; 165A6:326–327, 329;
 165B15:233–235; 168A5:116–119; 183A4:18–
 19; 191A4:27–35, 143; 195A4:21–22; 197A3:19–
 20; 206A1:28–30; 3:55–56; 206B5:5–6
 basement, 127/128B(2)56:892; 183A5:181–182; 6:47;
 7:14, 17, 20–39; 9:17–20
 chemical composition, 135B38:637; 163X_A4:13, 24;
 5:6, 15; 6:23, 49; 7:5, 15
 clinopyroxenes, 180A7:15
 cordierite, 161B19:272
 crystal size, 165B5:102–103
 diabases, 148A2:38–41; 180B3:6
 ferrobasalts, 200B3:4–6
 fractional crystallization, 192B1:6
 gabbros, 205A4:27–28, 31–32
 geochemistry, 137/140B7:87; 148B3:22–24
 granite porphyry, 180A7:13–14
 ignimbrites, 157B15:230–231
 inclusions, 157B22:375–401; 23:403–410; 24:416
 lava flows, 183A8:15, 17
 lithology, 168A4:60–70; 177A8:7–8; 180A5:8–9; 6:9–
 10; 12:14; 183A1:31–33; 5:29–30; 7:7–8; 8:6;
 187A7:5; 193A3:23, 30; 4:12, 18; 193B2:5–6
 lower oceanic crust, 176B(synthesis):18–22, 39
 middle series magmas, 163B9:105–110
 mineralogy, 115B3:26; 148A3:137–140
 modal abundance, 134A12:413; 135B24:386–389;
 206A1:78; 3:175–176
 Norwegian Sea, 104A4:90–93, 98
 olivines, 152B33:406; 163A3:27
 percentage vs. depth, 148A3:138
 petrography, 161B27:357–359; 168B10:120–121;
 200A4:31

- petrology, 139A5:130, 132, 135–138; 148A3:132;
158A10:200; 168A5:115; 193A5:4; 6:4; 193B2:7–
8
- photograph, 137/140B18:215–216; 139A5:142–146;
152B8:113; 153A3:72; 158A7:120; 10:199;
169A3:92, 107; 183A7:90, 123–124
- photomicrograph, 157A7:357; 8:416; 157B16:291;
161B19:276; 27:362; 165A3:81; 168A5:137;
169A6:271; 180A5:63; 7:31, 42; 9:73, 76–77;
10:24, 31–33; 183A1:92; 4:47; 5:100, 108–109,
114; 6:125; 7:114–116, 122, 125, 129; 8:52–55;
9:81–84, 88, 90; 185A3:94, 106; 191A4:101;
192A1:62; 3:87–91, 95, 97, 104, 112; 4:66, 79;
193A1:78; 5:8; 195A4:86; 206A3:177–179
- pillow basalts, 168A6:170, 172–173; 169A3:94
- plagioclases, 152B33:407, 409; 163A4:38; 5:57;
163X_A8:26; 168A5:119; 183A1:14; 7:41; 9:26
- point-count data, 148A12:187
- sanidine, 183A7:40–41
- silicates, 137/140B3:35–38
- sills, 169A3:92
- Site 698, 114A5:96
- Site 794, 127/128B(2)52:849
- Site 795, 127/128B(2)52:850
- Site 797, 127/128B(2)52:850
- size vs. depth, 185A4:105
- spinel in olivines, 163B11:124
- trace elements, 144B30:523
- type and relative amounts, 157B15:229
- volcanic basement, 163X_A8:7–9
- volcanic pebbles, 161B44:568
- volcaniclastics, 157B13:189; 16:285
- vs. depth, 157B12:146–147; 183A4:46; 5:99;
192A1:44; 3:79; 5:52; 6:65; 197A3:57; 203A1:25;
3:41; 206A1:71–72; 3:162–163
- See also* microphenocrysts
- phenocrysts, altered mafic, photomicrograph,
183A7:125
- phenocrysts, augite, petrology, 127/128B(2)52:851–853
- phenocrysts, biotite, photograph, 157A9:447
- phenocrysts, chrome spinel, photomicrograph,
197A6:49, 60–61, 64
- phenocrysts, clinopyroxene
alteration, 187B5:7
basalts, 187A1:8–9; 192A6:16–17; 206A1:79; 3:57
composition, 148A2:40; 13:132, 137–140; 148B3:24,
28; 8:104; 163X_A5:6, 15; 8:23
diopside-enstatite-ferrosilite-hedenbergite system,
163X_A8:24
geochemistry, 192A3:28–29
lithology, 163X_A4:8, 13; 6:6–19; 7:3–4; 193A4:12,
18; 193B2:5
modes in lava, 163X_A6:41
petrography, 187A8:6; 192A5:13–14
petrology, 137/140B11:121–130; 193A5:4; 6:4
photograph, 157B12:178; 193A5:7
photomicrograph, 163X_A7:11; 192A3:94; 5:57, 62,
68–69; 193A1:78; 4:98; 5:8; 193B2:18; 195A4:86
volcaniclastics, 157B12:148–149; 27:455
vs. depth, 192A6:65
- phenocrysts, edenite, photomicrograph, 157B14:218
- phenocrysts, elongate olivine, photomicrograph,
163X_A6:40
- phenocrysts, euhedral clinopyroxene, photomicrograph,
193B2:16, 19
- phenocrysts, euhedral plagioclase, photomicrograph,
193B2:16, 19
- phenocrysts, iddingsitized olivine
photograph, 187A8:39
photomicrograph, 187A3:21; 7:19
- phenocrysts, ilmenite, 127/128B(2)52:853
- phenocrysts, mafic
photomicrograph, 183A9:84
Site 786, 125B10:182
- phenocrysts, magnetite
petrology, 193A5:4; 6:4
photograph, 193A1:77; 5:7
photomicrograph, 193A1:78; 5:8
- phenocrysts, olivine
alteration, 185A3:25–26; 187A7:5–8; 11:8–10; 15:8–9;
187B1:7–8; 5:7; 192A7:9; 197A3:24–30
basalts, 185A4:24; 187A1:8–9; 192A6:17; 206A1:79;
3:56
basement, 196A3:30
frequency histogram, 148A3:138
igneous units, 163X_A6:21–23
lava, 197A3:15; 5:14–15
lithology, 163X_A6:9; 7:3–4; 187A3:6–7; 6:4–5; 9:3–5;
10:2–3; 11:4–7; 14:3; 15:3–7
lower alteration zone, 192A5:16–17
macroscopic description, 192A5:12–14
modes in lava, 163X_A6:41
percentage vs. depth, 148A2:38
petrography, 187A8:3–7; 12:3–8; 13:5–7; 192A3:26–28
petrology, 127/128B(2)52:850; 137/140B1:17
photograph, 148A3:142, 144; 192A5:47–48, 84
photomicrograph, 157B12:149; 17:313; 168A4:67;
185A3:106; 4:106, 108; 187A8:46; 13:20, 25, 30;
15:14, 34; 192A1:62; 5:53–58, 61–68, 77–80, 83,
85, 88; 6:64, 71, 76–77; 7:30, 39, 44; 194A5:55;
196A3:75; 197A1:21, 87; 5:51, 53, 64–65; 6:43–
44, 48–49, 60, 63, 67
- pillow basalts, 187A5:2–3
Site 504, 148A2:39–40; 148B8:103
Site 896, 148A3:132, 137–140; 148B3:23, 27, 34–35;
11:167
volcaniclastics, 157B12:148–149; 27:455
volcanism, 163X_A8:15
vs. depth, 185A3:102; 192A6:65
- phenocrysts, orthopyroxene, lithology, 193B2:5
- phenocrysts, partially altered olivine, photomicrograph,
197A5:52
- phenocrysts, plagioclase
alteration, 148B12:172–173; 185A3:25–26; 187A7:5–
8; 8:8; 11:8–10; 15:8–9; 187B1:7–8; 5:7;
192B6:3–4
argon isotopes, 157B11:131
basalts, 185A4:24; 187A1:8–9; 192A6:16–17;
206A1:79; 3:56–57
basement, 196A3:30–31

- composition, 148A2:38–39; 3:132, 137–140;
148B3:23–26, 30–31, 33–34; 8:104; 163X_A4:13,
24; 5:6, 15; 187B2:19
- distribution, 185A3:104; 193A3:277
- frequency histogram, 148A3:138
- geochemistry, 192A3:28–29
- lava, 197A3:15
- lithology, 163X_A4:8; 6:6–19; 7:3–4; 187A3:5–6; 6:4–
5; 9:3–5; 11:3–7; 14:3; 15:3–7; 193A3:23–33;
4:12, 18; 193B2:5
- modes in lava, 163X_A6:41
- optical zonation, 197A4:48
- percentage vs. depth, 148A2:38
- petrography, 187A8:3–7; 12:3–8; 13:5–7; 192A3:26–
28; 5:14
- petrology, 127/128B(2)52:850–851; 129B17:308; 137/
140B1:5; 193A5:4; 6:4; 193B2:7–8; 209A8:2
- photograph, 193A3:112, 124; 5:7; 197A3:59, 76–77
- photomicrograph, 157B12:148; 163X_A7:11;
168A4:67; 185A3:94; 4:106–107; 187A5:9–10;
6:17–21; 7:14, 18, 24; 8:35; 9:14; 11:18, 25;
15:35; 190/196B3:25; 192A5:55, 57, 62, 68–69;
6:64; 193A1:44, 53, 64, 78; 3:130, 135–136, 155,
161; 4:84, 97–98; 5:8; 193B2:18; 9:20; 194A4:60;
197A1:21, 88; 4:48; 5:48–50; 198A9:62, 70;
206A1:80; 3:215; 209A10:63
- pillow basalts, 187A5:2–3
- volcanism, 163X_A8:15
- vs. depth, 185A3:102; 192A6:65
- phenocrysts, prismatic plagioclase
lithology, 187A10:2–3; 11:3–4
petrography, 187A8:5–6
- phenocrysts, pyroxene
basalts, 185A4:24; 195B8:6
percentage vs. depth, 148A2:38
petrology, 137/140B1:13
photomicrograph, 198A9:62
vs. depth, 185A3:102
- phenocrysts, quartz, photomicrograph, 193A4:125–126
- phenocrysts, relict, volcanoclastic sand, 180B7:7
- phenocrysts, resorbed plagioclase, 193B2:17
- phenocrysts, sheared relict olivine, 197A5:55
- phenocrysts, skeletal olivine, 187A1:29; 8:25
- phenocrysts, spinel
composition, 148A2:40–41; 3:132; 148B3:23–24, 27–
28
petrology, 127/128B(2)52:853
photomicrograph, 209A4:11
- phenocrysts, tabular plagioclase, 187A15:13
- phenocrysts, zoned plagioclase, 206A3:178
- phenols
biomarkers, 159B43:596–599
organic matter, 201B4:5–6
organic-rich layers, 161B30:397
sapropels, 160B23:288
sediments, 159B43:590
turbidites, 157B35:601
vs. depth, 159B43:590, 597–598
See also cinnamyl/vanillyl ratio; syringyl/vanillyl ratio
- phenols, alkylated, sapropels, 160B23:288, 292
- phenols, cinnamyl, vs. depth, 161B30:400
- phenols, lignin
acid/aldehyde ratios, 155B32:527
cinnamyl/vanillyl vs. syringyl/vanillyl, 155B32:526
composition, 155B32:520–522, 524
syringyl phenol/vanillyl phenol vs. vanillic acid/van-
illin, 155B32:529
vs. carbon isotopes, 155B32:529
vs. depth, 155B32:525
See also lignin
- phenols, syringyl, vs. depth, 161B30:400
- phenols, vanillyl, vs. depth, 161B30:400
- phenotypic diversity, cultured isolates, 201B2:8–9
- phenylalanine, racemization, 174AXS_A7:27–29
- phillipsite
alteration, 106/109B14:192; 121B30:565; 157B12:150;
168B10:126; 185A3:26; 197A4:21; 205A4:33
authigenesis, 107B19:317
basement/sediment contact, 161A6:215
biostratigraphy, 198A6:16; 198B4:4–5; 9:7–8
Cagayan Ridge, 124B13:187–188
cementing properties, 107B19:315
chemical composition, 124B36:494–495; 148B10:124
formation, 124B36:492
hydrothermal alteration, 135B43:694–697;
157B26:436; 192A1:20–21, 26
lava flows, 152A9:134–135
lithology, 152A6:60–62; 7:77; 185A3:6; 191A4:13;
197A5:6; 198A3:14–15; 201A12:10–11
Marsili Basin, 107B17:289
microfabric, 135B49:800–801
Ninetyeast Ridge, 121B30:564
occurrence, 125B7:118; 126B33:524; 129B1:11
oxide variations, 124B36:496
Pacific Ocean W, 124B31:421
Paleogene, 198B1:12
petrography, 161B3:41; 195A4:16
photograph, 148A3:149; 157A4:69–70; 157B12:178;
161A4:64; 200A3:58
photomicrograph, 157B12:149; 192A5:81, 90;
195A4:88; 198A3:70
Pigafetta Basin, 129B1:22
secondary minerals, 148A3:141; 148B11:154; 12:173,
186; 14:208
sediments, 115B37:688; 129B14:270, 275; 136B5:66–
68; 200A1:14
siliceous microfossils, 144A3:64
Site 752, 121B14:2771–272
Site 797, 127/128B(1)9:139
Site 802, 129B4:124
spectra, 134B9:145
tuffs, 129B4:127, 129–130
Tyrrhenian Sea, 107B19:307, 320
upper Paleocene, 198B9:2–3
veins, 148B11:155–156; 156A7:225; 192A5:17;
200A4:39–40
volcanic rocks, 141B28:352–355
volcanoclastics, 134B9:137–144; 136B7:87
vs. depth, 136B5:68; 144A4:126, 177; 181A5:38;
197A5:36

- X-ray diffraction data, 129B1:12–15; 5:143;
 156A6:116; 195A4:16–17; 200A3:95, 97; 4:38–
 39, 112, 118, 121
See also cements
- phillipsite, fibrous, glassy rims, 168B10:126
 phillipsite veins. *See* veins, phillipsite
 phlobaphinite, macerals, 180B10:8
 phlogopite
 alteration, 176B1:4–5
 basement/sediment contact, 161A6:215
 biotite composition, 161B19:269–271
 chemical composition, 157B15:251; 27:455; 176B1:10
 clastic mineral phases, 157B15:235
 geochemistry, 157B18:316, 318
 lava, 197A5:14–15
 marbles, 161B23:313–314
 metamorphic coronas, 118B8:168
 mineral inclusions, 147B7:142
 photograph, 157B12:177
 “placer sands,” 157B12:149
 veins, 176B9:11
 xenocrysts, 157B12:169
- phlogopite, titanium, serpentinites, 149B32:543
 phlogopite crystals, photomicrograph, 157B15:266
 Pholadidae, lithology, 167A(1)6:133, 290
 phonolite clasts. *See* clasts, phonolite
 phonolites
 ash fall layers, 157B18:315–328
 eruptions, 183A1:38
 geochronology, 157B11:127–129, 133–134
 lithology, 157A7:335
 photograph, 157A7:337
 photomicrograph, 157A8:416
 volcanic ash layers, 127/128B(2)48:793
 volcanism, 157A2:17
- Phormacantha hystrix*, cumulative percentage, 178B33:11
- phosphate
 Albian sediments, 143A8:281
 basalt glasses, 118B4:88
 carbon dioxide reduction zone, 188A3:45
 Celebes Sea, 124A10:155; 124B18:241–242
 Cenozoic, 194A3:7
 comparison with modern profile, 112B24:408
 concentration, 131A6:128–138
 conglomerate, 112A12:257
 contemporary genesis, 112B8:111
 correlation with magnetic susceptibility, 201A8:39
 crusts, 144A4:119
 diagenesis, 123B3:79; 146B(1)25:381; 172A4:123, 125;
 5:221–223
 diatoms, 172B8:4
 enrichment, 105B9:132
 expected vs. measured concentration, 118B4:80
 ferromanganese crusts, 144B44:751–753
 fish apatite, 151B33:587
 fluid geochemistry, 158A8:168–169
 geochemical cycles, 205B6:9
 grain infillings, 144B14:285
 gravel lag, 112A13:308, 311
 growth rates, 112B8:113; 144B5:105–107
 hardgrounds, 133A(1)5:144, 147; 133B36:525–534
 inclusion photograph, 144B22:428
 Indus Fan, 117A8:180
 Kerguelen sediment ridge, 119A14:518; 119A15:545
 laminated-burrowed cycles, 112B8:128–129
 lateral zone variability, 112A13:312
 Lima Basin, 112A11:11:163–164, 166, 168, 184, 186;
 19:808, 19:823, 826–827; 112B25:426
 limestone, 144A6:232; 7:275; 8:302
 lithology, 133B27:393; 181A1:14; 194A4:9; 201A8:12–
 13
 mafic rocks, 125B24:406
 melt porosity, 118B4:81
 modern annual average, 202B12:35
 mud composition, 143B29:443, 445–446
 nodules, 117A12:388; 117B24:436
 Norwegian Site, 104A4:75
 occurrence, 112B8:127–128
 Oman margin, 117A11:347–348; 12:403; 13:432;
 14:458–459; 15:480; 16:521; 18:578
 organic matter, 161A6:236; 175A20:550; 204A3:17;
 10:14–15
 Owen Ridge, 117A9:230–231; 10:281; 19:618
 oxygen-minimum zone, 112B8:113
 pelagic clays, 123B8:180–181
 peloids, 112B8:116–117
 Peru margin, 112A1:16
 petrography, 112B8:114
 photograph, 141B8:113; 194A4:38
 Pisco Basin W, 112A1:15, 19; 18:711–712, 727, 733;
 112B8:127–128; 25:426
 Pleistocene, 112B8:128–129
 pore water, 115B34:631, 634; 133A(1)4:101, 104;
 5:155–156; 6:190; 10:369–370; 11:431–432;
 12:468; 13:522–524; 15:633–634; 16:708–709;
 116A4:60–61, 66; 5:108–109, 146, 151; 6:167;
 116B34:422–423; 119B18:369, 371, 373; 19:386;
 130A8:324; 131A6:162, 168; 134A7:114; 8:157–
 158; 9:204; 10:279–280; 11:347; 12:417;
 135A(1)5:216; 6:266; 7:316–318; 135B42:683–
 688; 136A4:55; 5:71; 139A5:115–116; 6:191;
 143A9:331; 150A6:99; 7:167, 169; 9:286;
 10:330; 154A4:93; 8:362; 155A6:105–106;
 7:141; 8:191; 9:217; 10:260; 11:295; 12:349;
 13:398; 14:424; 15:450; 16:476; 17:520; 18:558;
 19:584; 20:611; 22:675; 161A4:85, 89; 7:320–
 321; 9:404–405; 162A3:76, 79; 4:116; 5:157;
 7:246; 164A6:129; 9:300–301; 165A3:75; 4:167;
 5:259; 165B19:288; 166A6:94; 7:161; 8:189–191;
 9:251–252, 254; 10:313–316; 167B32:343;
 168A4:84; 6:176; 169B1:24; 174A_A3:72–73;
 4:122–123; 5:170–171; 175A3:73; 4:101; 5:130;
 6:165; 7:189–190; 8:213–214; 9:257; 10:297;
 11:326; 12:370; 13:409–410; 14:445; 15:472–
 473; 177A3:13; 4:16; 7:15; 8:17; 9:13; 178A4:21;
 5:18–19; 6:14; 7:16; 8:13; 9:15; 181A3:22; 4:19;
 5:20; 6:29; 7:38; 8:31; 9:20; 182A5:19;
 184A4:21; 5:18; 6:13–14; 7:18; 8:8; 9:22;
 188A4:30; 5:23; 190A4:19, 64; 198A3:34; 4:26;
 5:27; 7:23–24; 8:21; 9:30; 199A8:16; 202A3:13;
 4:14; 5:13; 6:14; 7:17; 8:23; 9:18; 10:17; 11:15;
 12:15; 13:14; 202B8:1–19; 206A3:38

- productivity, 175B(synthesis):45
rare earths, 123B8:179
redox, 161A6:236, 238; 165A5:257; 185A4:27
Salaverry Basin, 112A1:19; 12:254, 267, 270, 274;
13:322
sapropels, 160A2:23
seawater, 175B(synthesis):59
sediment/water interface, 119B18:385
sedimentary beds, 112A16:537
sediments, 130A7:251; 133A(1)10:361; 14:584;
166A11:363–364; 167A(1)4:74; 5:104; 6:144;
7:166; 8:193; 9:232; 10:260; 11:295; 12:328;
13:368; 14:406; 15:447; 16:475; 167B32:345,
348; 169S_B1:39; 172A6:285–286; 177A6:15;
194A3:17
silicate mineral fractionation, 118B4:99–101
Site 680, 112B8:127–128
Site 682, 112A14:371, 388–389
Site 685, 112A17:603, 626, 628, 631
Site 688, 112A20:881–882, 910; 112B8:127–128
Site 690, 113A6:230
Site 693, 113A8:375
Site 694, 113A9:481, 485–486
Site 696, 113A11:647–648
Site 714, 115A11:857, 863
Site 716, 115A13:1013, 1015
Site 736, 119A5:137–138, 140, 156
Site 737, 119A6:187; 119B18:359
Site 738, 119A7:257; 119B16:301
Site 739, 119B16:313
Site 740, 119A9:362–363, 374
Site 741, 119A10:385
Site 742, 119A11:420
Site 743, 119A12:466
Site 744, 119A13:491
Site 748, 120B(1)9:119
Site 765, 123A4:147, 160; 123B3:81
Site 766, 123A5:303
Sites 798–799, 127/128B(1)5:64–66
subsurface waters, 175A17:528
sulfate reduction zone, 188A3:44–45
textures, 141B8:106
total organic carbon, 112A14:389
Trujillo Basin, 112A16:531–532; 537, 553; 112B8:127–
128; 24:407–408
upwelling sediments, 112B8:132
uranium-bearing beds, 112A11:193
volcaniclastic sandstone, 126B31:483
vs. alkalinity, 198A4:65
vs. ammonium, 119B19:383–384
vs. barite, 123B4:100, 102
vs. calcium, 198A4:65
vs. depth, 113A5:129–130; 8:380; 10:561–562;
11:650–651; 12:735–737; 133A(1)13:525;
134A7:113; 8:160; 9:207; 10:282; 12:422;
13:506; 135A(1)5:220; 7:320; 11:629; 136A4:56;
136B6:80–83; 139A5:129, 196; 7:339; 8:477;
139B43:688; 143A9:333; 146A(1)4:86; 5:189;
6:270; 150A6:103; 7:172; 8:236; 9:290; 10:333;
155A6:112; 7:149–150; 8:192; 9:219; 10:261;
11:296; 12:354; 13:402; 14:426; 15:456; 16:481;
17:528; 18:558; 19:585; 20:615; 21:651; 22:677;
155B30:498–501, 512; 161A5:261; 7:333; 9:412;
162A3:80–81; 4:119; 5:162; 6:196; 7:248; 8:281;
9:318; 10:374; 164A6:131; 7:203; 9:303;
164B15:157; 165A3:75; 5:257; 7:372;
165B19:294; 166A6:94; 7:163; 8:189; 10:314;
166B17:189; 167A(1)4:79–80; 5:110–111; 6:148;
7:170; 8:204; 9:232; 10:265; 11:302; 12:339;
13:371; 14:414; 15:447, 456; 16:480;
167B32:349; 169B1:11; 169S_A2:54, 57;
172A3:62; 4:136; 5:226; 6:285; 174A_A3:75;
4:126; 5:173; 175A3:79; 4:107; 5:134; 6:170;
7:192; 8:216; 9:260; 10:300; 11:331; 12:371;
13:416; 14:450; 15:479; 17:512; 20:550, 552;
177A1:48; 3:33; 4:48; 5:51; 6:43; 7:34; 8:50;
9:41; 178A4:77; 5:70; 6:49; 7:52–53; 8:47;
181A3:54; 4:40; 5:46; 6:73; 7:93–94; 8:75; 9:49;
182A5:46; 184A4:59; 5:57; 6:38; 7:56; 8:23;
9:68; 185A4:113; 188A3:125; 4:77; 5:65;
190A4:64; 198A3:94; 4:62; 5:65; 6:58; 7:54;
8:51; 202A3:36; 4:48; 5:42; 6:47; 7:55; 8:67;
9:63; 10:58; 11:53; 12:63; 13:51; 204A3:59; 4:61;
5:28; 6:39; 7:36; 8:48; 9:46; 10:52; 11:35;
204B16:20; 205B6:20
water-rock reactions, 168A4:84–85
Yaquina Basin, 112A15:447, 463, 467
yttrium enrichment, 125B12:222–223, 225
See also collophane; D-phosphate; F-phosphate; fluo-
rapatite; hardgrounds; marl; monazite; nodules;
phosphatization; phosphorites; phosphorus;
potassium oxide/phosphate ratio; struvite; vivi-
anite
phosphate, authigenic, Peru margin, 112A1:17
phosphate, dense
cements, 112B8:129
characteristics, 112B8:119–120
conglomerate, 112B8:126
hardgrounds, 112B8:120, 122
land stratigraphic sequences, 112B8:124
Lima Basin S, 112A19:808; 112B8:124
oxygen requirements, 112B8:129
Peru margin, 112A2:34; 20:881–882; 112B8:114, 124
petrography, 112B8:120–127
Pisco Basin W, 112A18:708–709, 712–713
Salaverry Basin, 112A12:254, 258–259; 13:310–311;
112B8:124–125, 127
sedimentation rates, 112B8:126
Trujillo Basin, 112A16:531; 112B8:122
phosphate, dissolved
pore water, 201A1:34; 6:17; 7:16; 8:17; 9:14; 10:14–
15; 11:13; 12:14
vs. depth, 201A6:44; 7:48; 8:37, 39; 9:38; 10:40;
11:49; 12:34
phosphate, friable
characteristics, 112B8:114
diagenetic origin, 112B8:114
diatomaceous mud, 112B8:115
energy level variables, 112B8:126
Lima Basin, 112A19:808; 112B8:115
origin and distribution, 112B8:114–116
oxygen requirements, 112B8:129

- Peru margin, 112A1:17; 2:34; 20:881; 112B8:113
petrography, 112B8:114
Pisco Basin W, 112A18:709, 711–712; 112B8:115
Salaverry Basin, 112A12:254, 258; 13:310–311
Site 680, 112B8:115
slump folds, 112B8:114
Trujillo Basin, 112A16:531, 536
phosphate, interstitial, vs. depth, 202A1:107
phosphate, nodular, 112A1:17
phosphate, peloid
 coated grains, 112B8:116, 121
 depositional process, 112B8:117–119
 intraclasts, 112B8:116–117
 origin, 112B8:117
 Peru margin, 112B8:113, 116
 petrography, 112B8:116–117
 Site 680, 112B8:121
 Trujillo Basin, 112A16:563; 112B8:115, 127–128
phosphate, sea-surface
 site locations, 202A1:76–78; 7:27; 8:34; 9:33; 10:32;
 11:28; 12:29; 13:25
 vs. age, 202A1:97–101
phosphate beds, lithology, 174AXS_A5:33–34; 6:28–29
phosphate/calcium ratio, vs. depth, 144A6:234
phosphate caps, lithology, 194A8:9
phosphate crust
 photograph, 194A5:40; 8:29; 9:34
 photomicrograph, 194A8:30
phosphate debris, Coniacian–Eocene, 159B12:117–119
phosphate grains
 lithology, 174AXS_A1:22–23; 175A14:434
 photomicrograph, 210A3:171
phosphate laminae
 lithology, 194A5:4
 photomicrograph, 194A9:35
phosphate layers, lithology, 210A3:52
phosphate lenses, photograph, 207A4:45
phosphate/magnesium oxide ratio, apatite saturation,
 118B4:99
phosphate nodules. *See* nodules, phosphate
phosphate pebbles. *See* pebbles, phosphate
phosphate/silica ratio, volcanic ash, 125B15:289
phosphate stringers, photograph, 207A7:47
phosphate/yttrium ratio, basement, 126B27:426
phosphate/zirconium ratio, trapped melt, 118B4:79
phosphatic material, Miocene, 160B33:423
phosphatic sand. *See* sand, phosphatic
phosphatic silt. *See* silt, phosphatic
phosphatidylmethylethanolamine, sediments, 207B12:4
phosphatization
 atolls, 144B14:285
 Cagayan Ridge, 124A6:94
 conglomerate, 144B44:749–750; 52:924
 guyots, 144B5:115–116; 22:424; 53:947
 hardgrounds, 133A(1):5:170; 133B36:532–533;
 144B22:419–428
 limestone, 144B41:680–684
 lithology, 133A(1):6:182
 sedimentation, 143A8:288
 Site 688, 112A20:883
 Sulu Sea, 124A6:94
 phosphatization, penetrative, sediments, 143B13:200–
 201, 208
 phospholipid fatty acids. *See* fatty acids, phospholipid;
 phospholipids
 phospholipids
 microbial biomass, 169B3:1–19
 sediments, 207B12:4
 vs. glycolipids, 207B12:9
 See also phosphatidylmethylethanolamine
phosphorites
 concretions, 117A14:448
 depositional environment, 113B6:76–77; 143B31:527
 distribution, 117A14:462
 East Australian margin, 112B8:114
 formation, 112A12:255–256
 hardgrounds, 144B22:421
 Lima Basin, 112B22:372
 Oman margin, 117A14:459
 Permian, 112B8:130
 Peru margin, 112A6:99; 20:897
 precipitation, 175A16:494–485
 Salaverry Basin, 112A13:312, 328
 seismic reflectors, 175A16:500
 Site 680, 112B22:374, 376, 383–386
 Site 681, 112B22:376
 Site 728, 117A16:530
 upwelling zones, 112B8:111–131
 See also phosphate; phosphorus
phosphorus
 abundance, 127/128B(1):2:36; 130A5:149
 allochthonous particles, 127/128B(1):5:64, 67–68, 73
 basalts, 120B(1):3:56; 163A4:40; 195A4:22
 basement, 126B27:407, 419
 bulk rock vs. diabase, 118B26:484–485
 bulk sediments, 199A8:17; 9:11; 10:18; 11:27; 12:27;
 13:23
 diabases, 180B1:5
 diagenetic sequence, 127/128B(1):2:39
 electron microprobe data, 127/128B(1):5:64–67
 felsic rocks, 183A7:41
 gabbros, 176B8:3–4
 gas hydrates, 167B32:354
 geochemistry, 127/128B(1):5:64–65; 138B36:757–767
 hardgrounds, 144B22:423–424
 hydrothermal alteration, 135B43:695–697; 206A3:71
 hydrothermal sediments, 199B15:3
 immobility, 169A3:99
 inorganic sediments, 154B36:509–516
 Japan Sea, 127/128B(1):5:68–69; 78:1237
 jasperoids, 193B9:5
 lava flows, 197A3:21–22
 lithology, 183A1:33; 207B8:10
 mass balance, 169A3:98
 metasedimentary rocks, 152B10:135
 mobility, 183B15:9–10
 organic carbon decomposition, 127/128B(2):79:1262
 organic matter, 155B31:505–517
 organic phosphorus/inorganic phosphorus ratio, 127/
 128B(1):5:71
 Paleocene/Eocene boundary, 199A1:85; 13:24; 14:20;
 199B16:3; 22:1–23

- particulates, 202B1:4
- pelagic sources, 127/128B(1)2:36
- peloidal sources, 127/128B(1)2:36
- pore water, 117B30:510; 127/128B(1)2:36–38; 5:64–66; 34:607; (2)79:1264
- pristine state, 127/128B(1)5:63–64, 73
- sand, 134A10:278
- sedimentation rates, 127/128B(1)5:67
- sediments, 129B2:47, 50; 146B(1)26:388–389; 154B32:475–481; 167B13:195–202; 171B_B1:1–10; 4:4–5; 189B12:2–3, 7–12; 195A4:36
- shore-based flux vs. shore-based microwave acid digestion, 206B3:12–13
- siliceous deposits, 127/128B(1)5:64; 129B2:41; 198B17:28
- Site 794, 127A4:108
- Site 795, 127A5:205
- Site 796, 127A6:279–280
- Site 797, 127A7:362, 368
- Site 798, 127/128B(1)5:63–74; 128A4:173, 181
- Site 799, 127/128B(1)2:36–38, 47; 5:63–74; 34:610; 128A5:317–318, 328
- total oxide values, 127/128B(1)5:65
- volcanic rocks, 183B17:2
- vs. age, 138B36:761; 154B32:480; 199A1:69
- vs. calcium, 199B14:16
- vs. calcium carbonate, 123A4:156–157
- vs. depth, 154A4:104; 156B13:179, 181; 168A4:83; 5:144; 171B_B4:8, 13; 177B1:4; 189B12:5; 199A8:36; 9:27; 10:40; 11:65; 12:70; 13:54, 56; 14:39, 41; 199B15:6; 16:7; 22:16
- vs. gadolinium, 144B44:758
- vs. iron, 199B14:16
- vs. magnesium oxide, 157B23:406
- vs. manganese, 199B14:16
- vs. neodymium, 199B14:16
- vs. sulfur and chlorine, 144B22:422
- vs. volatiles, 157B23:407
- vs. zirconium, 197A3:94; 4:71
- water circulation, 160A4:57
- X-ray fluorescence data, 127/128B(1)5:64–65
- See also* barium/phosphorus ratio; manganese/phosphorus ratio; potassium/phosphorus ratio silica/phosphorus ratio
- phosphorus, absorbed, sediments, 138B36:759–760
- phosphorus, authigenic
 - green clay, 184B15:4–5, 20–21
 - vs. age, 154B32:481
 - vs. depth, 202B8:12
- phosphorus, authigenic biogenic, 138B36:760–761
- phosphorus, calcium carbonate-free detrital, 199B22:19
- phosphorus, calcium carbonate-free reactive, 199B22:19
- phosphorus, detrital
 - green clay, 184B15:4–5
 - sediments, 138B36:761–762
 - vs. depth, 199B22:18, 23
- phosphorus, iron-bound
 - green clay, 184B15:4–5, 20–21
 - sediments, 138B36:760
- phosphorus, organic
 - sediments, 138B36:762
- See* carbon, organic/organic phosphorus ratio; nitrogen, total/organic phosphorus ratio
- phosphorus, organic-bound, green clay, 184B15:4–5
- phosphorus, reactive
 - vs. calcium carbonate, 154B32:481
 - vs. depth, 199B22:18, 23; 202B8:16
 - vs. sedimentation rates, 154B32:481
- phosphorus, reactive/excess barium ratio, 202B8:16
- phosphorus, shipboard, sediments, 199B22:22
- phosphorus, solid-phase, vs. depth, 155B31:510
- phosphorus, total
 - sediments, 138B36:762
 - vs. depth, 155B31:508
- phosphorus/aluminum ratio
 - biomediation, 184B12:9–10
 - inorganic sediments, 154B36:515–516
 - Oman margin N, 117B23:418–419; 24:441
 - Owen Ridge sites, 117B24:436
 - Pleistocene, 181B1:28
 - productivity, 117B24:432, 434–435
 - sediments, 171B_B4:5
 - Site 722, 117B23:418–419
 - spectral analysis, 154B36:522, 524, 526
 - vs. age, 177B(synthesis):40; 181B1:28; 9:5; 184B12:23
 - vs. depth, 177B1:5
- phosphorus/cerium ratio, alkalic basalts, 129B19:374
- phosphorus component, sediments, 202B8:18
- phosphorus/neodymium ratio, intersite differences, 121B32:637
- phosphorus oxide
 - alteration, 187B5:10; 200A3:31–32
 - basalts, 139A5:137–138; 169A3:95; 183A5:35; 195A1:59; 4:114; 196A3:32, 96
 - basement, 183A6:48; 7:132; 8:18; 9:27–29
 - carbonates, 160B35:448
 - clay minerals, 169B6:6, 23
 - electron microprobe data, 148B14:210
 - experimental liquids, 152B30:366
 - felsic rocks, 183A7:41
 - fine-grained sediments, 210B8:14
 - gabbro, 170A3:78; 176B3:4; 6:18; 8:4–14; 179A2:5; 4:45–47; 179B(synthesis):14; 2:17
 - geochemistry, 138A(2)15:838
 - ignited sediments, 138A(2)15:846–847
 - limestone, 143B13:210, 213, 220
 - lithology, 183A4:19; 7:39; 210A3:54
 - lower Campanian–upper Paleocene, 210B8:10
 - microbial pits, 148B14:212
 - mineral separates, 158B2:29; 7:94
 - oxide gabbros, 179A4:41
 - sediments, 151A11:367; 167B25:285–288; 170A3:77; 172B5:22; 180B6:7, 11, 15
 - serpentinites, 149B30:520, 522
 - sulfides and sediments, 158B3:43
 - tektites, 150B13:248–250, 253–258
 - upper Paleocene–middle Eocene, 210B8:12
 - volcanics, 161B27:364–369; 201B19:11; 203B2:4–6
 - volcaniclastics, 134B9:164
 - vs. alteration percentage, 137/140B6:70
 - vs. depth, 134B8:113, 117–118, 124–126; 135B7:116; 138A(2)15:857; 139A6:223, 225; 8:515–518;

- 139B11:228–250; 148A2:60; 148B2:18; 10:136;
 34:422; 35:440; 149B30:523; 151A5:86;
 151B19:358; 154B36:519–521, 523, 525;
 167B25:285; 168A6:180; 169A3:97; 170A3:81;
 176B(synthesis):60; 6:45; 179A4:123; 179B2:45;
 183A5:121; 6:133; 8:65; 9:93206A1:82; 3:195;
 210B8:46
 vs. iron oxide, 203B2:20
 vs. lanthanum/ytterbium ratio, 153B10:233
 vs. loss on ignition, 148B10:139
 vs. magnesium number, 147B1:10; 148A2:59;
 168A4:71; 5:125, 139; 179B2:50; 183A6:134;
 8:64
 vs. magnesium oxide, 137/140B4:45; 157B16:282–
 283; 163B9:102, 106; 183A9:94; 197A3:97;
 206A1:88; 3:199
 vs. manganese oxide, 151A5:86
 vs. niobium/zirconium ratio, 183A9:96
 vs. silica, 134B19:384; 151A5:81; 151B19:357;
 152B2:23; 157A7:362; 157B13:192; 183A7:41,
 137; 201B19:27, 29
 vs. titanium oxide, 153A5:195
 vs. uranium, 148B10:142
 vs. yttrium, 135B43:701
 vs. zirconium, 153B17:347; 157B12:169, 171
 zircon, 176B9:13–14
 See also titanium oxide-potassium oxide-phosphorus
 oxide system
 phosphorus oxide/aluminum oxide ratio
 sediment alteration, 185A4:31
 vs. depth, 131B35:442; 185A4:120
 phosphorus oxide/titanium oxide ratio
 vs. magnesium oxide, 157B22:385
 vs. silica, 157B22:385
 phosphorus oxide/yttrium ratio, sediments, 135B43:706
 phosphorus/titanium ratio, basalts, 121B30:577
 phosphorus/zirconium ratio
 basalts, 121B30:568–570, 577
 basement, 126B27:416
 photic zone
 divergence, 138B25:576
 evolution, 133B17:247–248
 organic matter, 160B3:34; 23:285–295
 Zanclean, 160B9:120
 See also anoxia
 photoautotrophic green sulfur bacteria, biomarkers,
 207A10:7
 photoautotrophs, sapropels, 160B23:289
Photobacterium profundum, cultivation, 201B1:16; 3:5
Photobacterium spp.
 cultured isolates, 201B1:16; 2:9
 enrichment, 201B3:8
 photoelectric absorption index logs, vs. depth,
 139A7:405; 166A6:101; 8:197, 199; 9:259;
 166B15:160, 162
 photoelectric effect logs (PEF)
 Atlantis Bank, 118B15:271–272
 carbonate content, 167A(1)8:196–198; 207A5:83
 clay lithology, 172A5:242
 décollement zone, 171A_A5:69
 density, 171A_A3:32; 4:47; 5:66; 6:86; 7:100
 diamictites, 119B14:281
 factor logs, 171A_A3:22, 26
 gabbros, 179A4:63–64
 gamma ray logs, 196A4:17, 43
 geochemical logs, 136B13:154–155
 gouge, 161B25:334
 igneous rocks, 209A10:40
 Lima Basin, 112A11:192, 196–197
 lithology, 170A3:87–88; 173A3:51–61; 207A5:38
 logging-while-drilling, 204A1:90–93; 4:92; 6:64; 9:70;
 10:85
 magnesium and sodium, 127/128B(2)88:1395;
 89:1415
 measured vs. calculated logs, 123B35:637
 predicted vs. actual logs, 126A2:41
 quartz, 135B40:657
 sediments, 170A4:151
 Site 722, 117A10:292
 Site 723, 117A11:367; 11:368
 Site 738, 119B14:277
 Site 765, 123A4:218–219
 Sites 672 and 1048 comparison, 171A_A7:103
 Sites 676 and 1047 comparison, 171A_A6:87
 spinels, 135B34:592–593
 Sulu Sea, 124A11:269–273
 vs. depth, 149A6:199; 154A4:129, 132; 155A9:227;
 12:366; 156A6:115; 157A6:177–178; 7:379;
 159A5:118; 6:202; 161A4:101–102; 5:162–163;
 6:267–268, 274, 276; 7:338–341, 345; 9:417–
 418; 160A6:146–148; 7:203–205, 208–210;
 8:264–266; 9:325–326; 11:404–408; 12:447;
 161B24:322; 162A4:125; 6:204; 165A3:92;
 4:192; 5:272; 6:338; 167A(1)8:210; 14:420;
 168A6:205–206; 170A3:48, 86; 4:98; 5:143;
 7:217, 241; 171A_A3:24, 32, 51; 4:43, 49; 5:56,
 59, 71; 6:79, 82, 88, 90; 7:95, 98, 104;
 171B_A4:165; 5:234; 6:313; 172A6:300;
 173A4:97; 7:214; 8:261; 174A_A4:139–140;
 5:186; 176A3:233–234; 178A5:84; 9:67;
 179A4:156; 180A1:71; 6:186–189, 194–200;
 8:101–102; 9:135–138; 12:137–141; 181A3:66;
 7:106, 111; 8:83; 182A4:75–76; 6:79; 7:61; 8:62;
 9:53; 12:51; 183A5:159; 8:92; 184A1:75; 4:78;
 5:72; 7:69; 9:84–85; 188A3:161, 163, 190; 4:90;
 5:82; 189A3:110; 5:106; 6:118, 124; 7:97;
 190A4:81; 193A3:256; 4:217, 226; 194A5:76, 80;
 7:105; 195A4:154; 196A3:50, 54; 198A3:109;
 9:86–87; 199A12:90; 204A3:93; 4:89, 92; 5:51,
 53; 6:61–62, 64; 7:58; 8:72; 9:70, 72; 10:82–83,
 85; 11:48, 51; 205A4:161; 206A3:322; 207A4:72;
 5:79–81, 83; 7:71–72, 75–77; 8:69, 72–73;
 208A4:62; 6:76; 209A7:34, 112; 10:148
 vs. gamma ray logs, 155A9:227; 173A8:51; 196A3:20,
 49
 vs. potassium logs, 172A5:245; 6:302; 178A5:85; 9:68
 vs. spherically focused resistivity logs, 180B25:110
 vs. thorium/potassium ratio logs, 174A_A4:150
 well-logging, 125A14:335; 134A10:291
 photosynthesis, sediments, 154B35:505
 phototrophic dinoflagellates. See dinoflagellates, pho-
 totrophic

- phreatomagmatic eruptions
 petrology, 144B29:500–502
 submarine sources, 127/128B(1)8:119, 123–126
Phycoides, lithology, 171B_A3:55; 5:180–181; 6:253, 257
 Phycosiphon
 lithology, 178A4:6; 7:7; 191A4:11, 13–14
 photograph, 178A7:40
 sediments, 116B2:15–17, 19–21; 3:29–30
 turbidites, 139B7:107–108
 phyllites
 lithology, 180A5:13; 7:9–10
 petrography, 161B3:41
 photomicrograph, 210A3:223
 phyllites, calcareous, Sardinian margin, 107A8:418
 phyllosilicates
 alteration, 136B11:134–135; 148B34:427–428;
 176B1:4–5; 185A3:19–23; 192A6:19
 basement, 206B8:1–16
 brown sheet phases, 119B16:301–302
 characteristics, 148B11:156
 chemical composition, 119B16:305–306, 308, 313;
 176B1:10
 deformation, 131B11:141
 electron micrograph, 170B3:20
 electron microprobe data, 176B1:15–22
 fabric, 131B7:93
 geochemistry, 136B10:126–127; 206B7:2–3
 hydrothermal alteration, 137/140B14:158; 18:207–
 216; 139B12:298–302; 158A10:193;
 158B18:239–241
 hydrothermal circulation, 169A1:7–8
 metamorphism, 152B34:420–423; 40:489–490
 metasediments, 173A8:247–249
 photograph, 158A10:196, 200–201; 206A3:234
 photomicrograph, 206A3:209, 221, 239–240, 246–247
 secondary minerals, 137/140B14:158–159; 142B9:71–
 74
 Sulu Sea, 124B13:183–184
 transmission electron microscopy, 147B12:244
 turbidites, 168A5:111–112; 6:169
 Tyrrhenian Sea, 107B3:44
 veins, 148B18:268–270, 273–274
 vs. clay, 161B4:63, 65
 vs. depth, 168A4:61; 5:112; 6:170
 X-ray diffraction data, 147B13:240; 198B16:5
See also beidellite-nontronite series; berthierine; bio-
 tite; celadonite; chamosite; clay minerals; clays;
 clinocllore; corrensite; garnierite; hectorite; id-
 dingsite; illite; lizardite; loughlinite; micas;
 muscovite; nontronite; palygorskite; parago-
 nite; penninite; phengite; phlogopite; prehnite;
 ripidolite; sepiolite; smectite; stilpnomelane;
 vermiculite
 phyllosilicates, celadonitic, geochemistry, 206B7:2–3, 5–
 11
 phyllosilicates, saponitic, geochemistry, 206B7:2–3, 11
 phyllosilicates, secondary
 alkalic diabases and basalts, 129B17:321–322
 alteration, 129B19:369
 composition, 148B10:125
 electron microprobe data, 129B22:420
 geochemistry, 129B5:141
 nucleation sites, 129B17:306–307
 secondary minerals, 129B22:419
 tholeiitic basalts, 129B17:323
 phyllosilicates, sodium-rich, alteration, 158B1:14
 phyllosilicates/feldspar ratio, turbidites, 168A4:57–60,
 5:111
 phylogeny
 Archaea, 201B3:15
 cultured isolates, 201B2:8–9, 17
 isolates, 201B3:13
 microbial populations, 187B6:6–8, 14–19
 ribosomal ribonucleic acid (16S), 201B3:15–16
 phylogenetic sequences, microbial pits, 148B14:212
 phyrlic texture. *See* textures, phyrlic
 physical features, volcanic oceanic plateaus, 192A1:4–6
 physical logs
 Site 907, 151A5:104
 vs. depth, 151A7:206; 8:259; 9:303
 physical properties
 accreted sediments, 131B18:222–223
 acoustic basement, 173A7:210–211
 age models, 178B32:6
 alteration, 192B7:1–33
 angular unconformities, 121B13:264
 Arctic Gateways, 151B34:595–626
 Atlantic Ocean E tropical, 108A2:47–52; 3:127–129;
 4:236–237, 242–244; 5:344, 347–349; 6:423–
 426; 7:499–502; 8:566–569; 9:629, 636–639;
 108B15:262–277; 23:400–404
 Atlantis Bank, 118A6:158–162; 118B11:227–237
 average, 139A5:152; 191A4:154
 basalts, 129B27:485–499; 142B7:52; 148B29:376;
 163B2:20–24; 3:29–35; 168A4:94; 200A1:15–16;
 203A1:26; 3:65; 206A1:34; 3:388
 basement, 123A4:203–206, 210–211; 127A1:26;
 4:135; 5:227–228; 7:389; 127/128B(2)80:1282–
 1284, 1289–1291; 128A3:102; 206A3:87–90
 basin and rise sites, 127/128B(2)80:1275–1296
 Broken Ridge, 121A2:57–59
 bulk samples, 186B15:31–36
 changes, 190A1:32–34; 190/196B7:3–5
 compaction, 121B12:253–254, 256–258
 computed X-ray tomography, 131B10:135–140
 consolidation, 127/128B(2)71:1123–1133
 core-log correlation, 102B3:34, 37; 116B30:369–374;
 121B12:257; 154A6:266–267; 7:325–326; 8:380–
 381; 167A(1)5:110; 8:197–198; 10:265–266;
 171B_A5:225–226; 6:301–302; 174A_A4:144–
 146; 185B8:2–3
 cores, 175B(synthesis):99; 177A1:24–25; 178B32:4–5;
 180A6:69; 182A8:27; 190A4:29; 194A3:18–22;
 4:24–27; 5:19–22; 6:16–21; 7:27–31; 8:19–22;
 9:19–21; 196A3:29–30; 201A4:4; 204A4:78;
 5:42; 210B14:6–9, 11–16
 corrected analyses, 127/128B(2)63:985–1015
 correlation, 160A4:73; 5:118; 6:139, 141; 8:254–255,
 263; 9:317; 13:461; 14:488–489; 160B48:625–
 643; 199A1:38; 12:4; 204B8:7
 Costa Rica margin, 205B1:24–25
 crust, 136B14:161–164

- crystalline rocks, 118A6:158–161
 cyclicity, 112A18:731; 150B20:366–367
 data discrepancies, 123B23:454
 data quality, 127A4:127; 5:220–222; 6:289–290;
 7:382–383; 127/128B(2)63:987–988
 décollement zone, 190/196B12:1–18
 Demerara Rise, 207A1:47–48
 depositional processes, 126B36:544–548
 diagenesis, 150B20:361–376
 diatoms, 127A5:222
 dipping and truncated sequences, 121A13:497–498
 dolomitization, 112B41:628–629
 drilling, 168A1:19–20
 error identification, 127/128B(2)63:985–986
 gabbros, 118A4:73–75; 147B29:478; 153A5:212
 gas hydrates, 141B18:251–252; 164B1:8; 201A11:38;
 204A7:17–18; 8:19–20
 geotechnical units, 162A7:248–252; 9:321; 10:375
 grain size, 141B6:91–93; 190/196B8:1–25
 high-resolution mineralogy, 199B11:1–23
 hydrothermal fields, 158A1:10–11
 igneous rocks, 123A15:325–328; 16:344; 147B25:428
 insolation signal, 178B32:5
 interbedded basement/sediments, 127A7:394; 127/
 128B(2)80:1283–1284
 interhole correlation, 121A2:505
 Japan Sea, 127A1:25–26; 128A1:33
 laboratory measurements, 130B36:610–619
 Lau Basin, 135A(1)1:40–41
 lava flows, 163B4:41–49; 206B1:8–9
 life cycles, 154B9:157–168
 lithification, 121B13:267–268
 lithology, 118A6:162; 121A6:139, 141, 147–148;
 8:216, 219; 10:287–288, 291; 11:337, 339, 343–
 344; 12:402–404; 121B12:256; 13:264–266;
 123A4:165, 169, 248; 5:307–309, 313, 326, 344;
 127A4:127–135; 5:222–227; 6:290–295; 7:383–
 389; 127/128B(2)72:1143; 128A4:182; 5:327–
 329; 129A1:19–21; 4:210–211; 129B27:487;
 159B23:241–249; 201A6:29–31; 11:30;
 202A11:7–10; 12:6–10
 mass accumulation rates, 173B4:29
 mass transport deposits, 155B6:130–133
 massive sulfides, 139B45:721–724
 microfabric, 120B(1)13:180; 185B9:6
 mixed sediments, 165B10:180
 mud and sand, 168A4:94; 6:193
 Nankai accretionary prism, 131A7:284
 near-surface sediments, 204B8:1–29
 Ninetyeast Ridge, 121A2:57–59
 oceanic crust, 148B28:365–374
 oceanic plateaus, 130B3:35–40
 Ontong Java Plateau, 130A2:38–40; 10:528, 530
 opal, 121B12:257; 13:268; 127/128B(1)1:10–18, 25–
 27; 23:400; (2)73:1145; 80:1277–1278, 1281–
 1282; 81:1305
 Pacific Ocean E, 138B24:539
 paleoceanography, 172B(overview):3–4
 pelagic caps, 121A13:495–497, 121B12:254, 264
 permeability, 127/128B(2)71:1123–1133
 Pliocene–Pleistocene interval, 159B41:562–563
 pore water, 201A1:34
 principal results, 188A1:15
 quartz, 127/128B(1)1:25–27
 repressurized sediments, 204B26:1–19
 sedimentary overburden, 206A3:46–49
 sediments, 130B38:641–652; 131A7:278; 131B20:250–
 251; 21:265–268; 134B29:511–530;
 135B48:787–795; 49:798; 139B35:565–566;
 141B33:407–416; 145B35:525–527;
 146A(2)2:39–44; 146B(1)16:275–280; 23:359–
 366; (2)11:145–168; 151A13:406–407;
 154B7:135–149; 155B27:449; 164A1:7–8;
 164B40:421–429; 168A5:152; 168B6:67–84;
 169B7:1–19; 177A1:17; 180B(synthesis):14;
 182A1:15–16; 186A1:10–11; 191B1:2;
 195A3:164, 167–168
 seismic data, 156B23:293–302; 204A8:60; 9:18–19, 34,
 58; 10:44, 71; 11:45; 204B1:33
 serpentines, 125B1:8; 195A1:13
 shipboard measurements, 129B29:512
 shore-based experiments, 169B7:14
 Sierra Leone Rise, 108A10:752, 755–756; 11:801, 803–
 804; 12:847–848, 850–853; 13:937
 silica diagenesis, 127/128B(1)1:3–31; 80:1281–1282;
 128A4:280
 Site 504, 137A2:29–31; 140A2:106, 108–109, 125;
 148A2:71–73
 Site 735, 176A1:24–25; 3:77–81, 302; 176B2:1–19
 Site 747, 120A6:120, 150
 Site 748, 120A7:176, 213, 228–229
 Site 749, 120A8:263, 273
 Site 750, 120A9:316
 Site 751, 120A10:359
 Site 752, 121A6:138–150
 Site 753, 121A7:181–185
 Site 754, 121A8:191, 216–219, 222, 227
 Site 755, 121A9:250–253
 Site 756, 121A10:287–292
 Site 757, 121A11:337–347
 Site 758, 121A12:402–408, 425–426, 429–431;
 121B35:704
 Site 765, 123A4:164, 168–169; 123B25:494–496
 Site 766, 123A5:270, 307–313, 344; 123B25:494–496
 Site 778, 125A6:108–109, 114
 Site 779, 125A7:130–132, 141–143
 Site 780, 125A8:167–172
 Site 781, 125A9:191–193, 195
 Site 782, 125A10:213, 222–228
 Site 783, 125A11:266
 Site 784, 125A12:293, 295–301
 Site 785, 125A14:311–312
 Site 786, 125A14:333–335, 339–345
 Site 787, 126A5:88–94
 Site 788, 126A6:122–123, 125; 126B36:544–549
 Site 790, 126A7:188–202
 Site 791, 126A7:188–202; 126B36:544–549
 Site 792, 126A8:223, 271, 276, 278–286; 126B36:544,
 549
 Site 793, 126A20:316, 379–388; 126B37:544–549
 Site 794, 127A4:73, 127–136, 138–140; 128A3:102
 Site 795, 127A5:174, 220, 231

- Site 796, 127A6:251, 289–297; 127/128B(2)80:1275
Site 797, 127A7:325, 382, 392–393, 395
Site 798, 128A1:33; 4:180
Site 799, 127/128B(2)72:1137–1140; 128A1:33; 5:324
Site 800, 129A2:60–65
Site 801, 129A3:124–129; 185A3:35–38
Site 802, 129A4:207–214
Site 803, 130A5:139–146
Site 804, 130A6:202–207
Site 805, 130A7:256–260
Site 806, 130A8:326–329
Site 807, 130A9:420, 425–428, 456
Site 808, 131A6:159–170; 196A1:10; 4:3
Site 809, 132A3:61–63
Site 811, 133A(1)4:108–109, 117, 118, 120–125
Site 812, 133A(1)5:157–158
Site 813, 133A(1)6:193–195
Site 814, 133A(1)7:219–222
Site 815, 133A(1)8:269, 271–272
Site 816, 133A(1)9:318–321, 328–329
Site 817, 133A(1)10:371–373
Site 818, 133A(1)11:433–440
Site 819, 133A(1)12:469–473
Site 820, 133A(1)13:527, 531
Site 821, 133A(1)14:587–588
Site 822, 133A(1)15:641–642
Site 823, 133A(1)16:715, 717
Site 824, 133A(1)17:785
Site 825, 133A(1)4:109, 126–127
Site 827, 134A7:118–122
Site 828, 134A8:161–165
Site 829, 134A9:218–223
Site 830, 134A10:284–286
Site 831, 134A11:347–350
Site 832, 134A12:425–431
Site 833, 134A13:515–518
Site 834, 135A(1)4:150–159
Site 835, 135A(1)5:224, 226–230, 232–234
Site 836, 135A(1)6:274–277
Site 837, 135A(1)7:324–329
Site 838, 135A(1)8:371–379
Site 839, 135A(1)9:448–455
Site 840, 135A(1)10:538–539, 541–549
Site 841, 135A(1)11:650–655
Site 842, 136A4:56–59
Site 843, 136A5:71, 74–76
Site 844, 138A(1)9:153, 156
Site 845, 138A(1)10:230–232
Site 846, 138A(1)11:304–307
Site 847, 138A(1)12:359–362
Site 848, 138A(2)13:704–705
Site 849, 138A(2)14:754, 756
Site 850, 138A(2)15:843–844
Site 851, 138A(2)16:922–924, 926
Site 852, 138A(2)17:997–999
Site 853, 138A(2)18:1042, 1044–1045
Site 854, 138A(2)19:1083–1085
Site 855, 139A5:140, 142–144
Site 856, 139A6:238–247
Site 857, 139A7:348–359
Site 858, 139A7:513–523
Site 859, 141A6:118–119, 121–126
Site 860, 141A7:211–215
Site 861, 141A8:275–276, 278–280
Site 862, 141A9:331–335
Site 863, 141A10:401, 403–404
Site 864, 142A4:63–64
Site 865, 143A6:143–144, 146–147
Site 866, 143A7:227–237
Site 869, 143A9:332–334, 336–337
Site 871, 144A3:74–75, 77
Site 872, 144A4:135–137
Site 873, 144A5:185–188
Site 874, 144A6:236–238
Site 877, 144A8:308–309
Site 878, 144A10:374–377
Site 879, 144A11:430–432
Site 880, 144A12:446–448
Site 881, 145A3:55
Site 882, 145A4:99
Site 883, 145A5:154–155, 161
Site 884, 145A6:242–245, 247, 249
Site 887, 145A8:357–359, 367
Site 888, 146A(1)4:86–91
Site 889, 146A(1)5:191–194
Site 890, 146A(1)5:191, 193–194
Site 891, 146A(1)6:273–277
Site 892, 146A(1)7:346–349
Site 894, 147A3:98–102
Site 895, 147A4:150–157
Site 896, 148A3:161–168
Site 897, 149A4:100–105
Site 898, 149A5:137–141
Site 899, 149A6:192–197
Site 900, 149A7:245–253
Site 902, 150A6:101–104
Site 903, 150A7:173–178
Site 904, 150A8:235–239
Site 905, 150A9:291–293
Site 906, 150A10:334–336
Site 907, 151A5:86–92
Site 908, 151A6:136–139
Site 909, 151A7:194–200
Site 910, 151A8:243–255
Site 911, 151A9:291–297
Site 912, 151A10:336–343
Site 913, 151A11:372–382
Site 914, 152A6:67–70
Site 915, 152A7:83–87
Site 916, 152A8:101–105
Site 917, 152A9:140–145
Site 918, 152A11:237–249
Site 919, 152A12:272–276
Site 920, 153A3:111–115
Site 921, 153A4:171–176
Site 922, 153A5:211–215
Site 923, 153A6:254–257
Site 924, 153A7:272–274
Site 925, 154A4:98–117, 124–128
Site 926, 154A5:189–206
Site 927, 154A6:251–255, 259
Site 928, 154A7:308–319

Site 929, 154A8:363-365, 367-369, 371-380
Site 930, 155A6:108-110
Site 931, 155A7:141, 144-146, 148
Site 932, 155A8:193-195
Site 933, 155A9:219-222
Site 934, 155A10:261-262
Site 935, 155A11:297-302
Site 936, 155A12:350-352, 354
Site 937, 155A13:400-402
Site 938, 155A14:426-429
Site 939, 155A15:453-454
Site 940, 155A16:479, 481-482
Site 941, 155A17:521-522, 524; 155B28:468
Site 942, 155A18:559-561
Site 943, 155A19:584-586
Site 944, 155A20:612, 614
Site 945, 155A21:651-653
Site 946, 155A22:675-679
Site 950, 157A4:80-81
Site 951, 157A5:126-131
Site 952, 157A6:157-160
Site 953, 157A7:359, 362-363
Site 954, 157A8:420-422
Site 955, 157A9:461-464
Site 956, 157A10:525, 527-530
Site 957, 158A7:114-120
Site 959, 159A5:112-116; 159B21:212; 23:241-249
Site 960, 159A6:195-200
Site 961, 159A7:245-247
Site 962, 159A8:286-290
Site 963, 160A4:71-73; 5:117-118
Site 965, 160A6:137-141
Site 966, 160A7:190-192
Site 967, 160A8:252, 254-255
Site 968, 160A9:313-314, 316-317
Site 969, 160A10:371-373
Site 970, 160A11:396-397
Site 971, 160A12:439, 441-444
Site 972, 160A13:460-461
Site 973, 160A14:487-489
Site 974, 161A4:89-91
Site 975, 161A5:150-153
Site 976, 161A6:238-241
Site 977, 161A7:323
Site 978, 161A8:381
Site 979, 161A9:408-409
Site 982, 162A4:116, 118-121
Site 983, 162A5:158-160
Site 984, 162A6:195, 197-201
Site 985, 162A8:276-277, 279
Site 986, 162A9:312-314, 316-317
Site 987, 162A10:363-365
Site 988, 163A3:28-30
Site 989, 163A4:43-44
Site 990, 163A5:64-68
Site 991, 164A5:90-91
Site 992, 164A5:91-92
Site 993, 164A5:92-94
Site 994, 164A6:132-135
Site 995, 164A7:200-204
Site 996, 164A8:266, 269-270

Site 997, 164A9:301, 303-305
Site 998, 165A3:86-88
Site 999, 165A4:184-186
Site 1000, 165A5:264-269
Site 1001, 165A6:330-336
Site 1002, 165A7:370
Site 1003, 166A6:95-98
Site 1004, 166A7:164-166
Site 1005, 166A8:192-195
Site 1006, 166A9:255-258
Site 1007, 166A10:317-320
Site 1008, 166A11:365-367
Site 1009, 166A11:367
Site 1010, 167A(1)4:76-77
Site 1011, 167A(1)5:107-109
Site 1012, 167A(1)6:146-148
Site 1013, 167A(1)7:168-171
Site 1014, 167A(1)8:193-196
Site 1015, 167A(1)9:233-234
Site 1016, 167A(1)10:263-264
Site 1017, 167A(1)11:297-298
Site 1018, 167A(1)12:333-334
Site 1019, 167A(1)13:370-371
Site 1020, 167A(1)14:410-411
Site 1021, 167A(1)15:450-451
Site 1022, 167A(1)16:477
Site 1033, 169S_A2:27-28
Site 1034, 169S_A2:28, 31-32
Site 1035, 169A3:125-130
Site 1036, 169A4:186-188
Site 1037, 169A5:225-227
Site 1038, 169A6:289-292
Site 1039, 170A3:79-89
Site 1040, 170A4:141-151
Site 1041, 170A5:178-183
Site 1042, 170A6:206-208
Site 1043, 170A7:238-247
Site 1044, 171A_A3:31-33
Site 1045, 171A_A4:46-50
Site 1046, 171A_A5:63, 66
Site 1047, 171A_A6:85-88
Site 1048, 171A_A7:100-101
Site 1049, 171B_A3:77-81
Site 1050, 171B_A4:145-154
Site 1051, 171B_A5:210-216
Site 1052, 171B_A6:287-295
Site 1053, 171B_A7:334-339
Site 1065, 173A4:90-94
Site 1067, 173A6:151-155
Site 1068, 173A7:205-211
Site 1069, 173A8:252-254
Site 1070, 173A9:290-293
Site 1071, 174A_A3:77-81
Site 1072, 174A_A4:128-131
Site 1073, 174A_A5:175-178; 174A_B7:1-62
Site 1075, 175A3:76-79
Site 1076, 175A4:103-105
Site 1077, 175A5:136-138
Site 1078, 175A6:169-170
Site 1079, 175A7:193-196
Site 1080, 175A8:216-218

- Site 1081, 175A9:261, 263–266
Site 1082, 175A10:299–301
Site 1083, 175A11:328–330
Site 1084, 175A12:377–378
Site 1085, 175A13:412–414
Site 1086, 175A14:447–448
Site 1087, 175A15:474–475
Site 1088, 177A3:13–15, 64
Site 1089, 177A4:18–20, 94
Site 1090, 177A5:23–25, 98
Site 1091, 177A6:15–18, 81
Site 1092, 177A7:15–18, 80
Site 1093, 177A8:18–20, 101
Site 1094, 177A9:14–16, 71
Site 1095, 178A4:24–27; 178B17:5–6
Site 1096, 178A5:21–26; 178B17:6–7
Site 1097, 178A6:15–18
Site 1098, 178A7:17–20
Site 1099, 178A7:17–20
Site 1100, 178A9:15–19
Site 1101, 178A8:15–19; 178B17:6
Site 1102, 178A9:15–19
Site 1103, 178A9:15–19
Site 1105, 179A4:57–60
Site 1143, 184A4:23–26
Site 1144, 184A5:19–22
Site 1145, 184A6:15–17
Site 1146, 184A7:19–22
Site 1147, 184A8:9
Site 1148, 184A9:23–26
Site 1149, 185A4:38–41, 178–180; 185B9:28
Site 1150, 186A4:41–49
Site 1151, 186A5:27–33
Site 1165, 188A3:54–61; 188B9:1–16
Site 1166, 188A4:32–36
Site 1167, 188A5:25–30
Site 1168, 189A3:45–47
Site 1169, 189A4:22–24
Site 1170, 189A5:49–52
Site 1171, 189A6:54–56
Site 1172, 189A7:46–48
Site 1173, 190A4:24–30; 196A1:7; 3:3
Site 1174, 190A5:29–34, 75, 145–146
Site 1175, 190A6:21–24, 50–56, 90–91
Site 1176, 190A7:17–20, 42–48, 78–79
Site 1177, 190A8:21–24
Site 1178, 190A9:23–27
Site 1179, 191A1:17; 4:35–40
Site 1183, 192A3:35–38
Site 1184, 192A4:24–26
Site 1185, 192A5:22–25
Site 1186, 192A6:23–25
Site 1187, 192A7:11–13
Site 1188, 193A1:16; 3:74–77; 193B13:19
Site 1189, 193A1:20; 4:52–55; 193B13:19
Site 1190, 193A5:6
Site 1191, 193A1:23; 193A6:10–11
Site 1200, 195A3:40–45; 195B1:13–14
Site 1201, 195A4:36–40, 215–222
Site 1202, 195A5:11–14, 46
Site 1203, 197A3:37–40
Site 1204, 197A4:30–33
Site 1205, 197A5:25–28
Site 1206, 197A6:22–24
Site 1207, 198A3:37–40
Site 1208, 198A4:28–31
Site 1209, 198A5:29–33
Site 1210, 198A6:26–29
Site 1211, 198A7:25–28
Site 1212, 198A8:23–26
Site 1213, 198A9:30–32
Site 1214, 198A10:14–15
Site 1215, 199A8:18–20
Site 1216, 199A9:12–14
Site 1217, 199A10:18–20
Site 1218, 199A11:27–31
Site 1219, 199A12:28–33
Site 1220, 199A13:24–29
Site 1221, 199A14:20–23
Site 1222, 199A15:13–16
Site 1223, 200A3:43–45
Site 1224, 200A4:7–8, 45–49; 200B1:8–10, 44
Site 1225, 201A6:23–31
Site 1226, 201A7:26–33
Site 1227, 201A8:21–26
Site 1228, 201A9:17–23
Site 1229, 201A10:20–27
Site 1230, 201A11:22–30
Site 1231, 201A12:18–25
Site 1243, 203A3:20–22, 82
Site 1244, 204A3:24–28
Site 1245, 204A4:19–22
Site 1246, 204A5:10–14
Site 1247, 204A6:14–17
Site 1248, 204A7:14–18
Site 1249, 204A8:17–20
Site 1250, 204A9:16–19
Site 1251, 204A10:19–25
Site 1252, 204A11:14–16
Site 1253, 205A1:20; 4:5, 37–41
Site 1254, 205A1:32; 5:7, 22–25
Site 1255, 205A1:36; 6:4, 12–13
Site 1257, 207A4:27–29
Site 1258, 207A5:30–33
Site 1259, 207A6:33–36
Site 1260, 207A7:30–32
Site 1261, 207A8:29–31
Site 1268, 209A3:37–41
Site 1270, 209A5:40–41
Site 1271, 209A6:32–33
Site 1272, 209A7:25–28
Site 1274, 209A9:21–22
Site 1275, 209A10:27–31
Site 1276, 210A1:21–22; 3:99–107
Site 1277, 210A1:24; 4:10–11
Sites 867–868, 143A8:285–286
Sites 875–876, 144A7:280
Sites 885–886, 145A7:315–317, 322
Sites 894–895, 147A1:12–13
Sites 980–981, 162A3:81–85
Sites 1023–1025, 168A4:86–94
Sites 1026–1027, 168A5:140–141

- Sites 1028–1032, 168A6:177–179
 Sites 1044 and 1045 comparison, 171A_A4:48, 50
 Sites 1054–1055, 172A3:63–68
 Sites 1056–1059, 172A4:129, 132–134
 Sites 1060–1062, 172A5:229–235
 Sites 1063–1064, 172A6:288–294
 Sites 794 and 795, 127A5:228
 Sites 794 and 797, 127A7:389, 396
 slope sediments, 133B42:625–632
 spectral analysis, 154B5:140–142
 split cores, 178A4:26–27
 stratigraphy, 167B32:367–368
 structures, 102B3:43
 sulfides, 158B16:205, 208–209
 summary, 189A1:38–40; 198A1:59; 206A1:26
 TAG-1 area, 158A7:114–120
 TAG-2 area, 158A8:163–166
 TAG-3 area, 158A9:172–173
 TAG-4 area, 158A10:200–201
 TAG-5 area, 158A11:220–221
 temperature gradients, 108A8:569
 thermal anomalies, 204A6:53
 thin section images, 174A_B7:30–39
 time-frequency analysis, 178B32:7–15
 tools, 204B26:12–14
 turbidites, 135B7:109
 unconsolidated–lithified sediment transition,
 126B36:545
 upper crustal rocks, 137/140B24:273–291
 upper oceanic crust, 206B13:1–11
 volcanic basement, 165B13:220
 volcanic stratigraphy, 163B2:19
 volcanoclastic sediments, 126B36:543–549
 vs. age, 108B23:403–404
 vs. carbonate content, 108A9:629; 10:752
 vs. chemical-mineralogical composition, 121B32:365;
 126A7:200
 vs. chemistry and petrography, 129B27:489–490
 vs. depth, 133A(1)4:121, 127; 7:224; 15:660; 16:732;
 17:794; 141A6:124, 283; 154A4:65; 7:286–288;
 154B9:159; 160B42:538–540; 163B5:43;
 178B30:3–4; 32:3–4; 186A4:47–49; 5:32–33;
 202A13:44
 vs. grain size, 121B12:256
 vs. lithology, 121A6:139, 147; 126A5:92; 9:379;
 129B29:511–512; 138A(1)9:156; 12:361;
 (2)13:704–705; 14:756; 15:844; 16:926; 17:998–
 999; 18:1045; 19:1085; 144A10:377
 vs. magnetic properties, 118A4:76
 vs. mineralogy, 126B6:104–105
 vs. seismic stratigraphy, 121A1:303; 10:294–295, 303;
 12:419; 123A4:168–169; 126B39:579–583, 586–
 587, 590–591; 127/128B(2)72:1143; 128A4:224;
 5:379
 vs. silica mineralogy, 121B27:521–522
 vs. strength, 148B32:401–407
 vs. thermal conductivity, 158B24:332
 vs. well-logging, 121A8:221; 145A6:250
 water loss discrepancy, 127/128B(2)63:988
 wavelet analysis, 178B32:1–43
 well-logging, 102B3:31; 118A6:169, 177; 126B41:607;
 128A5:338; 129B29:507–527; 139B37:585–596;
 151B20:370–375; 155B26:421–446;
 159B22:225–240; 196A3:23–26; 4:23–26
 wet volumes, 127/128B(2)63:988–989
 X-ray fluorescence data, 127/128B(2)80:1283
See also compressional wave velocity; density; geo-
 technical properties; geotechnical units; index
 properties; porosity; shear strength; thermal
 conductivity; water content
 physical properties, continuous core
 conversion to mineralogy, 199B11:5–6
 correction, 199B12:1–21
 Site 948, 156A6:150–160
 Site 949, 156A7:237–238, 240–244
 physical properties units
 gabbros, 153A6:255–257
 sediments, 150A7:173–178; 10:334–336; 164A5:91–
 93; 6:133; 7:202–203; 9:305; 182A1:18, 19, 21,
 27, 30, 32, 35, 38, 41; 9:22; 10:26, 27; 12:22;
 184A7:20–22; 9:24–25
 sequence stratigraphy, 150B20:367–369
 Site 865, 143A6:144, 146
 Site 866, 143A7:229–230, 235
 Site 869, 143A9:332–334, 336
 Site 872, 144A4:135–137
 Site 877, 144A8:308–309
 See also bulk density units; petrophysical units
 physical volcanology
 Site 1108, 180A5:35–40
 Site 1109, 180A6:61–69
 Site 1114, 180A8:32–38
 Site 1115, 180A9:47–52
 Site 1116, 180A10:17–20
 Site 1117, 180A11:10–11, 45
 Site 1118, 180A12:41–45
 Site 1119, 181A3:25–27
 Site 1120, 181A4:21–22
 Site 1121, 181A5:22–24
 Site 1122, 181A6:32–33
 Site 1123, 181A7:41–43
 Site 1124, 181A8:34–35
 Site 1125, 181A9:22; 181B1:31
 Site 1126, 182A4:33–35
 Site 1127, 182A5:21–23
 Site 1128, 182A6:30–33
 Site 1129, 182A7:23–26
 Site 1130, 182A8:25–27
 Site 1131, 182A9:21–23
 Site 1132, 182A10:25–28
 Site 1133, 182A11:14–16
 Site 1134, 182A12:21–23
 Site 1135, 183A3:15–17
 Site 1136, 183A4:26–28
 Site 1137, 183A5:48–51
 Site 1138, 183A6:56–59
 Site 1139, 183A7:49–53
 Site 1140, 183A8:24–27
 Site 1141, 183A9:37–39
 Site 1142, 183A9:39–41
 Site 1203, 197A3:11–24

- Site 1204, 197A4:11–19
 Site 1205, 197A5:8–18
 Site 1206, 197A6:6–15
 Sites 1110–1113, 180A7:22–25
 summary, 182A1:18–19, 24, 27, 30, 32, 35, 38, 41
- physiography
 Ceara Rise, 154A1:5–6
 coastal plains, 150A1:6
 continental margin, 149B1:4, 6–7
 deposition, 161B7:95
 drift deposits, 178B8:3–4
 Greenland margin E, 152A1:6–7
 guyots, 144B33:561–583
 Nordic seas, 162A1:6–8
 North Atlantic-Arctic gateways, 151B1:5–7
 Norwegian-Greenland Sea, 151A1:5–6; 151B1:5
 offshore, 133A(1)1:5–9
 reefs, 133A(1)1:17
 tectonics, 180A1:32; 180B6:28
- phytadienes, sediments, 175B10:12–13
- phytane
 biomarkers, 151B23:410; 160B28:355–356; 207A10:5–6
 chromatograms, 160B23:287, 290; 169A3:120; 4:179–182; 5:224; 6:286; 180B16:14; 207A10:17–18; 208A5:16; 7:23–24; 8:24–25
 fluorescence, 141A9:327–329
 geochemistry, 139A6:197–200; 8:490–491
 maturation, 156A6:147
 Pisco Basin W, 112B34:541
 sediments, 135B41:672–673; 141A10:390–392; 141B22:288–290; 143B12:190; 156A6:144; 164B5:48–51; 175B5:4–5
 Site 799, 127/128B(1)35:628–629, 633; 128A5:343
 mass chromatograms, 208A7:59; 8:58
See also pristane/phytane ratio
- phytene, sediments, 175B5:4
- phytene isomers, sediments, 146B(2)14:205
- phyterals, coal, 180B10:10–11
- phytoclasts
 absolute abundances, 131B5:62
 inertite, 131B5:59
 reflectance, 180B10:11–12
 vitrinite, 180B10:8–9
- phytoliths
 abundance, 114B33:624, 643–646
 Atlantic Ocean E tropical, 108B9:146
 classification, 188B5:3–7
 continental signal, 175B11:10–11
 diatoms, 175A4:98
 distribution, 177A5:83–88; 6:67–72; 7:60–71; 8:88–92; 9:63–64
 ferns, 188B5:4–6
 grasses, 188B5:3–4
 lithology, 175A4:89
 Mascarene Plateau, 115B24:462
 mass accumulation rates vs. age, 175B11:22
 paleoenvironment, 188B5:8
 sediments, 116A4:54; 6:162; 175B11:8; 188B5:1–12
 siliceous microfossils, 144A3:64
 Site 699, 114B33:618, 640–641
- Site 701, 114B33:621, 641–643
 Site 758, 121B8:192
 stratigraphic distribution, 188B5:11
 trees and shrubs, 188B5:4–6
 unknown origin, 188B5:6
 vegetation, 155B25:411–418; 41:668–669
 vs. age, 155B25:414–415; 175B11:20
 vs. depth, 144B3:66–67
- phytone, alteration, 139B24:456
- phytoplankton
 alkenones, 167B10:155–156
 biostratigraphy, 181B1:18–19
 carbonate crash models, 206B4:8–10
 dispersed organic matter, 180B10:10
 Japan Sea, 127/128B(1)10:167
 organic matter, 167B24:275–276
 organic-rich layers, 161B30:394–395
 range chart, 159B25:280–281
 sapropels, 160B21:266–268; 22:277
 sediments, 175B10:8–10
 upwelling, 175A1:18
- phytoplankton, siliceous, Quaternary, 175B11:1–32
- Piacenzian
 biohorizons, 167B1:15
 calcareous plankton, 160B12:155–165
 magnetostratigraphy, 188B13:24
 sedimentary cover, 161B44:562
 turbidites, 166B5:48
See also Zanclean/Piacenzian boundary
- Piacenzian/Gelasian boundary, cycles, 160B15:195–196
- picnochlorite
 electron microprobe data, 137/140B18:210–211
 molar composition, 137/140B15:176
- picrite
 backarc basin basalt petrology, 134B17:357
 composition, 152B27:324–325; 40:489–491
 cross section, 163X_A1:15
 geochemistry, 134B19:388–390
 lava flows, 152A9:131–132; 152B30:369–371
 persistent volume problem, 152B31:384–385
 petrography, 152B33:404–405
 petrology, 134B17:357
 photograph, 152A9:133
 plagioclases, 152B33:408
 volcanic basement, 163X_A8:7–8
See also basalts
- picrolite
 hydrothermal alteration, 209A6:14
 vs. depth, 209A9:68
- piercements, seismic profiles, 130B2:27
- piezometry. *See* paleopiezometry
- piezoremanence, remanent magnetization, 137/140B23:269
- pigeonite
 Atlantis Bank, 118B1:4
 basalts, 151B19:352–353, 363
 composition, 106/109B2:13
 diabases, 180B3:7
 gabbros, 176B10:13–14; 179A4:41; 179B(synthesis):9–11, 26
 groundmass, 206A3:57–59

- iron-titanium oxide gabbros, 118A6:113
- metamorphic minerals, 153B31:536
- photomicrograph, 206A3:182
- Site 701, 114B40:739
- textures, 118A6:117
- volcaniclastic sand/sandstone, 126B10:160
- pigeonite, prismatic, photomicrograph, 206A3:182
- pigments, organic
 - chromatograms, 160B24:299–301
 - Peru margin, 112A2:38
 - sapropels, 160B3:34
 - Trujillo Basin, 112A16:547, 549, 557
 - See also* carotenoids; melanoidins; phaeophytin
- pigments, photosynthetic, sapropels, 160B24:297–302
- pigments, plant
 - calculated fluxes, 119A4:120
 - degradation products, 119A4:118–119
- pillow basalt lobes, well-logging, 197A3:43–44
- pillow basalts
 - alteration, 102B11:156; 123B9:193; 148B34:419–421; 168B10:119–157; 187A4:3–4; 5:3–4; 14:5; 192A7:9
 - aphyric texture, 123A8:178–179; 168A4:65, 69; 5:114, 116–117; 6:172
 - Aptian, 192A3:13
 - basement, 168A6:169–173; 183A8:13–19; 9:19, 22; 192A1:61
 - brecciation, 123A8:175, 179, 185
 - composition, 151A5:78–80; 190A1:4–5
 - Costa Rica Rift, 111B10:116–117; 16:178
 - Formation MicroScanner imagery, 169A1:136; 192A6:92–96
 - geochemistry, 145B22:333–344
 - holocrystalline texture, 168B10:128–131, 134
 - hooked ridges, 118B21:376
 - hydrothermal fields, 158A1:7, 12; 158B18:237; 19:265–267
 - hypocrystalline texture, 168B10:128–131, 134
 - image analysis, 148B29:380–383
 - Indian Ocean SE, 187B1:9–10; 7:4–9; 192B5:18
 - isocons, 169A3:99
 - lithology, 145A5:133; 148B35:437–439; 168A4:59–70; 5:113–114, 122; 183A1:28, 32; 187A9:3–5; 192A1:18–21, 25; 3:11–12; 195A1:21
 - macroscopic description, 192A5:12–13; 7:7
 - magnetic fabric, 192B5:6–7
 - magnetic properties, 123B29:551; 192B5:16
 - magnetostratigraphy, 192A6:22
 - major elements, 183A8:18
 - mineralogy, 121A12:392–393
 - Ninetyeast Ridge, 121A12:391–392; 121B28:526
 - occurrence, 102A1:8; 3:95
 - Ontong Java Plateau, 130A10:504
 - Pacific Ocean W, 132A1:11
 - petrography, 144A11:430; 168B10:120–121; 183A8:17–18
 - petrology, 151A13:418; 158A8:163; 10:199–200; 168A6:170–173; 169A3:93–94; 187A1:7
 - photograph, 132A3:57; 136A5:82; 144A11:433; 145A5:137; 148A3:145–146; 151A5:79; 158B18:246–249; 168A5:116, 130–131, 136; 187A1:22; 192A5:44; 7:25, 28; 195A4:97–98, 100–102; 206A3:169
 - photomicrograph, 168A5:124; 183A8:60–62; 187A5:12; 192A5:42, 53–54; 7:32
 - phyric-aphyric texture, 123A4:175–176; 168A4:65–69; 5:117–119; 6:172–173; 187A1:28; 4:4; 5:2–3, 8; 11:3–4; 192A3:96, 97
 - physical properties, 102A3:111, 146; 102B3:43; 4:57
 - pillow inflation texture, 192A3:84, 98
 - radiometric ages, 129B20:391
 - scanning electron backscattered images, 187B7:20
 - sediments, 183A8:5
 - Site 758, 121A12:391
 - Site 765, 123A4:173–174
 - smectite, 102B3:29
 - structure, 169A6:272
 - temperature, 148B3:21–35
 - tholeiitic texture, 192B1:4
 - titanomaghemite, 148B38:479
 - trace elements, 183A8:18
 - velocity, 102B4:60–61; 8:106
 - vesicular petrology, 145A5:136
 - volcanic glass, 151B19:363
 - vs. depth, 192A1:68, 71
 - waveforms, 102A3:116, 118, 119, 149
 - whole-rock analyses, 151A5:81
 - young crust, 102B11:155–156
 - See also* basalts; ferrobasalts; lava; olivine basalts; pillow lava
- pillow-in-matrix, microstructures, 146B(1)12:207
- pillow lava
 - alteration, 124B20:277–278; 36:491–493; 148B13:191–206
 - basement, 196A3:31; 197A4:18–19
 - carbonate-clay veins, 148B18:264
 - Celebes Sea, 124A13:359–360, 362–367
 - chemical composition, 129B17:329–330
 - density logging vs. core data, 124B6:88
 - electron microprobe data, 148B39:485–486
 - fractures, 124B8:112–114
 - geochemistry, 137/140B3:38
 - graphic logs, 197A3:73
 - impedance, 124B37:509
 - lithology, 124B20:273–275; 130A9:444; 197A3:69; 206A3:54; 206B1:6–9
 - lobe thickness distribution, 197A3:70
 - low-potassium zone, 124B6:84
 - microbiology, 187A3:8
 - mineral chemistry, 124B20:282
 - neutron porosity logs, 124B6:89
 - Ontong Java Plateau, 130A5:165
 - petrography, 129B18:346–347; 19:362–363; 195A4:20–22; 200A4:29–36
 - petrology, 124B19:253–254; 137/140B2:19–20; 191A4:26–35
 - photograph, 153B1:11; 183A1:91; 187A14:9; 191A4:100; 197A3:69
 - photomicrograph, 183A1:92; 8:52, 57, 62; 9:90
 - physical properties, 129B27:485
 - planar and horizontal contact, 148A3:131
 - rims, 129B5:145; 148B11:155

- seismic surveys, 142A2:35–36
- Sulu Sea, 124A11:253, 257, 261–263, 273–274
- textures, 131B16:198; 148A3:130–131
- volcanology, 197A3:16
- with glassy and chilled rind, 148A3:131
- with variolitic zone, 148A3:131
- See also* interpillow deposits; megapillows
- pillow margins
 - alteration, 183A9:35
 - aphanitic texture, 192A6:64
 - basement, 183A9:26
 - glassy texture, 192A5:12–13
 - photograph, 183A8:59, 71; 9:77–79, 105; 187A1:35; 4:13
 - photomicrograph, 183A8:52, 55; 9:89; 192A7:29
- pillow rim/sediment contacts, alteration, 185A3:24–25
- pillow rims
 - alteration, 158A10:198–199; 185A3:26; 4:25–26; 187A15:7–8; 192A6:19
 - basalts, 185A3:14–15; 191A4:29; 192A3:26–28; 6:16–17; 5:13–14; 6:16–17
 - chemical composition, 158B20:281
 - fractional crystallization, 192B1:6
 - lithology, 185A3:11–12
 - lower alteration zone, 192A5:16–17
 - magnetic susceptibility, 192B7:5
 - petrography, 200A4:29, 34
 - photograph, 158A10:200–201; 185A3:79–85; 4:96–97, 103; 187A4:15; 6:15, 24–25; 10:16; 15:37; 192A5:75–76; 7:38; 7:25–26, 38
 - photomicrograph, 185A1:57–58; 3:94, 96, 118; 4:106; 192A6:67; 200A4:107
 - upper alteration zone, 192A5:16
- pillow rims, glassy
 - basalts, 192A5:13–14
 - macroscopic description, 192A6:16
 - photograph, 192A3:77, 80–84
 - photomicrograph, 192A3:87–90
- pillow rinds
 - alteration, 187A1:10–11
 - petrography, 192A5:14
 - photograph, 187A1:38; 3:19; 4:14–15
- pillow structure. *See* structures, pillow
- pillow texture. *See* textures, pillow
- pillow tubes, petrology, 135B52:837
- pillow zones, Jurassic basement, 185A1:17
- pilotaxitic basalt. *See* basalts, pilotaxitic
- pilotaxitic texture. *See* textures, pilotaxitic
- pinch-and-swell structures
 - origin, 161B1:13–14
 - structural domains, 170A7:225–226
- pine
 - vs. age, 167B20:241–242
 - See also* cedar/pine ratio; oak/pine ratio
- pingers, operation, 124E_A18:120–121
- pipe vesicles
 - lithology, 197A4:12–13
 - petrography, 203A3:10–12
 - photograph, 163X_A6:34
 - photomicrograph, 195A4:84
 - volcanology, 197A3:18
- pipes, dewatering, Yaquina Basin, 112A15:442
- pipes, flamelike, core photographs, 129B6:159
- pipes, vertical, core photographs, 129B6:159
- pitch, operation, 124E_A11:65–68
- pitchstone
 - photograph, 135A(1)11:642
 - plagioclase-quartz phyric rhyolite, 135B38:636
- “placer sands”
 - heavy minerals, 157B12:168–169
 - mineralogy, 157B12:149
 - photograph, 157B12:177
 - tsunamis, 157B12:174
- placoliths
 - diagenetic etching, 183B8:7
 - dissolution, 177A4:9–10
 - flora, 164B33:337–338
 - nannofossil datums, 161B13:176–177
 - Quaternary, 183B8:1–19
 - Site 799, 128A5:309
 - size variation, 130B11:189–196
- plagiacanthids, Paleocene biostratigraphy, 181B1:15–16
- plagioclase aggregates
 - gabbros, 205A4:28–35
 - lithology, 205A4:26–28
 - photograph, 210A4:21
- plagioclase chadacrysts, photograph, 147B2:36
- plagioclase clasts. *See* clasts, plagioclase
- plagioclase/clay ratio, lithology, 110A7:409
- plagioclase-clinopyroxene pairs
 - anorthite-magnesium number, 123B10:207, 211
 - oxygen isotopes, 118B6:133, 135–136
- plagioclase/clinopyroxene ratio, vs. lanthanum/ytterbium ratio, 153B10:231
- plagioclase crystals
 - age, 192B1:7
 - basalts, 192A4:13–15
 - photomicrograph, 192A4:60; 5:68–69, 77, 88; 206A3:260
- plagioclase facies, spreading centers, 209B1:5–6
- plagioclase forms
 - angular, 180A9:72, 80
 - anhedral, 179A1:23; 197A6:45
 - bowtie, 200A3:87
 - fibers, 185A3:100
 - glomerocrystic, 169A5:215
 - grains, 180B7:49–50
 - partially resorbed, 187A5:10
 - needles, 180A10:32; 193A3:131–132; 6:16
 - polygonal aggregate, 173A7:201
 - porphyroclastic, 180B3:26
 - prismatic, 187A3:16; 5:13; 8:25; 11:17
 - quench, 180A7:46
 - rims, 183A4:51
 - sieve-textured, 187A1:30; 7:15
 - skeletal laths, 185A4:104; 192A5:58
 - skeletal microlitic, 209A7:48
 - spherulitic, 200A4:104
 - strained, 173A7:201; 179A1:24
 - subangular, 180A9:76, 80, 84, 85
 - swallow-tailed, 195A4:104
 - twinned, 161A6:247; 185A3:103

- untwinned, 183A4:50
- variolitic, 193A4:85, 111
- zoning, 197A1:36; 3:75; 5:49
- plagioclase glomerocrysts. *See* glomerocrysts, plagioclase
- plagioclase groundmass
 - basalts, 192A5:13
 - grain size vs. depth, 206A3:191
 - vs. depth, 185A3:101
- plagioclase laths
 - basalts, 209A4:3
 - limestone, 203A3:9
 - petrography, 192A3:27
 - photograph, 179A4:126
 - photomicrograph, 163X_A6:39; 178B22:16; 179A4:110; 180A6:126–127; 10:23, 31; 185A3:90, 93, 98; 187A14:14; 192A1:69; 3:94; 6:67; 7:30, 32; 193B6:8–12, 15; 195A4:105–106; 197A1:54–55; 4:50–54; 5:60; 206A3:177–178, 180, 189, 259; 206B5:17, 19, 21; 209A6:59; 210A3:247, 250
 - quartz gabbros, 180B3:6
 - textures, 179B(synthesis):40
 - volcaniclastic sand, 180B7:6–7
 - xenoliths, 193B6:2–3
- plagioclase matrix, photomicrograph, 194A5:55
- plagioclase megacrysts. *See* megacrysts, plagioclase
- plagioclase melts, density, 148A3:140
- plagioclase microcrysts. *See* microcrysts, plagioclase
- plagioclase microliths, chemical composition, 180B8:40
- plagioclase microphenocrysts. *See* microphenocrysts, plagioclase
- plagioclase morphology, vs. depth, 205A4:87–88, 93–104
- plagioclase/olivine ratio
 - basalts, 148A3:138
 - percentage vs. depth, 148A3:138
- plagioclase/phenocryst ratio, vs. phenocrysts, 148A3:139
- plagioclase phenocrysts. *See* phenocrysts, plagioclase
- plagioclase pods, lithology, 173A6:130
- plagioclase replacement, photomicrograph, 206A3:211, 215–216, 245
- plagioclase xenocrysts. *See* xenocrysts, plagioclase
- plagioclases
 - absence, 113B1:9–10
 - abundance, 104B2:32–34; 111A3:125; 127/128B(2):78:1235–1244
 - accumulation, 121B30:575–577; 32:630–631
 - aggregates, 125B10:201
 - albitization, 123B9:197–198; 127/128B(1):7:105–106, 109; 9:137–138
 - alteration, 111A3:61, 67; 111B6:62, 64; 118B24:421–422; 123B9:193; 124B13:191; 127/128B(1):9:141, 144–145; 55:884–885; 144B28:479–480, 484–487; 147A3:70–71; 4:130, 132; 147B11:216–217; 14:289; 148A2:47; 148B34:428; 157B12:150; 176A1:14; 3:40–41, 136; 176B4:7–8; 6:3–7; 183B15:6–9; 187A13:10–11; 192A3:29–32; 193B11:1–19; 209A5:82
 - amphibolites, 173A6:130–131; 7:190–191
 - andesite-dacite-rhyolite series, 125B12:227
 - anisotropy and orientation, 118B12:249, 251
 - anorthite, 115B3:27–38; 127/128B(2):53:867; 153B5:96, 98; 17:347
 - anorthosite veins, 173A6:141, 143
 - argon-40/argon-39 laser data, 129B20:401
 - Atlantis Bank, 118A6:107
 - augen, 118B26:449, 456
 - average composition, 147B2:25
 - average length and diameter, 140A2:154–155
 - backscattered electron images, 163B12:142–144, 146
 - Baffin Bay, 105A4:79
 - Barbados Ridge, 110A6:323, 327; 7:410; 8:494
 - basaltic andesites, 135B32:559–562
 - basalts, 131A6:151–152; 131B16:200; 134A8:153; 135A(1):4:131–134, 139–146; 135B32:559–562; 136A5:77–78; 137A2:24, 26–27; 139A7:507–513; 142A4:57–60; 142B1:4–5; 143B16:264, 267, 270; 144B29:497–502; 145B22:336, 338; 151A5:78–79; 152B30:361, 363, 365–372; 33:404–405; 158B17:214–215; 163B9:99–112; 165B15:233–235; 168A5:116–119; 169A6:271; 180A7:16; 183A4:17–19; 185A3:14–15; 191A4:27–35; 195B8:5–6; 197A3:19–20; 5:10; 206A1:28–30; 210B9:14–15
 - basement, 123A4:179, 182; 123B9:195; 10:207; 126B26:389, 399; 27:406–407, 419; 28:434–436, 439–442, 446–447; 173A1:13; 183A1:17; 6:47; 7:37–39; 8:17–18; 196A3:30
 - Bengal Fan, 116B6:64, 66
 - bimodal distribution, 115B3:35–36; 118B26:477–478; 147B6:128–129
 - blue tuff, 127/128B(1):8:117, 121–126
 - boninites, 125B10:178
 - boudinaged porphyroclasts, 118B22:402
 - breccia, 173A7:188–189, 193–194; 173B1:3–5
 - bronzite andesites, 125B10:180; 12:226
 - Cagayan Ridge, 124A6:93, 96, 98; 11:255; 12:304, 306–307, 313–314; 14:402–403
 - calc-silicate rock, 161B18:254–255
 - calcium, 111B1:11
 - Celebes Sea, 124A10:141–142, 168; 13:359–369; 124B20:277, 288–290
 - chemical composition, 103B12:199, 203; 16:242; 17:253–254; 106/109B11:125–136; 111B2:24; 112B28:475; 118A6:100, 102; 118B2:25; 3:54–56, 59, 69; 124B35:482; 126B11:176–179; 28:432–433; 127/128B(2):53:867; 135B3:40; 6:92; 26:473–475; 27:489–503; 29:520–521, 524; 30:534, 536–537, 540; 137/140B16:192; 139B6:100; 144B30:522; 147B2:40–41; 8:168; 9:176; 10:195; 148B11:153–154; 149B14:269; 27:478; 157B12:150; 163X_A8:25; 176B(synthesis):52, 61; 179B2:53–55; 180B8:21; 200B3:27–28
 - chilled margins, 168A5:120, 122
 - clasts, 173A9:279
 - cooling rates, 106/109B1:5–7; 11:129
 - Costa Rica Rift, 111A3:52–56, 120, 124; 111B5:49–50, 52; 6:64, 70; 11:122–124
 - crystals, 106/109B2:14, 16; 11:125–126, 128, 130–133, 139–140; 111A3:59; 118B22:403–405, 407;

- 124B19:261–262; 126B9:151, 154; 129B17:315;
135A(1)6:271; 144B19:398
cumulates, 179A4:42; 179B2:52
cycles, 127/128B(1)33:584
dating, 110A6:350; 7:436, 544; 8:500
deformation, 118A6:131; 118B22:399; 24:418–419;
173A4:200; 9:289; 206A3:73–74; 209A5:26; 6:20
diabases, 128A3:88; 137/140B1:3–9; 210A1:15; 3:243
diagenesis, 150X_B3:31
diffusion, 118B3:59, 70
dikelets, 153B11:249–251
disequilibrium partitioning, 106/109B11:132
dislocation slip, 118B22:405, 407
disseminated oxide olivine gabbros, 118B2:31
dissolution, 126B8:138
drift deposits, 178B8:7
dust, 130B28:474–477, 480–485, 489–490
electron microprobe data, 104B18:363; 19:370; 106/
109B11:126–136; 111B2:23; 5:51; 127/
128B(1)8:124–126; 135B24:395; 25:465–466;
147B9:179; 195B8:21
excess, 106/109A4:63
exchange partition coefficients, 111B2:20, 26
fabric, 147A1:10
felsic rocks, 118A6:117
ferrobasalts, 200B3:3–6, 20
fluid inclusions, 118B9:190, 200–202, 204; 137/
140B16:193–194; 147A3:76–78; 148B7:91–94;
153B22:404–406
foliation, 118B22:402; 173A4:200
fractionation, 111B1:13; 121B14:287; 123B42:794;
124B35:476; 142B6:42–43; 158B17:220–225
gabbro–microgabbro interval, 118A6:127
gabbros, 147A3:60–61; 147B1:5; 12:228; 29:484;
153A4:126–141; 5:181–193; 6:218–231;
153B17:335, 337; 27:472–475; 176B(synthe-
sis):40; 6:74–78; 8:3–14; 10:9–11; 180A11:5–8;
180B8:6–7; 205A4:29; 209A3:9
Galicia margin W, 103B13:213–216; 30:508–509
geochemistry, 115B3:37–40; 131B16:203–204;
135B3:36–37; 137/140B6:67–72; 149B27:473–
488; 157B12:164; 22:394–395; 169A3:100–101;
176B3:3–5; 8:36–42; 10:56; 192A3:28–29;
193B1:47; 8:4–5
geochronology, 149B28:489–495
geothermometry, 137/140B15:178
glacial–interglacial variations, 127/128B(1)33:588
glass inclusions, 126B11:171–175, 183
glomerocrysts, 135A(1)4:145; 142A4:60; 148A2:44–
45; 192A3:27
gneisses, 161B19:264–265, 267; 20:283–284
Gortani Ridge, 107B4:60; 5:77, 82
grain boundaries, 137/140B19:223–225
grain size, 137/140B2:20–22; 148A2:43–44, 49, 114;
176A3:16–17, 113, 114; 206A3:61–63, 187–188;
206B5:9–10; 22–23
granite porphyry, 180A7:13–14
green clay, 184B15:4
groundmass, 106/109A4:52–56; 6:164–167; 106/
109B11:125; 121A11:323; 139B6:8; 206A3:57–
59
growth rate, 118B2:29
high-temperature microscopic veins, 176B4:25–26
high-temperature minerals, 176A3:35
histograms, 147B2:53, 125
hydrothermal alteration, 153A4:153–154; 5:197;
6:236, 238; 7:267; 179A4:43–44; 179B(synthe-
sis):8; 209A6:10; 10:12–15
hydrothermal veins, 153A4:163; 7:267
igneous rocks, 118B8:180; 139A7:335–337;
163X_A6:21–23; 176A1:11
impregnation, 147B14:260; 20:362
inclusions, 157B22:379–380
intergranular material, 148A2:41
intrusions, 176B10:18–19
ion microprobe data, 147B2:30
iron concentrations, 111B2:17–26
iron-rich liquids, 118B4:97
isochrons, 163B6:58
kinetic disequilibrium, 111B2:19–20
lanthanum/ytterbium ratio, 153B10:231; 18:359
late magmatic intrusions (LMIs), 118B8:164
lava flows, 163A4:38; 197A5:14; 6:12–13
lava ponds, 206B5:3
lead isotopes, 118B6:132
length, 137/140B2:21; 140A2:61–62
liquid exchange, 106/109B2:16; 111B2:19–20, 25
lithic arenite, 195A4:87
lithology, 125B7:117; 129B5:138, 148; 155A6:93–95;
7:130–131; 8:180–181, 183; 162A8:263;
163X_A5:4; 167A(1)4:55; 170A3:58–60; 4:103–
104; 6:195; 171A_A3:27; 5:62; 6:84; 172A4:88;
173A6:126–129; 176B6:3–14; 179A4:31–34;
179B(synthesis):9–11, 27; 180A5:7–9, 12–13;
6:28; 8:7–8; 10:5–6; 12:6, 9–11, 14–15, 17, 19,
22; 180B6:5–16; 183A1:28, 32–33; 4:5; 7:7–8;
184A9:11; 6:3–5; 187A7:4; 190A4:9, 111, 114;
196A3:19–20; 4:16; 198A9:12–13; 199A10:7–8;
201A11:11–12; 12:7–11; 209A5:7–9; 6:3–10;
7:4–7; 10:3–10; 210A3:28, 33
lower sill complex, 210A3:69
macroscopic description, 192A6:16; 7:7
mafic rocks, 149A7:234–235
magma, 106/109B2:16; 127/128B(2)52:856
magmatic structures, 118B22:399; 176A3:60;
206A3:63–64
magnesium, 111B2:17–26
magnesium number, 179B(synthesis):91
magnetic inclusions, 197B1:11–13
major elements, 121A11:327, 329; 149B21:395;
179B(synthesis):123–125; 2:56–60
Marsili Basin, 107B4:56–57, 60
mass balance, 169A3:96, 98–99
megacrysts, 121B32:625; 192A1:12
melt compositions, 103B17:268; 106/109B11:132,
135–136, 142; 127/128B(2)53:861–862; 56:895
meta-anorthosite, 173A6:131; 7:191
metadiabase, 180A7:14–15; 8:17–18
metagabbro, 118B8:164; 9:189; 173A7:191
metamorphic vs. hydrothermal composition,
118B9:208
metamorphism, 153B22:401–404

- metasediments, 173A8:246–249
metatonalite clasts, 173A7:191
mica schist, 180A7:12–13
microlites, 135A(1)5:227
mid-ocean-ridge basalt, 187B2:4
mineral chemistry, 118B1:14–15; 9:199; 124B20:282;
125B16:299; 134B18:367; 144B30:520–524;
147B7:142–143; 9:174–179; 11:215; 15:299;
152B33:407–409, 415; 153B9:158–160, 167–
170; 28:502–504; 31:539–540; 161B19:267–270;
176B10:15, 32–34; 179B2:10, 13–14; 180B3:20–
21; 8:10; 193B2:8–9; 200B3:6–7
mineralogy, 118B1:5; 156B16:224–225; 176A3:19–20
minor elements, 118B3:53, 56
mobility, 121B32:625–627
modal abundance, 118A6:116; 135B24:386–389;
25:430–455; 147B6:111; 153A4:150; 6:241;
176A3:18, 115
morphology, 163B12:140–141
nannofossil clay, 184B14:2
neoblasts, 153B8:148–149
neodymium isotopes, 118B6:132
Ninetyeast Ridge, 121A15:52; 121B32:656–657
no bacterial habitation, 193A3:227
Norwegian Sea, 104A4:83, 94, 96, 98, 114; 5:502–503
olivine gabbros, 118B2:30; 4:90; 26:465; 176B4:6–7,
46–47
orientation, 118A4:103–104; 118B11:239
oscillatory zoning, 106/109B11:125–126, 138–140;
118B2:25; 26:486–487; 125B10:187;
129B17:306; 135B31:543–556; 140A2:58–62
oxygen isotopes, 118B6:137; 8:174; 9:206–207, 212
Pacific Ocean W, 124B35:469
paleointensity, 197B1:31
pegmatites, 173A9:280
pegmatoid schlieren, 119B16:301
percentage vs. depth, 148A3:138
peridotites, 149A4:79; 173A1:10
petrography, 125B10:173; 129B17:307; 18:346–347;
19:363; 134A10:276–277; 11:336–338;
135A(1)5:219–220, 222; 8:369–371; 9:433–448;
137/140B3:36–38; 143A6:141; 7:223–224;
144A11:430; 147A4:123; 159B12:119–120;
160B36:455; 161B3:39–46; 27:357–359;
168B10:120–121; 179A4:38–41; 179B(synthe-
sis):40–45; 2:6–9, 16–21; 192A3:27; 200A4:30–
36
petrology, 139A5:130, 132, 135–138; 158A8:163;
168A5:116–119, 123, 126
phase equilibria, 153B31:540; 163B9:103
phenocrysts, 106/109A4:52–55; 115B3:27, 31, 33, 37,
40; 7:73; 118A3:49; 121A10:275; 11:321–322;
121B29:567, 569; 135A(1)6:267–268; 7:319–
323; 139A6:235; 139B6:98; 140A2:53–54;
147A3:67; 149B29:502; 163A3:27–28; 5:57;
168A5:119; 169A5:212–214; 183A1:14; 7:41;
9:26
photograph, 135A(1)4:144; 7:324; 9:443; 10:521;
11:639, 654; 139A5:142–145; 8:525, 527;
147A4:118; 147B11:216; 148A2:39; 148B14:208;
149A7:235; 149B21:388, 395; 23:417; 29:501;
152B8:112; 153A3:70, 72, 85, 89–91; 4:129–134,
137–141, 144, 146, 154–160, 166–167; 5:183–
186, 189–190, 200–206; 6:220–224, 227–230,
237, 243–244; 7:264–268; 153B5:84; 6:118–121;
7:138; 8:146, 150; 9:158–161, 166, 170, 174;
11:245, 248; 22:403, 406; 158A7:132; 8:162;
11:254; 159B13:123; 161A7:312; 165A6:329;
169A3:92, 100; 170A3:60; 4:108; 173A6:128;
9:280; 176A1:61; 176B4:23–24; 179A4:139–140;
183A5:135; 9:102; 187A10:8; 13:28; 193A1:77;
209A3:87
photomicrograph, 157A7:357; 161A6:239–246;
161B3:56; 18:260; 19:277, 279; 20:285–286;
27:362; 163A5:60; 163X_A4:20; 5:10; 7:11;
165A6:329; 168A5:137; 169A3:94; 173A6:133;
7:191; 9:283; 176A3:118, 127–130, 190–191,
206–207; 176B4:28–30, 39–40; 9:63; 179A4:115,
132–133, 138, 141–142, 145; 180A1:61–62;
5:48–49, 63; 6:94, 102, 107, 124; 7:31–32, 42–
48, 53, 59–61, 79; 9:70, 76–77, 82, 86; 10:32–34;
11:16–21; 12:74–75, 83, 91–94; 180B3:26–28;
7:51–52, 57–58; 183A4:47–51; 5:100–103, 108,
110; 6:130; 7:118–119; 8:53, 57, 62; 9:81, 83,
88, 90; 185A3:97; 187A3:13, 21; 4:9–10; 6:32;
7:16, 25; 8:16, 25, 30, 45; 9:12–14, 19; 11:14, 19;
12:19, 23–24; 13:17–18, 29, 35; 14:13, 16; 15:16,
19, 23, 25; 187B5:20; 191A4:101–105, 108;
192A3:87, 91–94, 98–99, 104–107; 4:65–68, 78,
81–82; 6:66–71; 7:39; 195A4:85–88, 104–109;
195B8:12–13; 198A9:63, 66, 70; 200A3:82, 88;
4:106, 108; 205A1:57; 4:89–92, 99, 106–110,
113; 206A3:281; 206B5:17; 209A1:99–100;
3:86–89, 100; 4:11; 5:62–66, 71, 112–114, 117–
118, 121; 6:47, 59, 61, 84–85; 7:51–54; 9:57–58,
66, 76; 10:72–78, 82–85, 91, 94, 102; 209B1:27;
210B2:20
pillow basalts, 168A6:172–174; 169A3:93–94;
183A8:17–19
plutonic rocks, 118B1:8–9
porphyroclastic texture, 118A4:70; 179A4:53
postentrapment crystallization, 137/140B12:134–135
potassium, 127/128B(2)52:851, 856; 54:869;
183B17:2
preeruptive history, 106/109B11:132, 135–136
preferred orientation, 147B2:34
pressure-temperature conditions, 161B44:566–567
principal component analysis, 104B2:34–37
quartzose sand, 190/196B3:7
radiometric age, 127/128B(2)47:785–786
rare earths, 153B17:344
recrystallization, 118A3:52; 4:69; 118B22:400–403,
407–408; 24:423, 426; 127/128B(1)9:148;
153B6:101–105; 8:144–145; 206A3:60; 206B5:8
relative abundance, 176A3:103–104
replacement, 118A4:65; 5:78; 6:138; 118B8:163;
121B30:563
reverse zoning, 118B2:27
sandstone, 127/128B(1)7:104; 146B(1)29:425–426;
210B2:4–5
Sardinian margin, 107B4:52, 60
scan, 176A3:125

- scanning electron microscopy, 110B16:251–253;
174A_B7:47, 56–57; 187B7:20
- schists, 161B19:264–266; 20:282–283, 288; 23:312
- secondary minerals, 140A2:69; 148B6:73–76; 180B3:8
- sedimenticlastic sandstone, 190/196B3:8–9
- sediments, 136B5:66–68; 139A5:129; 7:329;
149B40:748–749; 155A6:104; 7:137; 8:185;
156A6:101–103; 7:206–213, 216–217, 220;
164A7:183; 171A_A3:28; 183B7:5, 25; 187A4:5;
5:6
- segregation, 121B32:628; 210A3:68
- Serocki Volcano, 106/109A4:50–52, 59
- serpentinites, 149B31:530; 173A7:192–193
- shape, 106/109B11:124
- sheeted dike complexes, 148B33:410–411
- silicification alteration, 193A3:46–47
- sills, 139B6:94; 169A3:92; 210A3:67
- Site 701, 114B40:739
- Site 747, 120A6:133
- Site 748, 120A7:222; 120B(1)9:118, 125–126
- Site 749, 120A8:267–268; 120B(1)1:25
- Site 750, 120A9:321
- Site 758, 121A12:393
- Site 786, 125A3:27; 125B10:181
- Site 794, 127/128B(2)52:850–851
- Site 795, 127/128B(2)52:850–851
- Site 796, 127/128B(1)7:107; 9:136
- Site 797, 127/128B(1)9:136; 52:850–851
- Site 799, 127/128B(1)9:137, 140
- size, 106/109B11:124–125; 111B5:48
- Snake Pit hydrothermal area, 106/109A5:148
- source areas, 117B9:202
- sulfides, 176B7:5
- Sulu Sea, 124A6:93, 96, 98; 11:253, 255, 259–263;
124B13:183
- tectonic breccia, 173A6:132
- temperature, 118B8:172; 9:209–211; 180B3:9
- tephra, 205A4:23
- textures, 106/109B1:4; 11:125; 118A6:117; 127/
128B(1)9:136; 161A6:223–225; 165A6:326–329;
176A3:63
- thickness of mantle, 148A2:39
- tholeiites, 129B17:324–325; 19:371; 151B19:352
- Tiburón Rise N, 110A5:219, 225
- titanium oxide vs. vanadium, 205B9:25
- tonalite gneiss, 173A6:131
- troctolites, 118B4:68; 147B6:124–125; 14:265, 267
- turbidites, 131A6:94–99; 168A4:57–59; 5:111–112;
6:169
- twinning, 118B22:400, 403; 179A4:50–51
- Tyrrhenian Sea, 107B4:56–57, 60; 5:77, 82; 19:313
- ultramafic rocks, 147B14:261; 149B21:382
- veins, 173A6:132; 176A3:41–43; 176B9:3–6, 8–9, 17–
19, 29; 179A4:55
- volcanic basement, 163X_A8:7–9
- volcanics, 121B14:27; 127/128B(2)87:1379;
134A12:412–414; 134B16:339, 344; 19:380–381;
21:405–407; 136B4:55; 141B28:351;
145B23:349, 378–379; 165A3:80; 198B18:4–5
- volcaniclastics, 126B9:140; 136B7:87
- volcanism marker, 124B31:421
- vs. amphiboles, 137/140B15:179
- vs. calcium oxide/aluminum oxide ratio, 153A4:147
- vs. composite depth, 145B15:235
- vs. depth, 110A4:78, 126; 113B3:30; 131A6:116;
136B5:68; 145B43:658, 660; 147B2:52; 11:216;
153A7:267; 156A3:36; 6:108; 7:208–209;
173B1:7, 11; 176B6:13–14; 33; 10:45–52;
179A4:94–96; 179B2:26, 47–48; 181A3:39;
183A4:46; 5:99; 184A5:40; 6:31; 7:44; 9:60;
184B14:5–6; 190A4:47; 5:46; 6:34; 7:30; 8:37;
190/196B5:15; 192A3:79; 193A3:171; 4:117;
205A4:87–88, 93–98, 100–104; 209A5:119
- vs. ferromagnesian, 176B10:15
- vs. illite, 127/128B(2)78:1245
- vs. length of magnetite, 140A2:61
- vs. magnesium/(magnesium + iron) ratio of coexist-
ing clinopyroxenes, 147B2:53
- vs. magnetic susceptibility, 110B24:368; 176B11:22–
23
- vs. modal plagioclase, 121B30:580
- vs. oxygen isotopes, 147B12:231
- vs. quartz, 127/128B(2)78:1245, 1252
- vs. strontium content, 121B32:627
- water-undersaturated conditions, 127/128B(2)52:856;
54:872
- width, 163B12:145–146
- xenocrysts, 115A2:35; 115B3:40; 118A3:49
- X-ray diffraction data, 106/109A4:73; 6:170;
113B3:29, 31; 155A9:212; 10:255; 156A3:32–33;
6:102–114; 178A6:15; 8:65; 188A3:17–18; 4:15–
16; 190A6:8; 7:6; 8:9; 190/196B5:13–14;
201A9:36; 202A11:45
- zoning, 148A2:39; 163A4:38; 176B9:17; 10:10
- See also* albite; albite twinning; andesine; anorthite;
augite/plagioclase ratio; basalts; bytownite;
clinopyroxene-olivine-plagioclase series; diop-
side-quartz-plagioclase system; hornblende-pla-
gioclase assemblage; illite-plagioclase-kaolinite
assemblage; labradorite; neodymium isotopes
(plagioclase); oligoclase; olivine-plagioclase co-
tectic; oscillatory zoning; oxygen isotopes (pla-
gioclase); potassium feldspar/plagioclase ratio;
pyroxene-hornblende-plagioclase assemblage;
quartz/plagioclase ratio; quartz-olivine-plagio-
clase assemblage; quartz-plagioclase assemblage;
quartz-solid plagioclase intergrowth; saussurite;
strontium isotopes (plagioclase); undulatory ex-
tinction; veins
- plagioclases, acicular
petrography, 187A8:3–4
photomicrograph, 169A6:271; 187A6:22; 8:27;
192A7:29; 200A4:104–105, 107; 209A8:8
upper alteration zone, 192A5:16
- plagioclases, altered
alteration vs. depth, 176A3:141
photograph, 149A4:80; 153A3:85
photomicrograph, 180A6:125; 12:92
- plagioclases, anorthitic, secondary, 147B13:237–238
- plagioclases, aphyric, lithology, 168A4:59–70
- plagioclases, calcic
dissolution, 165B19:294

- occurrence, 127/128B(2)54:872
- phenocrysts, 135A(1)4:147
- secondary minerals, 137/140B15:172, 178–179
- xenocrysts, 118B8:179
- plagioclases, degree of recrystallization, 153B8:145
- plagioclases, elongate, lithology, 210A4:6
- plagioclases, euhedral
 - amphibolites, 173A6:130–131
 - hydrothermal alteration, 193B1:15
 - photograph, 135A(1)11:600; 187A1:31
 - photomicrograph, 173A6:135; 183A4:53; 185A4:106; 209A5:62
- plagioclases, experimental, composition, 152B30:363
- plagioclases, heteradcumulus, photograph, 153A6:236
- plagioclases, igneous, composition, 153B5:80–83, 87–89
- plagioclases, magmatic, gabbros, 180B3:7
- plagioclases, microlitic
 - bacterial habitation, 193A3:225
 - groundmass, 193B2:5–8
 - lithology, 187A14:4; 193A3:30–31; 198A9:12–13
 - photograph, 193A4:71
 - photomicrograph, 185A3:99; 193A1:81; 3:160; 4:97, 121, 123; 6:19; 193B2:16–17; 9:15; 198A9:62; 210A3:152
- plagioclases, modal, vs. depth, 209A5:60
- plagioclases, neoblastic, metagabbro, 176B6:3, 12
- plagioclases, recrystallized
 - composition, 153B5:81–82, 87–89
 - photomicrograph, 173A7:201
- plagioclases, resorbed
 - rhyolitic clast, 135A(1)11:644
 - photomicrograph, 209A10:73–74
- plagioclases, secondary
 - alteration, 176A3:141
 - modal data, 148B5:66
 - photograph, 176A3:161
 - vs. depth, 176A3:135
- plagioclases, skeletal
 - basalts, 187A1:9
 - occurrence, 137/140B1:8
 - photomicrograph, 187A14:13; 193A4:110; 195A4:104, 108; 197A3:82; 200A3:87
- plagioclases, sodic
 - Atlantis Bank, 118A6:136
 - diopside, 118B8:168
 - photomicrograph, 183A5:108; 206A3:182
 - veins and breccias, 118B8:172
- plagioclases, subhedral
 - lithology, 200A3:15–19
 - photograph, 179A4:126
 - photomicrograph, 179A4:109, 129; 209A6:61
- plagioclases, tabular
 - photograph, 147B1:17
 - photomicrograph, 179A4:127; 187A15:15, 24; 200A4:104
- plagioclases, zoned
 - basalts, 183A5:31
 - photograph, 147B1:19; 2:39; 153A3:72
 - photomicrograph, 169A6:271; 179A4:116; 180A9:70, 72
 - volcaniclastic sandstone, 180A7:16
- xenoliths, 180A7:16
- plagioclaseite, composition, 149A7:233–235
- plagiogranite
 - basement, 173A1:13
 - origin, 200B3:10
- plagioniids
 - occurrence, 120B(2)39:744
 - Site 748, 120B(2)39:750
- planar contacts, petrology, 179A4:34–35; 179B3:18
- planar features
 - Formation MicroScanner imagery, 148B16:238–240
 - magnetic susceptibility, 153B32:553
 - Rose diagrams of azimuth, 148B29:386
 - veins, 147B10:201
 - See also* preferred orientation
- planar laminations. *See* laminations, planar
- planar structures. *See* structures, planar
- plane-strain analysis, deformation, 186B1:7–8
- plankton
 - biochronostratigraphy, 181A8:58
 - biogeography, 130B9:113
 - carbon/nitrogen ratio, 162A3:74; 4:115
 - paleoproductivity, 138A(1)7:96–98
 - sediments, 154B35:501–505
- plankton, calcareous
 - biostratigraphy, 160B12:155–165
 - Cretaceous, 144B8:157–169
 - See also* nannoplankton; nannofossils
- plankton, siliceous
 - Lower Cretaceous, 129B33:618
 - Upper Jurassic, 129B33:618
- planktonic foraminifers. *See* foraminifers, planktonic
- Planolites
 - Australian Shelf NW, 122B28:477, 479
 - claystone burrows, 119A6:171
 - ichnofacies, 138B10:180–181, 183
 - lithology, 138A(1)9:125–127; 12:344; 149A4:52, 55; 5:124; 6:158; 7:221; 152A11:196, 198, 204–205; 154A4:61; 5:157; 160A4:59–60; 7:161; 8:220–223; 159A5:77–78, 80; 6:165–166; 160B32:408; 161A5:118; 7:304–305; 8:357–358, 361; 9:394, 396; 165A4:145; 167A(1)10:246–247; 14:395; 171B_A4:101, 114; 5:180–181; 6:251, 253, 256–257; 7:324; 172A4:90–91; 5:172; 6:257–258; 174A_A4:104, 111; 5:160–162; 174AXS_A5:26; 177A4:6–7; 178A4:6; 5:6–7; 7:4–7; 8:3, 5; 181A1:13, 16; 3:7; 4:5–6; 5:5–6; 6:7–9, 12; 7:5–11; 8:5–9; 9:5–7; 182A1:22; 4:8; 5:7; 6:4–5, 8–9; 7:8–9; 184A9:8–11; 186A1:10; 4:18–19; 191A4:11–14; 192A3:6–11; 198A3:14; 4:9–12; 201A6:12; 7:8; 12:9; 205A4:21; 206A3:23–26; 207A5:6; 6:5–7; 7:5–9; 8:5–8
 - mottling, 149B17:339
 - Neogene, 159A9:308
 - occurrence, 152A13:283
 - Pacific Ocean E, 138B10:178, 180, 184, 187
 - photograph, 135A10:507–508; 138A(1)9:138; 149A4:56; 152A11:200; 159A5:81; 6:165; 160A4:68; 7:169, 171; 8:237; 161A5:120; 8:364; 171B_A6:254; 174A_A5:162; 177A4:29, 31; 5:35;

- 178A5:55; 181A6:55; 10:42; 186A4:80;
192A5:38–39; 198A4:46–48; 205A4:75
plant debris, 149A8:266
sediments, 116B2:16–21; 3:29; 119B33:637, 639;
138A(1)11:281–285
Site 671, 110A4:80–81
Site 810, 132A4:82
Site 840, 135B(1)12:179
Site 844, 138A(1)9:125–127
Site 845, 138A(1)10:199, 209–210
Site 846, 138A(1)11:281–284
Site 847, 138A(1)12:344
Site 849, 138A(2)14:759
Site 850, 138A(2)15:815
Site 851, 138A(2)16:902
Site 852, 138A(2)17:975, 978
Site 853, 138A(2)18:1029
Site 854, 138A(2)19:1068
size, 113A11:621
tephra, 186B9:4
turbidites, 139B7:107–108
See also ichnofossils
- Planolites?
lithology, 173A6:110, 112–114; 7:168; 174A_A5:159
photograph, 161A6:197
- plant debris
Aptian, 143B12:192
black shale, 210B10:4–5
geology, 188A1:8–9
kerogen, 183B3:5
lithology, 150A10:317–318; 159A8:261–264;
166A8:177; 169S_A2:21; 170A7:219–220;
173A4:75; 174AXS_A3:18–23; 4:12–13; 5:19–20;
6:43–46; 210A3:43
mass accumulation rates, 159B41:572
photograph, 159A6:164, 173; 173A4:82–83; 190A8:32
photomicrograph, 180B10:33–34; 210A3:224
phytoliths, 188B5:7–8
sand, 150B11:199–201
scanning electron microscopy, 169S_A2:61
sediments, 150A6:98, 167; 150B18:337; 169S_A2:60
smear slides, 188A4:15
textures, 174A_B3:4, 9
vegetation, 151B15:289–296
vs. age, 159B41:572
See also *Haqius* spp.; liverworts; mesophyll; Mitoku-
type flora; phytoliths; sclerophyll vegetation;
sclerotia; wood fragments
- plant debris, carbonaceous, Site 792, 126A8:243
plant debris, coalified, Aptian, 143A7:197–198
plant debris, terrigenous
Turonian–Santonian tuffs, 121A4:89
vs. depth, 150A7:143
- plant fossils, biostratigraphy, 183A6:22
plant roots
photograph, 143A10:376
See also root casts; root traces
- plastic broadening, triaxial shear strength, 186B17:5
plastic deformation. *See* deformation, plastic
plastic flow, structures, 153B2:28–29
plasticity index
- Prydz Bay, 119B8:150–151
sediments, 131B20:256–257; 21:268; 204B12:7–8
vs. liquid limit, 164B40:424; 204B12:19
- plate boundaries
convergent plates, 165A4:184
décollement zone, 171A_B3:7–11
erosion, 181B1:27
forearc basins, 186B1:2–3
high-resolution geometry, 186A1:8
isostasy, 160B51:691
late Eocene, 181A1:3
ocean plateaus, 165A1:11
physiography, 180B(synthesis):27; 6:28; 8:16
- plate boundaries, convergent
deformation structures, 131B9:123
fluid expulsion, 131B29:365
sediments, 131B19:235
Site 698, 114A5:96
tectonics, 140A2:41
See also plate convergence
- plate breakup, continent/ocean margin, 159B11:102
- plate convergence
intraoceanic crustal generation, 135B25:427
New Hebrides island arc, 134A1:11; 134B2:22–30;
4:59–69; 5:73–88; 35:610, 612–613
ocean basins, 135A(1)1:5–47
Quaternary, 134B3:47–57
rates, 135B20:327–328
seismic profiles, 131B29:365, 369
stress, 134B32:574
water content, 134B30:545
- plate coupling
length, 186B1:25
subduction, 186B1:1–27
- plate dynamics, volcanism, 157A2:17
- plate geometry, changes with time, 186B1:23
- plate margins
active margins, 135B12:173–188
collisions, 135B20:313
convergence, 135B1:3–5
summary, 195A1:1–63
volcaniclastics, 141B10:133–151
- plate motion
biosiliceous background, 129B1:15
Cagayan Ridge, 124B38:513–515
carbonate platforms, 144B52:932
Celebes Sea, 124A13:353
Cenozoic, 133B52:764–765
circuit paleogeography, 130B43:698–705
Cretaceous–Tertiary interval, 171B_A6:282
geochemistry, 197B1:1–39
guyots, 144B53:947
history, 129A2:81
models, 165B9:169–171
Pacific plate, 143B31:507
paleodelication, 197A1:18
paleodepths, 167A(1)3:43–46
paleolatitude, 129A3:158; 171B_B9:13
paleomagnetism, 171B_A1:8–9
paleontological data, 129B33:618
paleoproductivity, 199B1:9–10

- plumes, 145B22:343
- rates, 134A2:22
- reefs, 133A(1)1:25
- seamounts, 197A1:5–7
- seismic stratigraphy, 129B31:567–568
- subduction zones, 186A1:5–6
- plate reconstruction
 - Cretaceous/Tertiary boundary, 115A5:237
 - geometric constraints, 127/128B(2)82:1311–1315
 - Indian Ocean W, 115A4:129; 5:236
 - Japan Sea, 127/128B(2)82:1321–1324
 - kinematic models, 127/128B(2)82:1315
 - Mascarene Plateau, 115B2:13
 - Miocene, 127/128B(2)82:1322–1324
 - plate motion, 130B4:56–57; 43:697–709
 - Site 713, 115B1:7
- plate rotation
 - hotspots, 144B35:610–612
 - Izu-Bonin forearc, 126A8:224
 - New Hebrides island arc, 134B2:22, 25–30
 - tectonics, 202A1:6–7
- plate tectonics
 - accretionary prisms, 156A1:3–11; 2:13–27
 - Apennine evolutionary model, 107A2:26
 - Arctic Ocean, 151B15:292–293, 296
 - Argo Basin, 123B15:315–316
 - Atlantis II Fracture Zone, 118A1:5
 - barium indicators, 117B23:417
 - basement tectonics, 149B38:613
 - bathymetry, 153A1:10–11
 - biogenic sedimentation, 199A1:2–3
 - Calabrian arc, 107A3:53
 - Campanian–Maastrichtian interval, 160B54:771
 - Cenomanian–Turonian interval, 160B54:770
 - Cenozoic latitudinal movements, 133A(1)1:27
 - compressional deformation, 107B38:725; 112A1:21
 - conjugate points, 203B2:27
 - continental margins, 146A(1)10:399–400
 - Cretaceous, 123B39:753–755; 149B25:438; 183B2:9–10
 - cross sections, 131B9:124
 - crust, 206A1:10–11
 - deformation, 173A1:8–12
 - deposition, 181A9:8–9
 - dust fluxes, 108B14:223–224
 - early Miocene, 160B54:773
 - early Paleogene, 183B7:8–9
 - emplacement, 192A1:4–6
 - Eocene–Miocene interval, 165B20:309–310
 - Eurasia, 160A1:5–6; 160B51:682–683
 - evolution of Eratosthenes Seamount, 160B51:696
 - extension, 107A10:748–749; 107B38:725; 112A1:7–9; 189A1:8–9; 189B2:2
 - fault-block tilting, 107B1:13
 - flexure, 144B33:567; 35:574–577
 - geologic history, 131B26:316–318; 134A1:5–16; 135B28:509–510
 - geophysical and geological overview, 149B1:3–4
 - guyot age, 144B53:937
 - hotspots, 183A1:50–51; 183B1:5–7, 25, 39–40
 - Iberia and Grand Banks, 149A1:7
 - Indian Ocean, 115A1:5–9
 - Ionian Sea, 107A3:58
 - Izu-Bonin forearc, 125A15:367
 - Kerguelen Plateau, 120B(1)7:95–96; 10:135
 - kinematics, 120B(2)50:917; 131B29:372; 152A1:6–7; 152B41:503–533
 - late Miocene, 160B54:774
 - late Pliocene–Quaternary interval, 160B54:774
 - Lima Basin, 112A7:119; 11:160, 197
 - lineaments, 160B52:705–706
 - lithospheric geochemical logs, 138B44:857–884
 - local linear velocity, 131B8:106
 - Lower Cretaceous, 129B32:574
 - magmatic composition, 112B28:478
 - magnetic anomalies, 118A3:44–45
 - magnetochrons, 163B6:60
 - magnetostratigraphy, 173B11:21–23
 - mantle, 187B1:19–21
 - Mariana forearc, 125A15:367
 - mass flow deposits, 160B37:479–480
 - Messinian, 107B1:13
 - middle–late Eocene interval, 160B54:772
 - middle–late Miocene interval, 165B17:252, 270–272
 - modified foundering model, 107A2:24, 26
 - Nankai accretionary prism, 131A7:281–282
 - Nordic seas, 162A1:6–8
 - North Atlantic–Arctic Gateways, 151B1:3–23
 - Norwegian–Greenland Sea, 151A1:5–9, 11–16
 - Oligocene ice sheet, 120B(2)56:1022
 - ophiolites, 160B54:764
 - Pacific Ocean SE, 202A1:80
 - Pacific Ocean SW, 181A1:3–4
 - Pacific plate, 138A(1)1:6–8
 - paleoceanography, 151B36:651–652
 - Paleocene–lower Eocene interval, 160B54:771
 - paleoclimatology, 202B1:13–19
 - paleolatitude, 134B25:450–451; 165B9:149–173
 - paleomagnetism, 129B26:477
 - Peru margin, 112A1:9, 20–21
 - plate spreading geometry, 209B1:13–15
 - Pleistocene, 107B1:16
 - Pliocene/Pleistocene boundary, 120B(2)35:641
 - prerift/synrift contact, 107A8:455; 107B1:22
 - Quaternary, 134B3:47–57
 - Quechua event, 112B28:478
 - reconstruction, 135B47:763–783; 144B31:542–543; 173A1:10
 - regional history, 133B6:85
 - relative motion changes, 125B38:630
 - rift–drift transition, 107B1:21
 - rift systems, 210A1:4–6
 - Sardinian margin, 107A10:785–786; 107B1:15
 - Sassari–Campidano Trough, 107A3:37
 - seafloor spreading, 151B1:7–9; 184A1:4
 - sedimentary implications, 107B38:660–661
 - seismic observatories, 195B2:15
 - Southeast Indian Ridge, 187B1:1–40
 - Southern Hemisphere, 181A1:42
 - spreading centers, 170B7:1–10
 - spreading ridge system, 115B1:7
 - subduction, 112A1:23; 201B19:3; 205A1:1–3

- subsidence, 160B39:509–515
- synrift–postrift transition, 107B1:15
- synrift sequences, 107A12:965–966
- tectonics, 160B54:731; 180A1:32
- thrust stacks, 160B50:673
- Tortonian, 107B1:12
- transition zones, 167A(1):8
- transverse ridges, 118B4:77
- Triassic–Jurassic interval, 160B54:769
- Trujillo Basin, 112A1:9; 7:119
- Tyrrhenian Sea, 107B1:17; 38:716
- Upper Jurassic, 129B32:574
- upper Paleocene, 152B40:482
- vertical movements, 112A1:9
- volcanism, 151B17:309–310; 181B1:59
- See also* microplates; rifting; spreading rates; subsidence; triple junctions; underplating; Wadati-Benioff zone
- plate tectonics, oceanic, 205A1:7–8; 205B1:3–5
- plateaus
 - deposition, 194A1:79
 - evolution, 184A1:5–7
 - See also* oceanic plateaus
- plateaus, carbonate, seismic stratigraphy, 130B3:33–49
- plateaus, flood basalt, basement penetration, 130A9:464
- platelets, electron microscopy, 185B9:23
- platform facies, Miocene, 194A1:30–33
- platforms
 - architecture, 166A6:114
 - carbonate mineralogy, 166B6:69–75
 - configuration, 132A1:9
 - deposition, 166B2:18
 - diagenesis, 166B3:23–31
 - drowning, 143B2:20–24
 - eustacy, 166A1:5–10
 - fluid flow, 166A1:5–10
 - Neogene, 166A6:108–109
 - sea level changes, 166A8:180
 - sedimentary interval, 166A10:304–305
 - sedimentation rates, 166A9:245–246
 - seismic sequences, 166A8:206
 - slumps, 166A10:329
 - strontium isotopes, 143B14:238–239
 - See also* carbonate ramps; carbonate platforms
- platinum
 - Indian Ocean W equatorial, 115B7:77
 - Paleocene/Eocene boundary, 199B16:3
 - serpentine seamounts, 125B29:509–513
 - sources, 125B29:511
 - speciation in pore fluids, 125B29:511–512
 - sulfides and sediments, 158B3:46
 - vs. copper, 135B35:600
 - vs. depth, 199B16:7
- platinum-group elements
 - basalts, 135B35:595–602; 192B1:5–6
 - Conical Seamount, 125B36:603
 - fractionation, 115B7:80
 - gabbros, 176B7:1–29
 - hydrothermal mobilization, 125B29:507
 - magmas, 135B55:892–894
 - photograph, 147B4:89
 - reference materials, 147B30:493–496
 - serpentine sediments, 147B4:82; 26:448–450; 153B29:514, 517
 - sheeted dike complexes, 137/140B17:199–205
 - solubility in aqua regia, 115B8:91
 - See also* palladium; palladium-platinum series
- platinum-group elements, chondrite normalized, 147B4:84
- platinum/palladium ratio
 - geochemistry, 125B29:511
 - vs. lanthanum-cerium, 147B4:87
 - vs. metals, 147B4:85
 - vs. pathfinder elements, 147B4:85–86
- platinum-palladium series, vs. copper, 135B35:600
- Plattenkalk, thrust stacks, 160B50:672
- platy texture. *See* textures, platy
- Plectacantha oiksikos*, cumulative percentage, 178B33:11
- Pleistocene
 - A Hiatus, 207A5:24
 - age models, 150B7:115–127; 167B1:22–23
 - aminostratigraphy, 150X_B26:355–357
 - ash fall layers, 157B18:315–328; 25:421–428
 - barium/aluminum ratio, 181B1:27; 9:5
 - basement, 183A1:35
 - benthic foraminifers, 154A8:353; 159B44:605–610; 177A8:11; 182A4:21; 5:13–14; 6:19; 7:15–16; 8:17–18; 10:18–19; 11:9; 198A4:20–21
 - biogenic sediments, 201B14:8–11
 - biochronology, 150A6:82; 167B1:24
 - biohorizons, 167B1:6–12
 - biostratigraphy, 131A6:99–109; 131B1:5–6; 132A4:84; 133A(1)5:151–153; 8:261–264; 9:311–312; 12:464–465; 13:516–519; 15:627–629; 134A7:108–110; 8:150–152; 9:195–198; 13:499; 133B47:697–704; 134B10:200; 12:282–283; 135A(1)4:115; 5:203–206; 6:260–261; 7:306–308; 8:360; 9:419–422; 10:524–526; 11:603–613; 135B13:191–205; 14:207–229; 17:267–284; 138A(1)9:131, 134–135, 138–142; 12:346–352; 139B2:39–58; 141B14:193–211; 15:213–221; 16:223–233; 145A5:138, 141; 6:221–222; 145B1:3–19; 4:55–91; 7:133–140; 37:560–574; 146B(2)24:329–330; 149A7:224–225; 150A8:222; 152B11:147–160; 12:165; 155A12:343; 156B3:49–56; 157B10:116–117; 159B34:449–465; 161B13:159–183; 164A5:81, 82; 6:114–115; 7:187–188; 9:290; 165A3:62–64; 166A6:84–88; 7:156–158; 8:181–185; 9:243–245; 10:305–309; 11:356–358; 167B1:3–40; 170A3:61–70; 4:117–126; 5:163–167; 6:199–201; 7:227–232; 170B1:1–58; 2:1–22; 5:1–63; 171B_A3:59–69; 5:188–199; 6:263–280; 7:325–329; 172A3:40–44; 4:93–97; 5:178–184; 6:260–262; 7:319–321; 175A3:57–69; 4:92–98; 5:120–126; 7:179–183; 9:241–251; 10:283–291; 11:317–320; 12:351–363; 13:398–406; 14:434, 436, 439–442; 15:465–468; 177A1:22–23; 4:9–14; 178A4:13–16, 62; 5:58; 6:42; 180A5:24–27; 6:43–48; 7:17–19; 181A4:8–15; 5:8–15; 6:13–17; 183A6:11; 184A5:9–11; 8:4–5; 9:12–14; 188B6:6–7; 189A3:22; 191B1:8; 2:1–34;

194A9:9-12; 202A7:11-15; 202B1:5; 5:1-10;
204A4:12; 6:8-9; 208A1:26-27
calcareous nannofossils, 130A7:233; 8:308; 9:394-
395; 130B11:179, 181; 133A(1)4:95-98;
132B2:17, 19; 134A12:409; 138B12:233-286;
144B1:9; 145B39:599-632; 149B5:147-164;
154A4:69; 5:161-163; 157A7:341-342; 9:449;
10:515, 517; 157B8:83-96; 159B37:519;
165A4:152; 5:248-249; 174A_B5:1-16;
178B26:1-21; 28:1-22; 186B4:4-7; 188A3:26-
30; 198A10:9; 198B2:3
carbonate content, 138B14:332-333; 167B11:176,
178
chemostratigraphy, 157B31:535-558
chronostratigraphy, 138B43:839-854
clay mineralogy, 133B30:467; 150B9:147-170;
155B9:190-191; 189A5:19; 189B11:5
continental margins, 133B51:755-762
cyclic processes, 178B32:14-15
debris flows, 174A_B(synopsis):8; 188A1:2-3
decimeter-scale sedimentology, 174A_B3:1-9
deep-sea sediments, 185B7:1-21
deepwater circulation, 177B(synthesis):21
deposition, 162B17:233-246; 180A1:18-19
diatoms, 138B29:635; 151B29:483-492; 152B15:209-
219; 162B4:51-62; 167B3:63-110; 6:119-125;
177A9:10; 177B11:1-10; 183B9:13; 185B2:1-31;
186B2:6-10
dinocysts, 151B13:243-253; 178B2:2-4; 189A4:16;
5:30; 189B5:42
eolian dust, 185B1:10
fanglomerate, 160B43:545-566; 54:743, 746
foraminifers, 132B2:29; 133A(1)4:96; 133B26:365-
378; 138B17:371-412; 188B4:4-8; 207A5:14-15;
6:16; 7:13-14; 8:14-15; 208A4:11-12; 5:9; 7:13;
8:13-14
forearc wedges, 205B1:16
geochronology, 141B35:425-426; 157B19:329-341
geologic timescale, 205B14:19
geology, 169A1:12; 195A1:23-27
glaciation, 178B(synthesis):1-40
glaucy lithofacies, 150B10:171-187
green clay layers, 184B15:1-23
heavy minerals, 174A_B6:1-11
hemipelagite, 180A1:10
hiatuses, 149B6:185-186; 189B6:11
highstands, 166B3:23-31
ice sheets, 188B1:11-12
ichnofabric, 174A_B(synopsis):9-10
ichnofossils, 174A_B3:1-9
ion chromatograms, 208A5:50
isopach maps, 157B28:491
isotherms, 177B(synthesis):10-12
kerogen, 164B5:55-56
lithofacies, 133A(1)3:59-60; 4:84-86; 133B19:274-
275; 24:327-351; 161B2:21-36
lithology, 130A7:230-231; 8:297-307; 9:375-383;
131A6:82-87; 133A(1)6:181; 7:206-207; 8:254-
256; 9:305-307; 10:351; 11:423-427; 12:460-
462; 13:512-516; 14:574-578; 15:621-627;
16:686, 688; 17:776; 18:808; 134A7:101-108;

8:145-146; 9:186-190, 193-194; 10:266-272;
11:325-326; 12:400-402; 13:490-493;
135A(1)5:193-196; 6:255-257; 7:295-301;
8:346-351; 9:410-414; 10:500-501;
135B52:829-838; 138A(1)9:124-127; 10:191-
208; 11:269-271, 275; (2)13:681-683; 14:740-
743; 15:811-813; 16:896-897; 17:971-974;
18:1028; 19:1065-1066; 139A5:109-110; 6:173-
180; 7:297-300; 8:447-457; 141A6:81-84;
7:164-165; 8:246-248, 251; 10:349-353;
144A3:47; 4:111, 113; 5:151-152; 10:338-339;
11:443-444; 144B55:973-981; 145A3:41-43;
7:306; 8:340; 146A(1)4:60-67; 5:135-137, 140-
144; 6:283; 149A4:47-52; 5:118-122; 7:218-
219; 8:264; 150A6:69, 71; 7:135-144; 8:210-
211; 9:260-265; 10:313-314; 150X_A1:13-14;
150X_B2:22; 152A12:261-264; 154A4:60-66;
155A6:93; 7:127-130; 8:178-180; 9:205-207;
10:246-248; 11:278-281; 12:325, 328-335;
13:387-388, 391; 14:412-415; 15:443-444;
22:661-663; 156A6:98; 7:202; 157A8:398, 402;
9:437, 443-444; 10:501, 507; 159A5:75-76;
6:162-163; 8:262-263; 160A4:59; 6:129-130;
9:294-295; 11:381-383; 12:423-430; 161A4:59-
64; 5:118-120, 128; 6:188-189, 196; 7:304;
8:357-358, 361; 9:393-397; 162A4:101, 105-
106; 8:261; 9:296, 298; 10:350; 164A5:69-79,
94-96; 6:105-109; 7:179-181; 8:245-246;
9:281-284; 165A3:53-54; 4:138; 5:237-238;
6:296-297; 7:363-368; 166A6:77-78; 7:154-
156; 8:177-178; 9:238-239; 10:295-297;
11:350-356; 169A5:208-210; 6:265-267;
170A3:53-56; 4:103-106; 5:158-162; 6:194-
197; 7:219-221; 171A_A3:27; 4:45; 6:84;
171B_A3:51; 4:97-98; 5:175, 179; 6:246; 7:323;
172A3:37-38; 4:83-92; 5:164-165, 168-174;
6:255-259; 174A_A3:43-50, 54-55; 4:104-113;
5:157-160, 187-189; 174AX_A1:15-16;
174AXS_A1:14, 52; 2:48; 3:18-19, 59-60; 6:19-
20; 7:11-13; 175A9:231-232; 10:276; 11:315-
317; 12:344-345; 13:390, 392-395; 14:433-434;
15:460; 175B2:1-11; 177A3:4-5; 4:6-7; 5:5; 6:5-
6; 7:4-5; 8:7-8; 9:6-7; 178A4:4-5, 10-11; 5:4-9,
11-12; 8:3-6; 180A6:7-15; 7:10-11; 8:4-6; 9:6-
9; 12:4-7; 181A1:19-20; 5:4-5; 6:6-7; 7:5-6;
8:4-6; 9:4-6; 182A4:5-6; 5:4-7; 6:4-5; 7:5-9,
11-12; 8:4-7; 9:4-8; 10:4-8; 11:3-5; 12:4-5;
183A1:19-22, 30; 4:3-4; 9:5-6; 184A4:8-10;
5:6-9; 7:5-7; 8:3-4; 9:6-7; 186A4:15-16; 5:8-9;
188A3:11-12; 4:9-11; 5:8-11; 189A3:10-11;
5:10-11; 6:12; 7:11-12; 190A1:4-5; 194A3:5;
4:7; 5:3, 6; 6:3; 8:4, 9; 9:3-4, 8; 198A3:12-13;
5:10-12; 6:7-9; 7:8-10; 8:7-8; 9:9-10; 10:5, 7;
201A6:8-11; 7:8-10; 8:9; 9:7-9; 10:8-11; 11:8-
10; 12:7; 202A7:6-7; 8:7-9; 9:7-11; 10:6-10;
11:6-8; 12:6-10; 13:6-7; 204A5:3-5; 206A3:22-
24; 207A7:4; 8:4-6; 208A3:5-6; 4:6-8; 5:4; 6:6;
7:5-6; 8:5
magmas, 141B28:355-358
magnetic polarity reversals, 145B32:475-482

- magnetostratigraphy, 132B4:47–55; 150B8:129–143; 152B22:265–269; 162B9:131–148; 173B11:8–10, 19–22; 182A6:59; 194A9:13; 195A4:31; 199A11:21
- major elements, 181B1:27–28
- mass accumulation rates, 154A8:363; 163B15:163–166; 198A3:26; 4:23
- mud, 169S_A2:26–27
- nannofossils, 157A8:409; 177A3:6; 5:9; 6:7; 7:6–7; 8:10; 181A7:14–15; 182A4:13; 5:10; 6:12–13; 7:12–13; 8:11–12; 9:9–10; 10:14; 11:7; 12:9; 182B6:1–11; 184B10:9–10; 190A4:11–12; 5:15; 6:11; 7:9; 9:12; 202A10:11; 205B14:1–26; 207A7:12; 208A4:9; 5:7; 7:10; 8:10
- nitrogen isotopes, 202B1:9–10
- ocean circulation, 154A1:8–9
- ooze, 130B27:453–470; 189B1:4
- organic matter, 149B15:305–313; 157B21:364; 161B31:401–411
- ostracodes, 159B38:525–531
- oxygen isotopes, 152B25:301; 177B(synthesis):44
- paleoceanography, 130B19:333–348; 154B16:239–253; 18:269–297; 27:395–431; 161B37:469–479; 38:481–488; 170B6:1–28; 177B(synthesis):10–19; 183B1:23–24
- paleoclimatology, 130B16:282; 151B31:523; 155B8:169; 175A17:518; 184B22:1–10
- paleoenvironment, 133B12:163–173; 183B9:14
- paleogeography, 160B50:674–675; 180B(synthesis):13–14
- paleomagnetism, 130A9:409; 132B3:37–45; 134B25:448; 145B33:483–490
- palynomorphs, 155B24:397–409; 174AXS_A2:33–35; 3:35; 189A7:32
- pelagic sedimentation, 165A8:380
- phosphorus/aluminum ratio, 181B1:28
- photograph, 198A4:41–45
- planktonic foraminifers, 134A12:411; 138B13:289–319; 154A4:73–74; 5:164–165; 6:240; 7:289; 8:349; 154B1:3–31; 157A7:346–347; 9:453; 10:519; 165A4:155; 5:250; 174A_A5:166; 182A5:11–12; 7:14; 8:14; 10:16; 11:8; 12:11–12; 183A5:10–13; 6:17–19; 194A4:13; 198A4:19; 9:20
- pollen, 151B16:297–305
- porosity, 174A_B7:4–5
- productivity, 178B25:11
- quinones, 205B8:19
- radiolarians, 175B14:1–26; 177A7:12; 8:13; 181A7:22–23
- reef mounds, 182B13:1–29
- rifting, 180A3:5–6
- rock magnetism, 150B19:347–359
- sand, 141B10:133–151; 180B7:20–21
- sea level changes, 133B22:303–313
- sedimentation, 133A(1)8:292–293; 10:385–386; 133B27:399, 402; 138A(1)9:165, 167; 141B31:380–395; 150A8:229–230; 9:280–282; 154B22:331–345; 157B20:343–360; 27:459; 160B43:563–564; 170A1:12; 172A7:311–313; 177B9:3; 182A7:18; 181B3:1–21; 182B1:7–9; 184A5:13; 7:14; 9:16; 184A1:36–37; 184B10:10; 185A1:53; 4:37
- sediments, 133A(1)5:144; 133B42:627; 139B34:559–564; 141B22:287–297; 23:299–305; 150A6:75; 150B21:377–384; 150X_B4:50, 53; 7:75–79; 154B7:135–149; 161B5:71–75; 174A_B4:1–18; 175A16:489; 177A1:15–16, 20–21; 180A1:14–15; 180B6:1–53; 182B9:1–15; 184A1:18–20; 184B14:1–10; 19:1–21
- seismic data, 133B23:315–325; 149B39:619; 150A6:112–113
- sequence stratigraphy, 133B25:353–364; 166A3:37; 174A_B(synopsis):2–5, 10–11
- silicoflagellates, 183B11:3–4
- silty turbidites, 134B7:105–106
- Site 803, 130A5:118–120
- Site 804, 130A6:182–187
- Site 903, 150A7:184–185; 8:241–242
- slope sediments, 150B12:229–239
- sponge spicules, 177A9:10
- stable isotopes, 181B10:1–20; 184B2:13–15
- stratigraphy, 135B54:857–877; 141B17:235; 145B29:452; 150A6:80; 174AXS_A7:39; 177A9:12; 178B36:12–13; 196A1:4; 202A7:57
- strontium isotopes, 174AXS_A3:44–46
- surface water, 151B30:493–514
- tectonics, 134B2:36–43; 141B13:184–186; 160B54:775; 204B2:9–11
- tephra, 152B5:62–64; 186B9:1–29
- thermocline, 138B22:511–512
- time series, 167B32:360–362
- total organic and inorganic carbon, 201B8:3
- tunicate spicules, 133B28:447–453
- turbidites, 135B7:101–130; 149B12:281–294; 45:696, 701; 46:705–712; 157B30:523–531; 166B5:48; 181A1:22; 190/196B3:11
- unconformities, 150A6:89–90
- uplifts, 160B54:733
- upper water column, 154B17:255–268
- volcanics, 132B5:57–66; 136B4:53–63; 151B17:309–331; 201B19:8–10
- volcaniclastics, 135B3:50–74
- volcanism, 157A2:21–22
- zonation, 131B1:13; 167B1:12–14
- See also* Calabrian; Dansgaard–Oeschger Events; deglaciation; Eemian; ice age; Last Glacial Maximum; Maastrichtian–Pleistocene interval; mid-Pleistocene climate revolution; mid-Pleistocene Climate Transition; Miocene/Pleistocene boundary; Miocene–Holocene interval; Miocene–Pleistocene interval; Miocene–Pleistocene sedimentary record; Nukumaruan; Oligocene–Holocene interval; Oligocene–Pleistocene interval; Pliocene–Pleistocene assemblages; Pliocene/Pleistocene boundary; Pliocene–Holocene interval; Pliocene–Pleistocene interval; Pliocene–Quaternary interval; Sicilian; Wisconsinan
- Pleistocene, lower
- biostratigraphy, 204A8:10; 9:9–10
- clay, 190/196B4:9–10
- clay mineralogy, 204B7:1–15

- deformation, 204B3:4–5
foraminifers, 202A11:11
insolation cycle, 161B13:172–173, 175
lithology, 180A5:10–18; 181A3:8; 4:5; 183A7:4–5;
204A3:7–8; 4:7–10; 8:6–7; 10:7–9; 11:6–7
magnetostratigraphy, 182A7:18
nannofossils, 177A9:9
planktonic foraminifers, 182A9:11–12; 182B3:35, 38
silicoflagellates, 185B4:9
tephra, 181A8:52
See also Castlecliffian; Haweran; Kapitean; Santernian;
Santernian/Emilian boundary
- Pleistocene, lower–middle
biostratigraphy, 175A8:206–207, 209
lithology, 181A3:6–8; 204A3:5–7; 4:5–7; 6:5–7; 7:4–6;
9:5–7; 10:5–7; 11:5
oxygen isotopes, 177B12:1–20
paleoclimatology, 177B14:1–23
- Pleistocene, lower/upper boundary, foraminifers,
202A9:14; 10:12
- Pleistocene, middle
carbonate dissolution, 154B15:229–237
diatoms, 202A9:16; 10:14; 11:12; 13:12; 204B6:2–3
lithology, 155A7:165; 20:600–603; 22:685; 183A5:4,
13; 204A4:5; 6:4–5; 7:3–4; 8:7–8; 4; 10:4–5;
11:2–5
paleoceanography, 154B14:207–228
paleoclimatology, 172A7:314–318; 184B11:1–21;
14:12
paleoproductivity, 154B18:269–284
sedimentation rates, 177A8:15
total organic and inorganic carbon, 201B8:4
- Pleistocene, middle–upper, lithology, 174AXS_A2:16;
181A3:5–7; 204A3:4–5; 6:3–4; 9:5
- Pleistocene, upper
age models, 202A3:14
biogenic component, 167B14:203–206
biostratigraphy, 138B34:695–714; 175A6:155–159;
177A8:12; 181A1:26; 198A4:17; 202A5:8–10;
8:17; 12:11
correlation, 155B39:601–605
cycles, 134B13:293–308; 146B(2)3:31–44
geomagnetic field intensity, 145B31:469–474
glacial diamicton, 178B34:3–4
high-potassium volcanism, 180B6:19
inorganic geochemistry, 181B9:6, 9
isotope stratigraphy, 182B15:1–13
lipids, 175B5:1–26
lithology, 155A16:466–467, 470; 17:507–510; 18:541–
545; 19:572–576; 20:595, 599–600; 21:637–638,
641–645; 169A4:163–167; 174AXS_A4:12;
180A5:7; 181A4:4–5; 6:5–6; 183A6:4; 185A4:11–
12; 194A4:6; 204A4:4
magnetostratigraphy, 182A7:18
opal, 177B2:1–5
organic matter, 201B4:1–21
paleoceanography, 151B25:437–444; 167B8:141–144;
32:358–362
photograph, 198A4:41, 45
radiocarbon dating, 201B15:1–15
sedimentation, 182B8:1–24; 194B4:1–13
- sediments, 139B7:105–111; 164B31:313–323
stable isotopes, 172B9:1–14; 178B20:3–4
terrigenous component, 167B18:227–234; 198B19:1–
7
See also Weichselian; Younger Dryas
- Pleistocene/Holocene boundary
biostratigraphy, 139B2:46–47; 146B(2)17:238;
169A3:58
carbon/nitrogen ratio, 201B4:5
depth, 169A3:63; 4:170
isotope stratigraphy, 155B16:287–289
lithology, 201A11:12
mass accumulation rates, 201B15:6
paleoclimatology, 169S_A2:17
photograph, 204A11:27
sediments, 166A11:372; 201B15:5
seismic facies, 166A6:110
vs. depth, 202A4:29
- Pleistocene–Holocene interval
biostratigraphy, 161B16:228, 230
organic matter, 201B4:1–21
paleomagnetism, 202B1:8
radiocarbon dating, 201B15:1–15
sedimentation rates, 201B15:1–15
seismic sequences, 166A7:166–167; 8:203–204; 9:264;
10:325, 327; 11:371–372
tectonics, 161B44:570
- Pleistocene surfaces, seismic unconformity, 150B16:302–
304
- pleochroism
augite, 163A3:27
lithology, 195A3:13
pumpellyite replacement, 126B12:186
- Plinthic Acrothox, Hawaii, 144B19:394
- Pliocene
A Hiatus, 207A5:24
age models, 138B15:343; 167B1:23; 175B22:1–19
astronomical calibration, 154B20:302–304
basement, 183A1:35
basins, 161A1:11
benthic foraminifers, 154A8:353; 160B2:18, 20;
182A4:21; 5:14; 11:10
biochronology, 167B1:25
biofacies, 174A_B(synopsis):7
biogenic opal, 184B21:1–12
biohorizons, 167B1:14–23
biostratigraphy, 131A6:99–109; 131B1:6;
133A(1)5:151–153; 8:261–264; 9:311–312;
15:627–629; 133B3:39–49; 47:697–704;
134A7:108–110; 8:150–152; 9:195–198; 13:499–
500; 134B10:200, 216–217; 12:278, 282;
135A(1)4:112–116; 7:306–308; 8:360, 9:419–
422; 10:524–526; 11:606–614; 135B13:191–205;
14:207–229; 17:267–284; 138A(1)9:131, 134–
135, 138–142; 12:346–352; 138B9:163–176;
141B14:193–211; 15:213–221; 16:223–233;
30:373–377; 145A6:221–223; 145B1:3–19; 4:55–
91; 5:93–116; 37:560–574; 146B(1)24:369–374;
149A6:177; 7:225; 151A13:416; 151B3:39–59;
4:61–74; 35:641–642; 152B11:147–160;
156B3:49–56; 157A4:73; 6:151; 157B10:118–

- 120; 159B34:449–465; 161B14:185–195;
162B1:3–17; 164A5:81; 6:115–116; 9:291;
165A3:64; 165B1:11–13; 166A6:84–88; 7:156–
158; 8:181–185; 9:243–245; 10:305–309;
167B1:3–40; 170A3:61–70; 4:117–126; 5:163–
167; 6:199–201; 7:227–232; 170B1:1–58; 2:1–22;
5:1–63; 172A6:260–262; 7:319–321;
174A_A3:58–65; 4:115–120; 5:163–168;
175A9:241–251; 10:283–291; 11:317–320;
12:351–363; 13:398–406; 14:434, 436, 439–442;
15:465–468; 177A1:22–23; 4:9–14; 178A4:13–
16; 5:58; 180A5:24–27; 6:43–48; 181A5:8–15;
6:13–17; 182A1:10–12, 31, 40; 183A6:11;
184A7:10–12; 9:12–14; 186A4:23–26; 5:17–21;
188B6:6–7; 191A4:19–20; 191B2:1–34; 194A3:8–
11; 9:9–12; 202A7:11–15; 204A3:10–13;
208A1:27
- calcareous nannofossils, 130A8:308, 311; 9:395–396;
130B11:181–184; 132B2:17, 19; 133A(1)4:95–
96; 134A12:409; 138B12:233–286; 145B39:599–
632; 149B5:147–164; 150B4:53–61; 154A4:69–
72; 5:161–163; 157A7:342–343, 346; 9:449;
10:517; 157B8:85–96; 159B37:518–519;
160B12:155–165; 165A4:152; 5:249; 168B4:40–
43; 174A_B5:1–16; 177B7:1–14; 186B4:4–7;
188A3:26–30; 198B2:3
- carbon isotopes, 154B:501–505
- carbonates, 151B24:415–434; 160B35:447–451
- channels, 160B37:477–478
- chemostratigraphy, 157B31:535–558; 160B2:17, 21
- chronostratigraphy, 138B43:839–854; 160B8:101
- clay mineralogy, 133B30:467; 178B8:1–29; 189A5:19
- continental margins, 133B51:755–762
- cyclic processes, 138B29:633–635; 178B32:14–15
- deformation, 192A1:6
- deposition, 157A7:340–341; 157B27:453; 180A1:18–
19
- diagenetic dolomite, 201B13:5–6
- diatoms, 138B29:635; 145B7:134–15; 146B(1)4:65–73;
151B29:483–492; 167B3:63–110; 6:119–125;
177B11:1–10; 178B25:6–7; 183B9:7; 185B2:1–
31; 186B2:6–10; 188A3:30–36; 4:22–23;
188B6:1–25
- dinocysts, 151B13:243–253; 178B2:2–4; 189B2:9; 5:42
- evolution, 180A3:4–5
- foraminifers, 132B2:29; 151B10:187–196; 157A8:411–
412; 181A7:18; 8:16; 9:12–13; 186B7:4;
188A5:15–16; 188B4:4–8, 21–22; 207A8:14–15;
208A4:11–12; 5:9–10; 7:13; 8:14
- forearc wedges, 205B1:16
- gateway history, 189B1:17–19
- geochronology, 141B35:425–426; 157B19:329–341
- geologic timescale, 205B14:19
- glaciation, 162A1:15; 178B(synthesis):1–40
- heavy minerals, 174A_B6:1–11
- hiatuses, 149B6:185–186; 150A7:189; 160B40:524;
177A1:14, 21
- ice-rafted debris, 177B5:1–6
- intensification of Northern Hemisphere glaciation,
175B18:1–24
- isopach maps, 157B28:492–493
- kerogen, 164B5:55–56
- limestone, 143A10:376
- lithofacies, 133A(1)3:59–60; 4:86–88; 133B19:273–
274; 150B10:171–187; 161B2:21–36
- lithology, 130A7:230–231; 8:297–307; 9:375–383;
131A6:88–89; 133A(1)6:181–182; 7:206–207;
8:256–259; 9:305–307; 10:351; 11:423–427;
15:623–627; 16:694, 696; 17:776–777; 18:808;
134A7:101–108; 8:145–146; 9:186–187, 189–
190; 12:402–403; 13:493–495; 135A(1)5:193–
201; 6:255–257; 7:297–301; 8:349–351; 9:410–
414; 10:500–503; 11:589–590; 135B52:829–838;
136A4:39; 138A(1)9:124–127; 10:191–208;
11:269–271, 275; (2)13:681–683; 14:740–743;
15:811–813; 16:896–897; 17:971–974; 18:1028;
19:1065–1066; 141A6:81–84; 7:164–170; 8:246–
248, 251; 9:309–315; 144A3:47; 4:111, 113;
5:151–152; 10:338–339; 11:443–444; 145A3:41–
44; 4:86–87; 5:128, 130; 6:216; 7:306; 8:340–
341; 146A(1)5:136–137, 141–142; 7:308–309,
314–315; 149A4:47–52; 5:118–122; 6:152–155;
7:218–219; 150X_A1:14–15; 151A5:62–63;
6:118–119; 7:166, 171; 8:227–230; 9:275–277;
10:322–326; 152A11:195–196; 12:261–264;
152B1:32–34; 154A4:60–66; 5:156; 6:235–237;
7:283; 156A7:202–203; 157A7:329–333; 8:398,
402–405; 9:437, 443–445; 10:507–512;
159A5:75–77; 6:162–166; 7:226–227; 8:262–
264; 160A5:92–93; 6:129–130; 7:160–161;
8:220–222; 9:294–295; 10:339–340; 11:381, 383;
12:421–423; 13:452–454; 14:469–474;
161A4:59–64; 5:118–121, 125, 128–131; 6:188–
193, 196; 7:304–306; 8:357–362; 9:393–397;
162A3:55, 58, 61, 64–65; 4:101, 105–108; 5:146,
149, 152; 6:178, 181, 184; 7:231; 8:261; 9:298;
10:350, 353–356; 164A5:69–79; 6:109–110;
7:179–182; 9:284; 165A3:53–55; 4:138, 142;
5:237–241; 6:297; 166A6:77–78; 7:155–156;
8:177–179; 9:238–241; 10:297–298;
167A(1)4:55; 5:89; 10:245–246; 12:318–320;
14:395; 15:437–438; 16:465–468; 170A3:53–57;
4:103–106; 5:158–162; 6:194–197; 7:219–221;
172A6:255–258; 174A_A4:104–111; 5:160;
174AXS_A3:19–21; 175A9:232–233; 10:276,
281; 11:315–317; 12:344–351; 13:390–395;
14:433–434; 15:460; 175B2:1–11; 177A3:4–5;
5:5; 6:5–6; 7:5; 8:8; 178A1:6–7; 4:4–13; 5:6–12;
8:4–9; 180A6:13–24; 8:5–15; 10:4–12;
181A1:19–20; 3:8; 5:4–5; 6:7–8; 7:5–7; 8:10–11;
9:4–6; 182A1:9–10; 4:6–8; 5:7; 6:4–5; 7:8–9, 11;
9:8; 12:4–5; 183A1:19–22, 30; 6:4; 7:4–5; 9:5–6;
184A4:8–10; 9:6–7; 185A3:6; 4:11–12;
188A3:11–12; 4:9–11; 189A3:10–11; 4:7–8;
5:10–11; 6:12–13; 7:11–12; 190A1:4–5; 4:7–8;
5:8–9; 8:5–9; 9:6–8; 190/196B4:3–4; 12:3;
193A1:4; 194A3:5; 5:3–4, 6; 6:4; 196A3:18;
198A3:12–13; 5:10–12; 6:7–9; 7:8–10; 8:7–8;
9:9–10; 199A8:5; 9:5–6; 10:6–7; 11:7; 12:8; 15:4;
201A6:8–11; 7:8–10; 8:10–11; 9:9–11; 12:7;
202A7:6–7; 8:9–10; 9:7–11; 10:6–10; 12:6–10;

- 206A3:22–24; 207A8:4–6; 208A3:5–6; 4:6–8;
5:4–6; 6:6; 7:5–6; 8:5
low-potassium calc-alkalis, 180B6:19
magmas, 141B28:355–358
magnetic intensity, 151A6:127
magnetostratigraphy, 130A7:248–249; 132B4:47–55;
138B5:62, 65; 6:84–85; 152B22:265–269;
162B9:131–148; 173B11:8–10, 19–22; 182A6:59;
195A4:31; 207A8:20–21; 208A7:20
mass accumulation rates, 130B44:736–737;
154A8:363; 163B15:163–166; 198A4:23
methane, 188B15:5–6
mixed-layer oceanography, 202B13:1–27
nannofossils, 157A8:409; 177A3:6–7; 5:9–10; 7:7;
181A7:14–15; 182A4:13; 6:13; 8:12; 11:8;
184A4:11–13; 184B10:8–9; 190A4:12–13; 5:15–
16; 6:11; 7:9–10; 8:11; 9:12–13; 194A6:7;
202A9:12–13; 10:11; 205B14:1–26; 206A3:27–
29; 206B2:5–6; 208A4:9; 5:7–8; 7:10; 8:10
ocean circulation, 154A1:8–9
ooze, 130B27:453–470; 189B1:4
organic matter, 157B21:364
ostracodes, 151B11:197–201
oxygen isotopes, 202B1:5
paleobathymetry, 133B6:85
paleoceanography, 130B19:333–362; 151B1:14;
154B27:395–431; 167B32:369–370; 170B6:1–28;
183B1:23–24
paleoclimatology, 151B31:522–523; 160B19:227–248;
167B20:243; 180B11:1–15; 181B1:5, 48–51;
202B1:10; 12:1–51
paleoenvironment, 145B15:244; 151A13:419;
183A1:26
paleogeography, 160B50:674–675
paleomagnetism, 132B3:37–45; 135B47:763–783;
177A1:23–24
palynomorphs, 174AXS_A2:33–35; 3:35–36; 188B3:6,
9; 189A7:32
Panama series reflectors, 130A7:276
planktonic foraminifers, 134A12:411; 154A4:74–75;
5:164–165; 6:240; 7:289; 8:349; 154B1:3–31;
157A7:347; 9:453; 10:519; 165A4:155; 5:250;
167B2:45–54; 5:115–117; 182A7:14; 182B3:7–8,
35, 38; 183A6:17–19; 189A3:25; 4:12; 5:23; 6:30;
7:27; 194A4:13; 198A4:19; 9:20
pollen, 151B16:297–305
quinones, 205B8:19
radiolarians, 130A8:315; 9:407; 138B11:191–232;
20:474; 175B14:1–26; 177A8:13; 181A7:22–23;
188A3:36–38; 189A4:13–14
rhyolites, 145B23:371
rifting, 180A3:5–6; 180B2:13
sand, 141B10:133–151
sapropels, 160B16:199–217
sea level changes, 182A1:31
sedimentary basins, 134A1:15–16
sedimentary cover, 161B44:562
sedimentation, 133A(1)8:292–293; 138A(1)9:165,
167; 141B31:380–395; 146A(1)5:217–221, 225,
229; 146B(1)2:42–43; 154A7:327; 154B22:331–
345; 157B20:353; 159A5:96; 6:184; 9:313;
166A9:246; 180A1:9; 181B3:1–21; 184A1:36–37;
7:14; 9:16; 184B10:10; 185A1:53; 4:37;
189B10:9–13, 18–20; 210A3:63
sediments, 133A(1)5:144; 133B42:627; 141B7:95–104;
22:287–297; 23:299–305; 144B55:973–981;
149B14:301–304; 150X_B7:75–79; 161B5:70–75;
44:568; 175A16:489; 177A1:15–16, 20–22;
180A1:14–15; 180B6:1–53; 184A1:21;
184B12:1–25; 14:1–10; 190A1:26
seismic data, 149B39:619; 166A6:112; 7:167; 8:204;
9:264; 10:327
sequence stratigraphy, 166A3:37
silicoflagellates, 183B11:3–4
silty turbidites, 134B7:105–106
Site 803, 130A5:118–120
Site 804, 130A6:182–187
Site 1197, 194A8:4, 9
stable isotopes, 138B15:337–355
stratification, 202B12:1–51
stratigraphy, 135B54:857–977; 145B29:452;
161B43:545; 177A6:12; 178B36:11–12;
196A1:3–4; 202A7:57
strontium isotopes, 174AXS_A3:44–48
subsidence, 180B(synthesis):10–12
surface water, 151B30:493–514
tectonics, 134B2:33–38; 141B13:184–186; 160A4:56–
58; 160B54:774–775; 161B26:345–355
tephra, 152B5:62–64; 186B9:1–29
terrigenous sediments, 154B20:299–318
thermocline, 138B22:511–512
transgressions, 182B3:18
tunicate spicules, 133B28:447–453
turbidites, 135B7:101–130; 149B12:281–294; 45:696,
701; 46:705–712; 157B30:523–531; 166B5:48;
190/180B9:1–30; 196B3:11
unconformities, 135B22:367–370; 198A9:25
upper water column, 154B17:255–268
upwelling, 164B33:338–339
volcanics, 132B5:57–66; 136B4:53–63; 151B17:309–
331; 201B19:8–10
volcaniclastics, 135B4:51–74
volcanism, 135B3:48; 157A2:21–22
well-logging, 166A10:324
zonal assignments, 131B1:13
See also Cretaceous–Pliocene interval; early Pliocene
problem subzone; Eocene–Holocene interval;
Messinian/Pliocene boundary; Miocene–Holo-
cene interval; Miocene–Pleistocene interval;
Miocene/Pliocene boundary; Miocene/Pliocene
unconformity; Miocene–Pliocene interval; Mio-
cene–Pleistocene sedimentary record; Oligo-
cene–Holocene interval; Oligocene–Pleistocene
interval; Pliocene/Pleistocene boundary
Pliocene, lower
algae, 133B5:71
biohorizons, 167B1:21, 23
biostratigraphy, 130B16:283; 133B8:97–105; 166B1:3–
12; 15:155–166; 178A6:42; 178B13:1–22;
180B12:1–5; 182A1:29; 6:17; 8:15–16, 18; 9:11–
12; 11:8–9; 12:12; 182B3:10–13; 6:1–19;
183B10:1–17; 185B4:1–18; 189A4:16; 5:31;

- 198A4:20–21; 201B16:6; 202A9:15; 10:13;
204A3:13; 208A8:10
cyclic processes, 166B7:82; 178B25:8, 23–24
epiclastic sedimentation, 157B17:293–313
Ethmodiscus ooze, 167B15:207–212
lithology, 174A_A3:45; 177A5:5; 180A9:12–17; 12:16–
19; 182A8:7; 11:5; 186A4:16–17; 5:9–10;
188B9:1–16; 195A4:11–12
mass flow deposits, 160B37:465–481
paleoceanography, 154B21:319–330
paleoenvironment, 151A13:419; 178A6:28; 195A4:19
productivity, 178B23:14–15
sand, 180B7:18–19
sedimentary facies, 160A17:516; 160B51:686–687
sedimentation, 133A(1)10:385; 138B1:14–16;
167A(1)10:266; 180A1:6
slumping and debris flows, 133B27:397, 399
stratigraphy, 188B1:9–11
total organic and inorganic carbon, 201B8:4
volcanic ash, 162B16:217–230
See also early Pliocene problem subzone; Opoitian;
Zanclean
- Pliocene, lower–middle
 biostratigraphy, 207A8:11
 paleoenvironment, 183B9:14
- Pliocene, lower/middle boundary, biostratigraphy,
 167B1:21; 177B7:5
- Pliocene, lower–upper, sand, 180B7:19–20
- Pliocene, lower/upper boundary
 age models, 189B3:5
 biostratigraphy, 177A7:10; 182A1:10–12; 22–23;
 189A3:22; 202A7:12
 placement, 145A3:50
 sedimentation rates, 189B10:10, 16, 19
- Pliocene, lowermost, disconformities, 183B9:11
- Pliocene, middle
 age models, 181A7:35
 Antarctic glaciation, 138B15:349–352
 biostratigraphy, 145B8:141–156; 159B37:518–519;
 167B4:111–113; 185B4:9
 lipids, 175B5:1–26
 lithology, 180A9:9–12; 12:7–10
 paleoclimatology, 145B3:43–53; 160B18:219–226
 paleothermometry, 202B1:5
 silicoflagellates, 185B4:9
 warm period, 145B38:590–591
- Pliocene, middle–upper
 biostratigraphy, 181B1:21–22; 208A8:10
 lithology, 180A5:10–18
- Pliocene, middle/upper boundary, biostratigraphy,
 208A5:9
- Pliocene, upper
 biogenic sediments, 201B14:8–11
 biostratigraphy, 130B46:755–759; 133B8:97–105;
 175A3:57–69; 177A6:7; 8:10; 178A4:62;
 178B26:1–21; 181A8:16; 9:12; 182A5:11–12;
 6:17; 8:14; 10:19; 12:11–12; 182B3:9, 11;
 183B9:13; 184A6:7–8; 184B6:1–9; 189A4:16;
 5:30; 7:25; 202A9:16; 10:14; 204A10:11
 carbonates, 133B17:235–254; 154B15:229–237;
 167B32:369–370
 clay, 189B11:5; 190/196B4:9–11; 204B7:1–15
 cyclic processes, 161B13:172–173, 175; 175B(synthe-
 sis):80; 178B25:7–8, 21–22
 debris flows, 161B6:77–81
 deepwater circulation, 177B(synthesis):21
 deformation age constraints, 204B3:4–5
 deposition, 162B17:233–246
 glaciation, 145B21:315–329; 151B3:54–55
 green clay layers, 184B15:1–23
 ice-rafted debris, 177B(synthesis):9
 impacts, 178B9:1–6
 inorganic geochemistry, 184B12:25
 lithology, 133A(1)16:688, 691–692; 167A(1)6:132–
 135; 7:161; 177A4:6–7; 7:4–5; 180A9:8–9; 12:4–
 18; 182A4:6; 8:4–7; 9:5–7; 10:8; 183A3:4;
 184A6:4–7; 7:5–7; 186A4:15–16; 5:8–9; 194A6:3;
 9:3–4, 8; 200A3:12; 201A10:10–11; 202A8:7–9;
 11:7–10; 13:6–7; 204A3:7–8; 10:7–9; 11:6–7
 magnetostratigraphy, 182A1:37–38
 paleoceanography, 154B16:239–253; 157B7:73–82
 paleoclimatology, 181B1:33
 phosphatic hardgrounds, 133B36:525–534
 photograph, 182A7:38
 productivity, 178B23:15–16
 sedimentation, 133A(1)10:385–386; 177A8:15;
 182B1:7–9
 sediments, 183A1:13
 shelf rejuvenation, 133B27:399
 stable isotopes, 181B10:1–20
 tectonics, 204B2:9–11
 total organic and inorganic carbon, 201B8:3
 trachytic ashes, 183A6:35–36
 volcanic rocks, 141B4:51–57
 See also Gelasian; Mangapanian; Mitchellian; Piacen-
 zian; Waipipian
- Pliocene, upper?, biostratigraphy, 182A10:16–17
- Pliocene, upper/lower boundary, biostratigraphy,
 194A5:9; 6:7
- Pliocene, upper–Pleistocene interval, foraminifers,
 202A11:11–12
- Pliocene, uppermost, biostratigraphy, 182A1:17, 20, 26,
 34
- Pliocene–Holocene interval
 dolomite, 201B13:6–8
 marine sediments, 161B7:83–97
 sedimentation, 172B(overview):1–15
- Pliocene–Miocene interval, sedimentation, 190A1:6–7
- Pliocene/Pleistocene boundary
 age models, 189B3:5
 biosiliceous productivity, 127/128B(1)17:313
 biostratigraphy, 126A2:21; 126B18:271–272, 281;
 127/128B(1)12:208; 15:250; 128A1:28; 4:160;
 130B11:181; 131B1:5; 133B47:698;
 141B14:193–211; 152B12:173; 157A6:151;
 157B10:117–118; 161B35:443; 38:484–485;
 166A7:156–158; 8:181–185; 9:243–245;
 166B1:3–12; 175A10:283–291; 175B(synthe-
 sis):94–95; 182A8:15; 10:15–16; 184A9:14;
 185B4:9; 186A1:10; 186B7:4–6; 189A3:22; 7:22–
 23; 189B6:5–6, 9–12; 194A6:8; 201B16:6;

- 202A9:14; 10:13; 11:11; 204A10:12; 11:11;
208A4:11; 5:9; 6:11, 13–14; 7:13; 8:13–14
Cagayan Ridge, 124A12:339; 14:411
carbon burial, 175B6:8
carbonate compensation depth, 157B30:525–529
carbonates, 175B(synthesis):84, 86–87
Celebes Sea, 124B27:372
chronostratigraphy, 160B8:101
correlation, 160B12:160–164; 161B7:86; 13:166, 169
debates over boundary, 124B10:141
deposition, 167A(1)8:181, 183; 202A10:8–10
glaciation intensification, 145B11:184–185
ice rafting, 145B12:195–204
lithology, 167A(1)6:135; 177A3:5; 8:7–8; 182A8:10;
193A1:4; 206A3:23
magnetostratigraphy, 114B20:361; 173B11:13;
188B13:8
nanofossils, 161B16:226; 177A6:7; 7:6–7; 181A3:12;
184A4:12; 184B10:9; 189A4:10; 7:15; 189B6:4;
190A4:12; 5:15; 6:11; 9:12–13; 204A3:12–13;
206B2:5; 208A7:10; 8:10
oxygen isotopes, 177B(synthesis):43
Pacific Ocean W, 124B2:18
paleoclimatology, 184A1:15–18
physical properties, 182A1:18
placement, 145A3:50
sand fraction, 175B(synthesis):93
sedimentation, 130A5:130; 133A(1)5:170–171;
166A9:267; 177A4:15; 189B10:10, 16
sediments, 114A8:413; 129A4:176, 194; 175B(synthe-
sis):92
seismic stratigraphy, 123B33:589; 166A10:325
Site 765, 123B39:723
Site 794, 127A4:97; 127/128B(2)77:1221
Site 795, 127A5:192; 127/128B(2)77:1223
Site 796, 127A6:251, 271; 127/128B(2)77:1223
Site 797, 127A7:351, 355–356; 127/128B(2)77:1223
Site 798, 127/128B(2)77:1224; 128A4:162, 166
Site 799, 127/128B(2)77:1224; 128A5:301
Site 804, 130A6:193–194
stable isotopes, 114B26:475
stratigraphy, 124A10:144; 11:224; 12:315, 317;
124B2:18; 10:133–134, 148–150; 11:165–166
tectonics, 161B44:570
See also Calabrian
- Pliocene–Pleistocene interval
biostratigraphy, 159B39:533–538; 161B16:224–226;
162B6:83–97; 175B(synthesis):27–28;
177A5:12–13; 7:8; 181B1:17–18, 22; 183B9:45–
46; 188B13:12–14; 198A1:56; 202A8:18;
202B11:1–19; 208A6:13–14
carbonate platforms, 182A2:20
cyclicality, 188B13:12
deposition, 166A2:14–18
geochronology, 161B12:148–155
hemipelagite, 161B9:111–116
HiRISC section, 188B13:1–38
lithofacies, 161B4:57–68
magnetic field, 162B(appendix):274–275
magnetostratigraphy, 162B8:113–130; 165A4:160
opal, 175B4:1–16
organic matter, 161B29:383–390; 175B6:7–8
paleoceanography, 159B42:575–583; 172A1:7–11
paleoclimatology, 162B(appendix):273–275; 183B9:14
paleoenvironment, 159B41:557–574
paleomagnetic stratigraphy, 183B9:49
productivity, 175B(synthesis):28–30
reflectance, 198A3:79
sapropels, 161A1:11–12; 161B41:519–527
sea level changes, 181B1:9
sedimentation, 165A4:162; 189B10:13, 16, 20;
194A9:14
tephra layers, 181A8:54
Pliocene/Quaternary boundary, biostratigraphy,
151A5:74; 151B8:157; 10:187–196; 13:244–249
Pliocene–Quaternary interval
biostratigraphy, 160B7:83–111; 8:112; 10:125–135;
185B1:10
inflation and depletion, 152B41:526–530
magnetostratigraphy, 160B5:61–73; 164B39:411–418
mantle, 152A1:14–15; 152B40:479–501; 41:522–528
normal faults, 160A6:127
opal, 175A17:513, 518
oxygen isotopes, 160B14:181–189
paleoceanography, 181B1:22–23
paleocirculation, 181B1:22–23
paleoclimatology, 160B13:167–180; 19:227–248
picrite, 152B31:385
plate tectonics, 160B54:774
present time, 127/128B(2)82:1321
productivity, 160B19:244–245
reconstruction poles, 127/128B(2)82:1325
sapropels, 160B14:181–189; 27:333–348
sedimentation, 160B51:687–688; 164B38:402–404
Site 794, 127/128B(2)50:820
Site 795, 127/128B(2)50:820–821
Site 797, 127/128B(2)50:820, 829
stratigraphy, 127/128B(2)82:1321–1322
sulfate reduction, 164B38:402–404
tectonics, 127/128B(2)82:1316–1317, 1324–1325;
160A1:5–6; 4:73; 7:157, 196–197, 199; 8:217–
218; 12:416–417; 14:466–467; 17:516–517
vertical tectonics, 160A5:88
volcanism, 152B28:348; 32:398; 41:503–533
plumose texture. *See* textures, plumose texture
plumose quench texture. *See* textures, plumose quench
plumose texture. *See* textures, plumose

- plunge, vs. depth of vesicles, 193A4:179
- plutonic activity
- Hercynian, 103B1:7
 - Iberian margin NW, 103B1:5
 - Site 701, 114A8:375
- plutonic rock fragments
- quartzose sand, 190/196B3:7
 - volcaniclastic sand, 180B7:7
- plutonic rocks
- clasts, 157B16:273
 - crystallization, 147A3:64–66
 - geochemistry, 153B10:181–241
 - ice-rafted debris, 183A1:23
 - isotopes, 153B15:305–319
 - lanthanum/ytterbium ratio, 153B10:232
 - leucocratic texture, 126B42:630
 - lithology, 180A5:8–9
 - magnesium number, 153B10:218
 - petrogenesis, 209A1:42, 47
 - petrology, 147A1:13; 153A3:62–64
 - photomicrograph, 180A10:26
 - Prydz Bay, 119A1:8–9
 - sodium oxide, 153B10:232
 - textural photomicrographs, 147A3:65–66
 - See also* hypabyssal rocks; igneous rocks; intrusives; mafic rocks; ultramafic rocks
- plutonic rocks, calc-alkaline, geology, 178B8:4–5
- plutons
- chemical stratigraphy, 176B(synthesis):14–17
 - ferrobasalts, 176B(synthesis):53
 - gabbros, 209B1:15
 - geology, 188A1:7–8
 - lower oceanic crust, 176B(synthesis):20–22; 11:28–29
- pmH
- pore water, 166A7:162; 8:190–191; 9:251–252, 254; 10:313–316
 - sediments, 166A11:363–364
 - vs. depth, 166A9:253; 10:314; 11:363
 - See also* pH
- Poaceae
- Australian grassland pattern, 123B20:423
 - pollen, 133B10:116
 - Site 658, 108B6:94, 99
 - Site 820, 133B9:109
 - Sites 815 and 823, 133B10:116
- pockmarks. *See* seafloor pockmarks
- Podocarpaceae
- Cretaceous, 183B3:10–11
 - Kerguelen Plateau, 120B(2)53:952, 958
 - palynomorphs, 188B3:9
 - pollen, 133B9:109, 111
 - Site 750, 120B(1)17:261
 - Site 820, 133B9:109, 111
- podocarpacean affinity, pollen, 183B3:8
- Pods
- tephra, 186B9:4–5, 11
 - volcanic ash, 170A3:60–61
- poikilitic texture. *See* textures, poikilitic
- poikiloblastic texture. *See* textures, poikiloblastic
- poikiloblasts
- metamorphism, 161B18:255
 - photomicrograph, 161B18:261
- Poisson's ratio
- crystalline rocks, 153B25:445–448
 - fractures, 147B25:427–428
 - serpentinites, 125B34:581–583; 36:606; 195B11:3–4, 12
 - velocity logs, 204B22:7
 - vs. depth, 137/140B24:282–283
 - vs. porosity, 125B34:583–584; 36:606
- Pokrovsky and Schott rates, dissolution, 209B5:31
- polar events, millennial-scale, 202A1:33–37
- polar fauna, planktonic foraminifers, 161B35:449–454
- polar fraction
- gas chromatograms, 160B23:292; 175B5:20
 - lipids, 160B23:286–287, 294–295
- polar fraction, desulfurized, sapropels, 160B23:287–288
- polar wandering
- carbonate platforms, 144B52:932
 - Cenozoic, 129B33:627
 - clockwise rotation, 129B26:477–481
 - hotspots, 144B53:940–942
 - paleosecular variations, 210B15:11–13
 - paths, 129B26:479; 135B47:771–775; 145B32:480
 - seamounts, 197A1:5–7
 - See also* true polar wander
- polar wandering, apparent path
- magnetic lineations, 129B26:471–481
 - Pacific plate, 129B33:621
 - paleopoles, 144B34:600
 - seamounts, 129B26:479
- polar wandering, true
- Aptian, 130B4:51–59
 - basalt lavas, 129B18:348–349
 - diabase sills, 129B18:348–349
 - Hawaiian-Emperor bend, 129B33:628
 - hydrothermal deposits, 129B22:415–427
 - igneous rocks, 129B35:653–669
 - instrumental neutron activation analysis, 129B19:361–388
 - paleoequator, 129B33:627
 - Pigafetta Basin, 129B1:16
 - sediments, 129B1:8, 20, 22; 14:271, 280
 - Site 802, 129B4:124
 - tuffs, 129B4:126
 - volcaniclastics, 129B5:145, 147
- polarity stratigraphy. *See* magnetostratigraphy
- pole positions. *See* magnetic pole positions; Pacific plate
- polished surfaces, pole projections, 141A7:193
- pollen
- abundance, 104B32:639; 33:668; 113A5:117–119; 6:222–223; 7:310; 8:363–364; 9:476; 10:551, 554; 11:639–640; 12:725; 113B24:354; 40:680–690; 41:714–715, 718–719
 - age, 104B32:639; 113B52:927–935; 127/128B(2)83:1335; 155A6:108, 145
 - Antrim (Faeroe Islands), 104B34:669
 - basalt correlation, 104B33:667
 - biostratigraphy, 113A5:110–111; 6:217–218; 7:311; 8:366–367; 9:474–475; 10:552–553; 12:722–723; 113B37:633–635; 52:919, 926–934;

- 146A(2)2:48–49; 146B(2)20:265–279;
174AXS_A1:44–45; 4:28–29; 7:23–24
- Cenozoic, 152B16:221–231
- color photograph, 139B28:506–508
- continental environment, 161B36:462–464
- Cretaceous, 103B23:419–428; 174AXS_A5:48
- Cretaceous–Paleocene interval, 159B24:253–276
- depth and recovery, 159B25:283
- distribution, 103B23:420–423; 35:609–610;
104B33:666; 127/128B(1)28:479, 484–486, 489
- Faeroe Islands, 104B33:668
- geomagnetic polarity, 113B40:681; 52:921–924
- geomagnetic timescale correlation, 113B52:917
- glacial–interglacial cycles, 127/128B(1)23:395
- Greenland, 104B33:669–670
- gymnosperms, 183B3:8
- Ireland N, 104B33:670
- Isle of Mull, 104B33:668–669
- Japan Sea, 127/128B(1)19:328–336; 23:395
- lithology, 104A4:149; 169S_A2:21
- London Basin, 104B33:670
- marine environment, 127/128B(1)18:320–321;
19:337–338
- marine vs. terrestrial records, 155B23:381–396
- mass accumulation rates, 146B(2)20:268–273
- Mesozoic, 188B3:11
- microfossil data, 104A4:146; 104B33:664–665
- Neogene, 133B10:115–125; 178B28:1–22
- occurrence, 174AXS_A4:45–47
- paleoclimatology, 167B17:217–226; 20:239–245
- photomicrograph, 178B28:21–22
- Pliocene–Pleistocene interval, 151B16:297–305
- precipitation, 146B(2)11:160–161
- Quaternary, 133B9:107–114; 161B36:457–468;
202B1:6
- Raggatt Basin, 120B(1)19:286
- ratios, 133B9:110
- Rockall Plateau, 104B33:666, 668
- sedimentation, 146A(2)2:31
- sediments, 145B10:171–176; 167B32:361–362;
188B2:9–10; 3:5–8
- Site 638, 103B38:688–689
- Site 641, 103B35:607, 610–612; 38:692
- Site 643, 104B32:632–633, 637
- Site 750, 120B(1)17:258
- Site 794, 127/128B(1)19:328; 28:471, 482, 485
- Site 795, 127/128B(1)19:328; 28:471, 480, 484
- Site 796, 127/128B(1)28:471, 481, 484–485
- Site 797, 127/128B(1)19:328; 28:479, 483–486;
(2)77:1223
- Site 798, 127/128B(1)18:318–324
- Site 799, 128A5:302–303
- Site 871, 144A3:58, 64
- sources, 127/128B(1)19:332–333
- Spitsbergen, 104B33:669
- stratigraphy, 127/128B(1)28:486, 488; (2)77:1221
- summary, 104B33:665
- taxonomy, 178B28:7–8
- Varimax factor scores, 146B(2)20:277–279
- vegetation, 151B15:289–296
- vs. age, 146B(2)20:268–273; 167B17:219; 20:241–242;
175B19:16
- vs. depth, 146B(2)20:267, 269, 272; 151B16:299, 301,
303; 161B36:461–463; 167B17:219; 32:360;
178B28:13
- zonation, 113B40:676–678; 127/128B(1)28:479, 484
- See also* dinocyst/pollen ratio; grasses; paleovegetation;
palynomorphs; Poaceae; Podocarpaceae;
sequoia pollen; spores; sporomorphs; vegetation
- pollen, angiosperm, vs. depth, 151B15:295
- pollen, lophate compositaceous, 105B25:451; 27:503
- Polyaxons
sediments, 120B(2)43:834
Site 795, 127/128B(1)30:543
- Polychaetes
hydrothermal fields, 158A1:9
oxygen-minimum zones, 112B4:46
- Polycyclolithaceae, photomicrograph, 198B7:80–82
- polydymite
igneous rocks, 209B3:4
iron-nickel-sulfur-oxygen system, 209A3:97
vs. depth, 209B3:10
- polyenes, sediments, 175B10:12–13
- polygenic arenite. *See* arenite, polygenic
- Polygonaceae, palynomorphs, 188B3:15
- polygonalization, photomicrograph, 209A9:71
- polymerase chain reaction
contamination, 205A4:52–53
deoxyribonucleic acid, 201B1:19; 2:3, 7–9
- polymict breccia. *See* breccia, polymict
- polymictic texture. *See* textures, polymictic
- polymineralic aggregates, photograph, 153A3:81
- polymineralic lens, photograph, 153A3:63
- polymorphinids
sediments, 120B(2)23:416
Site 747, 120B(1)23:432
- polymorphs, aluminum oxides, 161B19:266–267
- polynucleotides, goethite, 158B26:357, 359
- polynyas, sea ice, 178B25:9
- Polypodiaceae, palynomorphs, 188B2:11
- polysaccharides
biomarkers, 159B43:596
vs. depth, 159B43:597
- polysulfides, sediments, 146B(2)16:225
- polythionates, sediments, 146B(2)16:225
- polytungstate. *See* sodium polytungstate
- ponding, hydrothermal, sediments, 135B43:700–707
- pontospherids, Indian Ocean W equatorial, 115B15:217
- pop-up structures. *See* structures, pop-up
- porcellanite
Albian–Turonian interval, 159A9:307
Broken Ridge, 121A9:239–240; 13:460; 121B13:267
chemical gradients, 121A12:399, 410
conglomerate pebbles, 127A7:344–345
coring, 124E_A18:133–134
Cretaceous, 198B17:1–45
Cretaceous/Tertiary boundary, 121A14:507
density, 121A6:150
diagenesis, 198A9:15
diagrams, 159A9:305
elastic moduli, 127A5:223

- genesis, 177A1:25–26
 geochemistry, 177A9:13
 ion concentration, 185B11:11
 lithology, 127/128B(2)78:1230–1232; 143A9:306;
 150A8:220; 159A5:78, 80; 6:164–166; 7:227;
 8:264–268; 167A(1)4:56; 10:247; 16:468;
 174AX_A1:22–26; 174AXS_A5:26–28;
 177A1:21–22; 8:7–8; 9:6–7; 182A1:17, 37, 39;
 4:9; 11:6; 12:6–7; 183A8:5–6; 191A4:14;
 192A6:5–6; 195A4:14; 198A3:14; 9:10–11;
 199A12:12
 lower Aptian, 198A9:3–4
 Mariana Basin E, 124E_A18:122–123
 Mascarene Plateau, 115B37:689
 Miocene nodules, 130A8:305
 occurrence, 177A9:51
 organic carbon, 198B1:5
 Pacific Ocean W, 132A1:11
 paleoenvironment, 159A6:176; 159B11:105
 paleomagnetism, 159B20:201, 203
 permeability, 185B11:6
 petrography, 150X_B3:28; 198B16:4–5
 photograph, 159A5:100; 6:165; 7:228–229; 8:265–
 266; 177A9:28, 31; 192A3:73; 198A10:21;
 207A8:45
 photomicrograph, 198A3:75, 78; 198B16:22
 quartz veins, 159B1:4–5
 recrystallization, 185B10:1–11
 redox, 198A9:15–17
 sedimentation rates, 159A5:95
 seismic expression, 127A7:407–408
 seismic stratigraphy, 121A4:79; 6:156; 185A4:4–6
 Site 711, 115B37:689, 696
 Site 748, 120A7:169–170
 Site 749, 120A8:246
 Site 751, 120B(1)1:28
 Site 761, 123B4:97
 Site 795, 127A5:187
 Site 799, 127/128B(1)2:33, 40, 41, 44; 128A5:260, 264
 stratigraphy, 185A1:9–10
 temperature history vs. age, 167B32:352
 thin sections, 198B16:19
 unconformities, 150A8:243
 well-logging, 127A1:27–28; 7:394; 127/
 128B(2)66:1040
 X-ray diffraction data, 177A9:29; 201A9:10, 36
See also chert; temperature history (youngest chert/
 porcellanite bed)
 porcellanite, brown, lithology, 129A2:38; 129B14:268
 porcellanite, calcareous, lithology, 192A6:8; 198A10:5–9
 porcellanite, clayey, lithology, 198A9:10–11
 porcellanite, green, X-ray diffraction data, 201A7:45
 porcellanite, porous, photograph, 185A4:78
 porcellanite, radiolarian
 Aptian–Albian–Cenomanian interval, 129B33:619
 biostratigraphy, 129B12:229
 Campanian–Eocene interval, 129B31:558
 carbonate replacement, 129B3:88
 Cenomanian–Campanian interval, 129B1:10; 31:562
 chemical composition, 129B34:639
 core ages, 129B2:35
 lithology, 129A3:99, 101; 129B2:35; 3:82, 88–89, 92,
 98; 14:268, 269; 185A4:14–16; 198A9:10–11
 microfacies, 129B32:596
 minimum temperatures of formation, 129B3:97
 Oxfordian, 129B32:590
 oxygen isotopes, 129B3:96
 paleomagnetism, 129B23:436
 photograph, 185A4:74–77
 photomicrograph, 129B3:100–105, 108–110
 physical properties, 129B29:508–517
 post-Valanginian, 129B36:686
 recovery, 129B334:635
 Site 800, 129A2:33; 129B2:32
 Site 801, 129A3:112–113; 129B3:92
 thickness, 129B36:690
 Tithonian, 129B32:589
 Tithonian–Valanginian interval, 129B3:93
 Turonian–Campanian interval, 129B1:9
 X-ray diffraction data, 129B3:86
 porcellanite, silicified foraminiferal
 lithology, 171B_A5:180–181
 photograph, 171B_A5:179, 182
 pore aspect ratio, vs. velocity, 142B7:55
 pore collapse, scaly fabric, 156B4:63–66
 pore fluid. *See* pore water
 pore fluid pressure, upper oceanic crust, 148B17:246–
 250
 pore geometry, aspect ratio, 158B23:326
 pore morphology
 well logs, 133B45:663–665
See also porosity; void ratio
 pore pressure
 accretionary wedges, 134B32:571
 carbonate veins, 156B5:88–90
 change vs. axial strain, 204B26:17
 clasts, 195A3:44
 coupled modeling, 112B45:664–667
 décollement zone, 205A1:13
 density, 156B9:125–135
 dewatering, 170B4:4–5
 electrical conductivity, 156B10:143–145
 evolution, 190/196B10:12
 fracture formation, 126B13:205
 permeability, 156B9:132–134; 207B15:15
 sediments, 146B(1)16:275–280; 149B20:370–372;
 156B7:112
 Site 1036, 169A4:196–200; 169B10:16–17
 stress, 146B(1)22:356–357
 venting, 169A4:198–199
 vs. depth, 171A_A3:36; 205A1:52
 vs. scan number, 146A(1)5:205
 vs. time, 186B17:12
 water flux, 186B1:9
 well-logging, 146A(1)5:199–201; 171A_A3:33–34
 pore pressure, excess, vs. vertical consolidation stress,
 204B12:31–47
 pore pressure, modified, vs. bulk permeability,
 156B15:216
 pore pressure, normalized, vs. axial strain, 204B12:49–67
 pore space
 alteration, 148B28:372–373; 192B6:5–6

- basalts, 148B28:367–368
vs. depth, 148B28:374
See also porosity; void ratio
- pore water
accretionary prisms, 131B17:211–220
acetate, 177B3:1–12; 204B17:1–20
advection, 164B22:221
alkalinity, 103A9:251–253; 10:431–434; 11:541;
12:590
alteration, 119B18:372
amino acids, 113B14:179–186; 201B12:1–7
ammonium, 164B17:171–172; 201B5:8–10; 202B9:5
anomalies, 201A1:40
aquifers, 174AXS_A(summary):15
Argo Abyssal Plain-Exmouth Plateau region, 123A3:47
authigenic phases, 131B34:423–425; 164B30:301–312
bacteria, 119B19:384; 160B25:305–306
Baffin Bay, 105A4:103–104; 105B12:175
Barbados Ridge, 110A4:92–101; 110B11:161–164,
167–192; 12:181, 184–186; 26:395–401, 406
barium, 127/128B(1)37:657–659
basalts, 142B3:25–26; 4:32–34; 169A6:279, 281
basement, 127/128B(1)36:646
basement rock and adjacent pore water elemental
variation correlation, 127/128B(2)58:911
Bengal Fan, 116A4:64, 80; 5:110–112, 117–132, 145–
154; 6:165–168; 116B9:117–125; 10:127–132;
11:135–139; 28:348; 34:421, 423
biogeochemistry, 119B18:357, 359; 201B5:5, 7–8
Bonin-Mariana region, 125A12:300; 125B42:683–687
boron, 127/128B(1)36:642; 195B5:1–18
Broken Ridge, 121A6:138; 7:182; 8:212; 9:250
Cagayan Ridge, 124A12:326–330
calcium, 102A3:142
calcium carbonate, 168B8:95–103
carbon isotopes, 172B3:11–15; 174A_B1:1–7;
204B20:1–16
carbonates, 127/128B(1)36:646
cation exchange, 168B7:87–94
Ceara Rise, 154A9:437–439; 154B20:299–318; 34:492
Celebes Sea, 124A10:153–157; 13:356–358
Cenozoic, 208B1:19–20
charge imbalance, 119B18:350; 19:378
chemical gradients, 119B18:359, 361; 125B21:376
chloride, 103A10:433, 434; 11:541; 12:590; 190A1:81
compaction, 204B15:10–11
composition, 134A14:576; 146B(1)30:431–438;
165A3:73–76; 4:165–169; 5:258–261; 6:316–
320, 348; 7:369–371; 166A6:91–95; 7:161–162;
8:189–192; 9:251–255, 267–268; 10:312–317;
11:362–365, 373; 170A3:75; 4:132; 5:177; 6:207;
7:237
compressibility, 161B10:125–127
Conical Seamount, 125B21:375–384; 36:601–603
contamination, 112A14:390–391; 119B18:350–354
corrected for surface seawater, 112B25:440
data from titanium squeezers, 141A6:119; 7:216;
8:280; 9:336; 10:405
deep water, 102B9:130
dehydration and freshwater generation, 125B21:384
deuterium/hydrogen ratio, 124B16:231; 127/
128B(1)36:642
diagenesis, 112B25:425; 124B31:425; 36:499–501;
127/128B(1)40:699; 130A10:530–531;
150B17:316–317; 199A1:14–15; 121A10:286
diffusion, 102B9:131; 105B12:179–180; 119B18:362–
363, 366, 373
dilution, 146A(1)5:188
dissolved components, 119A7:255; 201B9:1–10; 10:1–
10
drilling, 168A1:14
exchange with surrounding rocks, 102B9:131
expulsion, 131B17:216–218; 28:353; 146A(1)1:6–7
Exuma Sound, 101A9:348; 10:396, 411; 11:444
Fick's law relationship, 119B18:362
flow and diagenesis, 139B16:344–348
fluid/solid exchange reactions, 127/128B(2)79:1261
fluid circulation, 125A8:163–164; 21:384; 131A7:282;
166A2:21–22
fluoride, 204B16:1–22
forearcs, 186B1:4
freshened pore water source, 125B21:373–374
freshwater spike, 112B29:487–488
frontal thrust zone, 196A4:29
Galicia margin W, 103A2:35; 8:145, 149, 150; 9:251–
255; 10:430–431, 435; 11:541; 12:586–587;
103B28:479–486; 31:520, 524
gas hydrates, 160B45:569–574; 164A1:8; 164B6:59–
77; 8:79–85; 9:87–99; 25:247–249; 167B32:350–
354; 172A1:9–11; 201A11:37–38
geochemistry, 101B24:364–372; 102A1:5; 102B9:127–
131; 10:138; 105B12:172–173; 113A5:129;
6:236; 8:379; 9:485; 113B10:135–144;
129B14:267–281; 15:283–285; 16:295–302;
121A10:283; 130A2:34; 5:140; 7:254; 8:324–
325; 10:534; 130B31:527–546; 32:549–551;
33:561–572; 131B28:344–345, 352; 31:387–396;
133A(1)4:101–105; 5:154–159; 6:188, 190–191;
7:215–216; 8:265–267; 9:316–317; 10:369–370;
11:429–432; 12:466–469, 473; 13:520–525;
14:581–584; 15:632–634; 16:707–710; 17:781–
784; 133B35:515–516; 48:705–721; 134A7:110–
114; 8:156–158, 161; 9:202–206; 10:278–281;
11:343–344; 12:416–419, 421; 13:505–508;
134B8:112–120; 135A(1)4:126–127; 5:216–219;
6:265–266; 7:316–319; 8:367; 10:534–537;
11:621–625, 628–629; 136A4:46–48, 55–56;
5:69, 71; 136B6:77–83; 138A(1)9:158; 10:221–
225, 228, 231–232; (2)13:698–699, 716–717;
14:749, 752, 774–775; 15:830, 833, 843–844;
16:917–921, 932–933; 17:990–997; 18:1037,
1047; 138B26:602; 139A5:114–115, 120–121,
126–127; 6:188, 191–195; 8:429–437, 441–446,
471–479; 141A6:114–118; 8:271–274, 283–285;
10:368–370; 143A6:136; 143B14:232;
144A3:67–68, 72–73; 4:128–130; 5:178–185;
6:231–232; 10:366; 11:427; 144B43:737–743;
145B45:671–675; 146A(1)4:106, 109; 5:187;
6:271; 7:343–344; 146B(1)10:183–185;
(2)25:331; 149A4:99; 5:136; 6:192; 7:245;
150A6:98–101; 150B17:322; 150X_B24:331–

- 338; 25:343-354; 151A5:81-82; 6:129-130; 7:181-182; 8:239-241; 9:285-286; 10:332-333; 11:366-367; 152A7:84; 8:97-101; 152B25:293-305; 26:307-311; 154A4:87-93; 5:179-184; 6:249, 259; 7:300-304; 8:355, 359-362, 369; 155A6:104-108, 112; 7:149; 8:190-192; 9:217-219; 11:295-296; 12:354; 13:402; 14:426; 15:449-452, 457; 16:475-478, 481; 17:520-521, 527; 18:557-558; 19:583-584; 20:610-614; 21:650-651; 22:674-677; 155B28:469; 156A6:147; 7:234; 156B12:163-170; 157A2:24; 4:77-78; 5:124; 6:154-156; 7:364; 8:418; 9:459; 10:526; 158A9:173; 159A5:111; 6:192-195; 7:243-245; 8:284-285; 160A4:78; 5:114; 7:190; 8:253; 9:312; 10:366; 11:393; 12:436; 13:451; 14:486, 492; 161A4:82-85, 89, 92; 5:144-146, 149-152; 6:233-238, 259, 261; 7:319-323, 332; 8:378-381, 386; 9:404-405, 408, 411; 161B32:413-421; 33:423-432; 162A3:74-76, 79-80; 4:115-116, 119; 5:157-158, 162; 6:192-196; 7:245-248; 8:274-276, 281; 9:308-312; 10:361-363, 373; 164A5:87, 92; 6:128-132; 7:196-199, 203; 8:264-266, 270; 9:297-302; 164A7:205; 164B36:384-387; 165A8:396-398; 165B19:287-298; 166A2:21-22; 3:34-35; 166B9:99-111; 17:179-195; 167A(1)4:73-74, 79-80; 5:104-105, 110; 6:143-145, 148; 7:165-166, 170; 8:191, 193; 9:203-204, 230, 232; 10:259-261, 264-265; 11:294-296, 302; 12:328-329, 339; 13:367-370; 14:405-406, 414; 15:447, 456; 16:473, 475, 478-479; 167B32:343, 346-347; 168A1:11; 4:81-82; 5:142-144; 6:183-184; 168B4:47-48; 9:105-111; 169A3:113; 4:173-174; 5:219; 6:274-275; 169B1:1-16; 10:22-23; 169S_A2:52-53; 170B4:5-6; 171B_A3:77, 83; 4:141-146; 5:216; 6:285-287, 295; 7:333-334, 340; 171B_B2:1-17; 4:4-5; 172A3:59-63; 4:135; 5:217-218, 221-229; 6:286-288, 292; 7:311-313; 173A4:88, 90; 6:151; 7:205-206; 9:290; 174A_A3:74; 4:127; 5:174; 174A_B(synopsis):10; 175A3:72-74, 78; 4:99-102, 105; 5:129-133; 6:161-166, 169; 7:188-191; 8:211-215; 9:255-259; 10:294-299; 11:324-326, 331; 12:367-370; 13:408-410, 415; 14:443-445, 449; 15:472-473, 478; 19:547-553; 177A1:11, 13, 25-26, 59-60; 4:16-17, 88-89; 5:19-22, 94-95; 6:13-15, 77-78; 7:14-15, 77-78; 8:16-17, 97-98; 9:12-14, 67-69; 178A4:21, 161; 5:18-20, 132; 6:14; 7:3, 108; 8:13, 78; 9:15, 82; 180A1:7, 25-26; 5:30-33, 122; 6:54-59, 257; 7:21, 81; 8:131; 9:39-45, 188; 12:36-39, 187; 180B17:1-20; 181A1:18, 20, 23, 30; 3:21-24, 106; 4:18-20, 73; 5:19-21, 60; 6:27-30, 140; 7:37-40, 176; 8:30-32, 132; 9:19-21, 92; 181B1:38; 182A4:98; 5:19, 77; 6:27-30, 101; 7:20-23, 74; 8:23-25, 86; 9:18-21, 70; 10:23, 76; 11:13-14, 42; 12:20-21, 69; 184A1:31-32; 4:100; 5:92-93; 6:62; 7:96; 8:42; 9:117; 184B13:1-15; 185A3:47; 4:26-30, 172-173; 186A1:10; 4:38-41, 198; 5:115; 186B14:1-23; 188A3:43-47, 179; 4:103; 5:89; 188B15:4; 189A3:161; 4:60; 5:158; 6:166; 190A4:16-17, 64, 131-132; 5:20-24, 70, 133-134; 6:15-18, 46, 83; 7:11-15, 38, 73; 8:14-17, 83; 9:15-19, 98; 191A4:20-22; 193A3:70-71, 293; 4:48, 249; 193B4:1-15; 194A3:14-16, 73; 4:21-24, 109; 5:16-17, 100; 6:13-14, 87; 8:17-18, 79; 9:15-17, 70; 3:29-33, 156-158; 4:33-36, 131, 205-206; 195A3:159; 195B1:5-8, 14, 30; 2:8-9, 25; 6:5-23; 9:1-14; 10:1-9; 198A1:61-62; 3:33-37; 4:25-28, 86; 5:26-29, 94; 6:23-26; 7:23-25, 77; 8:20-23, 76; 9:29-30, 108; 199A1:66; 8:15-16, 53; 9:10-11, 41; 10:16-17, 57; 11:25-26, 110; 12:25-26, 115; 13:21-22, 83; 14:59; 15:51; 201A6:14-18, 76-78; 7:13-18, 84-86; 8:13-18, 59-60; 9:12-14, 62-63; 10:12-16, 66-68; 11:12-18, 89-91; 12:55-56; 202A3:12-13, 52; 4:72; 5:12-14, 61; 6:13-15, 64; 7:17-18, 71; 8:22-24, 102; 9:97; 10:89; 11:78; 12:98; 13:71; 204A3:13-19, 108-110; 4:13-15, 106-108; 5:7-8, 56; 6:9-12, 72; 7:9-12, 66; 8:11-13, 83; 9:10-12, 81-82; 10:13-16, 97-99; 11:11-12, 55; 205A4:46-48, 177-178; 5:28-33, 107-108; 6:14-17, 50-51; 205B1:18-21; 2:5; 5:1-21; 206A3:36-41, 357-360; 207A1:17, 26-27, 31, 35, 46-47; 4:24-27, 106; 5:26-27, 115; 6:104; 7:107; 8:26-28, 96; 208A3:20-22, 86; 4:18-20, 82; 5:14-16, 66; 6:22-24, 100; 7:21-23, 74; 8:21-24, 72; 210A3:98
- geology, 190A1:5-9
geothermal gradient, 117A7:153
geriatric cores, 124E_A12:69-71
halogens, 204B14:1-25
high-resolution sampling, 119B18:348, 372; 19:376; 20:393-399; 50:903
hydrocarbons, 131B15:195
hydrogen isotopes, 127/128B(1)36:639, 641-643
hydrogen sulfide, 204B19:1-13
hydrogeochemical regimes, 112B25:414, 437; 135B42:677-688
hydrology, 205B6:1-26
hydrothermal alteration, 169A6:279
in situ samples, 117A11:348-349, 351
Indus Fan, 117A8:177, 179-180, 182
inorganic geochemistry, 119B18:359, 362-363; 130A8:320, 324-326; 9:417-421; 143A6:135-136
interaction with borehole waters, 102B9:127-128
interhole variation, 121A11:335-336; 13:491
isotopes, 121B22:449, 452; 127/128B(1)3:49-56; 139B19:390; 144B58:997-999; 204B13:1-20; 15:7
Jurassic-Cretaceous interval, 129B32:603
Kerguelen sediment ridge, 119A13:490-491, 493; 14:516-518, 520-521; 18:369-371
Kerguelen-Heard Plateau N, 119A5:137-141; 6:185-188, 191-192
Labrador Sea, 105A5:454-457; 6:713; 105B12:175, 179
lateral stress tool (LAST-I), 131A6:240
Legs 52 and 53, 102B9:128
Lima Basin, 112A11:187, 202; 19:826-828; 112B25:416, 420, 424

- Lingayen Gulf, 124E_A13:81
lithology, 129B3:96
Little Bahama Bank, 101A6:130, 137; 7:223, 225;
8:278–280
low-chlorinity composition, 125B21:377–384; 36:603
magnetic properties, 112A12:268; 130A8:318, 320
major cations, 119B18:351; 201B11:1–19
manganese, 181B5:1–5
Mariana Basin E, 124E_A18:124
marine sediments, 131B13:165–174
Mascarene Plateau, 115A5:259–260, 264–265;
115B34:630–634
methane, 172B3:6–7
microbiology, 185A3:53–54; 201A1:1–81
mineralogy, 201A6:11–12
minimum temperatures of formation, 129B3:97
Mohr diagrams, 131B8:106–109
mud, 155B26:435–436
Nankai Trough, 131A6:158, 160–161
Nazareth Bank, 115A4:143–145, 149, 151;
115B34:630–634
New Hebrides island arc, 134B35:613–614
Ninetyeast Ridge, 121A10:289; 11:334, 341–342;
12:418–419; 15:531–532
Northeast Providence Channel, 101A13:533, 536
Northwest Providence Channel, 101A12:496, 498
nutrients, 119B19:379
ocean-terrestrial ground water mixing, 119B19:383
old crust, 102A3:145
organic acids, 135B44:709–714; 144B27:469–474
organic matter, 124B18:239, 241–242; 127/
128B(1)36:646; 201B1:7–8
origin, 164A9:317
overpressure, 156B21:271
oxygen isotopes, 121B22:448–452; 127/128B(1)3:51–
54; 6:84–85; 36:639–643; 40:697–703;
133B32:481–487; 154B17:201–206; 166B8:91–
98; 192B2:4; 201B7:1–23; 207B16:1–11
oxygen-hydrogen isotopes, 116B10:127–132
Pacific Ocean W, 124B36:495
packer experiments, 131A6:195–198
peridotites, 195A1:11–15
permeability, 180B22:6
Peru margin slope sites, 112B25:426–429
pH, 101A5:66; 6:136, 137; 7:225; 8:280–281; 9:350,
351; 10:398–399; 11:446–447; 12:498; 13:534;
103A11:541; 12:590; 127/128B(1)6:94
Pisco Basin W, 112A18:731, 734; 112B25:415, 419,
424, 434–436
pore pressure removal, 131B4:45
pore fluid sampler, 102A3:97
principal results, 188A1:14, 18, 22
quality, 150X_B24:317–341
Rayleigh plots, 201B6:17
reaction zones, 139B20:406
reduction, 201B6:1–21
Salaverry Basin, 112A12:269; 13:321
salinity, 101A5:66; 6:136, 137; 7:225; 8:280–281;
9:350–351; 10:398–399; 11:447; 12:498; 13:534;
103A9:276; 10:433, 434; 11:541; 12:590;
113B10:138–145; 184B13:5–6
sampling methodology, 102A3:141; 102B9:128–129
sand, 169A6:279
saturation vs. depth, 204A4:76; 5:39; 6:51, 53; 7:49,
60; 9:75; 10:89
seawater evaporation, 112B25:424
seawater-rock interaction, 125B21:377–378
sedimentation, 146B(1)2:43
sediments, 129B15:286–287; 130A7:248–254;
131B19:241–242; 149B14:302–303; 20:370–372;
150A6:100; 7:171; 8:237; 9:294; 10:332;
152A6:67; 11:235–236; 155A7:140–141; 12:347–
350; 13:398–399; 14:424; 156A6:144–150;
157A1:8; 157B32:560, 563; 38:628–632;
164B1:4; 168B1:4; 177A1:14; 186A1:15;
195A1:20–22
silica diagenesis, 127/128B(1)36:646; 157B36:609–612
Site 680, 112B25:415, 418, 424
Site 681, 112B25:415, 418, 424
Site 682, 112A14:386, 389; 112B25:417, 421, 436
Site 685, 112A17:626–631; 112B25:417, 422
Site 688, 112A20:911; 112B25:417, 422, 436
Site 696, 113A11:650
Site 698, 114A5:107–108, 111–112
Site 699, 114A6:173–176; 114B37:686–687; 39:719–
731
Site 700, 114A7:276–278; 114B39:719–731
Site 701, 114A8:388–391; 114B39:719–731
Site 702, 114A9:498–501; 114B39:719–731
Site 703, 114A10:567
Site 704, 114A11:647–650; 114B39:719–731
Site 708, 115A6:418; 115B34:630–634
Site 709, 115A7:479–481, 484–485; 115B34:630–634
Site 710, 115A8:612; 115B34:630–634
Site 711, 115A9:69; 115B34:630–634
Site 712, 115A10:749–751; 115B34:630–634
Site 713, 115A10:749–752; 115B34:630–634
Site 714, 115A11:857, 860, 862; 115B34:630–634
Site 715, 115A12:929–930; 115B34:630–634
Site 716, 115A13:1014; 115B34:630–634
Site 717, 116A6:165–166, 167–168; 7:106, 109
Site 721, 117A9:228–231, 233, 240
Site 722, 117A10:277–282, 293
Site 723, 117B32:532–533
Site 724, 117A12:402–404, 409; 117B32:532
Site 725, 117A13:431–432, 436–437
Site 726, 117A14:458–462
Site 727, 117A15:478, 480–481, 486
Site 728, 117A16:520–522, 524, 526
Site 730, 117A18:578–579
Site 731, 117A10:616–618
Site 738, 119A7:254–258, 279–280; 119B18:364–367
Site 739, 119A8:310–313; 119B19:380–383
Site 740, 119A9:358, 360–362
Site 741, 119A10:385–386; 119B19:384–385
Site 742, 119A11:415, 418–420, 451; 119B19:385
Site 743, 119A12:465–466; 119B19:385–387
Site 744, 119B18:367–369
Site 747, 120A6:116–119, 123–124
Site 748, 120A7:208
Site 749, 120A8:259–262
Site 750, 120A9:308

- Site 751, 120A10:358–359, 362–363
 Site 765, 123A4:142–149, 247; 123B3:80
 Site 766, 123A5:302–306, 344
 Site 778, 125A6:108–109; 7:131–133; 8:159; 11:260;
 125B21:375–384; 41:683–687
 Site 779, 125A7:126, 130–131; 8:159; 11:260;
 125B21:375–384; 41:683–687
 Site 780, 125A8:158–162; 11:260; 125B21:375–384;
 42:683–687
 Site 781, 125A9:188–189; 125B42:683–687
 Site 782, 125A10:214–215, 222; 125B42:683–687
 Site 783, 125A11:259–261, 269; 125B21:375–384;
 42:683–687
 Site 784, 125A12:281, 284–287; 15:375; 125B21:375–
 384; 42:683–687
 Site 785, 125A13:310–311; 125B42:683–687
 Site 786, 125A14:328–329, 333–334; 15:372;
 125B42:683–687
 Site 798, 127/128B(1)34:607–610
 Site 799, 127/128B(1)34:607–610
 Site 800, 129A2:57–60
 Site 801, 129A3:124–125
 Site 802, 129A4:206–207; 129B4:120
 Site 804, 130A6:200
 Site 846, 138A(1)11:295–300
 Site 847, 138A(1)12:353, 355–357
 Site 857, 139A7:313–318
 Site 863, 141A10:392, 394, 396–398, 400
 Site 865, 143A6:138
 Site 866, 143A7:215–216
 Site 869, 143A9:330–331
 Site 881, 145A3:52–54, 56
 Site 882, 145A4:96–98, 106
 Site 883, 145A5:148–155
 Site 884, 145A6:235, 237–243
 Site 887, 145A8:351–354, 359
 Sites 867–868, 143A8:284
 Sites 885–886, 145A7:312–313, 320
 slope sites, 112B25:432–434
 sodium and potassium, 116A4:58–61, 65; 5:106, 109–
 110; 6:165–166, 169
 solute distribution, 119B18:357–360, 365, 368, 370;
 19:382, 384, 387
 sources, 143B14:237–238
 stable and radiogenic isotopes, 127/128B(1)36:635–
 650
 stable isotopes, 133B33:497; 141B25:313–329;
 164B12:129–137; 174A_B2:1–11; 195B7:1–12
 statistical analysis, 134B30:531–547
 storage artifacts, 164A6:132
 Straits of Florida, 101A5:64–66
 stresses, 131B16:207; 23:290
 strontium, 127/128B(1)36:643–646
 strontium isotopes, 113B11:149–151; 125B23:398–
 399; 129B14:269; 130B15:271–272;
 133B31:473–480; 138B41:813–819;
 144B25:453–454; 152B17:236–237
 subduction zones, 125A8:162–163
 sulfate, 127/128B(1)36:639; 37:657–659; 129B15:293;
 149B46:709–710; 210A3:356
 sulfate reduction, 160B29:365–373; 181B1:28; 7:1–15
 sulfur-iron-carbon system, 207B9:4–5
 sulfur isotopes, 188B15:5; 201B6:1–21
 Sulu Sea, 124A11:238–241
 summary, 171B_A7:353–354; 189A1:42–43
 temperature change, 119B18:351–352; 159B8:77–78
 Tiburon Rise N, 110B11:158, 161, 167; 26:397, 400–
 401, 405
 tools, 131A5:61–67
 Torishima Forearc Seamount, 125B21:375
 total inorganic carbon, 131B12:159–163
 trace metals, 139B49:749–755; 156B12:163–170
 transects, 168A1:18–19
 Trujillo Basin, 112B25:415, 419, 424
 tuffs, 129B3:129–130; 4:129–130
 turbidites, 101B21:313
 two end-member mixing system, 112B25:425–426
 uncontaminated samples, 112B25:439
 velocity, 129B28:501–502
 ventilation, 143A1:8; 2:28
 vertical flow, 121A10:284, 286; 12:398; 139A5:121
 volcanic alteration, 121A6:135; 121B22:448; 127/
 128B(1)36:646
 volcanic ash, 131B14:181, 183
 vs. age, 130B33:562
 vs. alteration percentage, 137/140B6:70
 vs. calcium oxide, 140A2:90
 vs. copper, 140A2:89
 vs. depth, 114B39:725–731; 130A7:255; 9:421;
 131B32:401; 134A9:207; 137/140B6:68;
 164A7:198; 170A3:73, 79; 4:133–134; 5:175,
 178; 7:235–237; 195A1:13
 vs. deviator stress, 131B21:272
 vs. magnesium number, 140A2:90
 vs. silica, 140A2:90
 vs. titanium oxide, 137/140B6:72; 140A2:89
 vs. zinc, 140A2:90
 vs. zirconium, 140A2:89
 vs. zirconium/yttrium ratio, 140A2:89
 water sampler temperature-pressure tool (WSTP),
 131A6:204–205; 141A6:121; 7:218; 8:282;
 10:407
 weathering effects, 119B19:391
 X-ray diffraction data, 101A5:66–68; 6:130–131, 138,
 140; 7:225–228; 8:278–280, 284–285; 9:348,
 352; 10:396, 400–401; 11:444, 447–448, 452;
 12:496, 498; 13:533, 535; 156A6:102–103; 7:206
 Yaquina Basin, 112A15:461, 464; 112B25:416, 421,
 434–436
 yield per unit length of cores, 131A6:157
 See also formation water; interlayer water
- Porites
 limestone, 133A9:309
 photograph, 134A11:328
 lithofacies, 160B38:489
- porosimetry, mercury, data, 123B6:138–139
- porosity
 accreted sediments, 141B1:5–6
 accretionary complexes, 131A1:13; 131B17:211–220;
 34:423–424; 134B1:13–18; 141B2:14;
 146A(1)8:381–386; 9:395; 10:402; 190A7:20
 acoustic basement, 173A7:210–211

- acoustic impedance, 123B1:463–465
acoustic velocity, 164A6:140–141; 7:210–211
across seismic Horizon A, 204A4:79
advanced piston corer, 204A4:86
alteration, 118A6:150; 118B14:261–263, 266–267;
148B34:422; 1927:7–8; 193A1:25; 193B1:20, 37;
3:76–77
analytical methods, 123B6:138
Atlantic Ocean E tropical, 108A2:54; 3:127, 132;
4:248; 5:351; 6:428; 7:503; 8:570; 9:640–641;
108B23:400, 403
Atlantis Bank, 118B11:230–231; 18:324–326
Atlantis II Fracture Zone, 118A4:73–74
Barbados Ridge, 110A4:105–109; 6:339; 7:420–423,
437; 8:498, 501; 9:528, 532, 545; 10:587–589;
110B14:212, 220; 15:235, 237; 19:292, 298, 302,
305; 20:311, 319; 21:323–324
basalts, 111B9:101–105; 121A10:297; 124B6:80–81;
142B7:51–59; 148B29:376–377; 163A3:30; 4:44;
163B2:24; 3:31–35; 185A3:35–36; 192B7:4–5;
203A3:21; 206A3:88
baseline shift, 105B38:770
basement, 111A3:38, 92–93, 98–99, 166–169;
123A4:204; 127/128B(2)80:1289
bioturbation, 178B30:4–7
boreholes, 159B23:242
bottom-current cyclicity, 105B38:766–770
brecciation, 131B32:399
Broken Ridge, 121A7:182–183, 217; 9:250–252
burial diagenesis, 174A_B(synopsis):5
Cagayan Ridge, 124A12:332–335; 14:409–410
calcareous chalk, 121B12:257; 123B4:149
calcareous ooze–limestone transition, 119B14:285
calcareous sediments, 130B36:607–622; 39:653–661
calculation, 139B32:546; 146A(1)6:276
carbonates, 105B38:767; 166A3:35; 194B6:1–217
catalogs, 146A(2)2:47–48
cation exchange capacity, 124B7:103
Celebes Sea, 124A10:163–164; 13:358–361;
124B33:456
cementation, 126B36:545
chemical exchange, 111B11:125, 127
chemical stratigraphy, 176B(synthesis):14–17;
190A1:8
clathrate formation, 127A6:281
clay content, 105B38:767–770; 111B12:139–140;
117A10:293, 295
compaction, 121B12:258; 161B10:118–127; 190A9:26
comparison of logging-while-drilling, density, and
nuclear magnetic resonance (NMR-MRP),
204A4:97
compressional wave velocity, 136B8:101;
167A(1)5:114
computed tomography, 131B7:89; 158B16:203–204
consolidation, 138B16:363–364
core-core integration, 171B_A6:282–283
core data, 150B22:387–390; 164B19:185; 204A5:52;
6:62, 64, 67; 7:59; 8:73; 9:70, 74; 10:83, 85, 88;
11:48, 51
core-log correlation, 102A3:111; 102B3:34–37;
162A6:203–204; 168B3:29, 34; 178B17:29–35;
181A7:46
core-scale structures, 131B29:370–371
Cornaglia Terrace, 107A9:603, 617, 620
corrected analyses, 127/128B(2)63:987, 990–1015;
190/196B11:4
correlation, 204B8:7
Costa Rica Rift, 111A3:92–93, 98–99, 111, 152–156,
166–175; 4:277–279, 283–289; 111B8:93;
15:175; 16:178; 20:235–237, 241–242
crust, 124B6:75–76, 79–80, 89–90
dacite, 193B1:11–12
data quality, 127A4:127; 5:228–229; 127/
128B(2)63:987
De Marchi Seamount, 107A12:963–965
décollement zone, 190/196B1:6
decompaction, 124B30:402, 405
decrease with depth, 131A6:189–195; 134A9:222–223
deformation zones, 146A(1)1:9–11; 194B7:9–15
delta, 110B20:312–316, 320
densification, 131B10:137–138; 171A_B3:10
density logs, 151A5:94–95; 164A6:140; 164B19:185;
196A3:23–24, 62–64; 4:23–25
density-neutron vs. sonic-computed logs, 102B3:41
depth, 150B22:389–391, 406
diabases, 148B23:317–329
diagenesis, 105B40:788; 143B13:199–200;
144B46:796–799; 160B33:424–429; 196A1:13
diatom ooze, 119B19:383; 160B28:355
diatoms, 113B17:213–220; 127/128B(2)80:1277;
178B30:4–7
dikes, 137/140B24:274–275
discrete samples, 167A(1)10:273; 207A6:105–108;
7:108–111; 209A6:125
downhole measurements, 176B5:9–10; 204B8:26
dredged vs. drilled gabbros, 118B21:381
drilling rates, 144A7:267
electrical conductivity, 124B7:100–102; 148B21:299–
300; 156B10:137–149
electron probe data, 136B8:100
elongate-pore velocity anisotropy, 130B40:667
estimate from resistivity, 138A(2)16:951; 151A6:148–
149; 7:205; 8:260–261; 9:304; 157A4:86
estimated sample rebound, 105B40:784–786
Exuma Sound, 101A9:353, 358–360; 10:405, 409–411;
11:450–451, 458–461
false porosity, 111B11:128
fault gouge, 180A11:11
faults, 190/196B15:5–8; 196A1:13
flood basalts, 163B3:25–26
fluid flow, 193B1:29–30
fluid pressure, 110B22:337–339
Formation MicroScanner imagery, 143A6:166
formation porosity, 102A3:95–97, 111, 146;
102B6:70–71
fractures, 102B3:40–41; 4:50; 111A3:163–164;
112A17:612; 137/140B27:315–317; 148B16:241
Galicia margin W, 103A8:152–154, 160; 9:259–268,
284; 10:435–444; 11:543–544; 12:591–593

- gamma ray attenuation data, 165A4:185; 5:267;
6:332; 7:373
- gamma ray logs, 150B29:461–468
- gas hydrates, 164A1:8; 164B25:247–249
- geochemical cycles, 205B1:29; 6:1–26
- geochemical logs, 127/128B(2)65:1022–1024, 1029;
130B48:778–779; 138A(2)17:1001
- Gortani Ridge, 107A11:880–881, 892–893, 896
- grain size, 117A12:400–401; 117B12:247–248;
119B19:385, 388; 141B6:91–93; 190/196B8:9–
10
- gravimetric determination, 132A4:102–105
- green clay, 184B15:20–21
- horizontal plug sample data, 194B6:14–22
- horizontal stress, 127/128B(2)67:1053
- hydrofractures, 148B17:247–250
- hydrogen content, 118B14:261–262
- hydrothermal systems, 193B13:5–9
- igneous rocks, 123A5:326, 330; 176B2:2–3, 7–11;
209A3:38–41, 162; 5:41, 181; 6:33; 7:27–28,
126; 9:22, 108; 10:29, 161; 210A1:24; 4:10
- image analysis, 135B49:800; 148B29:379
- in situ measurements, 118B18:323; 155B26:427–432
- index zones, 134A9:218–220
- indurated pumice, 126B8:126
- Indus Fan, 117A8:169, 176; 117B11:224
- interbedded sediment-igneous rocks, 127/
128B(2)80:1278
- interlayer water expulsion, 131B28:353
- interparticle porosity, 126A9:334
- intersite comparisons, 114A7:288
- Japan Sea, 127/128B(2)80:1275–1278
- Kane Fracture Zone, 106/109A6:171
- Kerguelen Plateau evolution, 120B(2)48:897
- laminated vs. homogeneous intervals, 112B23:393
- large variations, 113A5:101
- Lima Basin, 112A11:197; 19:828, 830; 112B29:487
- limestone, 144A3:59; 144B18:366–380; 23:431–433;
180B12:3
- Lingayen Gulf, 124E_A13:78–80, 85
- lithified carbonates, 123B6:137
- lithology, 112A11:187; 144B14:283–284; 150B22:392;
183A1:24, 32; 4:26; 7:7–8, 50; 8:25; 9:38–39;
186A1:14; 190A1:32–33; 5:33–34; 191A1:17;
199A8:18; 9:12; 10:19; 11:27–29; 12:28–30;
13:24–25; 14:20–21; 15:13–14; 205A4:37–38;
210B7:1–21
- Little Bahama Bank, 101A6:137–139, 146–151; 7:227,
232–235, 238; 8:282, 291–294
- loading, 130B41:673–686
- loss curves vs. depth, 141B6:81
- loss on ignition, 127/128B(2)80:1283
- low density, 171A_B3:6
- lower intervals, 105B40:789
- mafic rocks, 139B38:602–603
- magnesium, 119A8:312
- magnetic fabric, 159B20:196
- magnetic properties, 121A13:484; 121B16:371–372;
17:383
- Mariana Basin E, 124E_A18:130–132
- Marsili Basin, 107A6:133
- Mascarene Plateau, 115A5:269, 275
- mass transport deposits, 155B27:452
- massive alteration, 168B10:134
- massive sulfides, 139B45:722
- massive vs. stratified diamictites, 119B14:281–282
- matrix, 155B26:426–432
- measured vs. calculated values, 119A11:435;
119B14:274, 283
- metamorphic rocks, 173A6:153
- microcracks, 153B25:440–442
- microfabric, 120B(1)13:185; 161B8:106–107
- Mid-Atlantic Ridge, 106/109A7:187–190; 8:221–222;
106/109B16:205, 208–210; 20:240–243, 249
- Milankovitch cycles, 130B37:623–639
- mineralization, 158B23:316
- mineralogy and paleoceanography, 113B19:248–250
- mineralogy-porosity inversion, 156B16:224
- models, 158B23:318, 321–324
- Nazareth Bank, 115A4:159
- near-seafloor variability, 105B40:783
- neutron porosity logs, 115A12:941; 164B19:186;
196A3:26, 69
- Ninetyeast Ridge, 121A10:287–288, 292; 11:337;
12:402–404
- normalization factors, 127/128B(2)65:1035
- Northeast Georgia Rise, 114A7:291
- Northwest Providence Channel, 101A12:499–501;
13:536, 541–542
- Norwegian Sea, 104A4:177–182
- oceanic crust, 176B5:13
- olivine diabase intrusion, 126A9:360
- Oman margin N, 117A11:337–339; 117B11:227
- oolites, 143B8:113–114
- opal, 127/128B(1)1:3, 6, 16, 18, 21; (2)79:1263;
80:1277–1278, 1282; 81:1298
- organic carbon content, 117B11:225, 229, 231, 236
- outer perimeter ridges, 144B15:296–300
- overburden, 190A4:29
- Pacific Ocean W, 124B7:93
- paleobathymetry, 138B42:827–830
- pelagics, 117A8:186; 121B12:254, 258
- permeability, 105B40:788; 118B20:351; 127/
128B(2)71:1128–1129; 190/196B18:4
- Peru margin, 112A2:42
- petrophysics, 123B6:139
- photoelectric effect logs, 117A11:360
- photograph, 143B13:228; 144A10:352; 144B24:446
- photomicrograph, 194B6:7, 31–217
- physical properties, 123A4:222; 141B6:82–85;
190A6:24
- Pisco Basin W, 112A18:725, 729
- Pleistocene, 174A_B7:4–5
- pore morphology, 133B45:661–686
- pore pressure, 131B19:240–241
- pore shape and velocity, 102B6:71–73
- pore water, 112B29:486; 131B13:172; 159B22:229–
233
- pore-structure electron microscope data, 131B22:277
- prediction, 178B30:3
- properties, 126B37:551
- protodécollement zone, 171A_B1:1–19

- pumice conglomerates, 126B36:546
 pycnometer measurements, 105B43:812
 ranges, 113A11:624, 626
 Raymer-Hunt equation, 119B14:269
 reaction zones, 137/140B13:150
 rebound correction, 105B43:812
 recrystallized wackestone, 123B6:149
 reference section, 105B40:788-790
 regression exponential curves, 180A5:91
 relation to azimuth, 148B29:386
 relation to clay and velocity, 155B29:480-481
 resistivity, 105B43:812; 148B22:309-310; 164A6:141;
 7:211-212; 164B19:186-187; 193B14:5-6
 rocks, 192A3:162-164; 4:122-125; 5:121; 6:23-24,
 113; 7:11-12, 63
 Salaverry Basin, 112A12:273; 13:322
 sandstone, 210B2:4-5
 Sardinian margin, 107A8:405, 431; 10:751, 771;
 107B15:233
 scaly fabric, 156B4:73
 sedimentary rocks, 149B18:349-350
 sedimentation, 105B38:760; 119A8:330; 180A1:20-
 21; 181A6:26; 199A15:11
 sediments, 113B19:244; 130B42:687-694;
 131B19:237; 20:249-252; 133A(1)4:109; 5:157-
 160, 163-164; 6:194, 196; 7:220-221, 224, 228-
 229; 8:271, 277-278, 288; 9:320; 10:372, 397;
 11:437-438; 12:471-473; 13:527; 14:588;
 135B9:148; 48:789; 138B26:600; 139B29:511;
 34:560-562; 44:709-711; 141B11:157;
 146A(1)4:99, 104; 5:287; 7:381-386;
 146B(1)20:313-335; 28:414-416; 150A6:102;
 150B21:380; 154A4:98-104; 156A6:150-155;
 7:237-238; 157A6:163-164; 7:369-371;
 159B22:232; 41:561-562; 164A6:139-141;
 7:210-212; 164B23:231-236; 37:395; 41:431-
 434; 169A3:126; 169B7:4-6; 170A3:79-80;
 4:141-142; 5:178, 180; 6:206-207; 7:238-240;
 173A4:90-93; 8:253; 9:292; 174A_A3:77; 4:128,
 130; 5:175-176; 174A_B7:4-5, 21-26; 177A3:14;
 4:19; 5:24; 6:16-17; 8:20-22; 178A7:19;
 178B(synthesis):14; 180A1:44-45; 5:35-37;
 6:62-63; 7:23; 8:33-34; 9:48-49; 10:18; 12:42-
 43; 180B(synthesis):14; 183A1:16; 184A4:23-24;
 5:20-21; 6:15-16; 186A1:11; 4:45-46, 62-63;
 188A3:56-58; 4:33-34; 5:27; 188B15:6-7;
 189A4:64; 5:164-167; 6:172-176; 7:147-149;
 190A4:25-28, 73; 5:30-34, 75; 6:21-22, 50;
 7:18, 20, 42; 8:21-22; 9:24-25; 190/196B7:3-5,
 10; 12:8-9; 191A4:37-38; 194A3:18-20; 4:24-
 25; 5:19-20; 6:16-18; 7:27-30; 8:19-20; 9:19-
 20; 200A3:157; 201A6:27; 7:29-30; 8:23-24;
 9:20-21; 10:23-24; 11:26-27; 12:21-22;
 204A3:26-27; 205A5:23-24; 6:12; 206A3:47-48;
 207A5:31; 6:33-34; 7:30-31; 8:29-30
 seismic-core correlation, 204A5:42; 210B14:6-9
 seismic velocity, 103A9:258; 139A2:23, 27, 31;
 147B25:420, 424-426
 Serocki Volcano, 106/109A4:78-82
 serpentinized peridotites, 125B34:581-583; 36:606
 shallow sediments, 105B40:789
 short- vs. long-wavelength variations, 117A16:531
 Sierra Leone Rise, 108B10:758-759; 11:805; 12:854-
 855; 13:938
 silica, 119A8:312
 siliceous microfossils, 105B38:768-770; 117A11:361
 siliciclastics, 189B11:3
 Site 682, 112A14:392
 Site 685, 112A17:634-637, 639
 Site 688, 112A20:922-923
 Site 693, 113B19:240, 242-244
 Site 698, 114A5:112
 Site 700, 114A7:295, 297, 299; 114B34:651-654
 Site 703, 114A10:585
 Site 704, 114A11:674, 676, 681; 114B3:39
 Site 708, 115A6:424
 Site 709, 115A7:493-494
 Site 710, 115A8:610, 618
 Site 711, 115A9:676, 678, 686-688
 Site 712, 115A10:756, 761
 Site 713, 115A10:757, 764
 Site 714, 115A11:859-860, 867-869
 Site 715, 115A12:936-937
 Site 721, 117A9:222-232
 Site 722, 117A10:274-275, 286; 117B11:223
 Site 724, 117A12:407
 Site 725, 117A13:430-431, 435
 Site 726, 117A14:456-457, 459
 Site 727, 117A15:476, 483
 Site 728, 117A16:509-510, 517, 528-529; 117B11:227
 Site 730, 117A18:569, 571
 Site 731, 117A19:606-607, 614; 117B11:224-225
 Site 736, 119A5:144-145, 148, 153
 Site 738, 119A7:262, 264, 266
 Site 739, 119A8:325, 327; 119B8:145, 148,
 Site 742, 119A11:428, 434; 119B8:146
 Site 743, 119A12:469-470; 119B8:146, 148
 Site 744, 119A13:495
 Site 745, 119A14:520, 522-524
 Site 746, 119A15:546-547
 Site 747, 120A6:122-123
 Site 748, 120A7:213
 Site 749, 120A8:263
 Site 750, 120A9:317
 Site 751, 120A10:360
 Site 752, 121A6:139, 144
 Site 765, 123A4:113, 164-165; 123B23:456-459
 Site 766, 123A5:307-309; 123B23:460-462
 Site 778, 125A6:109
 Site 782, 125A10:213
 Site 787, 126A5:89, 91-92
 Site 788, 126A6:123, 126
 Site 790, 126A7:189
 Site 791, 126A7:199-200
 Site 793, 126A9:379
 Site 794, 127A4:127-133; 127/128B(1)1:6; (2)67:1050;
 80:1278-1279; 128A3:103, 105
 Site 795, 127A5:223-227, 230; 127/128B(1)1:6,
 (2)80:1278-1279
 Site 796, 127A6:290-295; 127/128B(1)1:6;
 (2)78:1278-1279

- Site 797, 127A7:383–389, 391; 127/128B(1)1:6;
(2)78:1278–1279; 81:1300
- Site 798, 127/128B(1)1:6; (2)78:1278–1279;
128A4:181, 197–198, 202–205, 209
- Site 799, 127/128B(1)1:6; 2:39; 40:700; (2)80:1278–
1279; 128A5:325, 345–349, 355
- Site 809, 132A3:70
- Site 859, 141A6:121–122
- Site 861, 141A8:276
- Sites 671 and 672, 110A8:497, 499
- Sites 808 and 1173, 196A4:24–25, 58
- slope-basin facies, 190A7:20
- sonic log estimation, 105B40:786
- split cores, 178A6:16–17; 9:17
- Straits of Florida, 101A5:70–71
- stress, 121B35:702; 131B23:288–289; 194B7:19–28
- structural data, 110A7:401; 148B23:321–322
- subsidence, 101B28:443
- sulfate reduction, 165B19:289
- Sulu Sea, 124A8:110; 11:248–251, 257
- summary, 178B17:5–7
- terrigenous sediments, 105B40:785–786
- Tertiary reference section, 105B40:789
- thermal parameters, 101A5:71–74; 148B31:398–399
- thin layer ratio, 143A6:167
- Tiburon Rise N, 110A10:588–589; 110B14:212;
15:238–239; 19:292, 294; 20:319, 21:323–324
- total porosity, 111A3:162; 148B29:378; 158B23:323
- transmission electron microscopy, 113B18:229–237
- trench-wedge facies, 190A1:32
- Trujillo Basin, 112A16:555–566
- tuffs, 131B22:276–278, 280
- turbidites, 101B12:309; 117A19:623; 123B6:140–143;
190A8:24
- underthrust sediments, 110B21:325
- unsaturated sediments, 118B28:554
- upper crust, 102B11:155, 166
- upper interval fluctuations, 105B38:770
- variations, 133B41:617–623
- vein structures, 112B3:34
- velocity, 156B9:131–132; 164B20:194; 188A3:65–67
- vertical plug sample data, 194B6:23–28
- vertical seismic profiles, 156B21:271–272
- void ratio vs. effective stress, 115B42:773–774
- volcaniclastic sandstones, 126B8:126
- vs. acoustic velocity, 148B29:377
- vs. age, 108B23:405; 114B35:663; 36:682;
130B39:657–660
- vs. applied vertical load, 121B12:258
- vs. Archie exponent, 133B45:663–664
- vs. aspect ratios, 163B3:32
- vs. average velocity, 185A4:134
- vs. bulk density, 133A(1)4:125; 137/140B8:102;
140A2:126, 128; 147A3:98; 4:153; 148A3:171;
154B9:160–162; 158A7:135; 8:166; 10:206;
11:221; 160B42:541; 178B30:14; 183A5:166;
206A3:315; 206B13:7; 208A3:36; 4:39; 5:33;
6:45; 7:37; 8:38
- vs. carbon/oxygen ratio, 164B21:201, 203–204
- vs. carbonate content, 114B35:661–662; 36:674–675;
121B12:256; 133A(1)14:598; 133B41:619–621;
144B13:258–261; 186A4:144
- vs. chlorinity, 139B22:433
- vs. clay content, 168B6:70, 74–84; 190/196B8:19
- vs. composite depth, 145B36:549
- vs. compressional wave velocity, 114B35:667;
130B3:42; 137/140B24:278–279; 139B38:605;
143B18:296–297; 148B28:372; 152B38:460;
153A4:176; 5:214; 153B25:443; 158A7:137;
160B42:538, 541; 163A4:46; 163B3:32;
174A_B7:16; 176B2:12; 5:28; 190A4:84; 5:79;
192B7:6–7, 17; 194A4:85; 200A4:139, 144–145;
205A4:134; 206A3:157
- vs. constrained modulus, 131B20:255
- vs. density, 114B35:660; 115A6:417; 7:483;
123B23:455; 124B6:88; 125B34:583–584;
36:606; 126B36:548; 127/128B(1)1:25, 27;
(2)55:986, 989; 80:1281, 1290; 133A(1)14:598;
133B44:654; 137/140B24:281; 138A(1)12:366–
367; 142B7:54; 147B25:425; 153A6:257; 7:273;
153B25:446; 183A8:96
- vs. depth, 105B39:780; 40:782–786, 789; 43:813;
108B23:404; 110A6:340, 351; 7:422, 428; 8:499;
9:533; 113A5:102–103; 6:205, 207, 218, 226;
7:304–305; 8:351–353; 9:466–468; 10:541–543;
11:625–626; 12:716–717; 113B3:30; 5:180;
17:213–217; 19:243; 114B36:673; 130A7:259;
8:327; 9:441; 130B38:642; 39:655–660; 42:694;
131A6:200, 202, 240; 131B4:47; 20:256; 32:401;
132A3:72; 4:101; 133A(1)7:228; 9:327; 10:386;
11:439; 12:486, 489–491; 13:535, 538, 541;
14:599, 605; 15:660; 133B41:618–619; 42:628;
134A7:126–127; 8:170, 172; 9:231–234; 10:298–
299; 11:355; 12:444–445; 13:521, 526;
134B29:514, 516, 520–528; 135A(1)4:158;
5:235; 6:285; 7:327; 8:373; 9:451; 10:546;
11:660, 664; 136A4:60; 136B5:70; 137A2:31;
137/140B24:279; 138A(1)9:171; 10:243; 11:312;
12:369; (2)13:722; 14:788, 792; 15:868; 16:945;
17:1008; 18:1055; 19:1090; 138B16:365;
139A2:32; 5:149–151, 154–156; 6:268–272;
7:381–382, 400, 404; 8:536–540, 545–547;
139B22:433; 38:604; 44:705, 709–712; 45:723;
59:566; 140A2:134–135; 141A6:124–125; 7:224;
8:283; 9:337; 10:409; 141B6:86–90; 29:371;
143A6:155–160, 167; 7:237; 8:289–290; 9:349;
144A3:81, 83; 4:141–142; 5:189–190; 6:243;
7:281; 8:311; 10:376; 11:434, 448; 144B13:262;
23:432, 435; 38:646; 39:652, 655; 46:805;
54:956, 958, 962; 145A3:73; 4:117; 5:178–179;
6:251, 265; 7:329–330; 8:365, 370, 375;
145B35:529–535; 146A(1)1:14; 4:87, 91, 108,
112–113; 5:191, 195, 207, 210; 6:274–275, 280–
281; 7:347, 350; 9:390; (2)2:45; 146B(1)11:192–
196; 20:322–323, 326–329; 23:363–364; 34:463;
(2)11:148; 147A3:98, 153; 148A2:35, 74, 78;
3:170, 172; 148B22:310; 23:321–328; 29:379,
386–388; 31:400; 34:420; 149A4:106; 5:137;
6:193; 7:250; 149B17:340–341; 18:351; 19:360;
20:371; 31:531; 150A6:104–106; 7:174–177;

- 8:237; 9:292; 10:335; 151A5:92, 94, 105; 6:147, 151; 7:200, 208; 8:249–250, 255, 260; 9:306; 10:343; 11:375–377, 382; 152A7:85; 8:104; 11:240–241; 12:273; 153A3:117; 4:174–175; 5:213; 6:256; 154A4:120, 122; 5:195, 206; 7:309; 155A7:153; 8:195; 9:222; 10:264; 11:300; 12:358; 14:405, 430; 15:459; 16:485; 17:532; 18:561; 19:586; 20:618; 21:653; 22:679; 155B27:450; 29:483–489; 157A4:85–86, 91; 5:133; 6:164, 171; 7:372–373, 380; 8:426–427; 9:467, 477–478; 10:536, 542; 157B4:44–45; 156A6:151, 158; 7:244; 156B7:114; 11:154–158; 159A5:114, 118; 6:198; 7:248; 8:288; 9:303; 159B21:211; 22:233, 235, 239; 160A4:83; 11:401; 12:442; 160B39:510; 42:539–540; 48:633; 161A4:100; 5:161; 6:265; 7:334; 8:388; 9:414; 161B7:89; 8:110; 10:119–125; 24:322; 162A3:82–83; 4:120–121; 5:164; 6:198; 7:251; 8:282; 9:322; 10:376; 164A6:134; 164B19:185–187; 20:195–197; 23:234; 37:396; 41:433; 165A3:90; 4:143, 149, 189; 5:269; 6:335; 165B7:138; 166A6:96; 7:165; 8:193; 9:256; 10:318; 11:366–367; 167A(1)4:82; 5:114; 6:152; 7:173; 8:207; 10:268; 11:307; 12:341–342; 13:375; 14:417; 15:457; 16:482; 168A4:89, 91, 93, 96; 5:149, 151; 6:187–192; 168B3:26–29; 6:72; 169A3:128; 4:187; 5:228; 6:291–294; 169B7:10–13; 170A3:48; 4:98; 7:217; 171B_A3:88; 4:152, 161; 5:225; 6:301; 7:343; 172A3:66–67; 4:141–143; 5:233–234; 6:293–294; 173A4:93; 6:152; 7:207, 210; 8:254; 9:291; 174A_A3:78–79; 4:129; 5:179; 174A_B7:12; 175A3:86; 4:113; 5:140; 6:176; 7:199; 8:221; 9:270; 10:310; 11:337; 12:383; 13:426; 14:455; 15:481, 483; 177A3:36; 4:52; 178A4:85; 5:76–77; 6:52; 7:57–58; 8:53–54; 9:61–62; 178B17:15, 17, 20; 30:11–12; 180A1:11; 5:89; 6:170; 7:59–60; 8:92–93; 9:123; 10:59; 12:126; 180B22:9; 23:13; 181A3:59; 4:42; 5:48; 6:77–78; 7:99; 8:78; 182A4:70–71; 5:50; 6:72; 7:56–57; 8:56; 9:47; 10:58; 11:32; 12:47; 183A3:36, 40–41; 4:75–78; 5:149–150; 6:155–156, 159–161; 7:165–166; 8:82–83; 9:113–115; 184A1:56–65; 4:63; 5:62; 6:42; 7:61; 8:27; 9:73; 185A4:132–133, 181; 185B10:10; 186A4:138–142; 5:81–82; 186B15:16–20; 188A3:146; 4:81; 5:71; 188B15:13; 189A3:104; 4:47; 5:101; 6:116; 7:92; 190A1:79, 82–83; 4:73; 5:75–76; 6:50; 7:42; 8:49; 9:55; 190/196B7:16–17; 11:15–17; 12:4; 191A1:46–47; 4:109; 192A3:137; 4:104; 5:101–102; 6:85; 7:49; 192B7:13–16; 193A3:233; 4:205; 193B13:16; 194A3:51; 4:83; 5:68; 6:53; 7:91, 99; 8:56; 9:47; 194B7:8; 195A3:131; 195A4:145; 5:33; 6:14; 196A3:62, 64, 74; 4:56; 197A1:33–34; 3:126–127; 4:99–100; 5:85; 6:89; 198A1:101–102, 106, 110, 116, 120, 125; 3:55, 102; 4:36, 77; 5:38, 73; 6:33–34, 68; 7:33, 62; 8:30, 61; 199A8:37; 9:28; 10:41; 11:67; 12:72; 13:57; 14:42; 15:32; 200A3:131; 4:133, 137, 142–143; 200B1:33; 201A6:39, 65; 7:68; 8:49; 9:31, 49; 10:51, 53; 11:70; 12:44; 202A3:27; 4:37; 5:33; 6:35; 9:51; 10:49; 11:39; 12:49; 13:44; 203A1:28; 3:66; 204A3:77; 4:77; 5:41; 6:52; 7:52; 8:59–60; 9:56; 10:70–71; 11:44–45; 204B8:21; 10:11–20; 15:32; 22:17; 27:15–16; 205A4:130; 5:45, 70, 73; 6:37; 205B6:21, 23; 9:22; 206A1:69; 3:155, 310–311, 392–394; 207A1:80; 4:60; 5:70; 6:72; 7:65; 8:63; 208A3:35; 4:38; 5:32; 6:44; 7:36; 8:37; 209A7:101; 9:90; 10:125–126; 210A1:74–75; 3:285–289; 4:31; 210B7:14–15
- vs. diffusivity, 185B11:12
vs. dissolved silica, 180A6:165
vs. effective pressure, 105B40:785–788; 131B22:279; 156B9:132
vs. effective stress, 149B20:370; 170B3:26; 174A_B7:13
vs. formation factor, 106/109B20:250; 110A7:426; 111B20:242; 118B18:328–329, 331; 121A6:143, 150; 126B36:547–548; 131A6:213; 133A(1)8:281; 9:330; 133B45:662, 667; 138A(1)10:247; 144B39:654; 146A(1)4:92; 5:195; 6:275; 7:350; 146B(1)20:322–326; 148A3:171; 148B29:377; 153A4:176; 5:214; 6:257; 7:274; 154A5:206; 7:324; 156B10:148; 177A4:52; 204B8:16
vs. gamma rays, 186B15:22
vs. grain density, 114B35:664–665; 163B3:34; 203A1:26; 3:65
vs. grain size, 105B38:767; 40:788; 133B41:619–621; 168B6:70–71, 74–84
vs. impedance, 190/196B12:15
vs. lithology, 111B8:90–91; 126A8:278–279; 138A(1)11:307; 144A6:221
vs. longitudinal resistivity, 155A7:157
vs. loss on ignition, 127/128B(2)80:1290
vs. magnetic susceptibility, 133B41:619–621
vs. matrix density, 144B39:651
vs. microfossil content, 130B38:647
vs. mineralogy, 105B38:760
vs. moisture and density bulk density, 202A9:51; 10:49; 11:39; 12:49; 13:44
vs. nannofossil percentage, 130B38:652
vs. opal abundance, 127/128B(1)23:402; 164B23:234
vs. opal-A, 186A4:144
vs. paleolatitude, 165B9:171
vs. permeability, 127/128B(2)71:1132; 146A(1)1:14; 156B24:308–309; 169B8:3–4, 22; 170B3:28; 174A_B7:18; 185B11:12; 191B5:15; 193B13:15, 17; 14:12; 194B6:11–13
vs. resistivity, 105B43:833; 106/109B20:245, 247; 118B18:328, 331; 28:555; 119B19:379; 124B6:83–84; 131A6:213; 139A7:404–405; 147A3:103; 4:156; 153A3:119; 156B10:147; 183A5:166
vs. sand-sized content, 130B38:646
vs. sediment age, 105B40:786–787
vs. seismic structure, 106/109B16:210
vs. shear strength, 204B8:22
vs. silica, 119A13:499; 185B10:10
vs. sodium, 166B17:192
vs. sonic traveltime, 146B(1)20:330–332
vs. surface conductivity, 156B10:149

- vs. temperature, 114B3:41–44
- vs. thermal conductivity, 111A3:104; 114B35:664, 666; 123B1:464; 127A4:135; 5:232; 7:395; 127/128B(1)1:25, 27; (2)63:987, 989; 80:1287; 131A6:210; 139A5:156, 270; 7:398; 139B33:555, 561–563; 145A6:278; 7:333; 155A6:119; 7:157; 11:305; 158B24:333; 168A4:96; 5:155; 6:194; 169B8:31; 194A3:54; 4:87; 5:73; 6:59; 7:96, 103; 8:60; 9:51; 198A3:105; 4:75; 5:76; 199A11:73; 12:79; 13:64
- vs. time, 153B25:446
- vs. transverse resistivity, 171B_A3:91; 4:157; 5:230; 6:309; 7:347
- vs. traveltime, 165B10:187
- vs. unconfined compressive strength, 148B32:404
- vs. unconfined frame modulus, 146B(1)19:309
- vs. uniaxial stress, 165B10:182, 185
- vs. velocity, 105B43:826, 833; 106/109B20:247–248; 117A16:530; 118A6:159–162; 124B6:78, 81; 37:508–510; 125B34:583; 127A4:140; 23:395; 127/128B(1)1:25, 27; (2)63:1005; 80:1280, 1286, 1290; 133B44:657–658; 138A(1)10:252; 139A2:31; 139B44:712; 140A2:136; 143A7:239; 143B18:292, 295; 144B39:653; 145A7:332; 146A(1)4:108; 146B(1)20:327–332; 147A3:100; 4:154; 155B29:481; 159B22:233; 168A5:155; 6:194; 168B3:29, 34; 173A6:154–155; 7:209, 211; 8:257; 176B5:28; 190/196B7:18–19; 11:1–23; 194A5:70; 6:57; 7:94, 101; 8:58; 9:49; 200A3:134; 204B8:22; 203A1:26; 3:65; 206A3:48, 316
- vs. velocity and density, 146A(1)7:361–363
- vs. velocity with stress, 115B42:774–777
- vs. water content, 110A5:240; 127A5:234; 137A2:30; 144B39:653
- vs. weight percent clay, 190/196B8:20
- vs. well-logging, 146A(1)4:96–98
- vs. wet bulk density, 138B28:617; 185A4:134; 199B13:15; 203A1:26; 3:65
- vs. yield stress, 131B20:255
- water content, 192B7:29
- wavenumber, 178B32:34, 37
- well-logging, 114B38:713–715; 117A8:185–186; 11:368; 19:621, 623; 125A14:335; 126B43:656; 133B45:661–686; 156A5:75–76; 171A_A3:33; 178A4:29–30; 199A12:38; 204A4:31; 5:17–18; 6:23–24; 7:21–22; 8:31–32; 9:27–28; 10:35–36; 11:20; 206A3:52
- wet volume measurement errors, 127/128B(2)63:985–986
- whole-core sample data, 194B6:29
- Yaquina Basin, 112A15:465, 469
- See also* density-porosity-natural gamma ray logs; dissolution porosity; epithermal neutron porosity; fluid flow; melt porosity; microporosity; neutron porosity logs; nuclear magnetic resonance porosity; permeability; pore morphology; porosity logs; recovery efficiency (RE); solution porosity; void ratio
- porosity, abnormally high, near-surface sediments, 204B8:9–10
- porosity, Archie, vs. depth, 165A3:90
- porosity, bulk, vs. depth, 148A2:34
- porosity, crack
 - effect on velocity, 118B11:231, 233–235, 247
 - radiogenic isotopes, 118B6:132
- porosity, critical
 - correction, 190/196B11:5–6
 - preconsolidation, 165B10:181–183
- porosity, density-based
 - sediments, 155B26:427–432; 164A7:210–211
 - vs. compressional wave velocity, 155B26:446
 - vs. depth, 155B26:445
 - vs. neutron porosity, 144B39:655
- porosity, derived
 - Site 892, 146A(1)7:351
 - Sites 889–890, 146A(1)5:196
- porosity, “egg-shell,” photograph, 144B15:308
- porosity, epithermal, data, 101A5:71, 73, 74
- porosity, fenestral, lithology, 194A7:8
- porosity, fractional
 - carbonates, 205B10:14
 - vs. depth, 133A(1)14:593; 139B33:547
 - vs. permeability, 205B10:11–12; 11:10
 - vs. pore aspect ratio, 142B7:56
 - vs. velocity, 138A(1)12:376
- porosity, fracture
 - serpentinites, 149B31:530–531
 - vs. depth, 140A2:140–141
- porosity, intercrystalline, diagenesis, 143B13:199
- porosity, intergranular
 - lithology, 194A7:7
 - photomicrograph, 194A3:31
- porosity, interparticle
 - diagenesis, 143B13:199
 - vs. coarse fraction percentage, 130B38:648
 - vs. nannofossil percentage, 130B38:648, 652
 - vs. planktonic foraminifer percentage, 130B38:648
- porosity, intragranular, photomicrograph, 194A7:53
- porosity, intraskeletal, lithology, 194A8:6–9
- porosity, logarithm, vs. logarithm formation factor, 138A(1)10:252
- porosity, merged, vs. depth, 130A8:329
- porosity, moldic
 - argonite, 133B21:293
 - chalk, 160B32:406, 408
 - deep-marine origins, 101B18:260
 - diagenesis, 143B13:199
 - limestone, 133A(1)5:148–149; 143B29:442, 444–445, 452
 - lithoclasts, 133A(1)4:89
 - lithology, 160A7:162, 197; 194A7:7, 9, 12–15
 - outer perimeter ridges, 144B15:296
 - petrography, 144B48:846–847
 - photograph, 144A5:164, 166; 7:265; 160A6:133; 166A6:81
 - sediments, 133A(1)10:361, 386
- porosity, nuclear magnetic resonance
 - Hydrate Ridge, 204B27:7
 - vs. depth, 204A4:97; 5:52; 6:67; 7:59; 8:73; 9:74; 10:88
- porosity, occluding, lithology, 163X_A6:20

- porosity, plug volume, 194B6:8–9
- porosity, primary, microcracks, 102B4:50
- porosity, pseudo, vs. depth, 168B3:31
- porosity, radiolarian-related, 171A_B1:1–3
- porosity, residual, vs. depth, 194A6:55
- porosity, residual-melt
- gabbros, 147B2:37–39
 - vs. depth, 147B2:47
- porosity, resistivity
- density, 171A_A3:32; 4:47–48
 - vs. depth, 141A6:135; 171A_A4:52
- porosity, secondary
- lithology, 129B3:96
 - opal-CT/quartz transition, 129B3:95–96
 - within serpentinite, 149B31:531
- porosity, secondary moldic
- lithology, 129B3:97
 - photomicrograph, 129B3:116–117
- porosity, skeletal moldic, 144B15:305–307
- porosity, solution, lithoclasts, 160B37:474
- porosity, sonic, vs. depth, 141A6:135; 7:227
- porosity, surface, decay constants, 204B8:29
- porosity, uncorrected, vs. depth, 129B29:509
- porosity, visible
- fabric, 155B27:458–459
 - sediments, 155B26:427–432
 - vs. depth, 155B26:439
- porosity, vuggy
- photograph, 194A7:71
 - photomicrograph, 159A6:171
 - sediments, 133A(1)10:386
- porosity, wet, vs. depth, 141B6:81
- porosity, wet bulk
- alkali basalts, 129B27:487
 - alkali olivine basalts, 129B28:502
 - geochemistry, 129B15:287–288
 - igneous rocks, 129B27:486–488
 - Site 800, 129B14:272
 - volcaniclastics, 129B29:511
 - vs. depth, 129A2:62; 129B27:488; 29:513–514
 - vs. grain density, 129B27:489
 - vs. thermal conductivity, 129A2:65; 4:215; 129B27:492
 - vs. wet bulk density, 129B27:488; 28:505
- porosity-cement relationship, volcaniclastic sandstone, 126B8:129
- porosity-density relationship
- calcareous sequences, 119B14:276
 - compaction effect, 119B14:279
- porosity-depth functions
- deformation fronts, 131B17:215–216
 - sediments, 131B23:284–285; 146B(1)16:278–279
 - trends, 133A(1)13:527, 542–544
- porosity from density logs, vs. depth, 201A11:77
- porosity indicator ratio
- Site 700, 114A7:298; 114B34:649, 651–654
 - vs. calcium, 114B34:655
- porosity inversion, logging-while-drilling, 156B26:324–329
- porosity logs
- density, 172A5:240; 6:299, 302
 - electrofacies, 176A3:247–251
 - gabbros, 179A4:63–64
 - geochemical logs, 127/128B(2)65:1023
 - lithology, 205A4:61–62
 - logging-while-drilling, 156B26:326–327; 204A4:92; 204B22:6–7
 - oceanic anoxic events, 198A3:110
 - sediments, 190A4:31–32, 81
 - Site 794, 127A4:142, 147, 164–167
 - Site 795, 127A5:244–245
 - Site 796, 127A6:303–306, 319–320
 - Site 797, 127A7:395–396, 403, 419–421; 127/128B(1)1:7
 - Site 798, 128A4:185–187, 212
 - Site 799, 128A5:383–385, 389–392
 - Site 865, 143A6:164
 - Site 891, 146A(1)6:279
 - Sites 1218 and 1219 correlation, 199B2:28
 - vs. bulk density logs, 184A5:70
 - vs. depth, 145A6:283; 8:385; 146A(1)4:107; 155A7:159; 9:226; 11:305; 12:363; 14:423–424; 16:490; 20:622; 22:683; 156A5:86; 6:163; 157A7:379; 159A6:202; 159B22:231, 235, 239; 23:244–245; 160A8:261–263, 271; 162A6:203; 164A6:142–143; 7:212, 214; 166A6:101; 8:197, 199–200; 9:259; 10:322; 166B15:160, 162; 167A(1)5:117–118; 8:209, 211; 10:271, 273; 12:343; 13:377–378; 14:419, 421; 16:484; 168A6:201; 169A3:132–133; 5:231; 170A7:241; 171A_A3:34–35; 171B_A4:165; 5:234; 6:313, 319; 172A5:243; 6:300; 173A4:97; 7:214; 8:261; 174A_A4:140; 176A3:233–235; 176B5:26; 177A8:63; 178A4:88; 5:82; 9:66; 178B32:19; 179A4:156; 179B1:16–17; 180A5:102; 6:186–189, 193–194, 196, 198, 200; 12:146; 181A3:65; 7:105, 108, 111; 8:82; 9:53; 182A4:75–76; 5:55; 6:79; 7:61; 8:62, 94; 10:63; 12:51; 184A4:73–74; 5:68–69; 7:67, 70; 9:80, 82–83; 188A3:160; 4:89; 5:82; 189A3:110, 112, 114; 5:106, 109; 6:118, 124; 7:97; 190A4:81; 192A6:88, 90; 195A1:54; 4:153; 196A1:23, 25; 3:36; 4:33, 50; 197A1:41–42; 3:55–56, 131, 133; 198A3:108; 9:86, 89; 199A11:81–83; 12:86, 92; 201A6:71; 7:76; 9:57; 10:61; 11:77; 202A9:68; 12:67; 205A1:55–56; 4:71–73, 162; 205B13:13; 206A3:161, 322; 207A4:68–70, 72; 5:79–81; 7:71–72, 75–77; 8:68–69, 72–73; 208A4:62–64; 6:76, 78; 209A10:147
 - vs. velocity, 127/128B(1)1:26; 159B23:246
 - See also* density porosity logs; density-porosity-natural gamma ray logs; far porosity logs; gamma ray-density-porosity logs; gamma ray-porosity logs; limestone porosity logs; lithoporosity logs; near porosity logs; neutron porosity from core logs; neutron porosity logs; neutron porosity wire logs; nuclear magnetic resonance porosity; thermal neutron porosity logs
- porosity logs, primary, seismic stratigraphic tool string, 133A(1)7:232; 8:286; 9:333; 10:396; 12:495; 15:662

- porosity-natural gamma ray logs, 139A7:425–426;
145A5:199–203; 146A(1)5:234–235, 238–239
- porosity rebound, sediments, 131B20:257
- porosity-sensitive logs
comparison for quality evaluation, 133A(1)15:664
seismic stratigraphic tool string, 133A(1)16:737–738
Site 820, 133A(1)13:554
- porosity-velocity transforms
acoustic formation factor, 123B1:463
compaction correction factor, 123B1:461
linear regression, 123B23:454–455, 459, 461–464
lithology, 126B36:545–546
- porphyrin/chlorin ratio
marine source, 175B23:11
vs. age, 175B23:33
- porphyryns, Aptian and Valanginian, 198A9:27
- porphyritic-andesitic flow, Site 792, 126B28:439
- porphyritic basalt. *See* basalt, porphyritic
- porphyritic texture. *See* textures, porphyritic
- porphyroblastic texture. *See* textures, porphyroblastic
- porphyroblasts
garnets, 161B19:267
gneisses, 161B19:266–267
hydrothermal alteration, 210A3:56–57
photograph, 161A6:228; 161B25:341; 210A3:244
photomicrograph, 161A6:239, 241, 243–247;
161B19:276–279; 20:285–287; 25:343–344
plagioclase, 161B19:267–268
pressure-temperature conditions, 161B19:264–265
quartz, 210A3:239
schists, 161B20:282–283
textures, 161A6:223–224
- porphyroblasts, asymmetric, photograph, 210A4:14
- porphyroblasts, calcite, sill/sediment contacts, 210A3:66
- porphyroblasts, elongate, lithology, 210A4:6
- porphyroblasts, pyroxene, photograph, 210A4:26
- porphyroclastic texture. *See* textures, porphyroclastic
- porphyroclasts
amphibolite clasts, 173A7:190–191
backscattered electron images, 153B7:139–141
basement, 173A1:13
deformation, 173A4:200–201; 209A5:28–29
diabases, 180B3:6
foliation, 173A6:148
gabbros, 153B6:104
harzburgites, 153B2:23–28; 209A3:6
hornblende, 180B3:8–9
metatonalite clasts, 173A7:191
mica schist, 180A7:12–13
microcracks, 118B8:159
orthopyroxenes, 153B26:459; 209A6:19
photograph, 153A3:59; 4:166; 5:190, 200–201, 205;
6:223–224, 238, 243, 248; 7:269; 153B3:39, 47–
49; 5:84; 6:117, 119–121; 7:125, 137–141;
8:146–147; 29:520–521; 173A4:76; 209A3:104–
105, 128; 5:69, 136
photomicrograph, 176A3:190–191, 207; 180A7:37;
180B3:28; 209A1:114–115; 3:60, 63, 106; 5:56–
57, 90–91, 112–114, 121, 130, 137; 6:72, 74, 85–
86; 9:45, 70
scan, 176A3:123
- secondary minerals, 180B3:7–8
- serpentinization, 153B3:42
- textures, 179B(synthesis):40–43
See also harzburgites; metagabbros; mylonites; or-
thopyroxenes
- porphyroclasts, augen-type, deformation, 118A6:130
- porphyroclasts, diabase, photomicrograph, 209A10:103
- porphyroclasts, orthopyroxene
photograph, 153A3:51, 64, 81, 92–94, 97
photomicrograph, 209A9:77
- porphyroclasts, spinel-pyroxene-olivine, 209A9:74
- porphyry
petrography, 195A4:14–16
photomicrograph, 195A4:85
- porphyry dikes
magmatism, 149B1:15
See also dikes
- Portlandian, palynology, 173A4:103–104
- positive displacement coring motor (PDCM)
design, 142A6:180–184
mechanical evaluation, 118A2:26–28; 5:82
operating characteristics, 118A2:25–26
recommended design modifications, 118A2:28
Site 734, 118A5:80
unsupported spudding, 118A2:25–28
- postcumulus, crystallization, 153B17:333–350
- postglacial deposits
cold-adapted vegetation index, 155B23:385–388
correlation, 178B18:17
microfabric, 178B18:1–17
- potash, vs. silica, 126B31:470
- potassium
alteration, 102B10:135–136, 144–145; 11:159, 164;
115B8:88; 121B30:563; 124B6:84–86; 127/
128B(2)58:909, 911; 176A3:51; 186B14:9;
187B1:8; 5:9; 193A3:69; 193B1:19–20, 36–37, 47
amphiboles, 176B4:11
authigenesis, 172A3:63; 4:125–126; 5:225–226, 228;
190/196B6:12
basalts, 118A3:54; 121A10:277; 130A30:526–525;
135B26:475–476; 144B29:504; 163A4:40;
169A5:215–216; 183A5:34; 192B7:7–8;
195A4:22–23
basement, 127/128B(2)56:892; 79:1265–1266;
173B3:2; 185A4:29–30
black shale, 198A9:33; 207A4:26
Cagayan Ridge, 124A12:314; 14:403
calcic amphibole veins, 147B10:194
calculation, 143A4:76
Celebes Sea, 124A10:174–179, 183; 13:376–381;
124B42:543–546, 549–550
chemical gradient, 119B18:359
clay minerals, 127A5:205; 169B6:7, 9
clays, 151B20:373–374
concentration, 102B9:127; 11:165, 178; 129B34:638;
131A6:128–138; 133A(1)13:524
Cretaceous/Tertiary boundary, 130B45:747–748
diabases, 180A6:36; 180B1:4–5
diagenesis, 124B14:214; 150X_B3:28, 35; 156B1:25–
27; 180A9:42, 44
diatom abundance, 117A10:293

- diffusion, 189A5:49
enrichment, 148B11:159, 200
equivalent fraction, 168B7:87–94
estimation errors, 156B14:194
evaporites, 160A4:69; 161B33:430–431
felsic volcanic rocks, 183A5:36–37
ferromanganese micronodules, 199B14:4
fluid flow, 166A9:254; 10:330; 168A5:137–138
fluid geochemistry, 158A7:126
fresh vs. altered basalts, 102B10:136
Galicia margin W, 103A8:157, 159–160; 9:275, 279, 284; 10:446–448
gamma ray logs, 102B10:143; 114A9:496; 11:693; 165A4:190–191; 171A_A3:28
geochemical indicators, 151A13:411–412
geochemical logs, 118A6:178; 133B57:798; 136B13:154–155
geochemical zonation, 189A4:22
geothermal gradient, 205A5:32–33
glass inclusions, 126B11:173
green grains, 159B43:593–594
hornblende, 176B10:14
hyaloclastite, 206A3:70
hydrothermal alteration, 206A3:71
hydrothermal component, 169A6:281
hydrothermal fluids, 139B20:401
hydrothermal sediments, 199B15:3
igneous rocks, 128A4:103
illite-smectite reaction, 190/196B6:9–10
inorganic sediments, 154B36:509–516
interlayer cation composition, 156B10:140–141
Japan Sea sediment, 127/128B(2)78:1237
Jurassic basement, 185A1:18
lamprophyres, 180A7:15
lateral flow, 160A9:313
lava, 183A1:14
Lima Basin, 112A11:196, 200; 112B25:425
lithology, 210A3:54
Little Bahama Bank, 101A6:141, 152
mafic rocks, 209A7:25
magmas, 127/128B(2)54:869
mass balance, 169A3:98
metadiabase, 180A8:19
metasedimentary rocks, 152B10:135
Miocene/Oligocene boundary, 126B34:519–520
mobility, 183B15:9–10
modern surface sediments, 138B42:824–826
natural gamma correlations, 102B3:38
natural gamma ray spectra, 156B14:187; 16:225
nonoxidized basalts, 121B30:565
Pacific Ocean W, 124B31:414–416
Paleocene/Eocene boundary, 199B16:3
Peru margin, 112B25:417
phyllosilicates, 136B11:135
Pisco Basin W, 112B25:425
plagioclase partitioning, 127/128B(2)52:856
pore water, 102B10:144; 116B13:146, 151; 119B19:380; 50:929–931; 127/128B(2)79:1270; 129A10:207; 129B14:269–275; 130A8:326; 131A6:163, 166; 131B31:389–390; 133A(1)8:265–267; 12:467–468; 13:520–521; 14:581–582; 15:632; 16:707–708; 133B48:713; 134A7:112–114; 8:156–157; 9:203–204; 10:279; 11:347; 12:416; 13:506–507; 135A(1)8:365–367; 9:432; 135B42:680–688; 136A4:55–56; 5:71; 138A(1)11:299; 12:355; 139A5:121, 191; 141B25:316–319; 143A6:136; 7:215; 9:330–331; 144A3:67–68; 4:129; 5:179; 6:233; 8:302; 10:366; 145A3:54; 5:151; 6:241; 7:313; 8:354; 146B(2)25:331; 149A5:136; 6:191; 7:244; 150A6:99; 7:172; 8:235; 9:290; 10:333–334; 151A6:129; 7:182; 8:240; 9:285–286; 10:333; 11:366–367; 154A4:93; 8:362; 155A6:106; 7:141; 8:191; 9:217; 10:260; 11:296; 12:349; 13:399; 14:424; 15:450, 452; 16:478; 17:520; 18:558; 19:584; 20:612; 22:675; 156A6:149–150; 157A6:155–156; 7:356–358; 8:417; 9:458–459; 10:523; 160A4:67; 5:110; 7:187; 9:311; 12:437; 14:485; 159A5:112; 6:195; 7:245; 8:285–286; 161A4:89; 6:236; 7:321–322; 8:379; 9:405; 162A3:79, 81; 5:158; 6:193, 195; 7:247; 8:275; 9:309; 10:362; 164A5:89; 6:128; 8:264; 9:300; 165A3:75; 4:168; 5:260; 6:320; 166A6:91, 93; 7:161; 8:190–191; 9:251, 267; 10:312–316; 167B32:343; 168A4:83; 5:135–136; 169A3:116; 4:171–175; 5:218; 6:274–281; 170A3:73; 4:131, 133; 5:173; 6:203; 7:235; 171B_A3:77; 4:143; 5:208–210; 6:286–287; 7:334; 172A6:286–288; 7:314, 316; 173A4:88, 90; 174A_A3:72–73; 4:122–123; 5:171–172; 175A3:73; 4:101; 5:130; 6:165; 7:190; 8:214; 9:257; 10:297; 11:326; 12:370–371; 13:410; 14:445; 15:473; 177A5:21; 6:14; 9:13; 178A5:19; 6:14; 7:16; 8:14; 9:15; 180A1:25; 6:54–56; 7:21; 8:31; 9:39; 12:37–39; 181A3:23; 4:19–20; 5:21; 6:30; 7:39; 8:32; 9:21; 182A1:24; 4:30–31; 5:19; 6:28–29; 7:20, 22; 8:24; 9:19; 10:23; 11:14; 12:20; 184A4:21–22; 5:18; 6:14; 7:18–19; 8:8; 9:23; 186A1:10; 5:26; 186B1:4; 14:6; 188A4:30; 5:24; 189A3:44, 161; 4:21–22, 60; 5:48, 158; 6:52, 166; 7:45, 140; 190A4:17; 5:22, 70; 6:16; 7:13, 15; 8:16, 44; 193B4:4; 194A3:15; 4:21; 6:14; 8:17; 9:16; 195A3:35–37; 4:34–36; 195B9:3–4; 198A3:35–36; 4:27; 5:28; 6:25; 7:24; 8:22; 9:30; 199A8:16; 10:17; 11:26; 13:22; 14:18; 15:12; 202A4:15; 5:14; 6:15; 7:18; 8:24; 9:19; 10:19; 11:16; 12:16; 13:14–15; 204A8:13; 205A4:46; 5:29–30; 6:15; 206A3:40; 207A6:31; 208A3:20; 4:18; 5:14; 6:22; 7:21; 8:22
radioactivity, 119B14:272, 274; 191A4:42
reduction, 168B10:131–133
reference concentrations, 156B14:193
rock-water reaction zone, 188A3:46
Salaverry Basin, 112B25:425
seawater-peridotite mud interaction, 195B4:6
sediments, 130A7:254; 135B8:140–141; 139A7:317; 149A4:99; 150B20:363–364; 151A6:130–131; 7:181; 9:286; 152B2:20, 23; 156A7:232–234; 157A4:78; 161A5:146; 166A11:363–364; 167A(1)12:329; 13:368; 14:406; 15:447; 16:475; 169B10:19; 169S_B1:40; 170A3:79; 180B6:19;

186A1:13; 4:39; 195A4:36; 205A4:24; 206A3:42;
208A5:17
sediments and volcanic ash and gabbros, 170A4:140–
141
serpentinization vs. sodium effects, 125A12:284–285
shipboard vs. shore-based digestion, 206B3:14
shore-based flux vs. shore-based microwave acid di-
gestion, 206B3:12–13
siliceous rocks, 198B17:25
Site 690, 113A6:231
Site 693, 113A8:375–376
Site 694, 113A9:484–485
Site 699, 114B37:692–695
Site 700, 114A7:296; 114B34:651–654
Site 736, 119B18:356
Site 765, 123A4:148–149; 123B35:639, 641
Site 766, 123A5:304; 123B35:639
Site 779, 125A7:126
Site 780, 125A8:159
Site 782, 125A10:211
Site 787, 126A5:88
Site 790, 126A7:187
Site 794, 127A4:109; 128A3:108
Site 795, 127A5:205
Site 796, 127A6:280–281
Site 797, 127A7:364, 371
Site 798, 128A4:174–175, 184
Site 799, 127/128B(1)34:611; 42:723; 128A5:318, 332
Site 803, 130A5:149
Southern Ocean, 114B39:721
sulfate reduction zone, 188A3:44–45
Sulu Sea, 124A11:220, 269–274, 278–279
thermodynamics, 126B34:523–524
Trujillo Basin, 112B25:425
vertical distribution, 119B18:363, 366–367, 371–373;
19:380–381, 391
volcanic ash, 127/128B(2)87:1385; 131A6:172;
165A4:180; 185A4:28–29
volcaniclastic sand/sandstones, 126B31:470
vs. age of sediment, 130A10:534
vs. aluminum, 154B36:517
vs. argon isotopes, 152B8:109
vs. assigned ages, 130A12:551
vs. calcium, 135B8:144
vs. chloride, 139B22:434; 169A6:279; 187B4:7
vs. chloride and bromide, 160A5:115
vs. depth, 113A5:129–130; 6:237; 8:380; 9:485–486;
10:561–562; 11:650–651; 12:736–737;
113B10:138–143; 129A2:60; 3:125;
133A(1)13:523; 15:633, 641; 16:711; 17:783;
134A7:113; 8:160; 9:207; 10:282, 285; 12:422;
13:506–507; 134B8:113, 117–118, 124–126;
135A(1)4:128; 5:220; 7:320; 8:369; 10:539;
11:629; 137A2:37; 137/140B13:145;
138A(1)9:160; 10:234; 11:300; 12:362;
(2)13:711; 14:776, 779; 16:937, 953; 17:999;
18:1048; 19:1085; 139A5:128; 6:195; 7:338;
8:457; 43:690; 139B22:434; 141A6:121; 8:281;
10:406; 141B21:284–285; 26:328; 29:371;
143A6:139; 7:217; 9:332; 144A3:73; 4:130;
8:327–329; 10:368; 145A3:64; 4:105; 5:156;

6:244; 7:321; 8:361; 146A(1)4:86; 5:189; 6:270;
7:345; 149A4:92, 100; 5:136; 7:245; 150A6:103;
7:172; 8:236; 9:290; 10:333; 152A8:102; 11:238;
12:272; 152B2:24; 25:299; 154A4:103; 5:184;
6:256; 7:305; 8:381; 155A6:112; 7:149; 8:192;
9:219; 10:261; 11:296; 12:354; 13:402; 14:426;
15:456; 16:481; 17:528; 18:558; 19:585; 20:615;
21:651; 22:677; 156A6:149; 7:240; 156B12:166,
168; 13:179, 181; 14:188; 157A6:157; 8:419;
159A5:110; 6:195; 7:245; 8:286; 160A4:79;
7:190; 8:255, 271; 9:312; 10:367; 11:394–396;
12:436–437; 14:487; 160B44:572; 161A4:93;
5:153; 6:260; 7:333; 8:387; 9:412; 161B33:425–
427; 162A3:80–81; 4:119; 5:162; 6:196; 7:248;
8:281; 9:318; 10:374; 164A6:131; 7:203; 8:271;
9:303; 165A3:76; 4:168; 5:261; 6:320, 336–337;
7:372; 166A6:94; 7:163; 8:189; 9:253; 10:314;
11:363; 166B17:181–185; 167A(1)14:414;
168A4:83; 5:144, 155; 6:181; 169A3:116; 4:177;
5:220; 6:276–278, 280; 170A3:79; 4:133; 5:176;
6:207; 7:237; 171B_A3:84; 4:147; 5:217; 6:296;
7:341; 171B_B4:8; 172A3:62; 4:137; 5:227–228;
6:286–287; 7:316; 174A_A3:75; 4:126; 5:173;
175A3:79; 4:107; 5:134; 6:170; 7:192; 8:216;
9:260; 10:300; 11:331; 12:371; 13:416; 14:450;
15:479; 175B13:15; 177A3:33; 4:48; 5:51; 6:43;
7:34; 8:50; 9:41; 178A4:77; 5:70; 6:49; 7:52–53;
8:47; 180A5:83; 6:163; 9:115; 12:119; 181A3:54;
4:40; 5:46; 6:73; 7:93–94; 8:75; 9:49; 182A4:64;
5:45; 6:68; 7:48; 8:52; 9:42; 10:53; 11:30; 12:44;
184A4:59; 5:57; 6:38; 7:56; 8:23; 9:68;
185A4:116; 186A4:129; 5:74; 186B14:18–19;
188A3:124, 126; 4:77; 5:66; 189A3:94; 4:40;
5:93; 6:107; 7:85; 190A4:64; 5:70; 6:46; 7:38;
8:44; 194A3:46; 4:80; 5:63; 6:48; 8:53; 9:43;
195A3:114; 4:133; 195B9:7; 10:5; 198A3:95;
4:67; 5:66; 6:59; 7:55; 8:53; 199A1:66; 8:35;
9:26; 10:39; 11:64; 12:69; 13:53; 14:38; 15:30;
199B15:5; 16:6; 202A3:36; 4:48; 5:42; 6:47;
7:55; 8:67; 9:63; 10:58; 11:53; 12:63; 13:51;
204A3:60; 4:62; 5:29; 6:40; 7:37; 8:49; 9:47;
10:53; 205A4:144; 5:82; 205B5:13; 6:22;
206A3:149; 206B3:15; 207A4:57; 5:67; 6:66;
7:62; 8:58; 208A3:57; 4:58; 5:48; 6:67; 7:57; 8:56
vs. depth in altered volcanics, 193B1:68
vs. hydrogen isotopes, 127/128B(2)79:1273
vs. iron/(iron + magnesium) ratio, 168B12:154
vs. magnesium, 137A2:43; 137/140B13:146, 151;
139B20:403; 169A3:118; 4:172–173, 178;
185A4:118
vs. oxygen isotopes, 127/128B(2)79:1273
vs. photoelectric factor, 172A5:245; 6:302
vs. potassium/chloride ratio, 189A6:107
vs. potassium feldspar, 188A3:131
vs. rubidium, 160A9:313
vs. seawater, 125A8:161
vs. sodium, 127/128B(1)42:732; 52:858
vs. subbottom depth, 141A6:120; 7:217
vs. thorium, 164A6:140; 7:212; 165A6:340;
171B_A4:167; 5:235; 6:316
vs. zirconium, 197A3:94

- well-logging, 115A12:942; 126A7:216–220; 8:289;
 126B43:655; 130B48:777–779; 166A10:324
- X-ray fluorescence data, 127/128B(2)65:1028–1029,
 1031–1035; 175B13:5–6, 20–30
- See also* aluminum/potassium ratio; aluminum/potassium
 ratio logs; calcium-sodium-potassium system;
 carotenes; carotenoids; iron-potassium-magnesium
 plot; lithium/potassium ratio; sodium-potassium
 system; sulfur/potassium ratio; thorium/potassium
 ratio logs; uranium/potassium ratio
- potassium, acid-soluble fraction, 150B17:318
- potassium, dissolved
- pore water, 201A7:15; 201B11:2
 - vs. depth, 169S_A2:56, 59; 201B11:9–14
- potassium, excess, vs. depth, 182A10:55
- potassium, interlayer
- secondary phyllosilicates, 148B10:125
 - vs. iron/(iron + magnesium) ratio, 148B10:125
 - vs. tetrahedral aluminum, 136B11:134; 148B10:125;
 168B12:154
- potassium, normalized, vs. depth, 166A7:163
- potassium/argon dating
- basalts, 105B47:885–886; 52:1002; 120B(1)5:74–76;
 124B1:3; 125B16:296–297; 134B22:413–414;
 144B32:550–556
 - basement, 123B43:805; 125B13:237
 - Cagayan Ridge, 124A6:94–96, 99; 124B23:329–330,
 333–340
 - celadonite, 123B30:559
 - igneous rocks, 126B44:677–680
 - Izu-Bonin forearc, 125B11:204–206, 208
 - lithology, 125B11:206–208
 - Mascarene Islands, 115A1:11
 - oceanic lavas, 129B20:390–397
 - potassium logs, 123B33:603–604
 - rhyolitic rocks, 123B42:792, 803; 135B57:923
 - Site 794, 127/128B(2)47:784–786
 - Sulu Sea, 124A6:94–96, 99
 - volcanic sediments, 123A1:7
 - volcanism, 143B17:278–282
- See also* thorium/potassium ratio logs; uranium/potassium
 ratio logs
- potassium budget, natural gamma rays, 185A3:55–60
- potassium/calcium ratio
- alteration, 191B1:6; 193B1:19, 28
 - pore water, 206A3:40
 - sediments, 152B2:23, 25
 - volcanic ash, 185B13:4–6, 11, 13
 - vs. depth, 206A1:68; 3:150
- potassium/(calcium + sodium) ratio, tuffs, 129B4:128,
 130
- potassium/chloride ratio
- spectra and age release, 178B22:5–6, 8–9, 18
 - submarine basaltic volcanic glass, 187B4:4
 - vs. age, 178B22:21
 - vs. calcium/potassium ratio, 178B22:21
- potassium feldspar
- alteration, 127/128B(1)9:141; 176B1:5; 183B15:6–9
 - argon-argon dating, 180B2:25
 - calc-silicate rock, 161B18:254
 - drift deposits, 178B8:7
 - gneisses, 161B19:264–265, 267; 20:283–284
 - green clay, 184B15:4
 - hydrothermal alteration, 193B1:15
 - lithology, 180B6:11; 188A5:9–11; 210A3:33
 - mineral chemistry, 161B19:267–269; 180B8:10
 - peak intensities, 155A9:212, 255
 - pegmatoid schlieren, 119B16:301
 - petrography, 159B12:119–120
 - photograph, 155A12:342; 159B13:123
 - photomicrograph, 155A10:255; 161A6:247;
 161B3:54; 19:278–279, 285
 - potassium logs vs. photoelectric effect logs, 178A5:85
 - pressure-temperature conditions, 161B44:566–567
 - provenance, 210B2:7–8
 - sandstone, 127/128B(1)7:104
 - scanning electron microscopy, 174A_B7:56, 58–59
 - schists, 161B20:282–283; 23:313–314
 - sedimenticlastic sandstone, 190/196B3:8–9
 - sediments, 155A6:104; 7:137; 8:185; 164A7:183
 - Site 797, 127/128B(1)7:105; 9:137
 - Site 799, 127/128B(1)9:137
 - textures, 161A6:223, 225
 - turbidites, 168A4:57–59; 5:111–112; 6:169
 - volcanic ash layers, 127/128B(2)87:1379, 1390
 - vs. depth, 181A3:39
 - vs. plagioclase composition, 161B19:269
 - vs. potassium in pore water, 188A3:131
 - vs. pyrophyllite + paragonite, 193B6:3
 - X-ray diffraction data, 188A3:17–18; 4:15–16
- See also* orthoclase
- potassium feldspar-illite alteration, 193B8:1–18; 11:3
- potassium feldspar/plagioclase ratio
- vs. age, 146B(2)7:98
 - vs. sand, 146B(2)7:99
- potassium hydroxide, radiolarian ooze, 199A6:1–21
- potassium ions, geochemistry, 193B1:27
- potassium logs
- basalts, 144A9:321; 185A3:42
 - clay lithology, 172A5:242
 - comparison of multisensor and conventional tool,
 191B6:5–6
 - concentration calculation, 145B46:678–679
 - core vs. log correlation, 167A(1)8:197–198
 - diatom vs. clay content, 127/128B(2)89:1417
 - evaluation, 159B17:173–174
 - factor logs, 171A_A3:22, 26
 - felsic sediments, 157B3:30–31, 37
 - formation evaluation, 193A3:95–96
 - geochemical logs, 117B29:490
 - gouge, 161B25:334
 - igneous rocks, 209A10:40
 - lithology, 117A16:526, 528, 530, 532–533; 19:623;
 131A6:218–219, 231–232
 - logging-while-drilling, 204A3:92
 - onshore processing, 149A6:201
 - recording, 134B36:628
 - Site 794, 127/128B(2)89:1416, 1418–1421
 - Site 796, 127/128B(2)89:1416, 1422–1423
 - Site 797, 127/128B(2)89:1424–1427
 - Site 798, 127/128B(2)88:1400–1402

- Site 799, 127/128B(2)88:1403–1404, 1406–1409
 Site 814, 133A(1)7:234
 Site 821, 133A(1)14:603
 structure, 137/140B30:343–344
 terrigenous component, 117B23:412
 turbidites, 117A19:623
 vs. aluminum logs, 128A4:215
 vs. depth, 138A(2)17:1016; 143A6:165; 9:355;
 144A3:94; 5:197; 6:247; 10:388–389; 145A3:76;
 5:184; 6:279; 8:381; 146A(1)6:287; 7:364;
 147A3:103; 149A6:204; 150A10:340–341;
 151A7:205; 9:258, 302; 152A9:128; 154A5:213,
 217; 8:401; 154B6:126–128; 155A7:160; 9:227;
 10:267; 12:364; 156A5:86; 157A4:88, 96–102;
 6:167, 177–178; 7:377; 9:472; 10:539;
 160A6:150–151; 7:208–210; 8:271; 9:323–324;
 161A6:266, 273, 276; 7:335–337, 341; 9:415–
 416; 164A6:140, 156–157; 7:211; 165A3:94,
 104; 4:194; 5:273; 166A6:102; 8:198; 9:261, 263;
 10:323; 167A(1)8:211; 168A6:207–210;
 169A3:132; 5:231; 170A3:86; 4:143–144; 7:212,
 241; 171A_A3:25; 4:44; 5:65; 6:83; 7:99;
 171B_A4:164; 5:233; 6:315; 172A5:244; 6:301,
 303; 173A4:96; 7:213; 8:260; 174A_A4:137, 139,
 145, 147–149; 5:185; 177A8:64; 178A4:89; 5:84;
 179A4:155; 180A5:102; 6:182–185; 8:99–100;
 9:131–134; 12:132–136; 181A7:110; 9:55;
 182A4:77–78; 5:53–54; 6:80–81; 7:62–63; 8:61,
 64; 9:51–52; 10:64–65; 12:52–53; 183A5:159–
 160, 162; 7:175–176, 178; 8:92; 184A4:75; 5:71;
 7:68; 9:81; 185A4:138; 186A4:94; 5:84;
 188A3:161; 4:90; 189A3:111; 5:107; 6:119, 124;
 7:98; 190A4:82; 191A4:115; 191B6:15;
 193A3:256, 193; 4:217, 226; 194A5:76, 80–82;
 6:66; 7:105, 107, 111; 9:53; 195A4:154–155;
 197A3:132; 198A3:109; 9:87; 199A11:79; 12:90;
 200A4:54, 150; 201A6:71–72; 7:76–77; 9:57;
 10:61; 11:77; 202A9:69; 10:67; 12:69; 203A3:75;
 204A1:40; 4:91; 6:63; 9:69; 10:84; 205A4:161;
 206A3:161, 323; 207A4:71, 74; 5:75; 7:73; 8:70;
 208A4:62; 209A7:120; 10:148
 vs. gamma ray logs, 203A3:70
 vs. photoelectric effect logs, 178A5:85; 9:68
 X-ray fluorescence data, 117B29:485, 488
See also aluminum/potassium ratio logs; gamma ray
 logs; thorium/potassium ratio logs
 potassium/magnesium ratio, pore water, 178A7:16
 potassium/niobium ratio
 lava, 135B24:410
 vs. cerium/niobium ratio, 131A6:198
 potassium/phosphorus ratio, basalts, 136B9:117
 potassium oxide
 AFM diagram, 153B10:210
 Albian–Turonian sedimentology, 210B8:7
 alteration, 121B32:615; 123B9:194; 148B12:175;
 168A5:123–133; 168B10:128, 134; 183A7:153;
 185A3:16–18, 27–28, 31; 187B1:7–8; 193A3:69,
 71; 197A3:29; 4:22–23; 5:19; 200A3:31
 amphiboles, 118B3:56
 anorthite in plagioclase, 179B(synthesis):89
 basalts, 118B4:88; 125B16:296–297; 134A9:199–200;
 136B9:117; 163X_A8:9–11; 169A3:95;
 183A5:34; 187A10:5; 15:11; 195A4:22–23;
 196A3:32, 96; 200A4:36–37; 200B2:3
 basement, 123A4:193–194, 199; 123B9:197;
 125B13:237; 126A9:369; 183A6:47–48; 7:132;
 8:18; 9:27; 192B7:22–28; 206B8:2–3
 black shale, 210B8:16
 dacite lava, 193B2:8
 diabases, 153B10:223; 209A7:23
 electron microprobe data, 148B14:210
 experimental liquids, 152B30:366
 fine-grained sediments, 210B8:14
 gabbros, 153B28:495; 170A3:78; 176B4:14; 6:18;
 179A4:45–47
 garnet-biotite gneiss, 183A5:37
 geochemical logs, 118B15:280; 137/140B30:345–346;
 154A5:217
 glass shards, 126B33:512; 186B9:6
 granites, 161A6:216
 histograms, 151A7:184
 ignited sediments, 138A(2)15:846–847
 incompatible element correlation, 121B32:629
 Izu-Bonin forearc, 125B11:204–206, 208
 Jurassic basement, 185A1:18–19
 lamprophyres, 180A7:15
 lava flows, 197A3:21–22; 5:16; 6:14; 206A3:65
 lithology, 125B11:206–208; 183A7:39
 melting regime, 187B1:14–15
 metadiabase, 180A8:18
 metamorphic rocks, 161B28:375
 micas, 176B9:11
 microbial pits, 148B14:212
 mineral separates, 158B2:29; 7:94
 nanofossil clay, 184B12:5
 natural gamma ray spectra, 195B12:6–9, 33
 phyllosilicates, 206B7:2–3
 pillow basalts, 187A4:6; 5:7
 plagioclase, 118B3:56; 176B9:8
 profiles, 148B13:200; 151A7:181
 quartz gabbros, 180A11:6
 reduction, 168B10:131–133
 secondary phyllosilicates, 148B10:125
 sediments, 139A7:328; 151A7:184; 8:243; 9:287;
 10:333–334; 11:368; 155A11:297; 162B14:200,
 206–207; 167B25:284–288; 170A4:140–141;
 172B5:4–5, 22; 180B6:5–11, 13–24; 184B19:6;
 185A1:24; 205A4:24; 5:17; 6:10
 serpentinites, 149B30:520–522
 sills, 210A3:68
 Site 765, 123A4:161; 123B8:178
 Site 792, 126A8:266
 standard deviation, 186B9:20
 sulfides and sediments, 158B3:43
 tektites, 150B13:248–250, 253–258
 tephra, 126B3:59–60; 186B9:10, 16–17; 205A5:18
 Turonian–uppermost Santonian, 210B8:9
 variation diagrams, 136A5:86
 veins, 176B9:15

- volcanics, 126B2:34; 3:63; 33:515; 131B14:178, 180–182; 141B27:338, 342; 163B7:67–74; 165A3:82; 183A7:40–42; 201B19:10–11; 203B2:3–8
- volcaniclastics, 134B9:151, 164
- vs. age, 145B23:357; 184B12:20; 19:19
- vs. aluminum oxide, 158B19:263; 172B5:14; 180B6:12, 14–16, 18, 33, 35–36, 39, 41; 210B8:25, 35
- vs. anorthite, 153B5:96
- vs. calcium oxide, 144B39:659, 661
- vs. calcium oxide-sodium oxide, 155B8:171
- vs. chloride, 157B16:283, 427
- vs. chromium, 123B8:181–182
- vs. compressional wave velocity, 163B2:24
- vs. depth, 139A5:139; 6:223, 225, 358; 7:515–518; 139B11:228–250; 44:705, 714; 144B39:652, 660; 148A3:157; 148B2:12; 10:136; 34:422; 35:440; 39:484; 149B30:522; 151A6:131; 151B19:358; 152B34:423; 156B1:24; 14:188; 162B14:204; 167B25:285; 169A3:97; 170A4:140; 176B6:44; 183A4:59; 8:65; 9:92; 185A1:49; 3:123; 191A3:7; 193A3:223; 4:191; 195A4:110; 195B12:19; 197A4:77–78; 5:75; 6:78; 200B1:26; 205A4:84; 5:59; 206A1:82; 3:152, 195; 210B8:42
- vs. fluorine, 157B16:283; 23:409; 25:427
- vs. gamma rays, 186B15:21
- vs. iron oxidation ratio, 148B12:178
- vs. iron oxide, 148B11:170; 150B20:368; 203B2:20
- vs. iron oxide/(iron oxide + magnesium oxide) ratio, 148B11:156; 168B10:133
- vs. iron oxide/magnesium oxide ratio, 180A12:95
- vs. kaolinite, 156B1:30
- vs. loss on ignition, 136B9:111; 11:141; 147B1:10; 148B2:12; 10:139; 149B29:502; 200A3:105
- vs. magnesium/(magnesium + iron) ratio, 144B28:481, 484
- vs. magnesium number, 148A3:151; 163X_A8:29; 168A4:71; 5:125; 176B10:41; 183A8:64; 205B9:26–27
- vs. magnesium oxide, 134B21:409; 135B4:60; 25:442–444; 136B9:111; 11:145; 137/140B4:45; 142B6:45; 148B3:30–31, 34; 151B18:344; 152B8:100; 157B16:282–283; 22:384; 162B16:228; 163B9:102, 106; 183A9:94; 197A1:73; 5:68; 6:70; 200A4:112; 200B2:10; 206A1:88; 3:199; 209A7:97
- vs. magnesium oxide/(magnesium oxide + iron oxide) ratio, 141B28:359
- vs. octahedral occupancy, 148B10:125; 11:163
- vs. oxides, 148B30:394; 200B3:23
- vs. resistivity, 157B3:35
- vs. rubidium, 180B6:38
- vs. silica, 134A10:278; 11:345; 12:416; 13:503; 134B9:161; 19:384, 387; 21:408; 135A(1)8:372; 135B4:60, 65; 6:97; 52:836; 136B4:60; 139B11:225; 141B4:53; 12:175–176; 145B23:370; 44:664; 151A5:81; 151B17:324–326; 18:343; 19:357; 152B2:23; 5:62; 8:102; 156B28:350; 157A7:362; 157B13:192; 15:325; 161B12:146, 153; 27:366; 162B16:228; 163X_A8:27; 183A7:137; 201B19:25–29; 203A3:15; 203B2:25; 205A5:61; 210A3:251
- vs. sodium oxide, 148B3:30; 13:197–199
- vs. strontium isotopes, 148B10:144
- vs. sulfur, 151B18:347; 157B16:283; 25:427
- vs. titanium oxide, 136A5:87; 136B11:145; 148B3:30; 10:138; 151B17:318, 323; 152B5:57, 61; 8:103; 162B16:228; 186B9:23–24; 210B8:36
- vs. water content, 135B4:62; 148B12:177; 200B2:9; 209A7:98
- vs. whole-rock trace elements, 148B10:141
- vs. zirconium, 134A11:346; 12:417; 157B12:168, 171; 197A3:108; 4:79
- well-logging, 123B8:184, 188; 35:641
- See also* alkalis; calcium oxide-aluminum oxide-potassium oxide diagram; sodium oxide/potassium oxide ratio; titanium oxide-potassium oxide-phosphorus oxide system
- potassium oxide/aluminum oxide ratio
- hemipelagic sediments, 186B13:4
- mud, 155A12:350
- sediments, 131B28:350, 352, 354–355, 359, 361; 155A7:141; 16:478; 172B5:4–5; 184B19:6
- stadials/interstadials, 172B(overview):4
- vs. age, 184B19:20
- vs. depth, 131B35:442; 151A5:86; 6:131; 155A7:150; 156B2:25; 172B5:13; 185A4:14, 123; 186B13:6
- potassium oxide/calcium oxide ratio
- vs. depth, 152B2:25
- vs. sodium oxide/iron oxide ratio, 152B2:26
- potassium oxide logs, 146A(1)6:287; 149A6:204; 150A10:342–343; 160A8:285–287
- potassium oxide/phosphate ratio
- Atlantis Bank, 118B4:88
- Ninetyeast Ridge, 121B32:624
- potassium oxide/silica ratio
- pumice beds, 126B1:12–14
- sediments, 184B19:6
- Site 782, 125A11:208
- tephras, 126B2:40; 3:62, 74
- volcanic ash, 125B15:288
- volcaniclastics, 134B9:151
- vs. age, 184B19:20
- potassium oxide/titanium oxide ratio, 186B9:9–10, 25
- potassium/rubidium ratio
- Ninetyeast Ridge, 121B32:624–625, 629
- Site 738, 119B16:302
- vs. depth, 156B12:166, 168
- potassium/sodium ratio
- hydrothermal alteration, 193B1:13
- Site 799, 127/128B(1)42:723
- potassium/titanium ratio
- basalts, 136B9:117
- mafic and ultramafic rocks, 153B10:184–185, 187
- vs. age, 195B3:27
- vs. depth, 206A1:85; 3:198
- vs. magnesium oxide, 136B11:145; 203B2:26
- vs. phosphorus/titanium ratio, 137/140B5:55
- potassium/(thorium + uranium) ratio, gamma ray intensity, 165A4:191; 6:337
- potassium yield logs, vs. depth, 141A10:420

- power consumption, systems, 186A3:17, 40
power distribution modules, seafloor instruments, 186A3:14
power packs, operations, 124E_A2:30–32
power spectra
 carbonate content, 154B19:290, 295
 color density, 146B(2)4:49, 52, 58
 compressional wave velocity, 154B7:149
 organic carbon, 146B(2)8:118
 oxygen isotopes, 154B15:232, 247
 radiolarite, 129B30:538
 sedimentation rates, 175B9:5, 18–19, 21–23
 sediments, 177B(synthesis):51
 significant frequencies, 129B30:539
 terrigenous component, 167B18:231
 vs. depth, 129B30:537
 See also Blackman-Tukey spectral analysis; cross-spectral analysis
power spectra, Fourier, cycles, 154A4:71
power spectral density
 broadband seismometer, 200B5:11–13
 RMS levels, 200B5:4, 20–62
power supply
 instruments, 191A3:15–19
 systems, 186A3:17–18
praseodymium, Paleocene/Eocene boundary, 199B16:3
pre-Albian west Early Cretaceous *Dicheiropollis etruscus*/
 Afropollis province, 159B24:254–255, 261–262
pre-Boreal summer monsoon maximum. *See* Holocene/
 Preboreal summer monsoon maximum
pre-Gilbert Chron, biostratigraphy, 135B54:875–877
pre-oceanic anoxic event, radiolarians, 159B29:364, 366–367
Precambrian
 basement, 163X_A8:6
 metabasalt basement, 182A1:5
precession
 age models, 161B37:471, 475; 175A22:566; 177B12:3–4; 202B4:8–12
 carbonates, 138B14:332
 changes, 129B30:529–547
 climate variability, 138B1:16–17, 19
 color, 175A3:526
 Cretaceous/Tertiary boundary, 208B1:40
 cyclostratigraphy, 127/128B(1)32:571, 574–575; 166B15:155–166; 16:174–176; 171B_A7:357; 171B_B9:7; 175A17:526; 175B(synthesis):17–18; 207B2:8–17
 diatoms, 167B6:119–120
 forcing, 184A1:11
 Formation MicroScanner imagery, 127/128B(2)66:1043–1044
 kaolinite/smectite index, 182B1:30
 mass accumulation rates, 175B11:22
 Mesozoic, 144B18:368
 oxygen isotopes, 130B21:370
 paleoclimatology, 161B29:388; 202A1:32–33
 paleoproductivity, 138B14:335
 physical properties, 178B32:8–15
 Pleistocene, 146B(2)19:259–263
 pre-Quaternary productivity, 175B(synthesis):25–27
 red/blue wavelength ratio, 175A3:65
 reflectance, 175A22:564
 rhythmic sedimentation, 154A6:272
 sedimentation, 146B(2)8:119, 121
 spectra, 154B7:143; 16:241–243; 18:276–277; 28:438
 stable isotopes, 130B24:414–415; 138B43:844
 stratigraphy, 145B19:285–287
 time series analysis, 130B23:403–405; 133B15:200
 timescales, 138B6:84–85; 154B3:72; 30:302–304
 volcanic ash, 185B7:19
 vs. age, 145B21:324; 146B(2)8:119; 165B4:95; 202B4:24, 27
 See also eccentricity; obliquity; orbital calculations; orbital controls; orbital cycles; orbital forcing
precession index
 core-log integration, 186B15:9–10
 gamma ray time shift variation, 186B15:24–25
 spropels, 160A2:24; 160B3:33, 35
precious metals
 sulfides and sediments, 158B3:46
 See also base metals; gold; metals; palladium; platinum
precipitates
 authigenic carbonates, 164B29:287–289
 photomicrograph, 164B29:290
 thermal properties, 158B24:329–335
precipitation
 authigenesis, 172A5:225–226, 228
 authigenic carbonates, 146B(1)15:265
 calcite, 149B34:565–567; 150B20:363–364; 159B8:79; 187A8:8
 carbonates, 151B24:422–423; 156B5:87–88; 164A8:266; 164B29:290–291, 293–294; 165A4:166–167; 165B19:292–293; 174A_A3:73–74; 178A5:20; 181A8:32
 clinoptilolite, 150B20:365, 367
 detrital component, 167B23:268–270
 diagenesis, 160A10:366
 dolomite, 175A16:495–498; 180A9:40
 ferromanganese crusts, 144B44:755, 757–759
 isotopic stratigraphy, 160B13:178–179
 Japan Sea, 127/128B(1)19:337; 26:442–443
 low-temperature, 149B31:534–535
 opal-CT, 150B20:365
 palygorskite, 159B15:149
 phosphate, 175A14:445
 pore water, 168A4:84; 175A11:325–326; 188A3:47
 postdepositional, 165B18:279
 pyrite, 180A9:40
 spropels, 160B3:35; 19:245
 seafloor, 149B33:553–558
 sediments, 129B3:96
 silica, 127A5:174
 sparry calcite, 133B36:531–533
 synkinematic, 201B13:10
 vegetation, 127/128B(1)19:325–326
 See also deposition; reprecipitation
precipitation rims, faults, 186A5:39
precision, chemical analysis, 142B10:76–77
precision depth recorder (PDR), methods, 123A2:14, 21–22

- preconsolidation, stylolites, 165B10:179–181
preconsolidation pressure, sediments, 204B12:8
preconsolidation stress. *See* stress, preconsolidation
preferred magnetic azimuth. *See* magnetic azimuth, preferred
preferred orientation
 accretionary prisms, 141B1:4–5
 clasts, 173A4:199–201
 clay minerals, 190/196B7:6–13
 clays, 131B4:52
 electron microscopy, 185B9:24
 ferrimagnetic minerals, 146B(1)14:237–238, 241–242
 flocculation, 131B4:48
 foliation, 209A9:14–15
 gabbros, 147B29:484; 179A4:50–53
 grains, 131B11:151; 141B2:18
 harzburgites, 209A7:13
 igneous layering, 176A3:29–30
 magnetic susceptibility, 153B32:553; 156B6:102
 metatonalite clasts, 173A7:191
 microfabrics, 185B9:7–9
 mud breccia, 160B46:600
 olivine and orthopyroxene, 153B2:26–29
 olivine and pyroxene, 209B1:13
 oxide-bearing lithology, 179B3:21–22, 27–28
 peridotites, 147B19:350
 photograph, 153A3:92–93; 4:128, 159; 5:205; 6:223–224; 153B6:117; 161A6:228–229, 238
 photomicrograph, 147B17:321; 25:433; 161A6:246; 173A7:192, 201; 179A4:127–128, 133; 206A3:259
 phyllosilicates, 173A4:199
 plagioclase, 140A2:98; 147B2:34; 17:322
 remanent magnetization, 147B23:402
 scaly fabric, 156B4:63–66
 sediments, 155B27:457–458
 serpentinized peridotite, 173A7:192–193
 shear zones, 153B9:157–159
 structures, 147A3:79–80; 180A5:22–23; 8:24
 textures, 179B(synthesis):42
 velocity anisotropy, 130B40:667
 See also planar features
preferred orientation, inclined, photomicrograph, 190/196B7:21–22
preferred orientation, penetrative, photomicrograph, 190/196B7:20–27
preglacial environment, seismic units, 188B8:6–7
prehnite
 alteration, 135A(1)11:596–597; 147B10:196–197; 15:298; 148B34:423, 426, 428; 157B12:150; 176A3:138
 amphibolite gneiss, 179A4:9
 calcium metasomatism, 209A3:20
 cataclastic deformation, 147A3:74–76
 clasts, 149A6:167; 173A9:283
 composition, 126B12:189, 191; 147B15:308; 148B8:108; 149B26:455; 176B9:53
 Costa Rica Rift, 111B6:62, 67
 electron microprobe data, 176B1:23–24
 hydrothermal alteration, 157B26:436
 hydrothermal veins, 153A3:85–86; 5:202; 6:242
 iron content, 118B9:211
 Izu-Bonin forearc, 126B6:105, 107
 lithology, 152A9:116; 152B41:520
 mafic rocks, 149A7:234–235
 magmatic structures, 176A3:60
 metamorphic minerals, 153B31:536
 mineral chemistry, 147B15:301–302
 moderate-temperature minerals, 176A3:37
 Ohmachi Seamount, 126B12:186–187, 189
 photograph, 135A(1)11:601; 153A3:54–55, 84, 89–91, 100; 4:157; 5:198; 6:243
 photomicrograph, 147B14:291; 180B8:43; 209A6:84–85; 9:66
 secondary minerals, 137/140B14:160; 15:174–176, 184–185
 sills, 139B6:94, 116–117
 Site 732, 118A3:53
 Site 747, 120A6:135
 Torishima Forearc Seamount, 125B25:421, 423, 427–428
 troctolites and gabbros, 147B14:269
 veins, 139A7:338–340; 176A3:44–45, 144; 176B9:6–7, 12
 See also metamorphism; prehnite-pumpellyite facies; veins
prehnite grains, volcanoclastic sand, 180B7:6
prehnite-pumpellyite
 facies, 149B47:719
 veins, 125B24:403–434
prehnite veins. *See* veins, prehnite
prerift bedding. *See* bedding, prerift
preservation
 bacteria, 201B1:18–20; 17:1–17
 barnacle fragments, 178B27:3
 benthic foraminifers, 189A5:27
 biogenic opal, 178B23:8–12
 biogeography, 198B7:15–16
 biomarkers, 167B12:189–190
 calcareous nannofossils, 154A9:438; 165A4:152–154; 5:248–250; 6:309–311; 170B5:6–12
 calcareous sediments, 130B38:641–652
 carbonates, 151B30:501–502; 154B14:207–22; 20:299–300, 310–314; 25:375–388; 166B6:73–74; 167B25:291; 172A5:214; 175A17:512–513; 175B(synthesis):7; 177A4:9–11; 199B18:3–4
 coccoliths, 168B4:43–44
 diatoms, 130B30:509–523; 144B3:76; 145B2:23–24; 146B(2)17:234, 236–237; 155B21:370–371; 167B3:100, 103–104; 6:120; 178A7:5, 7; 178B29:5; 30:4; 183B9:5–6
 discoasters, 200A4:24
 faunal units, 162B1:13–14
 foraminifers, 130B29:491–508; 138B34:70; 139B2:45; 165A7:368; 169A6:268; 177A9:9; 198A7:16; 198B8:6; 9:5–8; 202A1:111; 207A4:15; 207B6:3; 208B1:40
 fossils, 180A6:43–48
 laminated diatom ooze, 138B31:648
 lithology, 162A5:149, 152
 macropores, 171A_B1:2, 6
 marine organic carbon, 159B41:570

- nannofossils, 129B8:179–182; 133B2:29, 32;
 138B9:169–170; 139B5:64–69; 188B11:6–7;
 195A4:116; 198B3:3; 210B13:6–25
- Neogene, 189B1:16
- opal, 160B28:358–359
- organic carbon, 155B33:531–538
- organic matter, 161B29:387–388; 31:410; 189A5:43–44
- paleoenvironment, 207A10:10–12, 20
- palynomorphs, 129B11:223
- photomicrograph, 198B12:7
- planktonic foraminifers, 154B1:11; 29:442–443;
 157B10:122–123; 164B34:351; 165A3:66–67;
 177A3:8; 6:8; 182A6:16; 9:11; 184B9:4–5
- pteropods, 134B15:319–334
- radiolarians, 130A6:193; 7:245; 160B11:144–145;
 165B3:57–58; 181A7:39; 183B5:7–10; 10:3;
 199B24:5; 200B4:3–4
- sediments, 146B(2)8:114–115
- Site 794, 127/128B(1)12:188
- Site 795, 127A5:211
- Site 797, 127/128B(1)12:188
- time series, 154B14:218
- vs. depth, 165A3:66; 184A8:16; 189A5:75
- preservation, metastable, calcium carbonate,
 133B16:205
- preservation index
- nannofossils, 198B1:46
- variance density spectra, 154B7:147–148
- vs. age, 154B7:145–146
- vs. composite depth, 154B14:214
- preservational units, compression, 162B1:13–14
- pressure
- accretionary prisms, 146B(1)19:299–311
- amphiboles, 180B3:9
- basalt tests, 135B50:809
- calculated vs. experimental values, 209A1:131
- clay, 190/196B6:13
- core pullout, 204B23:9
- CORK experiments, 156B19:247–252; 168A4:97–98;
 5:153; 205A2:7–8, 25–26
- crystallization, 153B17:348–349
- Davis-Villinger probe, 205A4:55–57; 5:37–39
- fluid flow, 169B8:10–12
- fractional crystallization, 142B6:43, 45–47
- hydrothermal activity, 157B26:435
- incoming plate, 205B1:26–28
- increase vs. time, 135A(1)9:463; 135B50:813
- measurement tools, 139A3:51
- metamorphism, 152B34:422
- packer experiments, 148B27:357–360; 168A4:96–97;
 5:146–147, 153
- parental magmas, 157B22:388–389
- permeability, 191B5:13
- porosity, 190A9:26–27
- pressure core sampler, 164B43:441; 201A3:10
- rodingitization, 147B14:283–284
- sedimentary rocks, 149B18:348–349
- sediments, 190A4:34, 91; 5:34–35, 82–84; 9:26–27
- seismic properties, 195B11:1–12
- Site 948, 156B18:239–245
- Site 1173, 190A4:34, 91
- Site 1175, 190A6:24, 60
- Site 1176, 190A7:20–21, 49–53, 80
- tests, 201B21:1–21
- vs. compressional wave velocity, 139B38:605;
 147B25:424, 432; 153B25:443
- vs. density rebound, 199B13:23
- vs. depth, 139B41:664–665; 150B21:384; 156B15:206;
 18:245; 201B17:15; 209A10:150
- vs. formation factor, 169B8:5, 25, 36–39
- vs. magma density, 157B24:418
- vs. molality, 164B11:114
- vs. permeability, 169B8:3–4, 21, 25, 36–39; 191B5:14;
 193B14:12
- vs. resistivity, 169B8:36–39; 193B14:12
- vs. temperature, 142B6:48; 146A(1)5:205; 157A7:380;
 164B2:27–28; 11:114; 204B26:11; 209A1:132
- vs. thermal conductivity, 131B37:457–458
- vs. time, 139A7:413–414, 416; 8:561–562;
 139B39:618–623; 41:655–656, 658–663;
 144A9:324; 146A(1)7:363; 146B(1)19:303;
 28:418; 148A3:175; 156A6:173; 7:257;
 156B15:204; 18:244, 250–251; 164A6:122–123;
 8:265; 164B11:124–125; 168A4:100; 5:159;
 190A4:91; 5:85; 6:60; 7:53; 190/196B1:23;
 193A4:227; 195A4:156; 201A8:56; 9:56; 10:60;
 11:76; 12:50; 201B21:16–17; 204B23:29–30;
 205A4:155, 157–158; 5:88–91; 205B1:52–53;
 10:10
- vs. velocity, 148B28:367
- vs. vesicles, 157B24:419
- vs. volume, 164B11:115, 117–124
- zeolite facies, 120B(1)4:67
- See also* consolidation; Kuster pressure gauge; over-
 pressure; partial pressure; pore pressure; satura-
 tion vapor pressure; stress; temperature-
 pressure-conductivity tool; tidal loading; time-
 pressure plots; volume-pressure-time plots
- pressure, confining
- tomography, 193B14:9–12
- vs. compressional wave velocity, 136B8:101;
 195B11:7–8
- vs. permeability, 193B13:12–13
- vs. velocity, 158B23:323–325; 163B3:33
- pressure, effective
- convection, 139B42:671
- permeability, 193B13:5–9
- vs. depth, 149B18:351
- vs. impedance, 156B9:134
- vs. permeability, 190/196B10:10; 19:7
- vs. porosity, 131B22:279; 156B9:132
- vs. traveltime, 149B18:347
- vs. velocity, 143B18:298; 149B18:347; 156B9:131
- pressure, effective overburden. *See* shear strength/effec-
 tive overburden pressure
- pressure, hydrostatic
- fault zones, 180B(synthesis):17
- thermal conductivity, 127/128B(2)64:1017–1019
- pressure, in-hole, signals, 201B21:6
- pressure, in situ
- estimation, 204A10:26

- sediments, 204A3:30; 8:21
- velocimetry, 188B10:26
- vs. time, 204A9:19, 63
- pressure, lithospheric, vs. depth, 142B6:48
- pressure, overburden
 - apparent overconsolidation, 204B8:8–9
 - mudstone, 155B26:435–436
 - vs. depth, 204B8:25
 - See also* shear strength/overburden pressure ratio
- pressure compensation level (PCL)
 - Site 786, 125B14:268–269
 - tholeiitic basaltic magmas, 126B25:371
 - vesicular hydroclasts, 127/128B(1)8:119
- pressure cooker model, cross section, 193B1:61
- pressure core samplers
 - deployment, 164A6:122–123; 7:193–194; 8:265; 9:295; 164B43:439–443
 - gas composition, 139A7:482–485
 - Lingayen Gulf, 124E_A13:84
 - methane detection, 164B11:113–126
 - methods, 201A1:48; 3:1–22
 - operations, 124E_A1:5; 7:55–56
 - sediments, 201A7:34
 - summary, 201A1:80
- pressure cores
 - gas hydrate proxies, 204B1:10–11
 - gas hydrates, 204A3:20, 30–32; 4:17, 23–24; 6:13–14, 18–19; 8:15, 21–23; 9:13–14, 19–21; 10:17
 - HYACINTH, 204A3:32–33, 131; 4:24–25, 130; 8:23, 97; 9:21–22, 99; 10:27–30, 118
 - Site 1245, 204A4:22–26
 - Site 1246, 204A5:14–15
 - Site 1249, 204A8:20–28
 - Site 1250, 204A9:19–22
 - Site 1251, 204A10:25–30
 - Site 1252, 204A11:16–17
- pressure dissolution, diagenesis, 160B33:427
- pressure quench, microgabbro, 209A3:8
- pressure shadows
 - fibrous quartz, 180A11:7–8
 - photograph, 209A3:104–105
 - photomicrograph, 209A3:106
- pressure solution
 - compressibility, 161B10:122–127
 - diagenesis, 192A6:11
 - melts, 147B2:47
 - microfabrics, 185B9:9
 - photograph, 170A3:62; 192A3:74; 210A3:155
 - photomicrograph, 192A3:75
 - sediments, 161A5:141; 192A3:18–21
- pressure solution seams
 - lithology, 189A6:18
 - See also* solution seams
- pressure-temperature conditions
 - bottom-simulating reflectors, 141B20:259–261
 - continental crust, 180B3:1–28
 - crystallization, 176B8:5–14
 - Davis-Villinger probe, 205A4:55–57; 5:37–39
 - fluid inclusions, 159B6:50–51
 - fluids, 195A1:6–7
 - gabbros and diabases, 180B3:17
 - gas hydrates, 131A6:250; 164A1:8–9; 164B2:22–26; 11:114
 - high-grade schist, 161A6:250; 161B19:273–274; 20:281–294; 44:571
 - hydrothermal alteration, 176B1:5–6
 - identification, 204A3:83
 - mantle, 195B2:19
 - metamorphism, 152B10:137–138; 161A6:227–228, 230; 161B19:263–279; 23:312–314; 44:566–567
 - pelitic and migmatite gneiss, 161B19:274
 - phase equilibria, 209A6:18
 - See also* Davis-Villinger temperature-pressure probe; phase equilibria; pressure; temperature; thermobarometry
 - pressurization, physical property tools, 204B26:12–14
 - Priabonian
 - biostratigraphy, 189B5:37; 210A3:85–86
 - correlation, 171B_B9:16
 - magnetostratigraphy, 171B_B9:12; 207A6:24; 7:19
 - See also* Bartonian/Priabonian boundary
 - Priabonian, lower, magnetostratigraphy, 171B_A6:275
 - Priabonian/Rupelian boundary, sedimentation, 189B10:9, 15, 18
 - primary structures
 - lithofacies, 165B7:131–133
 - lithology, 170A3:55–56
 - underthrust section, 170A4:113–115; 170B3:7–8
 - primocrysts
 - photograph, 153A6:236
 - planar fabric, 179A4:35
 - principal component analysis
 - adenosine 5'-triphosphate proxy, 164B37:396–398
 - diatoms, 186B3:5–6, 12, 14, 17–21
 - discrete paleomagnetic samples, 178A4:151–155
 - faunal assemblages, 164B34:353–358
 - geochemistry, 158B27:376–381
 - paleomagnetism, 178A5:123–124; 7:104; 8:73
 - planktonic foraminifers, 161B35:447, 449–452
 - pore water, 150X_B24:324
 - well-logging, 159B16:159–161
 - See also* correlation coefficients; Q-mode principal component analysis; statistical analysis
 - principal displacement zone, diamict, 178A9:19
 - prism backthrust, photograph, 190A5:52
 - prism fault zones, deformation, 205A5:20
 - prism toe facies, lithofacies, 131B27:334
 - prism wedges
 - fluid flow, 205B6:7–8, 11–13
 - hydrology, 205B6:1–26
 - pristane
 - biomarkers, 151B23:410; 160B28:352; 207A10:5–6
 - chromatograms, 160B23:287, 290; 169A3:120; 4:180; 5:224; 6:286; 180B16:14; 207A10:17–18; 208A5:16; 7:23–24, 59; 8:24–25, 58
 - fluorescence, 141A9:327–329
 - geochemistry, 139A6:197–200; 8:490–491
 - maturation, 156A6:147
 - Oman margin, 117B33:552
 - sediments, 135B41:672–673; 139A5:124; 141A10:390–392; 141B22:288–290;

- 143B12:190; 156A6:144; 164B5:48–51;
 175B5:4–5
 Site 799, 127/128B(1)35:628–629, 633; 128A5:343
 pristane/phytane ratio
 biomarkers, 149B13:298–299
 oceanic anoxic events, 198A3:29–30
 organic-rich sediments, 162B15:211
 sediments, 121B24:473, 483; 123B11:221; 141A6:113;
 141B22:290; 164B5:50; 169A4:179–181; 5:222–
 223, 225; 6:284–287
 Site 799, 127/128B(1)35:628
 Tyrrhenian Sea, 107A8:439
 vs. age, 162B15:212
 vs. depth, 164B5:50; 169A4:183; 5:225
 pristanone, chromatograms, 175B5:19
 pristene, sediments, 160B23:288; 175B5:4
 problematic fossils, biostratigraphy, 152B14:201–208
 prodelta deposits, sea level lowstands, 123B43:805
 prodelta environment
 Kirkwood Formation, 174AXS_A7:44
 lithology, 174AXS_A1:28; 2:18–23; 4:14; 5:21–23, 35–
 36; 6:29–30, 43–48; 7:22, 44, 51
 photograph, 174AXS_A6:74, 78
 production capacity, vs. depth, 157A6:173; 10:545
 productivity
 bacteria, 164B36:387–388
 barite production, 119B41:725
 barium, 127/128B(1)37:652, 661–662; 210A3:98;
 210B10:5
 benthic foraminifers, 175B(synthesis):95
 biogenic opal, 178B23:8–12
 biomediation, 184B12:8–10
 biosiliceous composition, 177A6:12
 biostratigraphy, 201B16:7
 black shale, 210B10:5
 burial at Paleocene/Eocene boundary, 199B23:5
 carbon dioxide, 177A1:8
 carbonate crash, 206B4:1–24
 carbonates, 130B44:734–736; 154B12:192–193;
 15:231–234; 18:269–284; 19:289–295; 25:375–
 388; 29:446, 448; 172A5:214; 178A6:13–14
 chlorophyll, 199A1:53
 circulation, 161A1:13–14
 climate optimum, 178B34:5–6
 climate reversals, 178B34:4–5
 correlation, 167B11:176, 178
 Cretaceous, 132B1:12
 currents, 181A9:1–92
 cycles, 119B12:232; 127/128B(1)25:431–432; 33:591–
 594; 175B(synthesis):17–18, 20–23
 deposition, 202A10:8–10; 11:9–10
 diatoms, 127/128B(1)20:342; 128A4:122;
 130B30:509–523; 155B21:370–371; 172B8:4;
 175A17:527–528; 178A7:10; 184B6:1–9
 dissolution, 130B44:726, 729
 dolomite, 175A16:495, 498; 175B15:1–17
 Eocene, 199B20:13–17
 estimation methods, 127/128B(1)25:425
 fluctuations, 175B(synthesis):74
 foraminifers, 130B19:340–341; 29:499; 133B14:183,
 185; 208A8:18
 geochemistry, 154B35:515–516; 160B17:211, 213,
 215; 202B8:7–9
 global vs. regional causes, 117A9:243
 hydrography, 175B11:3
 ice volume control, 117B24:439
 isotope stratigraphy, 160B13:178–179; 26:317–331
 Japan Sea, 127/128B(1)10:167; 16:296, 299; 37:651;
 128A1:21
 Jurassic–Cretaceous interval, 129B32:601
 Kita-Yamato Trough, 128A5:355
 lithology, 119B12:229–230; 159A5:86; 162A5:149,
 152; 164A6:111; 202A6:8–9; 7:10; 9:9–11;
 207A5:9
 lower Quaternary, 175B21:1–31
 mass accumulation rates, 206B2:9–10
 monsoonal effects, 117A1:6, 8–9
 nutrients, 117B24:436; 199B22:9
 ocean circulation, 138B35:722–723; 203A1:4–5
 Oligocene, 181B1:41–42
 opal, 119B10:201; 127/128B(1)17:311
 organic carbon, 127A6:283; 127/128B(1)25:430
 organic matter, 160B16:200–204; 161A9:403;
 186B11:6–7
 oxygen minimum zone, 144B44:760
 paleoclimatology, 175A1:8–9, 16, 17–21; 207B1:7–8
 Paleogene equatorial transect, 199A1:2
 phosphate, 175B(synthesis):45
 planktonic foraminifers, 130B34:57; 138B25:576–578
 Pliocene–Peistocene interval, 178B26:1–21
 Pliocene–Quaternary interval, 160B19:232, 235, 238,
 241
 radiolarians and silicoflagellates, 160B11:144–145
 reconciliation of signals, 199B22:10–11
 sapropels, 160A2:23; 160B3:33; 19:227–248;
 161A1:12
 sea ice, 127/128B(1)17:311; 178B25:11
 sedimentation, 127/128B(2)77:1228; 138B1:14–16;
 145B20:293–314; 160B3:34
 sediments, 151A1:20, 22; 175A9:258; 16:489, 504;
 17:508–512; 22:565–566; 178B7:10–14
 silica, 127/128B(1)39:694
 siliceous microfossils, 127/128B(1)25:430
 Site 741, 119A10:388
 Site 796, 127A6:274
 Southern Ocean, 114B31:591–592
 spectral analysis, 154B7:140–142
 Tsushima Current, 127/128B(1)17:311
 upper Quaternary, 175B(synthesis):77; 19:1–19
 upwelling, 117B35:571; 175A17:509, 511–512;
 175B(synthesis):5–6; 18:1–24; 23:15–18;
 210B8:17
 vs. age, 175B23:29–30
 vs. bulk mass accumulation rates, 199B1:33
 vs. depth, 206A1:67; 3:154
 Zanclean, 160B9:120
See also nutrients; paleoproductivity
 productivity, biogenic
 chemical proxies, 165A3:79
 circulation, 120B(2)46:875
 Cretaceous/Tertiary boundary, 120B(2)54:966
 Site 748, 120A7:229–230; 120B(1)1:23

- Site 751, 120B(1)13:188–190
- Southern Ocean, 120B(1)12:175
- productivity, bulk oceanic, power, 175A3:53
- productivity, excess siliceous, power, 175A3:53
- productivity, hyperoligotrophic, Aptian, 192A3:14
- productivity, primary
 - carbonate compensation depth, 138B42:831–833
 - Pacific Ocean E, 138B35:718
 - paleoproxies, 202B1:4
 - rates, 138A(1)8:103–104, 115
 - vs. age, 202A1:97–101; 7:27; 8:34; 9:33; 10:32; 11:28; 12:29; 13:25
- productivity, surface water
 - boundaries, 114B31:593
 - light, 114B31:591–592
 - Site 698, 114A5:88
 - Site 699, 114B33:612, 628
 - Site 700, 114A7:305
 - Site 701, 114A8:412
 - Site 704, 114B23:415, 417–418; 24:449; 25:463, 468; 26:479–480
 - sources, 114B31:592; 115B25:468
 - Southern Ocean, 114B33:625–626
 - water circulation, 115A5:237
- productivity cycles, Quaternary, 175B(synthesis):42–43
- productivity hypothesis, black shale origin, 210A3:55–56
- productivity index
 - benthic foraminifers, 175A17:518–519, 523; 175B21:6
 - dark layers, 162A8:274
 - diatoms, 175B21:6–10
 - sediments, 119B22:408, 410; 157A6:166; 162A8:277, 313; 172A3:60; 4:133; 5:223; 6:284; 184A5:88; 6:61; 7:95; 9:116; 205A5:112
 - vs. depth, 157A6:173; 10:545; 162A9:313
 - vs. temperature, 156A6:144
- productivity map, Benguela Current, 175A17:507
- productivity proxies, carbonates, 206B4:7–8
- profiles, channels, 155A3:28
- proglacials, deposition, 188A4:17
- progradation
 - age, 119A8:337–338
 - atolls, 144B14:286–289
 - backstripping, 174AXS_A(summary):9
 - carbonates, 166B16:167–177
 - clinoforms, 194B5:14–15
 - continental margins, 150B20:371–372
 - cycles, 119B1:19; 133A(1)12:482–483
 - deltaic environment, 189A3:18–21
 - deposition, 119A12:459; 119B6:118; 19:376
 - drift deposits, 178B8:3–4
 - Eocene, 189A1:7
 - glacial topset beds, 119A9:336–337
 - glacial units, 119B48:880
 - grain size, 166B6:67–73
 - gravel content, 119B6:81
 - hiatuses, 119B6:122
 - ice-shelf stability, 119B6:115
 - inner shelf vs. outer, 119B48:876
 - lithofacies, 133B24:337–342
 - lithology, 119B6:100–101; 166A8:179–180; 174AXS_A3:18–19
 - middle Miocene, 182A1:4
 - Miocene, 133B27:393–394
 - Neogene, 150B14:280
 - Oligocene–Miocene interval, 119B48:885
 - paleoenvironment, 174AXS_A4:11–12
 - platforms, 166A1:6
 - Pliocene–Pleistocene interval, 182A7:11
 - progradational wedges, 123A5:286, 343
 - sediment transport, 178A1:3; 2:11–13
 - sedimentation, 182A5:9; 188A1:10–11
 - sediments, 182A1:33–37
 - seismic geometry, 133B23:315–325
 - seismic profiles, 119A6:214–215, 217; 11:444
 - seismic stratigraphy, 119A9:336–338; 12:474; 119B6:81; 174A_A1:11–12
 - sequence stratigraphy, 133B25:355; 150B12:237; 166A3:25–26, 38; 174A_B(synopsis):2–5
 - Site 743, 119A12:465, 475
 - stratigraphy, 188B1:9–11
 - summary, 182A1:28
 - thickness, 119B1:16–17
 - topset bed geometry, 119B1:19
 - uniformity, 119A8:339
 - upper and lower units, 119B6:92–93
 - upper Neogene, 188A1:4–5
- progradational wedges
 - lithology, 182A5:8; 9:8
 - summary, 182A1:30
- prokaryotes
 - biomarkers, 207A10:6–7
 - black shale, 207B13:2
 - chemical interfaces, 201B1:22–24
 - contamination, 201A6:20–21, 83
 - intact membrane lipids, 207B12:3
 - organic-rich sediments, 162B15:215
 - sediments, 167B12:188; 201A1:21–22, 24–25, 27–29, 34–35, 38, 41–42, 47; 6:19–23; 7:20; 9:15; 10:17–18; 11:19–20, 58–60; 12:15–17
 - total cell counts, 201B1:12–13
 - vs. depth, 201A1:62–63; 6:49–50; 7:51–52; 8:42–43; 10:44–45; 12:37–38; 201B1:42–43
- prokaryotes, methanogenic, sulfate reduction, 201B1:20–22; 2:6–7
- prokaryotic growth, community structure, 201A1:17
- proline, racemization, 174AXS_A7:27–29
- promethium, Paleocene/Eocene boundary, 199B16:3
- propane
 - anaerobic sediments, 112A16:544
 - carbon isotopes, 141B24:310–311; 184B13:15
 - chimney structures, 125B21:376
 - compressibility, 161B10:125–127
 - concentration, 162A8:276
 - core void gas, 204A4:112–114; 5:35, 58; 6:46, 74; 7:68; 8:53, 86; 9:12–13, 51, 84–85; 10:61, 102–103; 11:40, 57
 - cores, 144A3:74; 4:129, 131
 - correlation with sulfate, 168A5:138–139
 - diagenesis, 151A13:412–414
 - gas hydrates, 164B3:30–35; 4:40–45; 5:51, 53–56; 170A5:171–172; 204A4:114; 5:59; 6:75; 7:14, 69; 8:14, 97; 9:86

gases, 131A6:143–144
 geochemical cycles, 205B1:20; 6:12
 headspace and Vacutainer gases, 202A5:60
 headspace gases, 133A(1)12:469; 13:525; 14:586;
 15:639; 16:711; 167A(1)6:150; 11:303; 12:340;
 13:372; 14:415; 16:481; 182A1:54; 5:18;
 201A8:61; 10:69–71; 11:94–95; 202A10:88;
 13:70
 Lima Basin C, 112B33:530
 lithology, 119A11:420, 422–423; 164A6:112–113
 migration, 190A5:26–27
 molecular composition, 131A6:191
 Pisco Basin W, 112A18:724
 pore water, 201A1:32; 8:16; 10:16; 11:17–18;
 204A3:112
 pressure cores, 204A4:115; 6:76; 8:88–89; 9:87;
 10:104–105
 retention times, 113A8:383
 Salaverry Basin, 112A13:318
 sediments, 131B15:190–192; 139A7:319–320;
 141A7:202–203; 146A(1)5:177–178;
 150A10:328; 151A7:184–186; 8:241–242; 9:288;
 10:334, 336; 12:386–392; 152A11:230–231;
 12:269; 161A9:403; 162A6:191; 9:311–312;
 10:360, 369–370; 164A7:197; 8:263; 166A7:160;
 8:187; 9:250; 11:360; 167A(1)5:105; 8:193;
 13:368; 169A3:117, 119; 170A4:129, 131; 5:171;
 6:203; 7:234–235; 171B_A6:283–284;
 172A4:116, 118; 5:209; 6:272–277;
 174A_A5:172, 176; 175A4:109; 5:136; 6:173;
 7:195; 8:218; 9:265; 10:305–306; 11:335;
 12:376; 13:421; 15:480; 177A3:12, 58; 4:87;
 6:13; 7:14; 8:15–16; 9:12; 178A5:17; 180A5:34;
 180B18:4–14; 182A1:15; 184A7:90–91; 9:17–18,
 110–112; 184B13:4; 188A3:48–49; 189A3:40–42,
 158–160; 5:156–157; 6:49–50, 165; 7:139;
 190A4:21; 5:25–27, 135–136; 9:20; 202A10:16;
 204A3:19–20; 4:16–17, 110–111; 5:8–9, 57; 6:12,
 73; 7:13, 67; 8:85; 9:83; 10:16, 100–101; 11:56;
 205A5:35; 6:18–19; 207A4:105; 5:26, 112–113;
 7:105–106; 8:95; 210A3:95
 Site 682, 112B33:531
 Site 685, 112A17:622–623
 Site 696, 113A11:650
 Site 723, 117A11:353, 356–358
 Site 724, 117A12:406, 412–413
 Site 779, 125A7:125–126
 Site 783, 125A11:260
 Site 795, 127A5:174, 213–216, 220
 Site 797, 127A7:368
 Site 798, 128A4:125, 176, 187
 Site 799, 128A5:244–245, 321–322, 339
 Site 881, 145A3:54
 Site 882, 145A4:98
 Site 883, 145A5:153
 Site 884, 145A6:242
 Sulu Sea, 124A11:244–247
 thermogenic vs. biogenic gases, 190A1:85
 Trujillo Basin, 112A16:544
 Vacutainer samples, 201A11:96

vs. depth, 113A5:131; 6:238; 7:313; 8:382; 9:487;
 10:563–564; 11:652–653; 12:738; 139A7:342;
 8:483–485; 146A(1)5:180; 7:337–338;
 146B(1)10:180; 151A7:185, 188; 8:244; 9:288;
 10:334; 12:392; 162A5:160; 6:192; 9:310;
 10:368; 164A7:199; 164B5:53; 166A9:250;
 170A4:130; 5:175–176; 7:229; 180A5:86;
 184B13:12; 188A3:132; 190A4:65; 5:71;
 201A1:68; 8:36; 10:41; 11:51; 204A3:68; 4:68,
 70; 5:33; 6:44, 46; 7:41–43; 8:52; 9:50–51; 10:61;
 11:38, 40; 205A1:51; 5:45, 86–87; 6:43;
 205B1:44; 6:22
 Yaquina Basin, 112A15:458
See also methane/(ethane + propane) ratio; methane/
 propane ratio; methylpropane
 propane, expansion void gas, vs. depth, 146A(1)5:182
 propane, thermogenic, Oman margin S, 117A16:524
 propane, Vacutainer, vs. depth, 172A5:218
 propane/propene ratio, headspace gases, 167A(1)4:80
 propane/propylene ratio, headspace gases,
 167A(1)7:171; 8:205
 propanotrophy, pore water, 201A1:34
 propene
 gas hydrates, 164B3:30–35
 headspace gases, 167A(1)6:150; 8:205; 14:415; 16:481
 sediments, 175A5:136; 9:265; 10:305–306; 12:376;
 13:421
See also propane/propene ratio
 propionate
 pore water, 135B44:710–711
 vs. depth, 135B44:712–713
 vs. formate, 135B44:711
 propylene
 Celebes Sea, 124A10:159
 sediments, 162A9:311; 10:369–370; 171B_A6:283–
 284; 204A11:56
See also propane/propylene ratio
 propylitization, clasts, 158B18:243–244
 protactinium-231/uranium-235 ratio
 basalts, 142B5:37–38
 geochronology, 169B4:1–15
 massive sulfides, 169B4:14–15
 vs. thorium-230/uranium-234 ratio, 169B4:10, 12
 Proteaceae, Site 823, 133B10:116
 proteins
 Lima Basin C, 112B9:141, 152–153
 mass chromatograms, 172B1:9
 Pisco Basin W, 112B9:141, 152–153
 sediments, 172B1:2
 Site 680, 112B9:141, 145, 150, 152–153
 Site 681, 112B9:141, 152–153
 weight of organic carbon, 112B9:137
See also phytone
 proteins, carbonized plant
 physical properties, 119A10:391
 seismic stratigraphy, 119A10:393
 Site 741, 119A10:381, 395
 Proteobacteria
 cultured isolates, 201B1:15; 2:9
 microbial divergence indexes, 205B8:9
 proteobacterial isolates, lipids, 207B12:4

- Proteus
 Cenozoic circulation patterns, 113B49:875–876
 ocean circulation, 113B53:950
See also proto-Oceanus
- Protista. *See* Archaeomonadaceae
- protodécollement zone
 bulk density, 171A_A3:26
 comparative overview, 171A_B2:19
 deformation, 171A_B3:6–7
 density, 171A_A6:90
 fluid flow, 171A_A7:101
 listric normal and thrust faults, 171A_B3:23
 low density, 171A_B3:5–6
 peak seismic amplitude, 171A_B3:18
 porosity, 171A_A3:34–35; 171A_B1:1–19
 resistivity, 171A_A5:73
 sandy underthrust terrigenous sequence, 171A_B3:19
 sediments, 156B7:112; 190/196B7:11
 seismic reflection, 156A2:19, 24
 Sites 1044 and 1045 comparison, 171A_A4:48, 50
 Sites 1044 and 1046 comparison, 171A_A5:66
 Sites 1044 and 1048 comparison, 171A_A7:101
 synthetic seismograms, 171A_A3:37
 well-logging, 171A_A3:33–34
- protodolomite
 composition, 146B(1)6:129–133
 Rock-Eval pyrolysis, 165A5:256–257
 Site 799, 127/128B(1)34:611
- proto-Oceanus
 Cenozoic circulation patterns, 113B49:875–876
 ocean circulation, 113B53:950
See also Proteus
- protocataclaste, photograph, 209A7:73
- protoconchs, specific characteristics, 134B15:326
- protoliths
 amphibolites and metagabbros, 173B10:6
 basalts, 183A9:23
 basement, 161A6:230; 161B20:282–283
 dunites, 173A7:192–193
 fault gouge, 180A11:4
 foliation, 135B20:320
 gabbros, 209A5:18
 igneous rocks, 180A1:13
 lithology, 129B3:81, 93; 139A7:300; 161B23:308;
 176B6:3, 8:128; 200A3:22
 metamorphic rocks, 180A7:11–12
 mineralogy, 173A7:190
 peridotite, 173A7:189–190
 photomicrograph, 169A3:100; 209A6:73
 serpentinized peridotites, 173A9:280–282
- protoliths, gabbroic, amphibolites, 173A6:155–156
- protomylonites, intensity in cores, 209A5:111
- protomylonitic zones
 gabbros, 153B9:159–161
See also mylonites
- protoremnant arc
 arc volcanism, 126B26:395
 Sumisu Rift, 126B38:559
- proton probe data, volcanic glass, 135B30:533–542
- protoperidiniacean cysts, Miocene–Pliocene interval,
 186B6:6–7
- protoperidinioid cysts, Site 904, 150A8:226
- protostylolites, lithology, 210A3:29
- protothrust zone
 boundary, 131A2:17
 deformation, 190/196B1:3
 domains, 190A5:11–12
 geology, 190A1:5
 microstructures, 190/196B7:3
 seismic data, 190A1:4–8; 5:12
 structural subdivisions, 190A2:4–5
- protozoans. *See* Archaeomonadaceae; calpionellids
- provenance
 argon isotopes, 178B22:10
 chrome spinel, 159B14:135
 clasts, 160B45:585–586; 50:668, 678; 180B8:9–12
 clay minerals, 156B1:15–17, 20–21; 178B8:8–10
 clay, 180B17:5–6; 190/196B3:6–7
 deep-sea sediments, 185B7:1–21
 deposition, 166A3:35
 detrital component, 167B23:268–270; 190/196B6:10–
 11
 diatoms, 181A6:60
 fine-grained sediments, 210B8:13–15
 hemipelagic mud, 168B5:51–65
 ice rafting, 145B12:195–204
 indicators, 167B25:291–292
 lithofacies, 161B4:65–66
 lithology, 149A7:220, 222; 180A8:11–12; 200A1:28–
 30; 210A3:25, 29–30, 35–36, 38–39, 43–44, 46,
 49–50
 major and minor elements, 160B17:213
 Miocene volcanic ash layers, 165B5:101–113
 mud, 155B8:169–176
 muscovite, 210B4:3–5
 nannofossil clay, 184B12:6–7
 organic carbon, 146B(2)9:128, 130–131
 organic matter, 146B(2)15:216–217; 151B23:407–414;
 155B31:513, 515, 522
 paleoenvironment, 160A9:296–297; 195A4:17–19
 petrography, 159B12:119–120
 quartz-feldspar-lithic fragments system, 210B2:36
 quartz granitoid sources, 210B5:3–4
 Quaternary, 159B43:585–603
 rock fragments, 146B(1)2:42
 sand, 141B10:133–151; 146B(2)5:61–75; 149B11:269–
 280; 161B3:37–56
 sandstone, 146B(1)29:425–429; 160B45:578, 584;
 190/196B3:1–28
 sapropels, 160B3:35
 sedimentation, 130B28:471–490; 157B20:343–360;
 27:459–462; 161B2:28–32
 sediments, 131B2:15–34; 28:347; 133B27:403;
 146B(2)7:91–94; 150B5:65–95; 155B7:152–154,
 156; 160B18:221; 162B6:93–94; 167B22:259;
 32:361–362; 180A5:17–19; 180B(synthesis):12;
 6:1–53; 183B7:8; 184B19:6; 188B2:11; 3:13;
 202A3:8–9
 siliciclastics, 150X_B12:156–158; 161B7:94–95
 source areas, 152B2:19–28
 tectonics, 127/128B(1)7:109; 180B7:44
 tephra fall deposits, 183B9:7–8

- terrigenous component, 167B18:231
 thermal maturation analysis, 131B5:63
 trace elements, 160B16:200–204
 turbidites, 157B31:556–557
 turbidity currents, 195A5:8
 volcanic ash, 198B18:5–8
 volcanoclastics, 157B17:305–307; 180B7:1–58;
 200A3:32–34
See also sediment sources; sedimentation; source rocks
- provenance, detrital, clay minerals, 156B1:15–17, 20–21
 provincialism, Paleogene, 135B16:252–256
- proxies
 age models, 202B4:8–12, 24–31
 bacteria, 164B37:393–398
 color images, 167B29:319–329
 comparison, 202B1:55–56
 geochemistry, 202B8:7
 paleoclimatology, 175B23:1–46
 Pliocene, 202B13:11–13
 sediments, 202B10:3
See also carbonate proxy; gas hydrate proxies
- proxy validation, foraminiferal preservation, 198B3:6–8
- prymnesiophytes
 alkenones, 146B(2)19:262
 ketones, 138A(1)11:303
 organic-rich layers, 161B30:395–396
 sapropels, 160B21:264, 267
See also Polycyclolithaceae; Prediscosphaeraceae
- pseudo-Rayleigh waves, analysis, 102A3:115–116, 118
Pseudoalteromonas flavipulchra, microbial populations,
 187B6:7, 9
- pseudobreccia, photograph, 193A4:93, 137, 185
 pseudobreccia texture. *See* textures, pseudobreccia
- pseudobrookite
 magnetic properties, 144B36:622
 photograph, 144B36:630
- pseudoextinction
 biostratigraphic datums, 154B1:32–42
See also extinction
- pseudofaults, sedimentation, 135B2:21
- pseudolaminations
 lithology, 167A(1)9:226–227
 photomicrograph, 160B45:594–595
See also laminations
- Pseudomonas putida*, sediments, 195B3:11
Pseudomonas stutzeri, microbial populations, 187B6:9–10
- pseudomorphism
 basalts, 131A6:153
 compositional variation, 129B5:142
 lithology, 195A3:12–13
 petrography, 143A6:141
 photomicrograph, 192A3:87–90, 95–98, 113–114,
 117–119; 193A4:158; 195A4:91, 108
 serpentinization, 153B3:38–39
 silicification alteration, 193A3:44–47
- pseudomorphs
 alteration, 183B15:6–9
 basalts, 187B7:7
 clasts, 173A7:189–190; 9:283–284
 clay, 163A3:27
 clay minerals, 152B34:418
- clinopyroxenes, 180A7:15
 deformation, 147B14:290
 electron microprobe data, 209B2:1–13
 gabbros, 209A3:8
 geochemistry, 169A3:100–101; 192A3:28–29
 hydrothermal alteration, 209A5:14, 18; 209B4:3–4
 lithology, 152A9:117; 187A12:7–8; 13:4; 188A3:11–
 12, 22; 193A3:30; 4:14
 olivines, 148B8:108; 163A5:57
 petrology, 179A4:44
 photograph, 153A7:264–265; 153B3:48; 158A8:162;
 158B18:248; 169A3:92, 100; 169S_A2:27;
 173A9:281; 183A9:84; 209A3:107
 photomicrograph, 157A8:416; 157B17:313;
 163A5:60; 168A5:125; 169A3:79; 183A5:104;
 185A3:117; 187A8:34; 12:27; 13:16; 192A5:86;
 6:76; 193B6:14; 209A1:89; 3:77–78, 86, 99, 106;
 5:105, 118, 130–131; 6:46–47, 81, 86; 9:61;
 10:77
 pyroxenes, 173A9:293
 saponite, 148B12:182–186
 scanning electron backscattered image, 187B7:20
 serpentinites, 173A7:192–193; 209A7:7–9
 sills, 169A3:92
 textures, 180B3:5
 ultramafics, 209A3:11
 zeolites, 183A5:31
- pseudomorphs, olivine
 geochemistry, 192A3:28–29
 lava, 197A3:15
 low-temperature alteration, 192A3:30; 192B6:3–4
 petrography, 157A10:521
 photomicrograph, 197A3:79; 4:49
- pseudomorphs, pyrite-marcasite, 118B5:117
- pseudomorphs, titanomagnetite, scanning electron
 backscattered image, 187B7:20–21
- pseudonodules, photograph, 180A8:54
Pseudoparrella exigua, vs. depth, 199B8:10–11
- pseudosingle domain
 basalts, 183B12:9–12, 18; 187B7:7
 climate optimum, 178B34:6
 coercivity, 164A8:261
 magnetite, 164A7:192
 magnetostratigraphy, 188A3:43
 saturation magnetization, 201B17:11
 sediments, 183B13:16
See also single domain
- pseudosingle domain, synthetic, magnetic minerals,
 178B14:3
- pseudosingle domain samples. *See* pseudosingle domain
- pseudospeciation
 biostratigraphic datums, 154B1:32–42
See also speciation
- pseudostratigraphy, magnetic susceptibility, 179B(syn-
 thesis):7–11
- pseudotachylite
 cataclastic features, 104A4:107
 foliation, 173A6:148
 fracture-tip linkages, 104A4:108
 Norwegian Sea, 104A4:106
 scanning electron microscopy, 104A4:108, 112

- textures, 104A4:107–108
 vesicular data, 104A4:110
 zoning, 104A4:107, 109–110
 psychrosphere
 expansion, 189A1:56
 Neogene, 189B1:17
 pteridophytes
 Site 820, 133B9:110
 spores, 133B9:110
 sporomorphs, 183B3:7–8
Pterocarya, lithology, 174AXS_A7:15
 pteropods
 dissolution, 115B29:563, 584
 fragmentation, 115B29:540, 560
 lithology, 155A13:391; 17:506–507; 164A5:69; 9:283;
 165A4:138; 5:238; 7:363; 165B4:87; 166A6:77;
 7:154–156; 9:238–241; 10:295–296; 11:351–355;
 172A4:84; 180A9:6; 180B6:5–6; 182A4:5–6; 5:4;
 184A6:5; 7:5–9; 194A3:5; 5:3–7
 lysocline, 135B11:169–170
 photograph, 155A17:508, 512; 160A5:98; 9:299;
 161A4:63
 preservation, 115B30:582, 587
 Quaternary, 134B15:319–334
 sediments, 124B11:161; 29:388, 395; 160B19:230,
 232–233, 236, 239
 Site 680, 112B22:376
 Site 716, 115A13:1008; 115B29:561
 Straits of Florida, 101A5:57
 vs. age, 133B16:213
 vs. depth, 134B15:322–323, 325
 whole-shell percentage, 133B16:207, 211–212
 pteropods/planktonic foraminifers ratio
 lithology, 115B30:584
 vs. depth, 184A5:45; 6:33
 pull-apart basins, Japan Sea, 128A1:12–13
 pull-aparts, sigmoidal
 photograph, 206A3:268, 275
 veins, 206A3:75–76
 pulleniatinids
 Pacific Ocean, 138B25:564–565, 572–573
 vs. depth, 164B34:356
 pumice
 age, 126B1:7–9; 157B18:324
 alteration, 126B8:136–137; 183A6:50
 andesite–rhyolite transition, 126B26:395
 basement, 183A6:24–25, 36–37
 bed thickness, 126A6:116
 breccia, 135B38:643–644
 compaction, 126B8:129, 136–137
 Conical Seamount, 125B25:417
 dissolution rate, 126B34:525
 distribution, 126B1:11
 dropstone, 130A8:306
 dry bulk density, 126B37:553
 eruption episodes, 126A6:116
 geochemistry, 125B25:421–423; 126B1:7, 9, 20–21;
 26:385, 387–388; 157B18:316, 318, 321, 323–
 328
 grain types, 126B1:7–11, 19
 indurated rocks, 126B8:126
 Izu-Bonin arc, 126B2:44
 Kerguelen–Heard Plateau N, 119A5:130
 Kerguelen Plateau, 120B(1)10:138
 lawsonite, 125B25:420
 lithology, 126B1:5–6; 2:9; 134A10:266; 135A(1)4:104–
 105; 144B42:699; 157A10:507; 170A6:195;
 7:219–220; 177A8:7–8; 180A6:9–10; 181A4:6;
 183A1:24; 5:7; 185A4:11–12; 186A5:8–9;
 202A12:8
 low-alkali tholeiite series, 126B1:9
 major oxides, 126B1:12–14
 Mariana forearc, 125B24:403–404
 Marsili Basin, 107A6:140, 169; 107B18:297–298
 Norwegian Sea, 104A4:91
 origin and deposition, 126B1:9–11
 oxide stratigraphy, 126B33:512
 petrography, 126B1:7; 157A7:351, 353–355
 petrology, 126B26:396, 398
 photograph, 135A(1)11:645; 152B8:112–113;
 157A7:336; 10:511; 183A6:83, 89; 7:77;
 185A4:64; 186A4:95
 photomicrograph, 157B15:266; 161B3:54; 180A1:60;
 193B8:11
 physical properties, 126A7:199
 Pliocene–Quaternary unconformity, 126B1:11;
 26:386; 33:508; 38:570
 pressure welding, 126A6:112
 Site 701, 114A8:369
 Site 703, 114A10:558, 570; 114B22:387, 395, 399
 Site 704, 114A11:634
 Site 793, 126A9:326, 336
 sources, 132B5:57–66
 Sumisu Rift, 126B27:408
 tephra, 186B9:4–5
 textures, 126B1:6–7
 thickness, 126B1:4
 trace elements, 126B31:481
 Tyrrhenian Sea, 107A7:300; 107B18:297–298
 upward-coarsening sequence, 126B31:482
 volcanic ash, 134B21:409, 411–412
 volcaniclastics, 157A8:414–415
 woody fragments, 126B9:151
 See also blebs; clasts; conglomerate; dropstones;
 gravel; micropumice; pebbles; reticulite; sand;
 tube pumice; tuffs; volcanic ash-pumice beds se-
 quence; volcanic glass/pumice ratio
 pumice, anhydrous, petrology, 126B26:389
 pumice, black, photograph, 135A(1)11:642
 pumice, dacite, petrology, 126B26:387–388
 pumice, felsic, photomicrograph, 157A7:358
 pumice, long-tube, occurrence, 127/128B(1)8:117, 130
 pumice, pyroclastic, sequences, 124A11:216;
 124B13:183, 185–186
 pumice, rhyodacitic, composition, 135A(1)10:517
 pumice, rhyolite, petrology, 126A6:120–121;
 126B26:386–388; 135A(1)11:632–635
 pumice, silicic
 petrology, 126B26:386–388
 photomicrograph, 161B12:145
 pumice, weathered, photograph, 135A(1)5:194
 pumice ash layer, photomicrograph, 195A4:84

- pumice clasts. *See* clasts, pumice
pumice cobbles. *See* cobbles, pumice
pumice crystals, lithology, 183A6:4
pumice fragments
 lithology, 183A5:4, 13; 6:4; 190A6:6; 199A11:8
 photograph, 190A9:33
pumice grains
 lithology, 186A4:17, 21–22; 5:14–15
 photograph, 186A5:61
 vs. depth, 186A5:49–50
pumice lapilli
 basement, 183A6:24–25, 36–37
 lithology, 183A5:13
 photograph, 157A10:509–510; 161A4:63
pumice layers, number, 186A5:102–103
pumice pebbles. *See* pebbles, pumice
pumice rafts, volcanic ash, 198B18:6
pumice sand, photomicrograph, 157A10:524
pumice shards, vitroclasts, 157B16:270
pumice texture. *See* textures, pumice
pumpellyite
 clasts, 149A6:167
 Ohmachi Seamount, 126B12:186
 petrography, 148A2:47
 photograph, 135A(1)11:602
 Sumisu Rift, 126B12:186–187
 X-ray diffraction data, 176A3:144
 See also prehnite-pumpellyite facies; prehnite-
 pumpellyite veins
pumpellyite grains, volcanoclastic sand, 180B7:6
purge-trap adsorption gas analysis, gases, 180B18:1–14
purification, carbonate sediments, 130B44:738
pynochlorite. *See* picnochlorite
pycnometers, wet sample volume analysis, 127/
 128B(2)63:985–986, 988–989
pynocline
 depth, 161B38:487; 202A1:97–101; 7:27; 8:34; 9:33;
 10:32; 11:28; 12:29; 13:25
 Zanclean, 160B9:119–120
pyralspite field, low-calcium, garnets, 183B16:2
pyrenes
 gas chromatographs, 169A6:286
 sediments, 139B15:339
pyrite
 abundance, 127/128B(2)78:1235–1241; 175A16:501
 accessory component, 173A8:245–249; 188A3:74–75;
 188B4:11, 13
 alteration, 111A3:61–63, 67; 129B19:367; 134A9:236;
 135A(1)11:644–645; 135B40:658; 137A2:28–29;
 139A6:205, 213–231; 8:496–499; 139B11:214;
 147A3:68–69, 71; 4:133; 148A2:45–53;
 148B12:173; 163A4:42; 168A4:73–75, 77;
 5:112–113, 131–132; 6:173–174; 168B10:126;
 169A3:85–86; 169B10:13–14; 185A3:25–26;
 187A12:9; 192A1:26; 7:9; 193A1:26; 3:51;
 193B1:15; 197A4:21–23; 206A3:66–73;
 209B1:11; 210A3:57
 amygdules, 193A3:29–30
 Atlantic Ocean E, 108B17:300, 302
 authigenic minerals, 144B51:900
 basalts, 169A6:272; 191A4:34
 basement, 183A8:18; 185A1:18
 Bengal Fan, 116A4:49, 62; 5:94; 6:158, 162;
 116B20:243–244
 benthic foraminifer extinction, 198B3:11–12
 Black Sea, 127/128B(1)41:712
 black shale, 207A4:24–26
 breccia, 158A7:70–71, 73–81
 Cagayan Ridge, 124B26:361, 364–365
 carbon/oxygen ratio, 164B21:206–207
 carbonates, 144B26:461–465; 151B24:429; 194A5:18–
 19
 Celebes Sea, 124A10:133, 136, 156
 chalk, 160B32:410
 chemical composition, 193B3:9–14
 clasts, 158B18:243–244
 clay, 180B17:20
 concretions, 151B32:572
 Coniacian–Eocene interval, 159B12:119
 convergent margins, 141B8:109
 Costa Rica Rift, 111B3:30–32; 6:67; 11:124
 crystallinity, 144B51:910–911
 dacite, 193B12:3–4
 dark–light cycles, 127A5:211; 6:267; 127/
 128B(1)33:584, 588
 dating, 113A7:300
 deep copper zone, 169A3:77
 diagenesis, 112A14:373–374; 127/128B(1)2:39;
 138A(1)10:205; 139B7:109; 150X_B3:39;
 160B32:408; 164B13:145–146; 168A4:80, 85;
 180B6:19; 202A9:11
 diatom-bearing claystone, 127A6:261
 diffusion, 160B20:255–256
 disseminated sulfides, 169A6:270
 dolomite, 128A4:148; 175B15:6–7
 dusky green halos, 192A6:18
 electron microprobe data, 209B2:4
 energy dispersive spectra, 127/128B(2)87:1378
 Exuma Sound, 101A9:346
 fissure fillings, 192B6:5–6
 formation, 112B27:460; 117A8:179; 117B1:17;
 123B12:227–228; 41:786; 144B51:909
 framboids, 150B20:369
 gabbros, 176B7:5–9
 geochemistry, 129B20:292–293; 158B1:12; 3:42–46;
 166B17:191–194
 globules, 142A4:61
 green amphibole, 118B5:117
 green clay, 184B15:4–7
 high organic matter, 127A7:283
 hydrothermal circulation, 169A1:11
 hydrothermal fields, 158A1:7, 9–13; 158B1:9–17, 21–
 23; 18:237–239; 27:366–367; 28:392–393
 hydrothermal veins, 153A3:79–80; 153B30:524
 igneous rocks, 139A7:511; 209B3:4
 impacts, 178B9:4
 Indian Ocean W equatorial, 115B41:756
 iron, 112B26:447; 117B31:523
 isotopes, 148B5:63–64
 Kerguelen–Heard Plateau N, 119B18:359
 lava flows, 197A3:20–21
 lead isotopes, 158B8:105–108

- limestone, 133A(1)9:313
lithology, 104A5:467; 105A4:113-114; 105B12:180;
139A7:451; 145A7:306; 146A(2)2:31;
150A9:272, 318; 150X_A1:23-24; 151A6:121;
7:166, 171; 152A6:60-62; 154A6:236-237;
8:341; 157A10:507; 159A5:75-78; 7:227-228,
232; 8:263, 265; 160A4:59; 5:93; 9:294; 10:340;
13:454; 162A8:261; 9:296; 10:350; 164A5:73-
75, 79; 6:110-111; 9:285; 165A3:54; 5:241, 244;
7:363-368; 166A10:303; 167A(1)6:132-135;
14:395; 15:437; 16:467-468; 169A4:165-168;
171B_A3:51; 4:98-101, 114-116; 5:180-181;
6:246, 251, 257-259; 7:323; 170A3:53, 55-56;
4:106; 7:220-221; 172A4:84; 173A4:75;
174A_A3:57-58; 4:113-115; 174AXS_A1:21, 27;
4:18, 22; 5:42; 6:34-35; 175A3:56-57; 4:89, 91;
5:119; 6:152; 7:179; 12:351; 13:395; 14:434;
15:460; 177A4:6-7; 180A7:9-10; 8:9; 9:12; 12:5-
7, 10-12, 14, 17; 180B6:6-8, 11, 13, 15-16;
181A4:4-5; 7:7-9; 9:5-6; 182A1:28; 9:6;
183A3:4-6; 6:8-9; 7:5-6; 184A5:7-9; 6:5; 7:6, 8;
8:4; 9:6-7, 10-11; 186A4:18-19; 5:14; 189A3:11,
13-14; 5:10-12; 6:12-15; 190A4:6; 192A1:13;
193A3:28-33; 4:15-41; 6:5; 194A6:4; 9:3;
198A4:10-14; 8:11; 201A7:11; 8:9-10; 12:7-11;
202A5:8; 8:7-11; 9:8-11; 207A4:8; 6:8; 7:4-11;
8:6-7; 207B8:9; 210A3:42
low-temperature alteration, 192A3:30; 192B6:4
low-temperature minerals, 176A3:38
lower sill complex, 210A3:69
Madingly Rise, 115B41:756
mafic and ultramafic rocks, 147B5:92-93
magnetic carriers, 141B5:67-72, 74
magnetic properties, 115B41:748; 127/128B(2)60:947;
139B2:32; 31:539-540; 152B23:273;
158B25:349-350; 208A5:13
magnetostratigraphy, 201B16:5
major and trace elements, 158B2:36-39
Maldives Ridge, 115A11:851, 857; 12:945;
115B41:756
Mascarene Plateau, 115B41:756
massive alteration, 168B10:129
metasedimentary rocks, 152B10:132; 173A8:246-249
mineralization, 158A8:144; 10:178; 11:211; 159B1:5-
7; 193B3:3
modal composition, 155B7:151
moderate-temperature minerals, 176A3:37
Mossbauer parameters, 127/128B(1)43:740
Nazareth Bank, 115A4:132, 140, 146; 115B41:756
Neogene, 159A9:308-309
Neogene-Quaternary interval, 104A4:77-79
no bacterial habitation, 193A3:227
organic carbon, 117B31:525-526
origin, 160B45:587
osmium and rhenium, 158B:95-100
oxygenation, 127/128B(1)41:712
Paleocene/Eocene Thermal Maximum, 198B8:5-6,
20-28
paleoenvironment, 112B26:441
paragenesis, 158B15:194-195
percentage vs. compressional wave velocity,
158B23:325
petrography, 129B17:308; 143B12:176; 193A3:56-57
petrology, 158A11:216, 219
photograph, 139A6:232-243; 141A10:354;
141B8:115; 142A4:68; 144B26:468; 51:913;
146A(1)7:317; 149A6:176; 150A10:318;
150X_B3:44; 151A6:121; 152A8:94; 153B3:56;
158A8:147, 156-157; 10:197; 158B12:148-149;
18:247-249; 159A6:164; 7:229; 159B7:67;
160A13:457; 14:474; 161A6:192; 167A(1)6:135;
168A4:65; 169A3:69, 73, 80-81; 4:166; 6:272;
170A3:62; 171B_A4:111, 117; 178A8:37;
180A5:62; 184A6:28; 7:47; 192A5:38; 193A1:58-
60, 71; 3:172; 4:69, 88, 144; 194A6:35; 9:34;
197A4:76; 198A4:45; 10:20; 201A11:44-45;
206A3:208, 232, 243; 207A4:47; 6:47; 7:46;
209A5:101
photomicrograph, 161B18:260; 164A5:75;
165A4:176-177; 168A5:134; 169A3:71-72;
169B5:18; 180B10:26, 28-29, 32; 183A8:62;
187A12:40; 188A3:93; 192A3:118, 128;
193A1:45, 55, 57, 68, 73; 3:166, 170, 179, 183-
188, 195-198; 4:83, 128-129, 142, 145, 148-
158, 165-167, 175-176, 182-184; 193B1:56; 6:8;
9:24-25; 194A3:33; 4:49; 9:35; 198B16:23;
206A3:205, 222, 227-228; 209A1:89; 3:78; 5:79,
85; 210A3:133, 171
Pisco Basin W, 112B27:462
Pliocene deposition, 107B38:655
precipitation, 112B9:139; 180A9:40
pyritization, 117B31:523
reactivity, 160B20:254-255
reduction, 164A9:294; 165A5:252, 258
remineralization, 160B20:254
rock magnetism, 164A6:121-122
Salaverry Basin, 112A12:255; 13:312; 112B26:447
sandstone, 127/128B(1)9:144
Sardinian margin, 107A10:757; 107B14:227
scanning electron microscopy, 174A_B7:46, 56-59
secondary minerals, 140A2:69-70; 148B11:154-155;
149A4:80; 168A5:126, 128, 131
sediment demagnetization, 127A5:203, 275-276
sedimentary sources, 127/128B(1)41:711-713
sediments, 138A(1)11:285; 139B8:116; 141A10:361;
146A(1)5:154; 6:253; 146B(2)16:222-225;
159B2:16; 160B19:230, 232-233, 236, 239;
20:581; 162A7:243; 8:267; 164A7:183-184;
166A10:312, 317; 167B25:282-284; 172B2:4-6;
177A6:15; 183B7:25
serpentinization, 153B3:42
siliciclastics, 189B11:3-6
sills, 139B6:94; 210A3:67
Site 680, 112B27:462
Site 685, 112A17:603, 605; 112B2:21
Site 688, 112A20:884, 887, 928
Site 701, 114A8:376
Site 704, 114A11:631, 634
Site 713, 115B41:756
Site 721, 117A9:208-209
Site 722, 117A10:282; 11:349

- Site 723, 117A11:349; 117B7:167
 Site 739, 119A8:303; 119B7:134
 Site 740, 119B3:45
 Site 741, 119A19:381, 395
 Site 742, 119A22:409
 Site 748, 120A7:172–174; 120B(1)9:118–119
 Site 758, 121B32:629
 Site 765, 123A4:150; 123B3:80, 87; 12:230–231
 Site 766, 123A5:284, 299; 123B12:230–231
 Site 795, 127A5:186–187, 189; 127/128B(1)41:717
 Site 797, 127A7:344
 Site 799, 127/128B(1)2:36, 46; 6:79; 43:745–746;
 128A5:243, 265
 Site 800, 129B15:285
 Sites 798–799, 127/128B(1)38:670; 46:771, 775
 Snake Pit hydrothermal area, 106/109A5:149
 stability fields, 111B3:33
 stratigraphy, 158A7:67–68; 8:142–144
 structures, 180A11:7–8
 sulfate reduction, 117B31:522–523; 120A7:208;
 165B19:290; 181B1:28
 sulfides, 106/109B12:151, 154–155; 118B5:116;
 139B18:374–375; 45:722; 169A3:59–61, 64–67,
 76; 6:269–270; 169B5:5–6; 9:6; 193B1:22–23;
 10:5–7
 sulfur isotopes, 118B5:119, 122; 129B15:286, 288;
 139B47:737–746; 158B1:17–21; 5:74–79;
 193B1:32
 sulfur, 111B3:35; 4:42–45; 5:55–57; 126A7:208;
 127A5:212–213; 127/128(1)41:705–717;
 (2)78:1249, 1254
 Sulu Sea, 124A11:208
 tektites, 150B13:246–247
 thermal conductivity, 158B24:332–334
 trace elements, 158B2:36–39; 4:55–56
 Trujillo Basin, 112A16:558
 tubular structures, 131B32:411–412
 turbidites, 168A4:57–59; 5:111–112
 veins, 139A7:343, 345–347; 168A4:74–75; 169A3:75–
 76; 192A5:17; 6:19; 193A3:54, 59–65; 206A3:71;
 209A3:14
 volcanics, 127/128B(2)87:1392; 165A4:176
 volcanoclastics, 134B9:133–134; 152B9:122
 vs. age, 178B15:12; 189B11:9–12
 vs. depth, 113B3:30; 6:75–76, 84; 148B35:438;
 150A6:74; 7:144, 146; 8:214; 9:267;
 150X_B7:78; 151B31:556; 34:619, 622;
 159B43:593; 160A5:96; 161A9:399; 164A5:74,
 80; 6:111; 7:181; 9:283; 164B21:207–208;
 167B25:284, 292; 168A4:61; 5:112; 6:170;
 169B5:15; 175B1:10; 183A8:70; 9:99; 184A7:45;
 8:15; 9:52; 185A3:111–112; 186A4:84;
 189B9:18; 192A3:122; 193A3:171; 4:117;
 197A3:99–102; 5:73; 202A4:32; 5:29; 8:45;
 13:37; 209B3:10
 vs. distance above base of Paleocene/Eocene Thermal
 Maximum, 198B8:21–24
 vs. magnetite, 139A6:254
 X-ray diffraction data, 106/109B12:150–151, 153;
 113B3:29, 31; 6:79; 126A7:150; 150A9:287;
 174A_A3:59; 4:116; 5:163; 159A6:163;
 164A6:112; 190A6:8; 201A6:39
 Yaquina Basin, 112A15:449
 zoning, 139B17:353–372
See also fecal pellets; framboids; iron sulfides; mi-
 cronodules; nodules; pyrrhotite-pyrite; sphaler-
 ite-pyrrhotite-pyrite-magnetite; sulfur; veins
 pyrite, anhedral
 photograph, 158B15:198
 semimassive sulfides, 193A4:38–39
 pyrite, authigenic
 Indus Fan, 117A8:160, 182
 lithology, 202A10:7–10; 13:6–9
 Site 688, 112A20:876
 Yaquina Basin, 112A15:441, 445
 pyrite, brecciated, photograph, 158A7:84–87
 pyrite, colloform
 lithology, 158A10:178
 photograph, 158A8:152; 10:184, 188; 158B15:197
 pyrite, detrital, accessory component, 188B4:19
 pyrite, diagenetic, photomicrograph, 160B32:409;
 45:594
 pyrite, disseminated
 parageneses, 193A3:52; 4:35–36
 magnetization, 130A8:318; 130B31:534
 photograph, 158A7:90, 94, 97, 123, 131–132; 8:157;
 10:179–180, 183, 185, 187; 11:217–218;
 193A4:131
 photomicrograph, 193A4:127, 146, 147
 purple color bands, 130B27:458
 sediments, 130A9:383
 pyrite, drusy, photomicrograph, 168A4:74
 pyrite, euhedral
 lithology, 193A6:6
 photograph, 158A8:148, 153; 10:181–185, 187, 189,
 194; 11:214–215, 197–200, 251; 159A5:81
 photomicrograph, 180A7:39; 193A3:181; 193B6:14
 pyrite, fine-grained, photograph, 158A8:152, 158
 pyrite, framboidal
 Celebes Sea, 124B18:241
 cores, 167B25:278–280
 lithology, 127/128B(1)41:706–709, 711; 169A4:166–
 167; 175A5:119; 8:205; 9:233; 194A5:4;
 210A3:52
 ooze, 201B13:5–11
 paragenesis, 193A4:159
 photograph, 157A4:66; 159B14:129
 photomicrograph, 193A1:82; 4:162; 6:20; 201B13:23,
 26, 29–31
 scanning electron microscopy, 207B9:19
 Site 755, 121A13:496
 sulfur isotopes, 159B13:127, 129–131
 volcaniclastic sand, 180B7:6
 pyrite, granular, photograph, 158A7:74; 10:184
 pyrite, heterogenous, sulfides, 169A3:68–69
 pyrite, macrocrystalline, vs. depth, 184A5:41
 pyrite, massive
 geochemistry, 158B4:52
 hydrothermal alteration, 139A6:216–220
 petrology, 158A10:180, 182–183, 188, 190; 11:212

- photograph, 158A7:73, 114, 116, 121, 123–124, 126;
 8:151, 155; 10:185, 190
 trace elements, 158B4:53–60
See also sulfides, massive
- pyrite, massive colloform, photograph, 158A10:181
 pyrite, massive granular
 petrology, 158A7:69–70
 photograph, 158A10:184, 190–191; 11:215
 pyrite, microcrystalline, photograph, 154A4:67
 pyrite, neoblastic
 photograph, 169A3:70
 sulfide mineralization, 169A3:70
 pyrite, nodular, photograph, 158A7:92, 125
 pyrite, paramagnetic, saturation remanence, 182A1:20
 pyrite, poikiloblastic, sulfide mineralization, 169A3:70
 pyrite, polycrystalline, photograph, 158A10:184
 pyrite, porous
 lithology, 158A10:178
 petrology, 158A9:172
 photograph, 158A7:124–125; 8:149, 152; 10:181–183,
 187, 189; 11:214
 pyrite, recrystallized, photograph, 158A7:74
 pyrite, secondary
 photomicrograph, 197A4:57
 sulfur isotopes, 118B5:123
 pyrite, siliceous, photograph, 158A7:116
 pyrite, spheroidal, photograph, 158A8:149
 pyrite, subhedral, photomicrograph, 193A3:177
 pyrite, vuggy, photograph, 169A3:71; 6:270
 pyrite belt, Variscan basement, 149B1:8
 pyrite blebs
 lithology, 198A3:12–13; 6:8
 photograph, 198A3:64
 pyrite crystals, petrography, 200A4:31
 pyrite cubes, photomicrograph, 193A3:156
 pyrite fillings, photograph, 183A8:44
 pyrite fronts, halos, 206A3:69
 pyrite grains, photomicrograph, 180A11:25
 pyrite intergrowths, photomicrograph, 193B6:14
 pyrite laminae, lithology, 198A3:12–13; 5:11–12
 pyrite-marcasite series, sulfide mineralization, 169A3:71
 pyrite nodules. *See* nodules, pyrite
 pyrite rims, photomicrograph, 193A4:160–161
 pyrite saturation line, lithology, 207B8:9
 pyrite specks, lithology, 201A11:8–10
 pyrite spots, lithology, 201A6:10, 42
 pyrite stringers, photomicrograph, 173A8:251
 pyrite-sulfur (PVS), Site 798, 127/128B(1)46:771, 775
 pyrite veins. *See* veins, pyrite
 pyritization
 Celebes Sea, 124B26:364–365
 claystone, 180A9:45
 diagenesis, 167B23:265–266, 289, 291
 hydrothermal fields, 158A1:10
 lithology, 181A6:7, 11; 207B8:24
 organic matter, 124B18:240
 photograph, 158A7:86, 91, 98, 103, 105, 109, 121;
 11:218, 249–253; 159B43:589; 181A6:54; 7:61
 Pisco Basin W, 112B27:459
 reactive iron, 207B9:5–7
 vs. organic carbon, 160B20:254
 pyritization, degree of (DOP)
 carbonate platforms, 144B51:909
 Pisco Basin W, 112B27:460
 Site 680, 112B27:460
 sulfur, 135B36:610–611
 total organic carbon, 123B12:233–234
 vs. depth, 144B51:907
 See also pyritization
 pyroaurite. *See* hydrotalcite–pyroaurite group
 pyroboles
 heavy minerals, 150X_B7:75–79
 vs. depth, 150X_B7:78
 pyroclastic debris, photomicrograph, 210B2:34
 pyroclastic falls, lithology, 183A6:23, 35–36; 7:25
 pyroclastic flows
 alteration, 200A3:27–29
 ash flows, 157B14:215; 16:276–277
 basement, 183A6:22, 47; 7:26–27, 36–37
 blue tuff, 127/128B(1)8:119
 emplacement, 183A7:35–36
 lava flows, 183A1:38
 lithology, 183A1:24; 200A1:23–30
 Pacific Ocean W, 124B34:464
 photograph, 152B9:127
 reworking, 183A5:27
 summary, 183A7:195
 See also debris flows
 pyroclastics
 Cagayan Ridge, 124A12:315, 339, 341; 14:404, 411
 classification, 126A2:20–21; 198B18:12
 composition, 135B4:72; 52:834–835
 deposition, 124A12:312–313
 diagenesis, 124B13:182–183
 fallout deposits, 135A(1)4:105–109
 grain morphoscopy, 126B14:225
 impedance, 124B37:508–509
 lithology, 180A6:9–10; 180B6:9, 13; 190A4:7;
 197A3:12–14
 magnetic properties, 124B38:512
 origin, 125B14:268
 petrology, 135A(1)11:631–643
 photograph, 180A9:69
 plumes, 165B5:106–108
 redeposition, 126B42:646
 regional distribution, 157B16:279–282
 sandstone source rocks, 127/128B(1)7:107
 sediment gravity flow processes, 127A6:267
 sediments, 135A(1)7:304
 Site 792, 126B14:221–223
 Site 796, 127A6:265
 Sites 790–791, 126A7:158
 sources, 161B12:150–151
 Sulu Sea, 124A12:315; 124B1:6
 volcanic ash, 198B18:4–5
 See also tephra
 pyroclastics, vitric, photomicrograph, 210A3:175
 pyrofusinite, photomicrograph, 180B10:29
 pyrolite. *See* Hawaiian pyrolite
 pyrolysates
 adsorption, 127A6:285
 turbidites, 157B35:593

- pyrolysis, Rock-Eval
 Baffin Bay, 105A4:106
 bitumens, 165A5:256–257
 black shale, 210B10:4–5
 Broken Ridge, 121A6:143; 8:212–213, 217; 9:251;
 121B24:472–473
 carbon/nitrogen ratio, 149A4:96
 chemical composition, 141B12:174
 Cretaceous, 123B12:232
 dark layers, 162A8:274
 Gascoyne Abyssal Plain, 123B11:219
 headspace samples, 133A(1)8:274
 hydrocarbons, 127A4:121
 kerogen, 143B12:186; 198A3:28
 lithology, 105B13:189, 200
 Messinian–Pliocene interval, 160B34:441
 methods, 127A4:114
 Ninetyeast Ridge, 121A11:344, 400, 424; 121B24:472–
 473
 organic carbon, 127A7:367; 198A9:26–27
 organic carbon/nitrogen ratio, 130B34:575
 organic-rich layers, 161A6:257
 organic matter, 112B38:573–586; 149B13:295–300;
 46:707–708; 157A10:534–535, 544;
 157B21:365–366; 35:591–607; 159B41:569;
 161B29:384, 386; 175B6:6–7; 181A7:180;
 188A3:50; 210A3:97
 petrology, 144B29:499
 production index, 168A4:87; 5:147
 sapropels, 160A5:113, 115, 119; 7:189; 161A4:91;
 5:151
 sediments, 141B23:300–303; 143B12:178–179;
 150A6:99; 7:170; 8:234; 9:289; 151A7:189;
 152A11:234; 155A7:140; 156A7:232;
 157A6:165–166, 169, 172; 160A4:70–71, 82;
 5:113, 115, 119; 6:137–138; 7:189, 195; 8:250–
 251; 162A8:280; 9:313; 164A5:92; 165A5:257;
 175A3:82; 4:109; 189A3:38, 158–159; 6:163–
 164; 7:138; 202A5:64; 6:68; 8:106; 11:81;
 204A3:21, 120; 4:18, 117; 5:10, 61; 6:78; 7:14,
 71; 9:14, 89; 10:18, 107; 205A5:112; 6:55;
 207A4:104; 5:111; 6:102; 7:104; 8:94
 sediments and rocks, 149A5:133; 7:243–244
 Site 748, 120A7:212–213
 Site 750, 120A9:315–316
 Site 765, 123A4:160–161, 166–168; 123B11:216–218
 Site 766, 123A5:305, 310–311; 123B11:216
 Site 794, 127A4:114–120
 Site 795, 127A5:218–219
 Site 796, 127A6:285, 288
 Site 797, 127A7:367, 376–378
 Site 798, 127/128B(1)25:425; 128A4:177, 195
 Site 799, 127/128B(1)25:429
 source character, 127A4:115–118, 205; 5:285; 7:367
 temperature vs. depth, 127A4:121
 thermal maturity, 127A4:118; 6:285; 7:367
 total organic carbon, 127A4:115, 213, 285;
 135B41:668–671
 turbidites, 149A5:134; 149B15:306, 309–311
 vitrinite reflectance, 139B27:491–494
 vs. depth, 141B23:303
- pyrolysis gas chromatography, kerogen, 180B16:6
 pyrope, composition, 161B19:268; 20:287; 183B16:5
 pyrophaeophytin, sapropels, 160B24:298–302
 pyrophanite
 chemical composition, 193B3:31
 magnetic properties, 144B36:621
 spinels, 193B3:5
 pyrophyllite
 alteration, 193B1:13–16, 37; 5:1–10; 11:1–19
 clay mineralogy, 150X_B5:61
 geochemistry, 193B8:5
 photomicrograph, 193A3:160
 selvage, 193B1:17
 temperature, 193B1:23–24
 vs. depth, 193B5:5
See also clay mineralogy
 pyrophyllite + paragonite, vs. potassium feldspar,
 193B6:3
 pyroxene aggregates, elongated recrystallized, 210A4:26
 pyroxene basalt. *See* basalts, pyroxene
 pyroxene crystals, photograph, 209A3:59
 pyroxene grains, volcanoclastic sand, 180B7:5
 pyroxene-hornblende-plagioclase assemblage,
 118B8:160
 pyroxene oikocrysts. *See* oikocrysts, pyroxene
 pyroxene phenocrysts. *See* phenocrysts, pyroxene
 pyroxene plates, photomicrograph, 193B6:8–11, 14
 pyroxenes
 alteration, 127/128B(2)55:885; 147B14:289;
 148B34:422–423; 209A5:82
 backscattered electron images, 163B12:142–143
 basaltic andesites, 135B32:559–562
 basalts, 121A11:323; 123B10:208; 151B19:355;
 163B9:99–112; 195B8:6, 15
 Bengal Fan, 116B6:65
 Cagayan Ridge, 124A12:304, 307
 calcium, 126B10:164–168
 calcium-magnesium-iron plot, 153B27:484–487
 Celebes Sea, 124B20:285–286
 chemical composition, 124B35:484; 127/
 128B(2)55:886; 149B26:451–453, 456–458;
 155B7:152, 157, 159–161
 clastic mineral phases, 157B15:232, 234–235
 clasts, 173A7:189–190
 cockscomb texture, 126B9:140
 composition, 103B17:256–257; 135B24:386–389;
 147B2:50; 155B7:151; 176B10:36–38; 193B2:25
 Costa Rica Rift, 111B5:49
 crystallization temperature, 115B3:35
 Deccan Trap basalts, 116B6:70
 deformation, 209B1:12–15
 diabases, 128A3:88; 210A1:15
 electron microprobe data, 135B24:399; 209B2:1–13
 foliation dip, 153B2:30
 fractionation models, 121B30:576–577; 127/
 128B(2)54:874
 gabbros, 205A4:29
 Galicia margin W, 103A1:10, 12; 8:131, 134–136,
 138–139, 158

- geochemistry, 115B3:39; 125B15:279, 283–286;
16:303; 27:459; 135B29:521–524; 143B15:248;
157B18:316, 318; 169B6:5–6, 14, 17
geothermometry, 137/140B15:177–178
grain boundaries, 137/140B19:223–225
growth rate, 118B2:29
heavy minerals, 150X_B7:75–79; 174A_B(synop-
sis):10; 6:2–4
high- vs. low-calcium composition, 118B4:90
hydrothermal alteration, 209A5:12
hydrothermal breccias, 118B8:169–170
hydrothermal reactions, 209A9:11
intergranular material, 148A2:41–42
iron enrichment, 118B4:91
isotopes, 153B15:310
late magmatic intrusions (LMIs), 118B8:161–162,
168–169
late-stage oxidation, 118B27:546
lithology, 129B5:140, 157–158; 162A8:261; 9:298;
168A4:59–70; 170A3:58–60; 4:108; 5:195, 197;
177A8:7–8; 180A5:7; 12:10, 14; 180B6:8–9, 12–
13, 16; 182A4:6–8; 186A5:12–13; 199A10:8;
202A3:6–9; 6:6–9; 209A10:7–10
lower sill complex, 210A3:69
mafic rocks, 149A7:234–235
magnesium number, 115B3:34, 37–38, 40
major elements, 135B3:34–36; 179B2:61–65
mineral chemistry, 104B19:371; 129B17:308–309,
311–312; 152B33:409–411, 416; 180B8:9–10
mineral modes, 147B6:118
morphology, 118B26:461, 531
Ninetyeast Ridge, 121B29:567
nonquadrilateral end-members, 127/128B(2)52:858
Norwegian Sea, 104A4:98
ocean–continent transition, 149B47:718
olivine gabbros, 118B26:465
oxygen isotopes, 153B26:466
Pacific Ocean W, 124B35:469
peridotites, 125B27:458–459, 479–485
petrography, 143A7:223–224; 168B10:120–121
petrology, 168A5:116–119, 123, 126
phase equilibria, 163B9:102
phenocrysts, 111B4:50; 135A(1)7:319–323; 140A2:54
photograph, 153A3:84; 4:133, 160; 7:269; 153B3:41;
161A7:312; 169A3:92, 107; 170A4:108;
173A7:190; 209A3:87, 128; 5:89
photomicrograph, 157B24:414; 180A6:94; 8:56;
10:33; 11:16–17; 185A3:97; 197A5:53;
209A5:83, 113
pillow basalts, 168A6:172–174
porphyroclasts and neoblasts, 118B8:161–162
preferred orientation, 209B1:13
pseudomorphs, 173A9:293
pyroxene-liquid relations, 127/128B(2)54:878–879
quadrilateral components, 179B(synthesis):86; 2:37
sand, 146B(1)2:34–37, 40–42
scanning electron microscopy images, 174A_B7:46
settling time, 150B13:246
silicate rocks, 118B4:92–93
siliciclastics, 189B11:3–6
Site 794, 127/128B(2)52:851–852
Site 795, 127/128B(2)52:852
Site 797, 127/128B(2)52:852–853
stereo plots, 209A5:120
sulfides, 176B7:5
Sulu Sea, 124A11:255–256, 260–263; 124B19:256
tholeiites, 129B17:316–317; 151B19:352–353
troctolitic rocks, 118B26:447
twinning, 179A4:51
volcanic ash, 127/128B(2)87:1379, 1388;
156B28:345–346, 348
volcaniclastics, 126B10:161; 136B7:87; 180B7:7
vs. age, 189B11:9–12
vs. calcium oxide, 153A3:77
vs. depth, 169B6:14–17; 170A3:61; 176B6:13–14;
179A4:94–96; 179B2:26; 202A3:25; 4:32; 6:30;
205A4:87–88, 93–98, 100–104
websterite, 153B16:324
xenoliths, 193B6:2–3
X-ray diffraction data, 190A6:8
See also aegirine; alkali pyroxenes; augen; augite; ba-
salts; clinoenstatite; clinopyroxenes; clinopy-
roxene/orthopyroxene ratio; diopside; enstatite;
ferrosilite; hedenbergite; gabbros; jadeite; or-
thopyroxenes; pigeonite; websterite
pyroxenes (calcium), hydrothermal veins, 153B30:524
pyroxenes, altered
 photograph, 149B23:417
 proportion in harzburgite and dunites, 209A3:72
pyroxenes, anhedral, photomicrograph, 185A4:104
pyroxenes, augitic, Site 738, 119B16:301
pyroxenes, brown, Atlantis Bank, 118A6:102
pyroxenes, calcium-poor
 Atlantis Bank, 118A6:115
 textures, 118A6:117
pyroxenes, chromium-rich, sediments, 180B6:17–24
pyroxenes, elongate, lithology, 210A4:6
pyroxenes, experimental, composition, 152B30:364
pyroxenes, green, Atlantis Bank, 118A6:102
pyroxenes, groundmass, vs. depth, 185A3:101
pyroxenes, melting, lithology, 106/109B8:100
pyroxenes, primary and secondary, composition,
147B14:262, 270
pyroxenes, pseudomorphed, photograph, 173A9:289
pyroxenes, quadrilateral component, diabase, 148B1:8
pyroxenes, relict, lithology, 125B25:424
pyroxenes, sodic
 chemical composition, 125B25:422
 Site 778, 125B25:418, 424
 with quartz, 125B25:420
pyroxenes, subhedral, photomicrograph, 185A3:90, 98
pyroxenites
 AFM diagram, 153B10:210
 clasts, 149A6:164–166
 crystal clots, 140A2:57–58
 hydrothermal alteration, 153A3:76–78
 magnesium number, 153B10:218
 melting, 153B10:211, 214
 petrography, 134B16:339
 petrology, 134A9:199; 153A3:63
 photograph, 153A3:70, 91; 153B11:248; 209A3:129–
130; 5:116

photomicrograph, 209A5:59
 proportions, 209A1:98
 spinels, 173A:12
 transport, 209A1:6–12
 veinlets, 147B2:37
 veins, 209A3:16–17
See also clinopyroxenites
 pyroxenites, pegamitic, photograph, 153A3:54
 pyroxenites, serpentinized, geochemistry, 173A9:285–286
 pyroxenites, serpentinized olivine, photograph, 173A9:281
 pyroxenoids. *See* wollastonite
 pyrrhotite
 alteration, 111A3:63; 147A3:71; 168A4:74; 6:173–174; 168B10:126
 amphibolite clasts, 173A7:190–191
 Atlantis Bank, 118A6:125
 backscattered electron image, 169B9:5, 17
 basalts, 169A6:272
 clastic sulfides, 169A3:59–61
 coercivity, 130A8:320; 164A7:191; 8:261
 composition, 127/128B(2)62:978
 deep copper zone, 169A3:77
 demagnetization, 204B18:5–6
 electron microprobe data, 106/109B13:172
 environment, 204A10:10–11
 gabbros, 176B7:5–9
 geochemistry, 135B40:660
 green amphibole, 118B5:117
 hydrothermal alteration, 139A6:213–231; 139B11:214; 169A6:267–268; 209B1:10
 hydrothermal circulation, 169A1:11
 hydrothermal veins, 153B30:524
 igneous vs. secondary origin, 118B5:115–117, 123
 igneous rocks, 209B3:4
 iron-nickel-sulfur-oxygen system, 209A3:97
 isotopes, 148B5:63–64
 lithology, 169A4:165, 168; 204A4:9
 low-temperature minerals, 176A3:38
 magnetic carriers, 141B5:67–72, 74
 magnetic properties, 127/128B(2)60:947; 128A4:169; 130B10:535; 139B2:32; 31:539–540; 152B23:273; 158B25:349–350; 173B8:8–9; 181A5:16; 208A5:13
 magnetic separates, 106/109B12:155
 magnetostratigraphy, 201B16:5
 meta-anorthosite clasts, 173A7:191
 moderate-temperature minerals, 176A3:37
 paleomagnetism, 179A4:9
 petrography, 193A3:55, 57
 petrology, 158B1:9–11, 14
 photograph, 135A(1)11:655; 139A6:232–241; 139B18:381–382; 158A7:117; 153B30:528; 169A3:69, 73–76, 80–81, 100, 110
 photomicrograph, 169A3:71, 79; 169B5:18–19; 176A3:128; 176B7:15–16, 23; 193A1:56; 3:184–185
 pyrite inclusions, 193B3:3
 replacement, 169B9:6, 23

rock magnetism, 154B11:185–186; 186A4:32–35; 192A4:20–21
 secondary minerals, 168A5:128
 sediments, 170A5:167; 194A4:19
 serpentinites, 209A3:11
 sills, 139B6:94
 Site 797, 127/128B(2)60:949, 951
 size, 106/109B13:165
 Snake Pit hydrothermal area, 106/109A5:149
 stability fields, 111B3:33
 sulfides, 106/109B12:151, 153–154, 156; 13:170, 172; 118B5:115–116; 139B18:374, 722; 169A3:64–67, 76; 6:269–270; 169B5:5–6; 10:13–14
 sulfur isotopes, 139B47:739–748
 thermomagnetic curves, 106/109A5:152
 ultramafic rocks, 147B5:92–93
 veins, 169A3:75–76; 169B9:4–9, 16
 vs. depth, 169B5:15; 209B3:10
 X-ray diffraction data, 106/109A5:150–151, 153
 zoning, 139B17:355–358
See also troilite-pyrrhotite exsolution
 pyrrhotite, banded, photograph, 169A3:68
 pyrrhotite, fibrous, photograph, 169A6:270
 pyrrhotite, fine-grained homogeneous massive, 169A3:67–68
 pyrrhotite, heterogenous, sulfides, 169A3:68–69
 pyrrhotite, hexagonal, photomicrograph, 169A3:66
 pyrrhotite, homogeneous, alteration, 139A6:216–219
 pyrrhotite, massive fine-grained, photograph, 169A3:68, 105
 pyrrhotite, primary, hydrothermal solutions, 139B17:366–367
 pyrrhotite-pyrite series, mineralization, 169A3:68–69
 pyrrhotite veins. *See* veins, pyrrhotite
 pyridines, alkylated, sapropels, 160B23:288
 pyrroles, pyrolysis, 157B21:365–366
 pyrroles, alkylated, sapropels, 160B23:288
 Pyuridae, Great Barrier Reef, 133B28:447–453

Q

Q-factor, lithology, 102A3:127
 Q-mode cluster analysis data, foraminifers, 127/128B(1)12:188, 193–200, 208–209, 220, 224; 139B2:57–58
 Q-mode principal component analysis, foraminifers, 161B35:447–450
 Q-ratio. *See* Koenigsberger ratio
 quad-tool-string logs, 124E_A17:105–109; 135A(1)11:668–669
 quality factor, compressional wave velocity, 164B27:265–271
 quartz
 abundance, 104B2:32–34; 127A4:94; 5:189; 127/128B(1)3:53; (2)78:1235–1244
 Albian-Turonian sedimentology, 210B8:5–7
 alteration, 111A3:63–65; 135A(1)8:370; 11:596–597; 135B40:657; 139A7:498–510; 139B10:155–201; 148A2:45–53; 148B34:429; 168A4:73; 168B10:126; 176A3:138; 183A7:44; 9:31–32;

184B19:7-8; 187A11:7-10; 12:8-9; 14:4-5;
193B11:1-19
amphibolites, 173A6:130-131
amygdules, 193A3:29-30
Atlantic Ocean E tropical, 108B15:244-249, 254-258
authigenic minerals, 149B31:532
backscattered electronic images, 161B8:107-108
Baffin Bay, 105A4:77; 105B2:21-28
Barbados Ridge, 110A4:77; 6:323, 327; 7:410; 8:494
basement, 126B28:439; 183A9:17
Bengal Fan, 116B6:62
breccia, 158A7:74, 79-81; 173A7:193-194; 173B1:3-5
Broken Ridge, 121B27:521
bulk mineralogy, 162B17:241
Cagayan Ridge, 124A12:304
carbon/oxygen ratio, 164B21:206-207
carbonates, 108B15:377; 127/128B(1)9:147;
156B5:84-85; 194B6:4
Celebes Sea, 124A10:131
Cenozoic, 133B27:401
chemical and nuclear parameters, 178A5:137
chimneys, 158B27:381-382
Chinese loess deposits, 127/128B(1)23:401
clasts, 162A4:115
clay, 180B17:6
composition, 103B31:525-526; 106/109B2:13;
110B5:53-55; 176B9:51
Coniacian-Eocene interval, 159B12:118
Cornaglia Terrace, 107B14:225
Costa Rica Rift, 111B3:30-32
Cretaceous/Tertiary boundary, 121B43:916
crystal-vitric tuff, 183A5:34
cumulative percentages, 174AXS_A3:73-77
dark-light cycles, 117B8:189; 127/128B(1)33:584
dating, 110A6:350; 7:436; 8:500; 9:544; 113A7:300;
8:335-336; 10:532; 12:711; 113B5:55, 58-63
deep copper zone, 169A3:77-78
deep-sea sediments, 185B7:4-5
densification, 171A_B3:10
diabases, 180A7:14; 12:26
diagenesis, 150X_B3:30-35
diamict, 178A6:4-5, 14
dolomite, 117A9:233, 241
domain significance, 193B1:25-26
drift deposits, 178B8:7
dust, 130B28:474-477, 480-485, 489-490
electron microprobe data, 136B8:100
end-member identification, 113B7:107-109
Eocene, 104A4:54-55
Exuma Sound, 101B15:215-217; 16:229
fault gouge, 180A11:4
felsic rocks, 118A6:117
fluid inclusions, 118B9:197, 201, 204; 137/
140B16:194; 139B21:413-416; 153B22:404-405;
158B13:178; 193B1:24
fluvial deposition, 108B19:346; 119B6:115
fractionation, 121B14:287
fuchsite provenance, 119B7:139
Galicia margin W, 103B4:44-51; 5:55-56; 8:108;
30:505-509; 39:706

geochemistry, 158B27:366-367; 169B6:5-6, 14, 17;
171B_B4:4-5, 14-26
geological history, 105B2:21
glacial features, 105B2:27-28
glacial-interglacial cycles, 119B13:240; 127/
128B(1)33:588; 166B6:66-68
gneisses, 161B19:264-265; 20:283-284
granite porphyry, 180A7:13-14
green clay, 184B15:4
groundmass, 206A3:57-59
hardgrounds, 144B22:421
hemipelagite, 161B8:103-104
hydrothermal alteration, 135B20:316-318;
139B11:214; 12:298-302; 158A10:199;
193B1:14-15; 198A9:49; 209A6:12-13; 7:9-10;
210A3:56-57
hydrothermal event frequency, 193B1:24-25
hydrothermal fields, 158A1:8; 158B1:9-17, 22-23;
15:195; 18:237-239; 27:368-369
ice-rafted debris, 119B10:202; 120B(1)12:167; 14:210;
(2)56:1011; 63:1093; 152A13:283; 163B14:159,
165
impacts, 178B9:4
inclusions, 193B9:4-7
inoceramid sediments, 123B1:9
interpillow material, 185A3:24-25
isotopic temperatures, 127/128B(1)3:55-56
Kerguelen sediment ridge, 119A14:510-511;
119B12:237
Labrador Sea, 105A5:435, 491; 6:694-696, 728;
105B43:816, 818
Lima Basin, 112A2:42
lithic arenite, 195A4:87
lithofacies, 165B7:131-133
lithology, 104A4:74-75; 5:461-467; 6:621, 625;
133B27:391, 393; 138A(1)10:193; 149A4:47,
119; 152B8:102-103; 159A6:168-170; 7:230-
231; 160A6:129-130; 8:220-222; 9:296;
162A8:261; 9:296, 298; 163X_A6:9; 164A5:75,
78-79; 6:110-111; 7:182-183; 9:284-285;
165A4:144; 6:298-301, 346; 167A(1)6:132-135;
7:161; 10:245-247; 11:288-291; 167B25:282-
284; 169A6:267; 169S_A2:21; 170A3:53; 4:103-
104; 5:161; 6:195; 7:219-221; 171A_A5:62;
171B_A4:114; 6:258-259; 172A4:84, 88; 5:164-
174; 6:258-259; 173A4:71-75; 6:126;
174A_A3:55; 4:113-115; 5:162-163;
174AXS_A1:24; 3:28; 5:28-30; 175A3:56-57;
4:91; 6:152; 7:179; 8:205; 9:233; 10:276;
11:315-317; 12:351-352; 13:395; 14:434;
15:460; 177A4:7; 178A4:9, 23; 180A5:7-9, 12-
14; 6:21-22; 8:4, 7-8; 10:5-6; 12:6, 8-11, 14-22;
180B6:5-16; 182A1:39; 4:6-10; 6:5, 9; 8:5-9;
10:9; 12:6-7; 182B9:4-7; 183A1:32-33; 3:6; 5:5-
8, 13-27; 7:5-6, 37; 8:3-6; 184A8:3-4; 9:6-7, 11;
185A4:12; 186A4:19-22; 5:12-13; 187A13:4;
188A5:9-11; 189A5:13-15; 7:13-18; 190A4:6-9;
5:7-8; 191A4:11-12; 193A3:26-33; 4:15-41;
194A3:6-7; 4:8-10; 6:5; 7:10-11; 7:13-14;
195A4:14; 196A3:19-20; 4:16; 198A10:5;
201A7:10; 8:9; 9:7-9; 10:11-12; 11:8-12; 12:7-

- 11; 202A3:7; 5:5–8; 6:6–9; 11:7–10; 13:6–9;
204A3:4–8; 4:5–11; 6:3–8; 7:5–6; 10:8–9; 11:5–7;
205A6:8–9; 207A4:9; 7:4–11; 209A7:4–7; 10:3–
10; 210A3:23–25, 33, 37, 45
Little Bahama Bank, 101A6:131, 140; 7:227–228;
8:284–285
low-temperature alteration, 192B6:6
lower sill complex, 210A3:69
magmatic veins, 206A3:63–64
magnesium-calcium-silicon-oxygen-hydrogen sys-
tem, 209A6:77
mass accumulation rates, 108B15:246–249, 254–258;
127/128B(1)24:411–420; 145B15:244;
146B(2)7:101; 160B19:231, 234, 237, 240
massive sulfides, 139B18:377; 169A6:270
metadiabase, 180A7:14–15
metasediments, 173A8:246–249
metatonalite clasts, 173A7:191
mica schist, 180A7:12–13
microphenocrysts, 183A7:41
microstructure, 105B2:25–28, 30
microthermometry, 158B13:166–170
mineralogy, 176A3:19; 200B3:8
mineralogy-porosity inversion, 156B16:224–225
mixture with biogenic silica, 172B5:20
moderate-temperature minerals, 176A3:36
morphology, 105B2:21–28
mylonites, 180A11:6
myrmekite, 200B3:25
nannofossil clay, 184B14:2
normative component vs. iron/magnesium ratio,
127/128B(2)56:894
Northwest Providence Channel, 101A12:498; 13:535–
536
Norwegian Sea, 104A4:70, 95, 99; 104B3:43
Oligocene peak glaciation onset, 119B11:217
Oman margin S, 117A16:501
Owen Ridge, 117B8:187
oxygen isotopes, 111B3:35; 118B6:138–139; 127/
128B(1)3:51–54; 158B21:291; 22:304–306
Pacific Ocean W, 124B31:412–414
paleoclimatology, 184B19:6–7
paleoenvironment, 189A5:15–16
percentages, 105A4:78–79
Peru margin, 112A2:42
petrography, 159B12:119–120; 160B36:455; 45:577–
578; 161B3:39–46; 4:59–65; 187A15:7
petrology, 158A11:216
phenocrysts, 135A(1)11:643
photoelectric effect logs, 170A3:88
photograph, 141A10:362; 150X_B3:44, 48;
157A5:118; 158A7:96–97, 115, 130–131; 8:154–
157; 10:180, 185, 191, 194, 197; 11:218;
158B15:200; 18:251–253; 159A5:83; 6:164;
159B12:119; 13:123; 161A7:312; 169A3:82;
171B_A6:257; 180A8:80; 11:28, 30; 183A6:105;
7:104, 142–148; 9:104; 185A3:114; 187A10:17;
193A1:74–75; 3:211; 4:88, 90, 96, 138;
194A8:40; 195A4:82; 206A3:208, 237;
207A5:49; 209A10:80
photomicrograph, 159A6:171; 161A6:246–247;
161B2:36; 3:54; 19:277–279; 20:285; 25:343–
344; 27:362; 169A3:79, 95; 173A6:120; 7:191;
180A1:62; 5:48–52, 63; 6:94, 99; 7:31–36; 8:48,
52–53, 56, 76, 79; 9:80–84, 90; 10:25–26, 33–34;
11:16, 20, 29; 12:74–75; 180B3:28; 8:41;
183A7:114; 185A4:83; 185B10:5–9; 187A13:31;
192A3:123–127; 193A1:45; 3:152, 158, 163–169,
177–178, 182–183, 190–192, 212; 4:101–102,
106, 128, 130, 150–151, 156, 162–163, 166,
182–184; 193B1:56; 194A3:33–34; 4:54–57;
6:38; 198A3:73; 9:68–69; 204A7:30; 205A5:55;
206A3:182, 209–210, 222, 239–240, 246–247;
209A3:89; 7:52–53, 69; 10:80; 210A3:149, 174,
181–182, 206, 208, 223–224; 210B2:20
physical properties, 127/128B(1)1:25–27
Pleistocene, 101B16:226, 228
Pleistocene–Holocene interval, 101B16:224–227
Pliocene, 101B16:226–228
Pliocene–Pleistocene interval, 188B13:8
pore water, 151A11:367; 201A1:34
porphyroblasts, 210A3:239
potassium logs vs. photoelectric effect logs, 178A5:85
pressure-temperature conditions, 161B44:566–567
principal component analysis, 104B2:34–37
provenance, 160B17:213; 161B7:95–96
pyroclastic sequences, 124B13:184, 186
quartzose sand, 190/196B3:6, 8
recrystallization, 159B10:97; 185B10:1–11
relative abundance, 190/196B6:5
replacement of serpentinite, 149B31:534
round grains, 119B12:229, 231
rutile inclusions, 127/128B(1)7:107
sand, 146B(1)2:34–42; 150B11:199–201; 161B8:104–
105; 168B5:54–56; 190/196B3:5
sandstone, 127/128B(1)2:34; 7:104, 135;
146B(1)29:425; 161B25:334–335
Sardinian margin, 107B15:237, 239
saturation tests, 111A3:87
scanning electron microscopy, 161B7:95;
174A_B7:46–47, 52, 54, 57–59
schists, 161B19:264–265; 20:282–283; 23:313–314
secondary minerals, 163X_A4:13
sediment sources, 105A2:22, 26
sedimenticlastic sandstone, 190/196B3:8–9
sediments, 131B28:347; 133A(1)10:379; 12:477;
13:526; 14:583; 15:635; 136B5:66–68;
139A5:129; 6:208–209; 139B8:115–116;
146A(1)5:153; 6:249, 253; 146B(2)7:94;
149B40:748–749; 150B20:363–364;
150X_B4:50, 53; 155A6:104; 7:137; 8:185;
12:335–338; 13:391–394; 154B5:167;
156A6:101–103; 7:206–213, 216–217, 220;
160B45:581; 166A6:95; 8:192; 10:317;
171A_A3:28; 172B5:4; 174AXS_A4:49–50; 7:12;
182A4:32; 6:30; 8:25; 9:19; 12:21; 182B14:3;
184B19:5; 187A4:5; 5:6; 189A5:68–69;
192A6:104; 200A1:14; 204B11:8, 17–19
seismic sequence boundaries, 166B5:46–47
settling time, 150B13:246
shape distribution, 105B33:645; 110A4:80

- sigmoidal lens, 180A11:24
siliciclastics, 189B11:3–6
silicification alteration, 193A3:41–47
sills, 139B8:116; 210A3:67
siltstone, 173A9:270
silty clay, 155A14:415–417
Site 680, 112B22:386
Site 698, 114A5:97
Site 699, 114A6:159–160, 193; 114B37:689
Site 700, 114A7:261
Site 701, 114A8:369, 371–372
Site 704, 114A11:634
Site 708, 115A6:416
Site 721, 117A9:240
Site 738, 119B11:215, 217
Site 740, 119B3:46, 50, 56
Site 748, 120A7:173–174, 230; 120B(1)8:103; 9:125–127
Site 765, 123A4:99, 101–102
Site 792, 126A8:264
Site 795, 127A5:190
Site 797, 127/128B(1)7:109; 33:592
Site 798, 127/128B(1)23:401, 411–415, 417
size, 113A10:538
slope-apron facies, 190/196B4:5–6
smear slides, 188A4:14–15
sources, 103B31:520, 528; 116B6:63; 117B9:202; 118B7:147; 119A14:514; 127/128B(1)3:51
stratigraphy, 158A7:67–68
sulfide mineralization, 169A3:70
Sulu Sea, 124A11:209
surface sediments, 202A1:108; 202B1:51
surface textures, 105B2:21–28, 30
tektites, 150B13:246–247
tephra, 205A4:23
terrigenous composition, 175B23:10–11
textures, 161A6:223–225
thin sections, 163X_A6:37
Tiburon Rise N, 110A5:213, 218–219, 225
tonalite gneiss, 173A6:131, 141
tourmaline inclusions, 127/128B(1)7:108
Trujillo Basin, 112A16:540
turbidites, 108B18:319; 19:335; 131A6:94–99; 168A4:57–59; 5:111–112; 6:169; 190/196B3:4
undulatory extinction, 127/128B(1)7:107
upper Eocene, 189B1:12
veins, 137/140B14:161; 140A2:76, 109; 148A2:50–51; 156A7:225; 158A7:68; 8:144; 159A6:186; 168A4:74–75; 169A3:75; 169B10:9; 173A6:132; 176A3:45; 176B9:3–4, 7–8, 11–12; 180A7:13; 8:17; 193A3:59–65; 209A6:71
vesicles, 183A5:40
volcanic ash, 121B14:27; 131A6:173–184; 131B14:176–177; 201B19:8–10
volcanic rocks, 183B17:2
volcaniclastic sands, 126B9:140; 180B7:7
vs. age, 146B(2)7:98, 101; 161B7:93–94; 8:102–103; 167B14:206; 175B23:34, 37; 189B11:9–12; 19:18, 21
vs. calcium carbonate, 175A9:243; 10:282
vs. composite depth, 145B15:235, 242
vs. depth, 110A4:78, 126; 113A6:190–191; 8:335–336; 9:460; 11:616; 12:711; 113B3:30; 6:75–76, 84; 131A6:115; 133A(1)9:319; 15:626–627, 636; 136B5:68; 140A2:66; 145B43:658, 660; 146A(1)4:70; 146B(1)2:41; 150A6:74; 7:143–146; 8:214, 219; 9:267; 151B34:619, 622; 31:555; 156A3:36; 6:108; 7:208–209; 160A5:96; 8:228; 11:385; 161A6:200; 7:306; 8:360; 9:399; 161B1:14; 2:22–24; 7:90–92; 164A5:74, 78, 80; 6:111–112; 7:181–182; 8:255; 9:283, 286; 164B21:207–210; 166B6:66, 68; 13:141; 167B25:284; 168A4:61; 5:112; 6:170; 169B6:14–17; 171B_B4:7; 173B1:7, 11; 175A9:243; 10:281; 181A3:39; 182A4:68; 7:51; 8:55; 9:45; 10:57; 182B14:7; 184A5:40; 6:31; 7:44; 9:60; 184B14:5–6; 185A3:111–112; 186A4:83, 91; 5:53; 189A6:77–78; 7:61, 65; 189B9:18; 190A4:47; 5:46; 6:34; 7:30; 8:37; 190/196B4:22–23; 5:15–16; 6:20–22; 193A3:171; 4:117; 207A4:72
vs. excess silica, 127/128B(2)78:1253
vs. plagioclase, 127/128B(2)78:1245, 1252
vs. sand, 146B(2)7:99; 161B4:63, 65
vs. terrigenous component abundance, 127/128B(1)23:403
X-ray diffraction data, 113B3:29, 31; 6:79; 141A6:84; 156A3:32–33; 6:102–114; 159A6:168–170, 177; 8:264–265; 164A6:112; 165A4:142; 166A6:95; 8:188; 172B5:21; 174A_A3:59; 4:116; 5:163; 175A9:235; 10:281–282; 178A8:14–15, 65; 182A6:102–103; 185A4:66, 71, 79, 85, 92; 185B9:20; 186A4:88; 188A3:17–18; 4:15–16; 190A5:9; 6:8; 7:6; 8:9; 190/196B4:20; 5:13–14; 198B16:5; 200A4:38, 119; 201A9:36; 202A9:54; 204A6:34; 9:37; 10:50; 208A6:54; 210A3:52, 237
X-ray fluorescence data, 161A6:237–238
See also albite/(albite + quartz) ratio; alpha-quartz; calcite; calcium oxide-quartz-clay minerals diagram; chalcedony; chlorite/quartz ratio; chlorite-quartz assemblage; clay/(quartz + feldspar) ratio; coesite; cristobalite; cristobalite/quartz ratio; diopside-quartz-plagioclase system; epidote-quartz schist; granules; illite/quartz ratio; megaquartz; microcline/(microcline + quartz) ratio; microquartz; muscovite/(muscovite + quartz) ratio; olivine-clinopyroxene-quartz diagram; opal; sand; silica; silt; smectite/quartz ratio; tridymite; veins
quartz, angular
 photomicrograph, 163X_A6:36, 38
 vs. age, 178B15:11
quartz, authigenic
 chemical environment, 121B13:267–268
 sources, 121B13:268
quartz, bulk sediment, vs. depth, 166A9:254, 313
quartz, chalcedonic
 lithology, 180A9:20; 210A3:24
 photomicrograph, 129B3:100, 104; 210A3:133
quartz, colloform-banded, photograph, 158A7:97
quartz, detrital
 fluid inclusions, 210B5:1–21
 lithology, 123B3:87

- photomicrograph, 173A8:249; 180A9:92
- quartz, diagenetic, lithology, 129B3:81, 85
- quartz, drusy euhedral, lithology, 129B3:92
- quartz, embayed, photomicrograph, 180B8:41
- quartz, eolian, lithology, 108B19:335; 117A9:244
- quartz, euhedral
 - alteration zones, 169B9:5
 - photograph, 158A7:88, 90, 93, 97, 117
 - photomicrograph, 193A3:197-198; 193B9:24; 206A3:209, 252
- quartz, glomerophytic, photograph, 135A(1)8:356
- quartz, hydrothermal
 - lithology, 129B1:11; 2:32, 36; 3:82, 96, 98; 6:158
 - minimum formation temperatures, 129B3:97
 - photomicrograph, 129B3:108-110, 116-117
 - Pigafetta Basin, 129B1:16-17; 2:80; 3:117
 - reactions, 129B14:271-272
 - scanning electron microscopy, 129B1:27
 - sediments, 129B1:8
 - X-ray diffraction data, 129B1:12-15; 3:87
- quartz, interstitial, photograph, 158A7:74
- quartz, jasperoidal, photomicrograph, 193A1:69, 104, 130
- quartz, metamorphic, photomicrograph, 160B45:592
- quartz, microcrystalline, photomicrograph, 160B32:405
- quartz, micropoikilitic, photomicrograph, 193A4:109
- quartz, monocrystalline
 - photograph, 157A6:149
 - photomicrograph, 210B2:22
 - sandstone, 210B2:4-5
- quartz, poikiloblastic, photomicrograph, 193A4:125-126, 175-176
- quartz, polycrystalline
 - lithology, 127/128B(1)7:107-108; 180A8:16
 - photomicrograph, 180A8:52; 9:76; 193B9:23
- quartz, recycled, lithology, 105B3:40, 51
- quartz, rounded, vs. age, 178B15:11
- quartz, secondary, photomicrograph, 193A3:197-198
- quartz, shocked
 - composition, 145B28:430-432
 - Layer B, 165A6:346
 - petrography, 150X_B:35
 - photomicrograph, 165A6:346
- quartz, vuggy, photomicrograph, 168A4:77
- quartz aggregates
 - lithology, 173A6:126
 - photomicrograph, 193A3:133
- quartz-albite-orthoclase assemblage, 135B38:639
- quartz-alkali feldspar intergrowth, photomicrograph, 200B3:24
- quartz arenite
 - Baffin Bay, 105B3:38, 44-45, 51; 4:56
 - petrography, 161B3:42
 - photomicrograph, 160B45:591
 - Sardinian margin, 107A27:418; 107B2:33; 38:645
 - See also* quartz sand; quartz sandstone
- quartz bands, photograph, 158A10:196
- quartz/calcite ratio
 - sediments, 161B1:11
 - vs. depth, 161B1:14; 165A3:56
- quartz clasts. *See* clasts, quartz
- quartz/clay ratio, vs. depth, 161B1:14
- quartz crystal cement, photomicrograph, 198A9:50
- quartz crystals
 - photograph, 193B9:11
 - photomicrograph, 173A8:251; 183A5:113; 185A3:118
- quartz diorite, petrography, 153B27:472
- quartz-epidote system, veins, 140A2:73
- quartz-feldspar-lithic fragments (QFR) diagram, 127/128B(1)7:106
- quartz/feldspar ratio
 - Kerguelen sediment ridge, 119B12:229
 - lithology, 175A6:152; 177A3:5; 5:7; 181A9:4-6; 202A5:5-6
 - origin, 107A7:305
 - power spectra, 177B(synthesis):51
 - sediments, 177B13:1-10
 - Site 798, 127/128B(1)24:411-415, 417
 - turbidites, 168A4:57-59
 - vs. age, 146B(2)7:98
 - vs. depth, 175A6:157; 7:181; 177A3:22; 4:28; 5:34; 7:25
- quartz-feldspar system
 - percentage vs. depth, 174A_A3:60; 4:116; 5:164
 - vs. depth, 198A4:40
- quartz flux, sedimentation, 145A3:62
- quartz gabbros
 - composition, 180A11:6
 - textures, 180B3:5-6
- quartz grains
 - clasts, 160B46:598, 601
 - foraminifers, 207A8:18
 - lithology, 177A8:8; 188A3:16-19; 189A6:12-15; 7:15
 - photograph, 194A7:66
 - photomicrograph, 160B45:591; 180A10:23; 12:62, 68; 188A3:103; 194A5:48
 - volcaniclastic sand, 180B7:4
 - vs. depth, 180B7:31-33, 39-42
- quartz grains, elongated, photomicrograph, 180A8:66
- quartz grains, polygonal, photomicrograph, 190/196B3:26
- quartz grains, subhedral, photomicrograph, 210A3:152
- quartz/kaolinite ratio
 - sediments, 159B43:592
 - vs. composite depth, 145B15:241
 - vs. depth, 159B43:590, 593; 184B14:7
- quartz logs, vs. depth, 207A5:79-81; 7:71-77; 8:69-73
- quartz-magnetite gabbro, fault zones, 180A11:6-7
- quartz-micaceous chlorite rocks, 119B3:56
- quartz-microcline assemblage, lithology, 176A3:21
- quartz needles
 - electron micrograph, 170B3:25
 - photomicrograph, 193A3:113
- quartz-olivine-clinopyroxene assemblage, 135B27:496; 29:523
- quartz-olivine-plagioclase assemblage, 135B37:621
- quartz/opal-CT ratio, Broken Ridge, 121B13:267-268
- quartz/opal-CT transition
 - age, 127A1:19
 - core recovery, 127/128B(2)66:1038
 - décollement zone, 196A1:13
 - inorganic geochemistry, 127A5:204

- Japan Sea, 127A1:31; 127/128B(1)2:49
lithology, 121A13:498; 121B12:257; 13:266, 268;
27:521–522; 127/128B(1)1:16–17; 190/196B12:4
physical properties, 127A5:223–227; 127/128B(1)1:3
resistivity logging data, 127/128B(2)66:1040
scanning electron microscopy, 127/128B(1)1:31
silica, 127A6:307; 127/128B(2)79:1263
Site 794, 127/128B(1)3:50
Site 795, 127A5:169; 127/128B(1)1:4; 3:50
Site 796, 127A6:265; 127/128B(1)3:50
Site 797, 127A7:347; 127/128B(1)1:4; 3:50
Site 799, 128A5:238, 242, 260, 280
temperature, 127A1:19; 4:137; 127/128B(1)1:17;
(2)79:1263; 87:1375; 128A5:280
thickness, 127/128B(1)1:17; (2)78:1240; 80:1281–
1282
time-temperature plot, 127/128B(2)80:1288
well-logging, 127A6:303; 127/128B(1)1:3, 23;
128A1:34; 5:333
X-ray diffraction data, 127/128B(1)1:24
quartz overgrowths, photomicrograph, 193A4:125–126
quartz peak intensity, vs. Factor 3, 167B25:288
quartz pebbles. *See* pebbles, quartz
quartz phenocrysts. *See* phenocrysts, quartz
quartz-plagioclase assemblage, granophyric, 176A3:21
quartz/plagioclase ratio
vs. depth, 145B43:659
vs. grain size, 131A6:113
vs. mid-core depth, 145A6:220
quartz/(quartz + feldspar) ratio, vs. depth, 202A3:25;
4:32; 5:29; 6:30
quartz ribbons, lithology, 173A6:126
quartz-rich patches, lithology, 193A3:31
quartz sand
lignitic, 174AXS_A1:23–24
lithology, 150X_A1:15–17, 150X_B2:18;
174AXS_A1:22–27; 2:16–27; 3:18–20
pebbly, 174AXS_A1:25–26
photograph, 174AXS_A2:57
silty, 174AXS_A1:26; 2:16–18
See also quartz arenite; sand
quartz sandstone
metamorphic rocks, 152B10:131–132
photograph, 152B10:132, 144
See also quartz arenite; quartz sand
quartz schist, volcanic pebbles, 161B44:568
quartz silt. *See* silt, quartz
quartz-solid plagioclase intergrowth
mineral chemistry, 200B3:8
origin, 200B3:9–12
quartz/total phases ratio, vs. depth, 141A6:84
quartz trachyte
chemical composition, 183A5:127
petrology, 180A7:13
volcaniclastics, 180B8:9
quartz veins. *See* veins, quartz
quartzification, hydrothermal alteration, 139B8:127
quartzite clasts. *See* clasts, quartzite
quartzites
breccia, 161B25:333
lithology, 163X_A5:4; 180A5:8–9
photograph, 157A6:149
photomicrograph, 161B25:343–344
Prydz Bay, 119A9:354; 119B7:137
Site 699, 114A6:160
structure, 161B23:310
transform faults, 159A1:10
volcanic pebbles, 161B44:568
See also metasediments; orthoquartzite
quartzites, fuchsite
lithology, 119B5:65
Prydz Bay, 119A11:453; 119B7:138
quartzo-feldspathic rocks
lithology, 173A6:128
photomicrograph, 180A7:41–42
tonalite gneiss, 173A6:131
quartzwacke, thin section, 163X_A6:37
Quaternary
age vs. depth, 189B10:29, 32, 35, 38
aminostratigraphy, 150X_B26:355–357
anoxic deposits, 165B7:125–140
benthic foraminifers, 149B9:217–239; 175A17:518–
519, 523
biogenic opal, 184B21:1–12
biostratigraphy, 136A4:41; 139A5:110, 113;
141B30:373–377; 146B(1)24:369–374;
151A13:416; 151B3:39–59; 35:641–642;
155B38:577–594; 164A8:256, 258; 164B33:331–
341; 165A7:368; 165B1:3–17; 174A_A3:58–65;
4:115–120; 5:163–168; 180B4:1–13; 181A6:13–
17; 182A1:10–12, 17, 20–23, 26, 31, 37, 40;
182B5:1–16; 6:1–11; 184A6:7–8; 7:10–12;
186A4:23–26; 5:17–21; 191A4:16–20; 194A3:8–
11; 201B16:5–6; 202A7:11–15; 204A3:10–13;
4:11–13; 5:6–7; 7:8–9; 10:11–12; 11:10
calcareous nannofossils, 144B1:3–20; 160B12:155–
165; 168A4:77–78; 6:175; 168B4:39–49;
188A3:26–30; 188B11:14
calcium carbonate, 145B20:300
carbon isotopes, 154B35:501–505
carbonates, 151B24:415–434; 154B12:189–199;
166B6:61–76
clay mineralogy, 155B9:177–192; 178B8:1–29
clays, 152B4:46–48; 190/196B4:8–9
cool-water carbonates, 182B11:1–14
cyclic processes, 146B(2)4:45–59; 181B1:58; 182A1:16
deposition, 152B3:29–38; 157B20:353–354
diagenetic dolomite, 201B13:5–6
diatoms, 146B(1)4:65–66, 71–73; 150B2:17–35;
167B3:63–110; 178A2:14; 178B25:6–7; 184B6:1–
9; 186B2:1–38; 188A3:30–36; 4:21–22; 188B6:1–
25
dinocysts, 133B7:93–95; 8:97–105; 189B2:9; 3:1–48;
10:3
evolution, 180A3:4–5
extensional basins, 161A1:8–9
foraminifers, 133B14:181–188; 146B(1)5:79–113;
149B6:165–192; 151B10:187–196; 157A8:411–
412; 181A7:17–18; 8:16; 9:12; 188A5:15–16
gateway history, 189B1:17–19
geochronostratigraphy, 182B3:30
geomagnetic events, 155B12:231–243

- geomagnetic field, 202A1:13-14
glaciation, 145B17:257-264
glaciomarine sediments, 163X_A8:3
history, 189A1:12-13
ichnofacies, 138B10:177-190
inorganic geochemistry, 181B9:1-10
islands, 157A2:14-15
isotope stratigraphy, 152B18:243-248; 155B16:281-303
lithology, 136A4:39; 141A9:306-313; 145A4:86-87; 5:128, 130; 6:216; 146A(1)6:247; 151A5:60-62; 6:117-118, 122; 7:166, 171; 8:227-230; 9:275-277; 10:322-326; 152A7:75-76; 8:92; 9:113-114; 10:167-168; 11:194-195; 154A5:156; 6:235-236; 7:283; 157A7:329-332; 159A7:226-227; 160A5:92-93; 7:160-161; 8:220-222; 10:339-340; 12:421-430; 13:452-454; 14:469-471; 162A3:55, 58; 5:146, 149, 152; 6:178, 181, 184; 7:227, 231; 8:261; 9:296, 298; 167A(1)5:87; 6:132-135; 7:161; 8:180-183; 9:225-227; 10:245-246; 11:288-291; 12:318-320; 13:357-359; 14:393, 395; 15:435-437; 16:465, 467-468; 168A4:57; 5:109-111; 6:167-169; 169A3:51-53; 178A1:6-7; 2:16-17; 180A7:7-8; 181A1:33; 8:10-11; 182A1:9-10, 39; 9:8; 183A1:23; 184A6:4-7; 185A3:6; 190A4:6-7; 5:7-9; 6:4-6; 7:5-6; 9:6-8; 190/196B4:3-4; 196A3:18; 199A8:5; 9:5-6; 10:6-7; 11:7; 12:8; 15:4
magnetic susceptibility, 172B4:1-22
magnetostratigraphy, 182A1:37-38, 57; 188A4:28-29
methane, 188B15:5-6
nannofossils, 183A7:9-10; 183B8:1-19; 184A4:11-13; 189B1:6; 6:1-26; 197A6:5-6; 206A3:26-29; 206B2:4-5
opal accumulation, 175B21:1-31; 178B23:1-33
organic matter, 149B15:305-313
ostracodes, 146B(2)18:251-255
paleoceanography, 151B1:14; 25:437-444; 28:469-482; 36:657; 157B7:73-82; 161B35:441-455; 40:505-518; 167B32:342-343; 184A1:9; 195B3:1-31
paleoclimatology, 145B10:171-176; 146A(2)2:18-19; 155A1:12-13; 160B19:227-248; 167B17:217-226; 20:239-245; 175B23:1-46; 184B2:13-15; 188A5:13; 202B1:6
paleoenvironment, 133B49:723-747; 151A13:419; 159B43:585-603; 161B36:457-468
paleovegetation, 155B32:525-526
pelagic sediments, 138B29:627-639
placololiths, 183B8:1-19
planktonic foraminifers, 167B2:45-54; 182A4:17; 6:16-17; 7:14; 9:11; 182B3:31-37; 5:1-16; 183A7:12; 8:10; 189A4:11; 5:22-23; 6:30; 7:26-27
plate convergence, 134B3:47-57; 35:619
pollen, 202B1:6
pore water, 154B13:201-206
productivity cycles, 175B(synthesis):42-43; 178B23:16
provenance, 155B7:156
radiolarians, 136A5:68; 136B1:3-25; 160B11:137-154; 180B14:1-21; 189A7:30; 199A15:8; 202B1:9
rifting and sedimentation, 180B(synthesis):13-14
sandstone, 146B(1)29:425-429
sapropels, 160B26:311; 28:349-363
sea level changes, 133B15:189-202; 16:203-233; 182A1:31
sea-surface temperature, 138B27:605-613
sediment color, 175A22:565-566
sediment transport, 150A1:8
sedimentary basins, 134A1:16
sedimentation, 138A(1)8:105; 146A(1)5:217-221, 225, 229; 146B(1)2:42-43; 152B1:3-18; 155B41:653-675; 178B34:1-14; 188A1:11; 194B4:1-13; 195B3:1-31
sedimentation rates, 145B19:287-291; 151A12:391; 159A8:277; 164A5:82; 177B6:2-3; 189B10:9-13, 18-20; 195B3:12; 201B15:1-15
sediments, 133B57:795-817; 139B7:105-111; 141B7:95-104; 149B14:301-304; 167B23:263-271; 175A22:561-567; 177A1:13, 20-22; 182B7:1-21; 184A1:20-22; 190A1:26
sequence stratigraphy, 150B12:237
silicoflagellates, 185B4:1-18
slope sediments, 150B12:229-239
sponge spicules, 180B13:1-8
stratigraphy, 138B45:887; 150X_B1:7-10; 174AXS_A4:39; 177A6:12
tectonics, 134A3:33-42; 161B26:345-355
trench-wedge facies, 190/196B6:10-11
underthrusting, 146A(1)1:5-6
vegetation, 133B9:107-114
volcanic rocks, 134B19:390; 145B24:386
volcanism, 181B1:23-26
zonation, 189B6:17
See also Eocene-Holocene interval; Holocene; Kolbe epoch; Last Glacial Maximum; mid-Pleistocene climate revolution; Miocene-Holocene interval; Neogene-Quaternary interval; Oligocene-Holocene interval; Oligocene-Quaternary interval; Pleistocene; Pliocene-Pleistocene interval; Pliocene/Quaternary boundary; Pliocene-Quaternary interval; Weichselian; Younger Dryas
Quaternary, lower, biostratigraphy, 182A1:34
Quaternary, middle-upper, paleoclimatology, 166B2:13-22
Quaternary, upper
 alkenones, 186B13:1-12
 biomarkers, 167B12:183-194
 biostratigraphy, 165B4:85-99; 169A3:38-39; 195A5:8; 202A3:9-11; 4:9-10; 6:9-11
 calcareous nannofossils, 130B11:184-187; 167B27:303-308
 carbon isotopes, 167B24:273-276
 carbonate content, 194B3:1-9
 clay minerals, 178B8:10-12; 188B13:12
 coral reef terraces, 134A3:38-41
 cyclic processes, 146B(2)3:31-44; 167B25:277-296; 178B25:7, 19-20
 diatoms, 130B30:509-523; 146B(2)16:223-249; 155B21:367-373; 183A6:21

foraminifers, 175B7:1–26
geochronology, 141B17:235–240; 146B(2)2:19–27
interhole correlation, 146B(2)12:169–192
lithofacies, 146B(2)22:295–308; 155B2:7–33
lithology, 146A(2)2:22, 24; 146B(2)27:347–351;
195A3:11–14; 5:8–9; 202A3:6–9; 4:6–8; 5:5–8;
6:6–9
magnetostratigraphy, 130A7:248–249
nannofossils, 186B5:1–15; 190A5:14–15; 195A3:21–
22; 207A8:11
organic carbon, 146B(2)9:125–138
paleoceanography, 130B23:397–409; 29:491–508;
138B33:675–693; 155B18:319–333; 165A8:385
paleoclimatology, 130B22:381–395; 24:411–421;
146B(2)19:257–264; 21:281–293; 23:309–325;
155B25:411–418; 167B21:249–254; 195A1:26–
27
paleoenvironment, 133B11:129–161
paleomagnetism, 202B2:1–22
paleotemperature, 133B13:175–180
pelagic foraminifers, 130B21:363–379
pollen, 155B23:381–396
productivity, 175B19:1–19
pteropods, 134B15:319–334
racemization, 155B22:375–378
radiolarians, 130A7:244; 8:315; 9:407
sedimentation, 182B8:1–24; 183A3:6–7
sediments, 146B(2)6:77–87; 7:89–101; 167B22:255–
261
siliceous phytoplankton productivity, 175B11:1–32
stable isotopes, 175B12:1–22
stratigraphy, 146B(2)1:3–18; 8:103–124; 151B26:445–
454; 167B7:129–140
tephrostratigraphy, 186B10:1–22
upwelling, 175B(synthesis):1–102
quench crystals
lithology, 187A10:3
petrography, 187A8:3–4
photograph, 187A10:8; 15:30
photomicrograph, 187A8:21; 10:9, 14; 13:18; 15:17
quench crystals, spherulitic, lithology, 187A15:4–7
quench texture. *See* textures, quench
quenched margins, basalts, 191A4:30–32
quenched surfaces, lava ponds, 206B5:2–3
quenched zones
alteration, 187A13:8
lava, 163B12:136
photomicrograph, 187A5:12; 6:22
textures, 165A6:326–327, 329
quenching
basalts, 197A3:20
basement units, 183A7:14, 25
clinopyroxenes, 209A4:3
microgabbros, 176B8:10
photomicrograph, 197A4:55
tephrachronology, 183B9:8–9
quinones
microbial divergence indexes, 205B1:24; 8:9–10, 25–
26
sediments, 205B8:6–11
vs. depth, 205B8:18–21

R

r-strategists, planktonic foraminifers, 183B2:3, 5–6
racemization
amino acids, 150X_B26:355–357; 201B12:3
geochronology, 155B22:375–378
See also amino acids; aminostratigraphy; geochronol-
ogy
radioactive dating, sediments, 178B7:4–5
radioactivity
basement, 173B3:2
calculation, 143A4:76
clay indicators, 119B14:274–275
geochemical logs, 133B57:798; 136B13:154–155
glaciomarine sediments, 119B14:281
total count, 129B34:638
well-logging, 126B43:655
radioactivity, natural
operations, 191A4:42
vs. depth, 148B29:376, 379
radioactivity logs
onshore processing, 149A6:201
vs. depth, 191A4:117; 206A3:52
radiocarbon dating
Pleistocene–Holocene interval, 201B15:1–15
See also carbon-14
radiogenic heat
basement, 149B44:675–682
See also heat flow
radiography logs, consolidation, 204B12:18, 141–148
radiolarian datums
age, 199B3:70
biostratigraphy, 188A4:102; 189A3:141–142; 5:135;
7:120; 207A6:85; 7:88
correlation, 199B3:60–63
depths, 178A5:142; 189A6:144
distribution, 199A11:100; 12:106
Miocene–Pliocene interval, 202B6:5–9
sedimentation rates, 178A4:33, 171; 5:92
radiolarian fillings
alteration, 200A3:25
photomicrograph, 200A3:102–103
radiolarian morphology, transverse lines, 136B1:35
radiolarian tests
biogenic sediments, 201B14:8
electron microscopy, 185B9:22, 24
imagery, 171A_B1:14–15
microfabrics, 185B9:9
photomicrograph, 185B10:5, 7–8; 210A3:133, 209
proto-décollement, 171A_B1:6–8
radiolarian zones, published age, 199A1:74; 199B1:32
radiolarians
abundance, 101A2:18–19; 103B22:382–384;
104A4:133; 5:473, 482–483; 6:629–630, 635–
636; 104B35:706–709, 713, 716–719;
105B21:351, 370–372; 116B17:207–212;
117A12:411; 123B15:302–303, 306–307;
124A8:107; 10:145–147; 11:22–226; 12:315–
319; 13:350–353; 14:405–408; 124B1:3–6; 2:13–
19, 21–25; 9:122; 10:150; 12:172–173; 24:340;
25:345–357; 26:359–368; 126A2:24–25;

- 126B21:321–330; 132A4:87; 175A3:69; 9:246, 512; 178A7:43; 178B13:4; 33:13–14; 181A3:94–95; 4:62–65; 5:59; 6:128–130; 7:95, 150–157; 8:117–120; 181B1:93; 183B5:32–36; 10:3; 191A4:138
- abundance and preservation, 171B_A4:133; 5:197–198; 6:273–274; 7:330
- ages, 181A7:72; 181B1:93
- analytical methods, 104B33:699; 123A345; 123B15:300–303
- Antarctic Sea, 120B(2)39:734; 41:785
- Aptian–Albian interval, 123B39:755
- Argo Abyssal Plain, 123B1:42–43; 39:744–746
- Argo Basin, 123B15:315–316
- assemblages, 138B20:46–476; 178B13:4–5; 183B10:3–5
- Atlantic margin coring project (AMCOR), 101B5:105, 110
- Atlantic Ocean N, 105B21:349–350
- Austral realm, 123B15:313
- Australian northward migration, 115B22:405
- Baffin Bay, 105A2:30–32; 105B21:350
- Bahamas sites correlation, 101B5:111
- Barremian/Aptian boundary, 123A5:295; 123B15:311
- Barremian–Albian interval, 123B39:755
- biochronology, 185B6:1–17
- bioevents, 112B12:189; 117A2:23; 138A(1)9:143–144; (2)13:700–701; 14:764–765; 15:829; 16:918–919; 17:984–985; 18:1036; 19:1071; 145B4:68–71, 78; 167A(1)10:259; 12:332; 14:406; 15:447; 178B13:15; 183B10:14; 199A9:39; 10:55; 11:106; 12:111; 13:80; 14:57; 15:49; 199B3:13–17, 69; 5:6–7, 54–57
- biogenic sedimentology, 199B24:1–19
- biogeography, 123A4:129–130; 123B15:313, 315; 39:743–744, 755; 183B10:3–6
- biostratigraphic datums, 111B21:247–252; 115A5:263; 6:417; 7:483; 8:611; 10:751; 11:859; 117A9:212; 119B28:525; 138B11:203, 213, 216–217, 222–232; 145A5:140–141; 6:231; 7:310; 8:346; 146B(1)24:370; 181A7:158
- biostratigraphy, 105B50:941; 115A2:27–29; 3:137; 6:412; 7:473; 8:601–602; 9:669; 10:745–746; 11:855–856; 12:925; 13:1011; 115B16:251–252; 22:403–404, 408–409; 117A8:165–166; 10:216–217, 266–267; 11:331–332; 12:394; 13:427; 14:453; 15:472; 16:506–507; 18:567; 19:602; 117B4:90–97, 118–125; 5:135–140, 144–145; 119A5:134–135; 6:174–176, 180–181; 7:248–249, 252; 8:305; 11:414; 13:485, 488; 14:515–516; 15:543–544; 119B28:514–521, 524–527; 46:817; 123A4:115, 118; 5:292; 123B15:303–311; 126A2:26–28; 5:80–81; 7:167–168, 171–172; 8:252–254; 9:351; 130A9:407–408; 10:504; 134A7:108–109; 8:152; 10:276; 11:334; 12:411; 134B14:309–317; 136A4:41–68; 136B1:3–25; 138B8:139; 11:191–232; 33:688, 690; 35:745; 46:906–907; 141A6:89–90; 7:175–179; 8:255; 9:316–317; 10:363; 145B4:55–91; 7:93–132; 13:208–209, 217; 14:226; 37:560–574; 146A(1)4:72–73; 5:156, 161–162; 6:255; 7:321–323; 146B(1)3:47–62; 24:369–374; 150B3:37–51; 151A5:71–72; 6:123–124; 7:173; 8:232; 10:328; 11:362–363; 151B7:125–152; 35:630; 156A6:131; 7:218–220; 159A6:182; 7:238; 8:273–274; 162A3:69–70; 4:111; 9:304; 10:357; 165B3:57–81; 167A(1)4:59–61, 66–69; 5:101–104; 8:186–187, 194–197; 10:251, 256–258; 11:293, 297; 12:323, 325, 330–331; 13:363–364; 14:398, 405–406; 15:440–446; 16:473, 474; 167B32:367; 171B_A4:129–132; 5:195–196; 6:266–267; 7:327, 329; 173A6:120; 174AXS_A3:43–44; 175A3:66–67; 4:95; 5:123; 6:158–159; 7:183; 8:209; 9:245, 248–250; 11:320; 12:358–359; 13:404; 14:440, 442; 15:468; 177A1:22–23; 3:10; 4:13–14; 5:16–17; 6:10–11; 7:11–12; 8:13–14; 9:11; 178A1:12–13; 4:15–16; 5:13–14; 6:9; 7:10–11; 8:10, 41; 9:12, 51; 178B13:1–22; 180B4:1–13; 181A3:14–15; 4:12–15; 5:12–15; 6:17; 7:22–25; 8:20–21; 9:15; 182B2:1–24; 188A3:36–38; 4:25; 5:18; 189A1:36; 3:29–30; 4:13–14; 5:28–29; 6:34–35; 7:30–31; 191A4:19–20; 191B1:8; 198A9:23–24; 10:12; 199A10:11–12; 11:18–19; 12:19–20; 13:16–18; 14:13–14; 15:8–9; 199B3:1–76; 5:52; 200B4:1–25; 202B1:11; 6:1–29; 207A4:16; 5:18; 6:21; 7:17–18; 8:19; 210A3:87–88
- bipolar distribution, 123B39:743
- Blake-Bahama Basin, 101B5:109
- calcareous chalk, 123B6:147
- Campanian, 101B6:120
- carbonates, 105B10:152; 123B1:27–30; 5:125–126
- Cenomanian/Turonian boundary, 207A1:7
- Cenozoic, 103A9:244; 115B22:395–396; 143B34:571–574
- census counts, 175B14:25
- Chagos Bank, 115B22:403
- circum-Antarctic species, 123B15:315
- clay, 103B21:354–357; 123A4:130; 123B1:14, 17, 31; 15:311–312; 39:744
- comparison of ages with diatoms, 146B(1)24:370–373
- correlation, 105B21:353; 119B28:530
- Cretaceous, 103B22:379–418; 123B38:721; 130B7:93–102
- cumulative percentage, 178B33:11
- current deposition, 123B15:300; 129B32:602
- cyclic processes, 178B25:7
- depths, 105A5:445, 449–450; 6:698, 704–705
- description, 105B21:352–353
- diagenesis, 198A9:15
- displaced middle latitude, 117B4:95, 98
- dissolution, 129B3:91
- distribution, 104B35:720–721; 117B4:104–114; 146A(1)5:158–160; 7:326; 171B_A4:130–131; 177A3:57; 4:83–85; 6:74–75; 7:74–75; 8:93–95; 9:65; 199A9:35
- diversity, 178B33:12
- Eocene, 101B3:71; 5:105, 108, 110; 6:117–118; 119B28:527; 199A1:22–24
- Eocene–Oligocene interval, 119B28:520–521; 183B1:22–25, 38

- Eocene/Oligocene boundary, 115B22:401–402;
119B28:518, 527–528; 183B5:8–9
evolutionary lineages, 119B28:529–531
extraction curve, 167B14:204
factor-loading matrix, 138B20:477–478
faunal indexes, 183B5:37
first and last occurrences, 199A13:74
Galicia margin W, 103B3:51
glaciation, 120B(1)12:175
glaucony, 150B10:182
hiatuses, 105B21:350
Holocene, 116A5:100
Indian Ocean, 120B(2)62:1083
intersite comparison, 117B4:94
Izu-Bonin forearc, 125B6:95–104
Jurassic paleolatitude, 123B39:743
laminated diatom ooze, 138B31:648
late Miocene–early Pliocene interval, 183B10:1–17
Lima Basin, 112A11:177; 19:817–818; 112B12:182,
187; 22:372
limestone, 110A5:222
lithology, 123B3:11; 138A(1)10:192–208; 156A6:98–
99; 7:202–203; 159A7:227, 234; 8:264–266;
165A4:142–143, 148; 166A8:178; 167A(1)4:56;
11:289–291; 15:437; 169A5:208; 170A3:53;
4:103–106; 6:195; 171A_A3:27; 6:84;
171B_A6:246; 7:323; 172A3:38; 4:91; 6:255–
258; 177A1:20–22; 178A5:5; 180B6:10;
181A5:5–6; 9:4–6; 182A1:39; 12:4; 183A5:4, 13;
184A6:4; 7:6; 185A4:15–16; 186A1:9; 5:13;
189A4:7; 6:12–15; 190A6:6; 191A4:10–12, 15–
16; 192A3:11–12; 5:5–6; 198A3:12–13; 8:7–8;
10:5–9; 199A10:7; 11:7; 12:8–11; 13:6–10; 14:6–
8; 15:5; 201A6:9; 7:8–10; 12:7–11; 202A9:8–11;
11:8–10; 12:6–10; 13:6–9; 204A3:4–8; 4:5–11;
11:4–7; 207A6:6–9; 7:5–11; 210A3:37
Little Bahama Bank, 101A6:129; 7:223; 101B5:107–
109
low density, 171A_B3:6
low-diversity assemblages, 119A5:156
lower Oligocene, 183B5:29
lower Oligocene/upper Eocene boundary, 199B5:1–74
macroturbidites, 103B31:517–518
magnetobiochronology, 178B36:4
magnetostratigraphy, 115B22:404
main components of assemblage, 177A5:91–92
Mascarene Plateau, 115A5:244; 115B22:396, 401
mass accumulation rates, 175B11:21
microfossil studies, 104A4:146–147; 104B39:785–786
mid-Cretaceous, 159B29:363–373; 207B2:8
Miocene, 101B3:71; 5:105–106, 110, 117–118;
111A4:263; 115A12:925; 119A7:252;
119B28:518; 156B2:33–48
Miocene–Pleistocene interval, 112A17:618;
115A11:855; 183B1:23–24
Miocene/Pliocene boundary, 115A8:601; 125B6:96
Miocene–Pliocene interval, 117A18:596, 602;
117B4:94
Miocene–Quaternary interval, 119B28:518
nannofossil-foraminifer correlation, 119B28:528
Nazareth Bank, 115B22:396
Neogene, 119B28:522; 123A3:42; 123B38:719;
138B20:462–478; 23:521, 526–529; 159A9:308
Northwest Australian shelf, 123B1:32
occurrence, 125B37:617; 130B5:64–67; 185B6:16–17
Oligocene, 101B6:120; 119B28:523; 46:831, 833;
183B5:1–48
Oligocene/Miocene boundary, 115A7:474;
119B28:519, 528–529
Oligocene–Miocene interval, 183B4:26; 5:27
opal, 103B32:535–538; 119B10:190
oxygen isotopes, 120B(2)56:1004
paleoceanography, 115B22:404–405; 123B1:47;
39:742, 752, 754; 138B47:911–930
Paleocene, 101B6:120; 181B1:15–16
paleoclimatology, 192A3:17–18
paleoecology, 123B15:311–312
paleoenvironment, 104A4:120, 122; 5:473;
104B6:630; 181A4:14–15; 5:14–15; 6:20;
189B10:4; 210B13:19
Paleogene, 115B22:408–409; 23:428; 123A3:43;
123B38:720; 199B1:6–7
paleomagnetism, 119B28:531
paleoproductivity, 117A10:304; 138B14:333–335
Parvicingula vs. *Ristola* type, 123B15:313; 39:744
pelagic carbonate influx, 123B39:752
percentage vs. depth, 138A(1)10:198
Peru margin, 112A2:36; 117B5:138
photograph, 146A(1)7:314; 159B43:589; 198A10:20;
207A5:49
photomicrograph, 129B3:112–114; 171A_B1:2, 6;
183B5:39–48; 10:15–17; 185A3:68, 117; 4:83;
191A4:97; 198A3:74, 78; 198B16:22; 205A5:51
physical properties, 120B(1)13:187; 171A_B1:1–3;
3:10
Pisco Basin W, 112A18:721; 112B12:187
plectopyramids (deep-dwelling form), 124B26:368
Pliocene, 111A4:263
Pliocene/Pleistocene boundary, 119B28:520;
125B6:96
Pliocene–Pleistocene interval, 101B6:120; 117A4:49;
119A7:244, 252; 119B28:518
preservation, 104A4:120; 5:473; 117A19:595–596;
120B(2)40:764; 123B15:302–307; 141A7:179;
156A6:132; 181A7:39, 95; 183B5:7–10; 10:3
proto-Antarctic Ocean migration, 123B15:315
provincialism, 123B14:313
pyrite replacement, 103B32:539–544
quantitative analysis of Oligocene fauna, 183B5:30
Quaternary, 111A4:263; 116A5:100; 116B17:207;
123A4:126, 246; 5:295; 160B11:137–154;
180B14:1–21; 202B1:9
range chart, 117B4:102; 138B11:192–228; 175B3:13–
16; 178B13:13–14; 183B10:12–13; 199B3:64–68
relative abundance, 199B4:12–13
replacement, 103B32:538–545
reworking, 200A3:29–30
sampling procedures, 111B21:246–247
sand faunas, 123A4:130; 123B15:311–315; 39:744
scanning electron micrograph, 159B16:156
sea level lowstands, 123B15:316

- sedimentation, 124A10:151–152; 11:235; 12:325;
191A4:26, 90; 192A6:10; 199A12:24; 200A4:25
- sediments, 102A3:100; 102B1:9; 2:20–21;
130B38:642–649; 41:689; 138B19:442–450;
146A(1)5:144, 148; 175B1:3, 13, 21; 11:4, 7–8;
178B15:4–5; 33:1–14; 189A5:68–69; 198B16:4–5
- silica, 154B33:485
- siliceous allochems, 149A5:125; 6:156; 7:221
- Site 398, 103B32:545–547
- Site 501, 111A2:16–17
- Site 504, 111A2:16–17
- Site 603, 103B32:545–547
- Site 637, 103A8:143
- Site 638, 103A16:248; 103B38:688–689
- Site 639, 103A10:428–429; 103B11:191–192
- Site 640, 103A11:539; 103B38:691
- Site 641, 103A12:584, 603–605; 103B35:612–613;
39:690
- Site 645, 105A4:94–95, 97
- Site 646, 105A5:452; 105B21:350
- Site 647, 105A35:702–703; 105B21:350–352
- Site 660, 108A5:336–337, 340
- Site 671, 110A4:86, 89; 110B9:138; 27:412
- Site 672, 110A5:224–226; 110B9:139; 27:413
- Site 673, 110A21:323–326; 110B9:138; 27:412
- Site 674, 110A7:411–412; 110B9:138; 27:412
- Site 675, 110A8:492–493; 110B9:139; 27:413
- Site 676, 110A9:522; 110B9:139; 27:413
- Site 677, 111A2:16–17; 4:262; 111B21:246–253
- Site 678, 111A2:16–17
- Site 680, 112A12:263; 112B11:182; 22:374, 376, 377
- Site 681, 112A13:315–316; 112B12:182; 22:376
- Site 682, 112A14:381; 112B12:182–183, 195–197
- Site 685, 112A17:618–619; 112B12:187, 202–203
- Site 688, 112A20:900–901; 112B12:187–188, 204–207
- Site 708, 115B22:401
- Site 709, 115B22:397–399, 401–402
- Site 711, 115A9:662; 115B22:400, 402–403
- Site 714, 115B22:403
- Site 717, 116A5:51–52
- Site 718, 116A5:98, 100
- Site 719, 116A6:163
- Site 720, 117B5:129–130
- Site 721, 117B5:130
- Site 722, 117B5:130
- Site 723, 117B5:130–131
- Site 724, 117B5:130–131
- Site 725, 117B5:130–131
- Site 726, 117B5:130–131
- Site 727, 117B5:130–131
- Site 728, 117B5:130–131
- Site 729, 117B5:130–131
- Site 730, 117B5:130–131
- Site 731, 117B5:130
- Site 747, 120A6:112–113; 120B(2)40:761; 41:789;
57:1038
- Site 748, 120A7:190–195; 120B(2)39:736; 40:762;
41:791; 57:1046
- Site 749, 120A8:253; 120B(2)39:738
- Site 750, 120A9:304
- Site 751, 120A10:352; 120B(2)40:763; 41:791
- Site 752, 121B36:722
- Site 758, 121A17:382, 387
- Site 765, 123A4:126–129; 123B1:9; 15:303–305
- Site 766, 123A5:295–297, 342; 123B38:733, 735
- Site 787, 126B21:322–323
- Site 790, 126B21:322–324
- Site 791, 126B21:322, 325–326
- Site 792, 126B21:322–323, 327–329
- Site 793, 126B21:324, 330
- Site 803, 130A5:126–127
- Site 804, 130A6:192–193
- Site 805, 130A7:243–245
- Site 806, 130A8:315–316
- Sites 504 and 677 correlation, 111B22:269
- smear slides, 188A4:14–15
- species list, 104B35:712, 714, 724–728; 111B21:255–
257; 136B1:10–14; 143B34:573–574; 145B4:78–
82; 160B11:138–142; 182B2:17
- stratigraphic distribution, 145B4:67, 72–77;
175A3:68; 4:97; 5:125; 8:210; 9:249; 10:289;
11:322; 12:360–361; 13:405; 15:470
- stratigraphy, 115B22:401, 403; 126A16:254; 145B2:28
- summary, 104A4:142–144; 5:473; 7:756–762;
104B35:714–715, 724–727
- surface water productivity, 105B21:351
- Tethyan affinities, 123B15:299–300, 311, 313; 40:756,
759
- Tethyan Seaway closure, 115B22:405
- thanatocenoses, 123B39:743
- Trujillo Basin, 112A16:543; 112B12:185–187
- turbidites, 117B5:130; 123B5:115; 13:246
- Unitary Association zones, 198A9:23
- upper Cenozoic, 175B14:1–26
- upper Eocene–Oligocene–Miocene interval, 189B10:3
- upper Oligocene–lower Miocene interval, 199B4:1–13
- upper Quaternary, 155B21:369
- upwelling, 117A3:40; 9:243; 11:332; 117B1:15; 4:92–
99, 116–117; 5:130; 123B5:127; 15:313, 315;
175A1:17; 175B3:1–16
- vein structures, 126B13:198, 201
- volcanic sand, 136B4:55
- vs. age, 145B4:64; 175B11:20; 178B15:10
- vs. depth, 138A(1)11:275; 12:344; (2)13:687; 14:753;
15:822; 16:907; 17:975; 18:1032; 19:1071;
144B3:63–67, 72; 145B7:134–138; 150A8:219;
175B3:12; 178A4:62–63; 5:58; 6:42; 178B13:12;
186A4:82; 5:52; 189A6:75–78, 108; 7:61, 65;
192A1:60; 5:35; 199B24:15; 200A4:152;
202A9:46; 11:38; 12:48; 13:38; 206A3:123
- winnowing effects, 119A7:252
- Yaquina Basin, 112A15:456; 112B12:183–185;
12:198–201
- zonation, 101A1:18; 101B6:120; 103B22:381–386;
104A4:148–152; 104B35:699–711; 39:802;
105B50:937, 939; 111A4:260–263; 117A8:164;
12:396; 117B4:91; 120B(2)39:740–741; 40:757;
41:787–788; 57:1033; 123A3:44; 123B38:722;
126A2:24; 126B21:321–322; 130A2:31;
178B13:10; 199A9:19; 10:29; 14:31, 52; 15:41–
44; 199B5:53; 24:7; 202B6:5–9; 207A4:48; 5:55–
56; 6:52; 7:50; 8:49–50

- See also* actinomorphs; artostrobids; Cannobotryiidae; coccoliths; coefficient of rebound; collosphaerids; cycladophorids; diatom-radiolarians assemblages; diatom-radiolarians-clay rebound; diatom/radiolarians ratio; liosphaerids; mass accumulation rates; nassellarian/spumellarian ratio; nassellarians; orosphaerids; pantanellids; parvincingulids; phaeodarians; *Phormacantha hystrix*; plagiacanthids; plagoniids; *Siphocampe* + *Artostrobus*; spongodiscids; spumellarians; theoperids; trissocyclus
- radiolarians, altered, photomicrograph, 192A5:42
radiolarians, endemic, lithology, 117B4:94–95
radiolarians, enhanced, tropical taxa, 117B4:98–99
radiolarians, ghost, scanning electron microscopy, 129B4:134
radiolarians, nassellarian
 abundance, 129A3:115; 129B4:197
 Berriasian–Barremian interval, 129B1:6
 Berriasian–Valanginian interval, 129B32:598
 biostratigraphy, 129A1:16; 129B10:203–220; 37:697–707
 Calloviaian, 129B32:584, 587
 Jurassic, 129B37:700–701
 Jurassic–Cretaceous interval, 129B32:601
 lithology, 129B2:57; 3:91, 112–114; 6:155–159
 Lower Cretaceous, 129B10:206; 32:598, 606
 mid-Cretaceous, 129B33:624
 Middle Jurassic, 129B37:697–707
 Middle Jurassic–Cretaceous interval, 129B10:205
 Middle Jurassic–Lower Cretaceous interval, 129B10:212–215
 Middle–Late Jurassic interval, 129B37:700
 Oxfordian, 129B32:588, 590
 photomicrograph, 129B3:105–107, 112; 10:216–220
 productivity, 129B30:530
 reevaluation of age, 129B24:448
 scanning electron micrographs, 129B37:704–707
 silica fillings, 129B32:583
 silicification, 129B30:545
 Site 800, 129A2:52
 Site 801, 129A3:117–118; 129B2:34, 36
 Site 802, 129A4:200
 species list, 129B9:209–211
 Tithonian, 129B32:581, 591–592
 Upper Cretaceous, 129B3:96
 Upper Jurassic, 129B32:606
 Valanginian, 129B32:596
radiolarians, orosphaerid, accessories, 188B4:10–11
radiolarians, recrystallized
 electron micrograph, 170B3:25
 lithology, 123B1:55; 5:132–135
radiolarians, replaced, lithology, 129B32:581
radiolarians, reworked
 Miocene taxa, 117B4:92
 occurrence, 115A9:669; 116B17:208, 212; 120B(2)40:764; 123A4:126; 130A7:245
radiolarite
 deposition, 123B1:15; 39:746
 genesis, 130A10:524
 lithology, 198A3:14; 199A11:8–9; 12:11
 middle–upper Eocene interval, 199A1:35; 11:5
 permeability, 123B1:31
 photomicrograph, 198B16:23
 reduction, 198A9:16
 sedimentary structures, 123B15:312
 sedimentology, 199B24:1–19
 seismic stratigraphy, 185A4:4–6
 Site 765, 123A4:90, 105, 130; 123B1:14; 4:94; 15:300, 311
 Site 803, 130A5:109
 turbidites, 123B5:111, 114
 See also clays/radiolarite ratio; claystone-radiolarite layers
radiolarite, brown
 core ages, 129B2:35
 lithology, 129A3:101–104; 129B2:35; 14:268
 Site 801, 129A3:107–108
radiolarite, clayey
 lithology, 129A2:44–45; 129B32:583
 photograph, 171B_A5:188
 Site 800, 129B2:32
 X-ray diffraction data, 129B3:82
radiolarite, hematite-rich, Lower Cretaceous, 129B32:571
radiolarite, metalliferous, Callovian, 129B32:601
radiolarite, red
 Jurassic, 129B1:18
 lithology, 129A3:104; 129B23:437
 Site 801, 129A3:106–107
radiolarite, silicified metalliferous, 129B32:583
radiolarite, umber, lithology, 129B14:268
radiolarite/clay ratio, Lower Cretaceous, 129B31:555
radiolarite “woody” texture
 Aptian–Albian–Cenomanian interval, 129B33:619
 Bathonian–Callovian interval, 129B1:10; 32:559
 Berriasian–Barremian interval, 129B1:6
 Berriasian–middle Valanginian interval, 129B32:594
 Berriasian–Valanginian interval, 129B32:594; 36:681, 683
 biostratigraphy, 129B10:206–207
 Callovian, 129B32:584–585, 587, 602, 608
 chemical composition, 129B32:582
 core ages, 129B2:37
 Cretaceous, 129B2:39
 deep-ocean sediments, 129B32:606
 electron microprobe data, 129B32:582–583, 591
 geochemistry, 129B15:290
 Jurassic, 129B1:18; 2:39; 32:606
 Jurassic–Cretaceous interval, 129B32:601
 Leg 129, 129B1:32, 39; 3:88, 95; 6:158
 lithology, 129B2:33, 37; 14:268; 32:589
 Lower Cretaceous, 129B30:530
 lower Tithonian, 129B36:680–681
 middle Berriasian–Valanginian–lower Hauterivian interval, 129B32:597–601
 Middle Jurassic–Lower Cretaceous interval, 129B32:571
 middle Oxfordian, 129B32:588
 middle Tithonian, 129B32:591
 Milankovitch cycles, 129B30:529–547
 Oxfordian, 129B32:590; 36:690

- Oxfordian–Kimmeridgian interval, 129B36:680
 Oxfordian–Tithonian interval, 129B32:587
 Oxfordian–Valanginian interval, 129B1:10
 oxygen isotopes, 129B3:96
 paleomagnetism, 129B23:432
 photomicrograph, 129B3:105
 physical properties, 129B29:508–517
 post-Valanginian, 129B36:686
 pre-Aptian, 129B31:559
 scanning electron microscopy, 129B1:27
 Site 800, 129B2:56
 Site 801, 129B2:34, 36, 40; 3:92
 Site 802, 129A4:185–186, 190; 129B31:557
 Tithonian, 129B32:594
 Tithonian–Valanginian interval, 129B3:93
 Valanginian–Barremian interval, 129B1:9
- radiometric ages
 argon isotopes, 191B1:6
 paleoclimatology, 167B21:249–254
 sediments, 157B9:103
 vs. biostratigraphy, 165B20:305–307
See also absolute age; dating; geochronology
- radiometric dating. *See* age, radiometric
- radionuclides, heat flow, 149B44:675–682
- radiotracers, methane, 164B8:79–85
- radium-226/thorium-230 ratio, 142B5:37–38
- radium-226/uranium-234 ratio, age, 158B9:115
- radium isotopes, barite, 139B47:737–738
- rain forests
 Australia NW, 123B20:423–425
 pollen indicators, 133B9:109; 10:116, 120–121
- rainfall
 ice sheets, 120B(2)56:1006
 pollen, 146B(2)20:274
 provenance, 160B18:225
 Site 750, 120B(1)1:27; 8:104–105
See also atmospheric precipitation
- rainforest scrub, palynomorphs, 188B3:8
- rainout, deposition, 178A8:7
- Raman spectra, fluid inclusions, 157B26:432–433
- rapid sediment analyzer. *See* sediments
- rare earths
 alteration, 115B8:88–89; 148B10:127–134;
 149B31:539–540; 158B19:264, 266; 183B15:5–6,
 15–18; 193B1:48
 amphiboles, 147B3:59–75
 amphibolites, 173B10:5–6, 14–16, 19–20
 anhydrite, 158B12:143–159; 193B7:7, 13–14
 Atlantis II Fracture Zone, 118B7:148, 150
 basaltic andesites, 135B3:43; 24:392–406
 basalts, 119B16:307; 121B30:568–575; 32:629–631;
 123B10:206; 42:797; 124B21:303, 305;
 125B16:299–303; 127/128B(2)57:900;
 129B19:368–369, 374–378; 130B1:7–10, 14–20;
 135B3:47; 35:598; 142B2:12–21; 11:83–85;
 12:88; 144B28:481, 484; 149B29:501–515;
 152B40:481, 489–491; 158B17:215–216, 219–
 225; 19:261–262; 161B27:367–370; 191A4:32;
 210B9:17–19
 basement, 126B26:398; 27:417; 127/128B(2)47:780;
 58:912–916; 206B1:7; 6:3–4, 8
 biogenic siliceous input, 127/128B(1)39:692
 boninite vs. bronzite andesites, 125B12:226
 Celebes Sea, 124B20:284; 22:317–318
 chlorites, 169B6:20
 chloritized basalts, 158B19:266
 chondrite-normalization, 134B16:348, 350; 17:359;
 18:371, 373; 19:387–391; 137/140B3:41; 4:50;
 6:69; 7:94; 9:112–113; 11:127–128; 12:136;
 13:147; 16:202
 clay minerals, 125B7:128–129; 169B6:6, 8–9, 24
 clinopyroxenes, 137/140B11:121–130; 147B6:125–
 127; 153B17:344
 comparison of plutonics, 127/128B(1)39:691
 Cretaceous, 123B8:178–181
 Cretaceous/Tertiary boundary, 119B39:726;
 121B20:425–426, 430; 25:501
 crust, 123B9:184–185; 152B28:343–344; 163B7:71
 crystallization, 121B32:624; 123B42:794, 796;
 129B19:369; 153B10:212; 205B9:12, 32
 depletion, 121B32:640; 124B4:58; 148B4:50
 detrital fraction, 127/128B(1)39:691
 diabases, 129B18:348–349; 137/140B6:78; 9:107–116;
 17:200; 153B10:227; 19:364–365
 diopside, 125B27:451, 464; 147B6:118–119, 126;
 153B13:281–282
 elemental recycling, 195B4:10
 ferromanganese crusts, 144B44:753–755
 ferromanganese micronodules, 199B14:4
 fresh and altered dacite, 193B12:4
 gabbros, 147B1:8; 4:87; 6:126; 153B17:339–347;
 18:354–356, 360–361; 176B6:19–20; 179B(syn-
 thesis):15–19, 72–77, 114–116
 geochemistry, 126B32:489; 156B13:173; 195B1:11
 glass inclusions, 157B22:385–386, 390
 greenschist facies, 152B10:138
 heavy minerals, 127/128B(1)39:691
 hydrothermal alteration, 137/140B7:90–93; 209B1:9–
 10
 hydrothermal sediments, 145B27:421–424;
 158B17:219; 199B15:3, 11
 igneous rocks, 135B25:448–453; 55:890–894; 205B9:7
 intersite differences, 121B32:637
 iron-manganese-silica deposits, 193B9:26
 jasperoids, 193B9:5–7, 26
 Kerguelen archipelago lavas, 121B32:639, 641–642
 kinked pattern, 125B24:406
 Labrador Sea, 105B46:878
 lava, 144B30:531–532; 193B2:8, 23; 9:26
 lithology, 137/140B7:86; 185B1:11; 207B8:7–8, 21, 37
 mafic rocks, 125B24:413; 149B26:455, 459–463, 469
 magmatic vs. metamorphic origin, 137/140B9:109–
 110
 manganese minerals, 156B13:180
 mantle, 158B17:225
 mass accumulation rates, 129B32:594
 massive sulfides, 139B17:359
 metagabbro, 149B47:721; 173B10:17
 metamorphic clasts, 195B4:33
 metamorphism, 125B24:404–406; 161B28:375–376
 metasedimentary rocks, 152B10:135–137
 micropegmatitic patches, 147B11:216

- middle series magmas, 163B9:107–110
 mineral separates, 158B2:34–35
 mixing, 125B13:255; 127/128B(2)49:817;
 153B17:346; 18:359–361
 mobility, 115B8:91; 125B13:247–248; 38:632; 127/
 128B(2)58:911–916; 148B4:47–50; 183B15:9–10
 neodymium isotopes, 126B27:421–422
 Neogene, 167B19:235–238
 neutron absorption cross section, 149B37:597
 neutron activation analysis data, 119B39:722
 normalization, 134B9:162–169; 139B6:100–101;
 161B28:378–379; 199B14:14, 17
 occurrence, 127/128B(1)39:677–695; 42:719–737
 ocean–continent transition, 149B47:719
 organic and inorganic ligands, 127/128B(1)42:730
 origin of bimodal pattern, 147B6:128
 Paleocene/Eocene boundary, 199B16:3
 parent magmas, 127/128B(2)58:927–928
 pelagic/hemipelagic sediments, 126B32:497–499, 502
 peridotites, 125B28:491–495; 38:638; 153B14:291,
 302–303; 29:515–517; 209B1:17–18
 picrite, 152B28:340–341
 pillow breccias, 158B19:266
 plagioclase, 153B17:344
 pore water, 152B26:307–311; 193B4:4–7, 11
 post-Archean Australian shale, 191B4:17; 199B15:7–8;
 16:8
 processes controlling distribution, 127/128B(1)39:692
 profiles, 193B6:18
 pumice, 126B26:387–388
 reference materials, 147B30:493–496; 158B19:276
 rock/chondrite ratio, 195B4:25
 samples, 129B2:65, 74, 76; 3:81
 sand, 147B26:449
 Santonian ash, 121B21:441, 443
 saponite, 168B12:154
 schists, 195B4:8–9
 sediments, 129B2:56; 131B35:427–450; 161B2:28, 32–
 33; 180B6:5–6, 10–13, 16–24; 191B4:5–7, 24;
 199B14:5
 semimassive sulfides, 193B10:11
 serpentinites, 149B31:534–535; 195B4:7
 silica, 127/128B(1)39:682
 siliceous deposits, 129B2:42
 silicics, 135B40:656–657; 141B27:342–345
 sills, 139B6:86
 Site 786, 125B7:123–124; 12:222, 226
 Site 794, 127/128B(1)39:682–684, 688; 58:912–913,
 916–919, 922; 83:1339
 Site 795, 127/128B(1)39:683–688; 58:913–914, 918,
 924; 83:1338–1339
 Site 796, 127/128B(1)39:685
 Site 797, 127/128B(1)39:685, 688–691; 58:914–916,
 920–921, 925; 83:1339–1340
 Site 799, 127/128B(1)42:734
 Site 801, 129B2:75
 Site 802, 129B2:76
 slab component, 126B31:483
 sources in sediment column, 127/128B(1)42:729
 spidergrams, 127/128B(2)47:783; 149B29:511–515
 subduction component, 125B12:229, 231; 13:258;
 38:652–653
 Sulu Sea, 124B19:267
 temporal distribution, 126B30:461; 31:480
 tephra, 126B30:461, 464
 terminology, 127/128B(1)39:681–682
 terrigenous sedimentation, 127/128B(1)39:691;
 42:732; 154B31:470–471
 U-shaped patterns, 125B28:502; 39:650
 ultramafic rocks, 147B4:83
 variation diagrams, 158B17:219
 volcanic ash, 121A13:474; 151B17:323; 152B6:72, 77–
 79; 201B19:12–13, 30–31
 volcanic glass, 127/128B(2)87:1387; 135B3:34–39;
 53:851–853; 152B5:60–64
 volcanic pebbles, 161B44:569
 volcanic rocks, 134B19:383–387; 141B27:334–341;
 152B36:431–435; 161B27:364–369; 163B7:67–
 74; 8:82–90
 volcanoclastics, 126B31:478–479, 482; 134B9:152–
 155, 164; 135B52:838; 210B9:69
 vs. alteration percentage, 137/140B6:71
 vs. depth, 136B6:80–83; 137/140B6:68; 139B6:97;
 148B37:464; 161B2:32–34; 176A3:53, 178
 vs. loss on ignition, 127/128B(2)58:919, 921
 vs. magnesium number, 173B10:14–16
 vs. Mesozoic Southern Hemisphere, 119B16:317
 vs. strontium, 173B10:14–16
 vs. titanium, 173B10:14–16
 vs. zirconium, 137/140B6:69; 173B10:14–16
 websterite, 153B16:329
 xenoliths, 193B6:4
 X-ray fluorescence data, 152B35:428
 zigzag patterns, 126B32:498
 zonation, 179B(synthesis):80
 rare earths, bulk rock, plutonic and basaltic rocks,
 153B10:227–231
 rare earths, chondrite-normalized
 amphiboles and clinopyroxene, 147B3:65–68
 apatite and zircon, 147B3:72
 basalts, 129B19:382, 387; 135B29:523–526;
 141B27:339; 142B2:13; 147B9:181; 151B19:361
 diabase and basalt flows, 129B18:358
 dropstones, 145B12:196, 199
 gabbros, 147B1:11; 176B6:59
 geochemistry, 119B16:315; 121B30:576, 588–590;
 32:621–622, 634–638; 123B8:180; 136B9:112;
 139B6:89, 99; 17:366
 igneous rocks, 205B9:28
 in rocks and secondary minerals, 148B10:142
 lava clasts, 143B15:252, 271
 metamorphosed cumulate gabbros, 149B27:483, 488
 peridotites, 149B23:423–424
 rhyolites, 135B38:640; 141B27:346
 samples, 129B2:66
 sediments, 147B26:445, 448
 volcanic ash, 145B23:371, 377; 44:665, 669
 rare earths, heavy (HREE), andesites, 135B24:392–406
 rare earths, light (LREE)
 basalts, 135B38:629–630
 cerium anomaly, 127/128B(1)39:693–694

- depletion, 126B32:479, 483
- enrichment, 127/128B(1)42:725
- fractionation, 129B18:358
- occurrence, 127/128B(1)42:730
- peridotites, 125B28:498–500
- sediments, 129B2:56
- rare earths, middle elements, andesites, 135B24:392–406
- rare earths, N-MORB normalized, basalts, 147B9:182
- rare earths, shale-normalized
 - ferromanganese crusts, 144B44:756–758
 - lithology, 123B8:180
 - tholeiitic lavas, 129B18:348–349
- rate of penetration logs. *See* penetration rate logs
- Rayleigh fractionation
 - basalts, 135B37:623
 - geochemistry, 135B30:535
 - See also* isotopes
- Rayleigh number, permeability, 139B42:673–674
- Rayleigh plots, pore water, 201B6:17, 21
- Rayleigh waves. *See* pseudo-Rayleigh waves
- reaction coronas
 - hydrothermal alteration, 209A10:13
 - photograph, 209A3:87
 - photomicrograph, 209A10:85
- reaction fronts, décollement, 205B6:8–9, 13–14
- reaction halos, photograph, 201A6:41
- reaction rims
 - lithology, 209A6:6–7
 - photograph, 166A10:304
 - photomicrograph, 209A6:56, 60
 - sediments, 152A11:236–237
 - See also* alteration rims
- reaction texture. *See* textures, reaction
- reaction zones
 - chimneys, 193B1:35
 - composition, 148B8:108
 - geochemistry, 139B20:406
 - hydrothermal alteration, 139B11:231–247
 - metamorphism, 161B18:252–254
 - mineral assemblages, 161B18:254; 20:284, 287–288
 - mixing, 148B9:118
 - origin, 161B18:256–257
 - photograph, 161A6:231–232; 209A9:59
 - photomicrograph, 161A6:239; 161B19:277; 20:285–287
 - pore water, 195A4:34–36
 - secondary minerals, 148B6:77, 80–81
 - sediments and volcanics, 152B25:304
- reagent volume, vs. silica, 199A6:13
- rebound
 - consolidation coefficient, 133B41:619
 - core expansion, 133B43:638–639
 - core-log comparison, 159B23:243–244
 - hydraulic processes, 199B12:3
 - porosity, 130B41:683, 687–694; 199B12:3–5
 - uploading curves, 165B10:178–179
 - See also* coefficient of rebound; rebound coefficients
- rebound coefficients
 - composite depths, 199B12:1–21
 - vs. void ratio, 199B12:15
- recharge, fluid circulation, 166A2:20–22
- recompression index
 - sediments, 204B12:7–8
 - vs. void ratios, 150B21:382
 - See also* compression
- reconsolidation, uniaxial, sediments, 131B20:247–260
- reconstruction, cross sections, 204B2:28
- recovery efficiency (RE), vs. pore system, 123B6:144
- recovery rates, pillow texture, 203A3:12–13, 29–30
- recrystallization
 - alteration, 137/140B15:168–169; 147B15:296–298; 148B34:421; 163A5:60–64
 - amphibolite clasts, 173A7:190–191
 - anorthosite veins, 173A6:141, 143
 - aragonite, 166A11:365
 - aragonite–calcite transition, 133B31:478–479
 - augite, 153B9:158–159
 - basalts, 206A3:59–64
 - basement, 173A1:13
 - biogenic calcite, 162A3:81
 - biogenic carbonates, 166A9:254; 174A_A5:171
 - breccia, 149A6:188–189
 - calcite, 130A12:549; 130B33:561–572; 154A8:359; 154B34:491–499; 162A5:158; 165B7:133; 180A9:40–41; 194A4:21–22; 202A12:16
 - carbonates, 114B39:722; 133B32:482–487; 35:519; 139B14:327–328; 165B14:228–229; 181A5:21; 7:38; 8:31; 182A1:23–24; 5:21; 6:29; 7:22–23; 9:20; 10:15–16; 182B1:10; 189A3:44; 4:21; 192B3:4–7; 194A5:17; 198A1:61; 207A7:29
 - celestite precipitation, 101B24:375
 - cementation, 133B21:295–296
 - chlorite-mica stack thermal history, 159B10:97
 - clasts, 173A4:199–201
 - conglomeratic chalk, 144B52:924
 - convection, 101B24:377
 - core image, 206B5:11
 - crack-seal veins, 148B19:284–285
 - deformation, 209A6:20
 - deposition, 160A6:130–132
 - diagenesis, 124B14:205–209; 160A7:188; 10:366; 160B33:423–424; 45:581, 583; 161A5:146; 7:319; 166B17:190–191; 174A_A4:123
 - dolomicrite, 175B15:5–6
 - downhole distribution, 176A3:33–34
 - electron micrograph, 170B3:25
 - estimates, 101B24:371–374
 - exclusion, 166B9:106–107
 - fish apatite, 151B33:587
 - folds, 173A6:143–144; 206A3:75
 - foraminifers, 207A4:15
 - gabbros, 153B6:101–105, 109–113; 176A1:14–16; 176B6:6–7
 - geochemistry, 137/140B14:163–165; 171B_A6:287
 - gneissic textures, 179A4:52
 - harzburgites, 147B15:293; 153B2:33–34
 - hydrothermal alteration, 179A4:42–44; 210A3:56–57
 - hydrothermal deposits, 129B22:419
 - ichthyoliths, 145B26:403–404
 - isotopic profiles, 148B5:63–64
 - lava ponds, 206B5:1–32

- lithology, 151A10:322–326; 161A5:119; 165A6:304;
 176A3:19; 177A4:6–7; 179A2:5; 180A8:11–12;
 183A6:8; 190A4:8; 192A3:11–12; 194A5:4–6;
 7:6–7; 200A3:22–25; 209A5:4–34; 9:3–7
 massive sulfides, 139B17:358
 meta-anorthosite, 173A6:131; 7:191
 metamorphism, 153A7:267
 microstructures, 176A3:63–64
 mineralogy, 153B5:78–93
 nannofossils, 168B4:47–48
 orthopyroxenites, 209A3:7–8
 oxide minerals, 118B4:91–93
 oxygen fugacity, 118B4:91
 oxygen isotopes, 166B8:91–98; 192B2:5
 palynomorphs, 129B11:223
 peridotites, 149A6:186; 149B22:405–406
 permeability, 170B3:25
 petrography, 187A8:7
 photograph, 143B13:225; 144A10:352; 153A4:128,
 159–160, 166; 6:223, 243; 153B3:46; 6:118–121;
 7:137–141; 8:147; 158A7:74, 123; 158B15:198,
 200; 165B7:136; 169A3:100; 179A4:139–140;
 185A3:78–83; 187A6:27; 205A6:32; 206A1:74;
 3:167, 242, 265
 photomicrograph, 160B37:473; 45:592; 161A6:243;
 169A3:100; 173A7:201; 9:283, 289; 176A3:207;
 179A4:132–133, 137–138; 183A7:128–129;
 185A4:84; 194A4:49; 200A3:102; 206A3:270;
 206B5:12–15; 209A1:114–115; 3:63–65, 69, 100;
 5:57–58, 112, 117–118; 6:72–76, 84–88; 9:45–
 47, 74, 76; 210B9:54
 plagioclases, 153B9:158–159
 planktonic foraminifers, 192A5:11
 pore water, 133B48:711–712; 138A(1)10:228;
 161A9:404; 194A3:16; 195A4:34–36
 porosity, 133B45:671
 quartz gabbros, 180B3:5–6
 quartz-rich veins, 173A6:147–148
 quartz sandstone, 152B10:131–132
 radiolarians, 200B4:4
 scanning electron micrograph, 159B16:156
 sediment transition to basalt, 169A5:210–211
 sediments, 139A6:203–213; 139B2:41–43;
 143B12:177; 172A6:288; 182A1:15
 serpentinization, 153B3:39–42
 shear zones, 153B7:130–132
 silica, 185B10:1–11
 sills, 139B6:94
 Site 699, 114B39:721–722
 Site 700, 114B34:651, 654; 39:722
 Site 701, 114B39:722
 Site 702, 114A9:498–499; 114B39:721–722
 Site 704, 114B39:722
 Site 794, 128A3:99
 Site 799, 128A5:303, 307
 strain localization, 137/140B19:226, 228
 strontium, 171B_B2:6
 sulfide mineralization, 169A3:71; 169B10:8
 Sulu Sea, 124A11:239
 summary, 189A1:43
 temperature, 118B4:91
 textures, 158B15:194–195; 206B5:12–15
 theoretical rate vs. depth, 133B32:487
 tonalite gneiss, 173A6:131, 141
 veins, 159A6:186; 180A7:13
See also alteration; crystallization; olivine; orthopy-
 roxene; plagioclase
 recrystallization, carbonate, silica, 113B11:154
 recrystallization, dynamic
 gabbros, 153B8:143–153
 metagabbro, 149B47:721
 recrystallization, subsolidus
 pyrite-pyrrhotite-chalcopyrite assemblages,
 118B4:94–95
 temperatures, 118B4:94–95
 recrystallization, syntectonic, elastic strain relief,
 118B26:506
 recumbent folds. *See* folds, recumbent
 recrystallizing
 crust, 185A1:28–29
 glauconite, 150X_B15:193
 nutrients, 199B20:1–33
 palynomorphs, 188B2:7–8; 3:9–10, 13
 red algae
 lithology, 194A7:6, 9, 14; 9:5–8; 210A3:22–25, 28
 photograph, 171B_A6:261–262; 194A7:52–56, 70, 72
 photomicrograph, 194A4:46, 51, 57; 7:59, 62, 75;
 8:42; 9:37; 202A7:47; 210A3:149
 turbidites, 166B5:57–60
See also Rhodophyta
 red algae, coralline
 lithology, 197A5:5
 photomicrograph, 197A5:37
 red-algal *Amphistegina* facies, assemblages, 133B4:58, 60
 redbeds
 blocking temperature, 119B45:803–804
 clay interbasaltic horizons, 143A7:222–223
 depositional environment, 119B45:797
 Flagstone Bench Formation, 119B3:54
 geology, 188A1:8–9
 lithology, 119B3:47; 172A3:39–40; 4:84–92
 magnetic properties, 119B45:797–806
 paleolatitude, 119B45:795, 806
 Permian Amery group correlation, 119B45:797, 804
 Prydz Bay, 119B3:53
 Site 740, 119B19:376, 383
See also clays; lutite
 red/blue spectral ratio
 lithology, 175A3:57; 4:92; 5:119–120; 6:155; 7:179;
 8:206; 9:237, 241; 13:395, 397; 15:460, 465;
 23:571–572; 198A5:14; 199A12:12
 magnetic susceptibility, 198A5:43
 reflectance, 155A23:700
 vs. depth, 175A3:65; 4:103–104; 5:120–121, 130–131;
 6:158, 166, 168; 8:213–214; 9:244; 23:574;
 199A12:50
 red clay, Eocene, 149B45:695
 red clay province, reflections, 200A1:17–18
 red parameter, vs. depth, 184A6:27; 7:43; 8:15; 9:51;
 184B9:21
 red sediments. *See* sediments, red
 reddish brown zone, oxidation halos, 168B10:130–131

rededposition

biostratigraphy, 129B11:235; 141B15:215; 149B2:29;
8:204–207
blocks, 205A6:9
carbonates, 130B44:738; 166A2:16
lithology, 144A4:116–117; 154A4:62–64; 6:237–238;
155A17:508–509; 170A3:60–61; 210A3:49–50,
59
mass balance, 157A1:7–8
nannofossil ooze, 135B52:832–833
parallel laminations, 205A4:20
photograph, 155A17:508; 205A5:54
sedimentation, 135B7:116; 154A9:426–427
sediments, 145B38:583–584, 586; 149B13:299
vs. thickness of sediments, 133A(1)16:692
See also reworking
Redfield ratio, sediments, 205A6:19
redox
burial at Paleocene/Eocene boundary, 199B23:5
clay geochemistry, 184B12:10, 24
diagenesis, 165A4:164; 165B20:308; 167B23:265–266;
174A_B(synthesis):10
hydrothermal systems, 158B7:98–99
lithology, 172A5:164–174; 198A8:11–12; 10:8–9
microbial metabolites, 204B15:9–10
organic matter, 165B19:288–291; 185A4:27
parental magmas, 157B22:389–390
pathways, 165A5:257
porcellanite, 198A9:15–17
pore water, 167B32:343; 177A5:21; 6:14; 7:15; 8:17;
9:14
profiles, 161A6:236, 238
provenance of trace elements, 160B16:203–204
sapropels, 160B26:317
sediments, 149B14:301–304; 172B2:1–11; 177A1:16–
17; 192A3:18–21; 202B8:7; 210A3:98; 210B10:5
siliceous rocks, 198B17:9–10
threshold, 202B1:4
See also oxidation; oxidation fronts; paleoredox; re-
duction; sulfate reduction
redox banding
sediments, 138A(1)9:131
See also color banding; compositional banding
redox boundary
lithology, 207A4:5–9
photograph, 144B19:396
redox fronts, photograph, 157B32:564; 192A3:61, 72
redox gradients
phosphatic cements, 133B36:532
See also sulfate reduction
redox patches, lithology, 167A(1)15:437
reducing zone
alteration, 197A4:21–22
photograph, 197A4:74–75
See also oxidizing zone/reducing zone contact
reduction
alteration, 168B10:119–136
authigenic marine carbonates, 112B7:100–101
biogenic sediments, 201B14:9
biosphere, 201B6:1–21
black shale, 207A4:24–26

carbon dioxide, 172B(overview):2–5; 175A21:558–559
carbonates, 144B51:908–911; 151B24:423–429;
182A1:15
diagenesis, 168A4:80
green clay, 184B15:5–8
hydrocarbons, 131B15:190
iron oxides, 155B14:252
iron, 161A7:320–321
Lima Basin, 112B7:103
lithology, 181A9:8; 207B8:10; 9:8; 210A3:29
magnetic susceptibility, 115B41:765, 767
magnetite, 164A9:294
manganese, 185B3:1–11
methane, 151A12:389–391; 190A4:18, 64
microbial activity, 168A5:135–137; 201A1:14–16
Miocene–late Miocene interval, 165A8:381–384
organic matter, 149B14:304; 159A5:109; 165A4:164;
202A8:23; 207A8:26–28
photomicrograph, 197A4:57
pore water, 131B13:167; 150X_B24:338–339;
151A6:129; 162A10:361; 177A3:12; 184A6:13–
14; 201B1:8; 208A4:19–20
precipitating factors, 115B41:755–756
remineralization, 155B30:503
sedimentation rates, 130A10:513
sediments, 135B9:148; 157A1:8; 157B38:631–633;
172B2:4–6; 177A6:15
suboxic diagenesis, 178A8:13
sulfate, 162A3:75–76; 4:115; 5:157; 6:192–193; 7:245–
246
sulfides, 139A6:228–229
sulfur, 160B20:253–257; 23:289
See also alteration; carbon dioxide reduction zone; di-
agenesis; hydrothermal activity; manganese re-
duction; oxidation; redox; sulfate reduction;
sulfate reduction zone
reduction, microbial
magnetite, 130B31:535
sulfate, 130A12:549
vs. magnetization intensity, 130A17:318, 320
reduction halos
lithology, 171B_A4:104; 180A12:5
photograph, 167A(1)15:438
turbidites, 135B10:151–162; 52:832
See also halos
reduction rates, biogeochemical flux model, 201B1:27
reduction zones
gases, 131A6:140, 143
organic matter, 161A5:146
pore water, 201A1:24, 28
reduction zones, surface, residence time, 133B49:732
redwood
vs. age, 167B17:223–226; 20:241–243
vs. depth, 167B11:174; 17:220–222
REE. *See* rare earths
reef flats, lithofacies, 144B17:340–359
reef mounds
seismic stratigraphy, 182A2:4; 182B1:9–10, 13–15
stable isotopes, 182B13:1–29
See also biogenic mounds; carbonate platforms;
mound complexes

- reef terraces, Quaternary, 134A3:35–38
reefs
 aggradation, 133B24:333–340
 amphisteginids, 129B12:233–234
 biogenic material, 129B5:148
 carbonates, 124B11:167, 169; 133A(1)17:779;
 144B16:311–335; 160B33:433
 deep seeding in Miocene–Pliocene, 160B38:499
 deformation, 159B8:77
 deposition, 133A(1)5:136–138; 160B33:433–435
 diagenesis, 144B46:796–803
 emergence vertical tectonics, 134A3:40–41
 environment, 194B5:16–17
 evolution, 133A(1)1:16–22; 133B25:362–363; 26:365–
 378; 51:759–770
 foraminiferal paleoenvironment, 133B26:371
 Great Barrier Reef, 133B16:221–222
 growth, 133A(1)9:310; 133B15:199; 19:263–280
 Lau Basin, 135A(1)4:91
 lithofacies, 133A(1)5:149–151; 144B14:277–282;
 194A1:5–6
 lithospheric flexure, 134B3:49
 Messinian, 161B43:543–546
 Neogene, 133A(1)10:391
 oscillations, 133B49:746
 paleoecology, 133B4:59–60
 paleoenvironment, 160B38:492–493
 paleogeography, 161B43:548
 paleotopography, 159B11:106
 petrology, 144B24:439–446
 physiography, 144B33:561–583
 platform drowning, 143A1:7–8
 Pleistocene initiation, 133B28:447–453
 sedimentation, 133B4:51–66
 temporal distribution, 161B43:546
 transform faults, 159A9:305–306
 See also atolls; barrier reefs; bioherms; carbonate plat-
 forms; coral reefs; cyclostomes; guyots; reef ter-
 races; seamounts
reefs, buried
 Espiritu Santo, 134B4:66–67
 evolution, 133A(1)1:17
 transects, 171B_A1:5–6
reefs, fringing, carbonates, 144B16:317–319
reefs, rudist, Cretaceous, 144B24:439–446
reentry cones, jet-in test, 186A4:5–9
reentry holes, tools, 139A3:43–53
reevesite, Site 778, 125B19:355
reference samples
 geochemistry, 137/140B6:79; 32:353–355
 neutron absorption cross section, 149B37:598
 ultramafic rocks, 147B30:493–496
reference sections, stratigraphy, 202A1:14–16
reference sites, Jurassic basement, 185A1:15–19
reflectance
 average first-derivative, 162B19:264
 carbonate content, 177B6:3–4
 carbonate dissolution, 177B(synthesis):16–17
 carbonate proxy, 154A9:422; 181B1:29; 4:1–50
 clay mineralogy, 184B22:9
 color, 138A(1)4:67–77; 175A23:572–576
 composite depth, 160A5:106, 108; 7:182–185; 8:242–
 246; 9:310; 10:362–363; 14:469, 484; 160B4:39,
 46–50; 177A4:8–9; 178B5:8, 35; 181A4:17;
 208A6:38; 8:31
 composite section, 154A9:354; 175A3:70–72; 4:99;
 5:128–129; 6:160–161; 9:254–255; 10:292, 294;
 11:323–324; 12:364, 366; 13:406–408; 14:442–
 443; 182A4:26–29; 188B12:14–15
 correlation, 160A5:95; 8:227; 9:296; 172A3:47; 5:188–
 189, 194–201; 184A4:41–43; 5:36–38; 6:25–26;
 7:39–42; 8:14; 9:46–50; 184B22:9
 Cretaceous/Tertiary boundary, 198A5:50; 208B1:39
 cyclicality, 154A9:422, 424; 154B5:102, 104; 23:349–
 356; 184A6:53; 198A3:15–17; 207B2:8–10;
 208A3:34
 deposition, 202A8:12–13
 Eocene/Oligocene boundary, 198A1:118; 5:46
 Eocene–Oligocene interval, 208A1:102–103
 interglacial stages, 175A5:120
 lithology, 138A(1)10:199–204; 12:340–344; (2)17:975,
 980; 154A9:421–422; 155A6:94–95; 7:131;
 8:183; 9:207–208; 10:249; 11:281; 12:336–338;
 13:393–394; 14:417; 15:444–445; 16:471;
 17:512; 20:603; 21:645; 22:663–664; 160A4:59;
 6:131; 7:164; 14:470; 162A3:61, 64–65; 5:149,
 152; 6:181, 184; 7:227; 164A7:179–182; 9:281–
 284; 165A5:241; 166A9:242; 172A3:38; 4:83–92;
 5:164–165, 168–174; 6:255–258; 175A4:92;
 5:119–120; 6:155; 8:206; 9:237, 241; 11:317;
 12:351; 13:395, 397; 14:434; 15:460, 465;
 21:570–571; 181A1:17–18; 186A5:16; 188B12:7;
 189A3:12; 194A3:5–7; 198A3:12–13; 199A8:12–
 13; 9:8; 10:14; 11:22; 12:12; 13:19; 15:10;
 199B2:5, 15–19, 20–25, 33–34; 201A6:10–11;
 10:9; 12:8; 204A4:7; 9:7; 206A3:22–26;
 208A7:5–9
 marine isotopic stages, 177A1:27
 maturation, 180B10:6
 middle Eocene, 198A5:12, 51
 mid-Paleocene biotic event, 208A1:98
 Miocene–lower Pliocene interval, 198B14:2–3
 multisensor track records, 167B32:362
 Neogene, 198B1:17
 obliquity, 175A22:564; 198B22:5
 ooze, 138A(2)13:683–685; 14:741
 opal, 167A(1)10:264
 organic matter, 131B30:382–383; 164B5:51; 180B10:5
 oxidized sediments, 138A(2)18:1028–1029
 paleoceanographic proxies, 184A1:13
 Paleocene/Eocene boundary, 198A1:129; 5:47
 Paleocene/Eocene Thermal Maximum, 198A5:47
 percentage, 156A6:114; 188B7:49
 percentage in “red” band, 138B18:415
 Pliocene–Pleistocene interval, 198A3:79
 power spectra, 198B22:20
 precession age model, 175A22:566
 range, 181B4:10
 remanent magnetization, 160A7:179
 sapropels, 160A5:91–92
 sedimentation, 154A8:391; 167A(1)6:141, 143; 8:187,
 190–191

- sediments, 138A(1)4:67-77; 9:130; 10:216-217, 220; 11:280; (2)16:899, 902; 19:1066-1067; 155A23:697-700; 156A6:105; 162B19:259-264; 167A(1)4:72, 77; 5:108-109; 6:147-148; 7:165, 169-170; 8:195-196; 9:229-230, 233-234; 10:256-259, 263-264; 11:293-294, 298; 12:325, 328, 333-334; 13:366-367, 370-371; 14:400, 405, 410-411; 15:442, 447, 451; 16:473, 477; 170A3:86-87; 4:151; 5:182; 7:246-247; 171B_A4:136-139; 172A3:63-65; 5:232; 175A23:569-577; 177A1:12, 17; 3:14-15; 6:17; 9:15-16; 178B21:8-9, 22; 25:20; 184A4:25; 5:21; 6:16; 188B7:47; 12:24-27; 194A5:22; 6:20-21; 8:22; 9:21; 198A4:24
- Sites 1218-1219 correlation, 199B2:26
- spectral data, 138B18:414-416; 155B10:193-215; 165A3:61; 178B21:6
- spectrophotometry, 175A3:57; 10:282-283
- spliced records, 182A4:60-61; 202A3:21; 4:5, 27; 5:26; 7:33-37; 8:36, 58; 9:42; 10:42; 11:35; 12:45
- upper Miocene, 198A5:45
- vitronite, 160B50:668; 180B10:11-12, 20-21
- vs. age, 154B5:110-114; 162B19:262-263; 167A(1)4:78; 5:109; 6:147; 7:169; 8:203; 9:263; 12:338; 13:369; 14:413; 15:455; 175A17:526; 181A7:83-85, 89; 4:61; 8:50; 198A3:79; 4:50; 199A1:76
- vs. carbonate content, 162A3:66; 6:188; 162B14:199; 19:261; 165A3:61; 175A3:66; 4:92; 5:122; 6:159; 7:182; 9:245; 22:563; 23:572; 181A4:29; 7:60; 8:49; 183B7:15; 198A3:61; 198B14:6; 208A3:38
- vs. chromaticity, 208A3:38
- vs. composite depth, 138B3:34, 39; 178A7:62, 68-69
- vs. depth, 138A(1)4:72; 10:202; 11:276-281; 12:342-345; (2)13:686, 689-690; 14:750-752, 755, 758; 15:818-820, 823; 16:904-906; 17:976-977, 994; 18:1031, 1033; 19:1070, 1072; 155A23:699; 156A6:111; 160A5:111; 7:187; 8:251; 9:311; 10:364; 14:484; 161A4:82; 5:144; 6:219; 162A3:59, 62-66; 4:100-105; 5:153; 6:185; 7:238; 8:265; 9:300; 10:357; 165A5:238, 243; 6:303; 166A7:157; 8:177, 180, 187; 9:242, 248; 10:298, 319-320; 167A(1)4:75, 83; 5:107, 115; 6:144, 154; 7:167; 8:201, 220; 9:231, 236; 10:260, 263, 269; 11:300, 308; 12:335; 13:367; 14:409, 418; 15:451, 458; 16:476, 483; 169S_A2:37, 44; 171B_A4:139; 172A4:83, 87, 90, 92; 5:165, 170, 172, 235; 172B7:16, 22, 28, 32, 35; 175A3:74-75; 4:91-92, 103-104; 5:120-121, 130-131; 6:157-158, 166, 168; 7:181-182; 8:209, 213-214; 9:244; 10:282, 295-296; 11:317, 325; 12:352, 367, 369; 13:397-398, 408-412; 14:439, 444-447; 15:465; 23:570; 177A1:45, 51; 3:23, 27, 39-40; 4:39, 41-42; 5:41, 56-59; 6:35, 37, 47-50; 7:28, 36-39; 8:41, 44, 53-56; 9:33, 36, 43; 177B(synthesis):34; 178B5:26; 181A4:36-39; 6:68-71; 7:87; 8:50, 68-73; 9:34, 42-47; 182A4:58-60; 6:61-64; 8:47-49; 9:39; 11:27-28; 12:40-42; 182B14:8; 184A1:55-65; 4:66; 5:63; 6:43; 7:62; 8:28; 9:53, 74; 186A4:76, 91; 5:48; 186B8:15; 188B7:19-23; 13:27; 189A3:86; 5:86; 6:99; 7:78-79; 192A1:43, 60, 65-66; 3:49; 4:38; 5:35; 6:39-40; 194A3:30; 6:62-63; 195A1:52; 3:67; 4:73; 198A1:101-102, 106, 110, 116, 120, 125; 3:55, 58, 61-63, 67-71, 80; 4:36, 39, 43, 49; 5:38, 42-51; 6:33-36, 42-43; 7:33, 37-40; 8:30, 33-37; 9:41-42; 199A8:31, 33; 9:23; 10:33-35; 11:59; 12:50, 63-64; 13:47; 14:34; 15:25-26; 199B24:15; 201A6:38, 40; 7:60; 202A6:29; 13:42; 204A4:51; 9:43; 206A3:121-122; 207A7:54; 208A3:31, 33; 4:65
- vs. gamma rays, 194A6:62
- vs. lithology, 138A(2)15:814; 165A3:60-61; 175A23:569-573
- vs. magnetic susceptibility, 138A(1)4:75; 194A6:63
- vs. opal, 198B14:6
- vs. organic carbon, 175A3:66; 4:92; 6:159; 7:182; 9:245; 23:572
- vs. oxygen isotopes, 172B9:7-9; 182A8:50
- vs. sediment age, 138A(1)10:257
- vs. sediment chemistry, 172B(overview):3
- vs. total organic carbon, 175A5:122
- vs. total sulfur, 175A5:122
- vs. wavelength, 167A(1)4:83; 5:115; 170A3:93; 5:188; 7:247; 206B12:9
- wavenumber, 178B32:29
- See also brightness; chromaticity; color; color bands; lightness; spectrophotometry
- reflectance, blue
- lithology, 152B1:14-16
- vs. age, 177B6:16-17
- vs. carbonate content, 177A5:59; 177B6:15-17
- vs. depth, 177A3:25; 4:53-54; 8:55-56; 93; 177B6:15
- vs. red reflectance, 177B6:14
- reflectance, blue and red
- sediments, 177A4:19-20
- vs. depth, 177A1:47
- reflectance, diffuse spectral
- brightness, 188B13:9-11
- carbonate stratigraphy, 177B6:1-24
- correlation with core photos, 188B12:1-27
- sediments, 177A4:19-20; 24-25
- reflectance, near-infrared/red ratio, 138A(2)16:912; 19:1073
- reflectance, red
- vs. blue reflectance, 177B6:14
- vs. carbonate content, 177A5:59
- vs. depth, 177A4:27, 55-56; 5:33, 55-56; 9:43; 177B9:9, 11, 17-18
- reflectance, red/blue ratio, vs. depth, 138A(2)17:994; 18:1044
- reflectance, spectral
- calcite, 199B11:9
- continental rise, 178B21:1-22
- first derivative, 202A6:38; 9:53; 10:51; 11:40; 12:51
- lithology, 202A1:11-12
- sediments, 177B6:23
- reflectance, total
- lithology, 175A23:572
- spectral analysis, 175A5:574
- vs. age, 75A23:577

- vs. depth, 175A10:283; 11:325; 13:398; 15:465; 23:574
- vs. meters composite depth, 175A23:576
- vs. obliquity and eccentricity, 198A1:139
- reflectance/carbonate content ratio, lithology, 181A9:8
- reflectance percentage
 - composite section, 154A4:79; 6:244–245; 7:296–297
 - linear regression, 154A9:423; 154B31:471–472
 - lithology, 154A5:157
 - vs. age, 154A9:425–426
 - vs. carbonate content, 154A4:71, 105, 118; 5:189; 9:424; 154B25:378
 - vs. depth, 154A4:62–67, 72, 90–91, 100–101, 105, 118; 5:158–161, 170–171, 180–181, 185, 188, 215; 154B6:236–237, 240, 250–251, 254–255, 257; 7:286–289, 298–299, 303, 305; 8:342–346, 360–361, 364–365, 390
- See also* reflectance
- reflectance spectroscopy, nonintrusive, deep-sea sediments, 138B18:413–427
- reflectance stratigraphy, Cretaceous–Cenozoic interval, 189B10:6–7
- reflectancy age model, Milankovitch Chron, 175A22:565
- reflection. *See* brown/purple/orange high-amplitude reflection packets (HARPs)
- reflective index, basaltic glasses, 136B7:88
- reflectivity
 - calibration, 188B12:18–19
 - chert, 136B8:99–104
 - comparison with magnetic susceptibility, 189A3:71, 73
 - diagenesis, 156B9:134
 - lithology, 201A7:11
 - sensitivity test vs. depth, 188B12:16–17
 - vs. depth, 154A9:440; 189A3:71, 73; 201B8:12
 - See also* chromaticity; lightness
- refractive indexes
 - glass shards, 135A(1)4:107; 11:597
 - sediment sources, 135B3:26
 - silica, 135A(1)4:108; 5:199; 6:258; 7:304; 8:354; 9:416; 10:514; 11:596
 - tephra, 186B9:8–9
- refractory elements, Site 798, 127/128B(1)41:706
- refugia
 - cold-adapted vegetation index, 155B23:385–388
 - paleoclimatology, 155B25:416
- regolith
 - iron matrix, 133B37:536
 - lithology, 133A(1)17:779; 183A6:10
 - photograph, 183A6:80
 - See also* basalts
- regression analysis models
 - calcium carbonate, 138B2:28–29
 - linear model for water content, 134B30:539–541
 - terrigenous component, 154B31:466–467, 469–470
- regression coefficient logs, vs. depth, 166A6:104
- regression plots, mean grain size, 168B6:69–84
- regressions
 - coastal plains, 150A1:5–9
 - Holocene, 133B22:308–309
 - lithology, 150X_B2:16–22
 - Oligocene, 150X_B15:190–205
 - Oligocene–Miocene interval, 149B4:118
 - palynomorphs, 174AXS_A2:35
 - Site 748, 120B(1)20:316
 - See also* changes of level; glacioeustasy; sea level changes; transgressions
- reheating
 - carbonate compensation depth, 192A3:16
 - carbonate platforms, 144B52:932
- relaxation, photograph, 186B17:11
- relaxation time, vs. temperature, 141B5:74
- relict bands, photomicrograph, 197A4:64
- relict crystals, X-ray fluorescence data, 161A6:237
- relict grains, photomicrograph, 161A6:244; 180A7:37
- relict minerals
 - metamorphism, 195A3:53–54
 - photomicrograph, 209A9:61, 77; 10:93–95
 - serpentinites, 209A7:8–9
- relict zones, hydrothermal fields, 158A1:7
- relief maps, Pacific Ocean N, 198A1:91
- remagnetization
 - cores, 173B11:6–8
 - pyrite, 127A5:203
 - remanence, 186A4:29–30; 203B1:6
 - rocks, 127A5:203; 7:359; 127/128B(2)59:938
 - sediments, 143B24:392–393
 - vs. temperature, 170A5:173
- remagnetization, chemical, minerals, 158B25:349–350
- remagnetization, pervasive radial, cores, 161B11:135
- remanence ratio, vs. depth, 184B1:7
- remanent anomaly logs
 - vs. depth, 178B31:15–16, 18–19
 - vs. induced anomaly logs, 178B31:17
- remanent coercivity, hysteresis, 173B8:8
- remanent coercivity/coercivity field, vs. saturation remanence/saturation magnetization, 198B20:11
- remanent magnetic intensity logs, vs. depth, 180A5:95
- remanent magnetization
 - acquisition curves, 135A(1)4:117
 - anisotropy vs. magnetic susceptibility anisotropy, 147B23:401
 - archive-half data, 209A5:184–185; 6:127; 7:107, 130–132; 9:31, 112–114, 116; 10:164
 - basalts, 144B37:636, 638, 644; 148B15:217–226; 163B4:37–38; 192A3:35; 197A1:57–58, 65–67, 74–76; 3:115–117; 4:83–84, 89–92
 - basement units, 183A9:37
 - carbonates, 133B50:749–753; 143B25:395–398; 166B4:35–43; 11:124–125
 - Cenozoic, 189A1:38
 - chemical treatment, 186A4:34–35
 - conglomerate, 197A3:120
 - continuous measurements, 209A3:42–43; 6:33–34; 7:28–29; 9:23; 10:31–34
 - decrease with depth, 133B40:583–584
 - demagnetization, 195A3:28–29; 209A3:149
 - diabases, 137/140B21:247; 197A4:93
 - direction, 139B31:540–541; 147A4:147–148; 209A5:43–45; 6:34–35; 7:29–31; 10:35–36
 - discrete samples, 180A7:20–21; 10:69; 182A4:24–26; 5:15–16; 6:23; 8:20; 12:17; 183A7:202;

- 189A3:35–36; 208A4:16; 209A5:183; 6:34; 7:29, 129; 9:23–24, 109; 10:34, 162–163
- effects of rotation of vectors, 209A1:95
- Eocene/Oligocene boundary, 181A7:27
- ferrimagnetic minerals, 180A8:29–30
- flood basalts, 163B2:26
- histograms for archive halves, 209A1:138
- limestone breccia, 144A10:363–365
- lithology, 129B23:433
- long-core data, 182A7:17–18; 8:20; 9:14–15; 10:21–22; 11:11; 12:17; 189A3:34–35
- lower crust, 139B1:19–27
- mafic rocks, 139B30:519–534
- magnetic anisotropy, 156B6:99
- magnetic inclination, 197A3:161–162
- magnetic minerals, 133B11:130–131
- magnetic polarity, 178B31:7–8
- magnetostratigraphy, 155A6:100, 102
- median destructive field, 134A11:345, 350
- oxidation, 120B(1):6:84, 90–94
- paleolatitude, 197A6:20–22
- peridotites, 209A1:8–10; 210A4:9, 37, 39
- plagioclase, 197B1:12–13
- ratio plots, 161B40:515
- reorientation of structural features, 153B32:547–559
- rock magnetism, 192A4:20–21
- secondary Bathonian–Campanian, 129B33:617
- sediments, 135A(1):5:208; 6:262–264; 7:309; 8:363, 365; 9:422–425; 10:526, 530; 11:615; 135B47:770; 138B38:779–788; 143B22:373–379; 150A6:87, 89; 7:157–159; 154A5:167–168; 7:293; 8:353; 155A7:138; 8:188–189; 9:213; 10:255–256; 11:291–292; 12:343, 345; 13:395, 397; 14:422; 15:447–448; 16:474; 17:519; 18:550–553; 19:579; 20:606–607; 21:648–649; 22:670; 24:701–702; 157A5:121; 159A5:94; 7:238; 8:274–275; 159B21:205–206; 160A4:63; 5:103–104; 6:135–136; 7:177, 179; 8:233–234; 9:303–304; 10:356–357; 11:390; 12:435; 13:458; 14:479, 481; 161A6:205–206; 7:313–314; 8:367, 369, 372; 9:399; 161B40:511; 164B38:404; 180A6:50; 183A6:53–54; 7:47–48; 186A1:14; 192A3:33; 197A3:31, 109–110; 4:24–25, 80–81
- serpentinized peridotites, 209A1:15
- Site 748, 120A7:198–200
- Site 749, 120A8:255
- Site 860, 141A7:181–182
- split-core data, 210B15:5–7
- stratigraphic distribution, 166B4:37
- sulfides, 139B31:537; 158A7:121–122; 158B25:337–351
- temperature, 153B24:435; 210B15:24
- vectors, 178A4:65–66, 71–74; 5:60–61; 6:45–47; 7:47; 178B31:14; 197A6:84–87
- volcaniclastics, 157A7:347–350; 8:412–414; 197A3:119–120
- vs. age, 136B12:148; 166B4:42
- vs. compressional wave velocity, 197A6:83
- vs. depth, 150B19:351, 354; 197A6:79; 209A9:96; 10:135–136; 210A3:269
- vs. hydrothermal alteration, 153B24:432
- vs. magnesium number, 153B24:432
- vs. magnetic inclination, 197A6:83
- vs. magnetic susceptibility, 134B33:589; 157A7:353
- vs. temperature, 158B25:346
- well-logging, 143B23:383–388
- See also* hysteresis; magnetic properties; magnetization; paleomagnetism; piezoremanence; stable remanent magnetic vector (SRMV); Vine-Matthews-Morley type initial magnetization
- remnant magnetization, anhysteretic
- acquisition, 133B40:584–585; 137/140B29:332; 140A2:124; 164A8:264; 201B16:12; 17:16
- alteration, 136B3:45–46
- anisotropy, 140A2:126; 146B(1):14:241–242, 253; 147B23:396–397; 209A9:24–25, 98, 111
- assimilation of oceanic crust, 136B9:116
- axis orientations, 146A(1):4:78
- basalts, 129B25:458; 142A4:62; 148A3:160; 148B38:471–473, 477; 197A3:115; 4:26, 87; 5:77, 79; 6:19
- basement, 197A3:33–34
- breccia, 158B25:340–343
- carbonates, 133B50:750; 166B4:35–43
- deep-sea sediments, 185B7:5–6
- demagnetization curves, 132B3:41; 174A_A3:69, 71; 4:120–122; 182A11:11; 186A4:192; 194A8:50; 9:40
- diabases, 148A2:71
- dikes, 140A2:104–105
- discrete samples, 154A4:80; 194A3:12–13; 5:15; 9:14; 200A3:151; 206A3:33, 352
- grains, 156A6:138
- hemipelagic sediments and igneous rocks, 205A4:43–44
- Kerguelen Plateau, 120B(1):15:234
- lava flows, 197A6:80
- lithology, 106/109A4:72, 76; 106/109B26:292–293; 27:297–300; 117B7:165; 119A11:415; 121A6:133, 135; 197A5:22
- Lowrie-Fuller tests, 206A3:141
- magnetic characterization, 189A3:34–36, 85; 4:35; 5:36–38, 83; 6:41–43; 7:37–39
- magnetic excursions, 172B11:3–4
- magnetic field, 194A3:43
- magnetic properties, 152A11:219–224; 155B12:234–243; 186A4:121; 186B16:4
- magnetite, 121B17:379
- magnetostratigraphy, 188A3:43
- overprinting, 191B7:5
- pillow basalts, 192B5:6–7
- rock magnetism, 208A3:19
- sedimentary intervals, 129B23:437
- sediments, 133B11:131, 148; 38:551–552; 39:567–568; 40:576–577; 138B38:779–788; 146A(1):5:163; 150B19:349–358; 154A4:78–79; 154B10:172–173, 182–183; 155B14:251–252; 161A6:206; 163A4:35–36; 164A5:85–86; 6:121–122; 7:192; 167B28:313–314; 175B8:3–4; 13:5; 16:1–10; 182A1:13; 5:16–17; 6:23; 9:15; 184B1:3; 186A4:31–35; 5:112; 188A5:20–21; 191B9:3–4, 7; 194A5:60; 7:23; 8:15–16;

- 195B13:5; 201A6:26-27; 7:29; 11:25-26;
201B17:3-4, 15
- shear zones, 134B27:481
- Site 881, 145A3:50-51
- Site 882, 145A4:93, 95
- Site 883, 145A5:145-147
- Site 884, 145A6:228, 231-234
- Site 887, 145A8:349-350
- Sites 885-886, 145A7:310-311
- U-channel paleomagnetic studies, 202B14:14, 19, 24
- volcaniclastics, 134B28:496-497
- vs. age, 184B1:6; 185B7:13, 18, 20; 186A4:116-117;
5:68; 186B16:10-13; 188A3:113; 4:27-28, 68;
5:59; 188B13:22; 189A5:84; 6:97; 194A7:81;
8:51; 9:41; 195A4:119; 195B13:10-11
- vs. B-field, 182A4:57; 8:45
- vs. composite depth, 145B15:233
- vs. depth, 133B38:555; 145A3:62; 4:101; 145B32:479,
481; 152A9:122; 11:226; 160B6:77-79;
161A7:321; 161B40:512, 514; 165B8:147;
174A_A3:72; 4:125; 175B13:14; 16:6
- vs. isothermal remanent magnetization, 150B19:350;
157A4:76; 5:123; 157B6:68; 204B18:12
- vs. magnetic intensity, 146A(1)4:77; (2)2:39
- vs. magnetic susceptibility, 121B17:379, 382, 384;
145B31:470; 32:481; 154B10:183; 157A5:122;
9:456; 157B6:59
- vs. temperature, 154B11:185
- vs. volume magnetic susceptibility, 185B7:14
- Zijderveld diagrams, 194A4:75
- See also* magnetic susceptibility/anhysteretic remanent magnetization ratio
- remnant magnetization, anhysteretic (1%), vs. depth, 167B28:317
- remanent magnetization, anhysteretic (1%)/natural ratio, vs. depth, 167B28:317
- remanent magnetization, anhysteretic/isothermal ratio
- discrete samples, 182A4:24-26
- magnetic phases, 182A1:20
- magnetostratigraphy, 188B13:7-8
- rock magnetism, 182A7:18
- sediments, 182A1:26-29; 8:20; 188A5:20-21
- Site 1192, 194A3:13, 44
- Site 1194, 194A5:61
- vs. B-field, 182A5:40; 6:57; 7:44; 11:26
- vs. depth, 188A1:50-51; 5:61; 188B13:22-23;
194A7:82; 9:41
- vs. median destructive field-anhysteretic remanent magnetization, 150B19:357
- remnant magnetization, anhysteretic/magnetic susceptibility ratio, vs. depth, 145B33:485, 488-489
- remnant magnetization, anhysteretic/mean ratio, vs. depth, 167B28:315
- remnant magnetization, anhysteretic partial sediments, 131B24:293-300
- vs. depth, 131B24:297-299
- remnant magnetization, anhysteretic/saturation isothermal ratio
- carbonates, 166B4:38-40
- vs. depth, 165B8:147; 175B16:10
- remnant magnetization, anhysteretic/volumetric magnetic susceptibility ratio, vs. depth, 160B6:80-82
- remnant magnetization, backfield isothermal, vs. depth, 175B16:8
- remanent magnetization, characteristic
- abundance, 132A4:86
- age, 210B15:9-10
- age and alteration, 136B10:119-132
- age vs. carbon dioxide of basalts, 136B11:144
- basalts, 143B23:386; 163X_A5:6; 6:23-24; 7:5;
197A5:24; 206A3:84-85
- basement, 195A4:32-33; 197A3:34-35; 4:24-25, 29-30
- carbonates, 143B25:395-398
- colatitude, 191B8:9
- continuous measurements, 209A10:31-34
- cores, 173B11:7-8; 200A3:35-36
- demagnetization, 178A4:18
- diabases, 180A6:52-53; 210A1:19; 3:92-93
- directions, 209A7:29-31; 210A3:340-341
- discrete samples, 172A5:186; 6:263; 178A5:16;
180A7:20-21; 200A3:37-38; 203A3:18-19;
206A3:33
- lava, 183B12:6, 11
- limestone, 143B26:401-403
- lithology, 132A4:81-82; 199A8:12; 9:7; 10:13; 11:20-21;
12:21-22; 14:15; 15:9-10
- magnetic domains, 195A3:28-29
- magnetostratigraphy, 188A4:28-29; 5:22
- mid-ocean-ridge basalt, 187B7:9
- overprinting, 192A6:84
- paleolatitude, 197A6:20-22
- paleomagnetism, 192A4:22-23
- pillow basalts, 192B5:6-7
- principal component analysis, 196A3:32-33
- rock magnetism, 208A3:19
- sediments, 132B4:49; 141A9:318-321; 10:368-369;
149B16:318-334; 167B28:312-314; 180A5:28-29;
9:36-37; 10:16; 12:34-35; 186A4:31-35;
5:22; 191A4:24; 194A7:22-23; 195B13:4-5;
198B21:4; 210A1:23-24; 3:90-92
- sediments and basalt, 192A3:32-35, 161; 5:18-22,
116-118; 6:20-23, 109-110; 7:9-11, 59-62
- Site 859, 141A6:93
- Site 860, 141A7:182-183
- split-core pass-through data, 203A3:17-18
- stereoplots, 199A11:52
- volcaniclastics, 143B27:407-413
- vs. depth, 149B25:444; 192A4:102; 5:100; 203A3:59-60;
209A7:74, 107
- whole-core pass-through data, 134B26:459
- remanent magnetization, characteristic/natural ratio, vs. depth, 209A7:74, 107; 9:96; 10:135-136
- remanent magnetization, chemical
- basalts, 136B12:147-149; 165B9:159-162
- Bonin-Mariana region, 125B33:566-567
- dikes, 137/140B23:264-269
- igneous complex, 130B4:56-58
- magnetic polarity, 133B49:723-725
- magnetite, 150B19:357

- sediments, 135B47:765–771; 149B16:325–327; 173B11:18
- remnant magnetization, demagnetized isothermal, vs. depth, 194A7:82
- remanent magnetization, depositional
- correlation, 134B26:471–474
 - diagenesis, 208A7:19–20
 - discrete samples, 208A3:56
 - rock magnetism, 208A3:19
 - sediments, 149B16:325–327; 186A4:31–32; 190A8:13; 208A3:18; 5:43
 - vs. depth, 208A3:50; 6:62; 7:51; 8:50
- remanent magnetization, detrital, sediments, 164A6:118
- remanent magnetization, drilling-induced
- dikes, 137/140B23:264–269
 - sediments, 167A(1)4:63–64
- remanent magnetization, “hard” isothermal
- sediments, 160A7:179
 - vs. age, 175B18:22
 - vs. depth, 160A7:178; 160B6:80–82; 165B8:147
- remanent magnetization, induced, basalts, 144B37:636, 638
- remanent magnetization, induced saturation, 106/109B27:297–300, 29:312
- remanent magnetization, isothermal
- acquisition, 132B3:39–41; 137/140B29:331; 140A2:125; 145B32:476; 146A(1)5:166, 168; 147B23:395; 164A8:264; 166A7:160; 8:185; 10:310; 11:359–360; 166B11:127; 169A3:139; 185B7:15; 188A4:27–28, 69; 5:60; 195A3:108; 4:120; 200A3:35–36, 116
 - acquisition vs. B-field, 182A4:57
 - anisotropy, 180A11:35
 - basalts, 136B3:46; 142A4:63; 148B15:221; 38:471–473, 477; 191A4:25; 197A3:115; 4:26–27, 88; 5:78
 - Broken Ridge, 121B16:361, 363
 - carbonates, 166B4:35–43; 11:123–127
 - coercivity, 130B31:533
 - cores, 173B11:8
 - Cretaceous, 143B27:409
 - data, 190A5:18
 - deep-sea sediments, 185B7:5–6
 - demagnetization, 146B(1)14:235, 238, 244, 248; 182A11:11; 188A3:114–115; 194A8:50; 9:40
 - diabases, 148A2:70–72
 - dikes, 137/140B23:264–269; 140A2:104–105
 - discrete samples, 154A4:80; 180A11:10; 181A3:49; 4:35; 5:42; 6:64; 7:79; 194A3:12–13; 5:15; 9:14; 200A3:152; 203A3:62; 206A3:353
 - disturbed drilling, 201B16:4
 - foraminifer wackestone, 166A6:90
 - gneisses, 161A6:207–209
 - iron minerals, 207B3:5, 23
 - iron sulfides, 204B18:5–7
 - Kerguelen Plateau central, 120B(1)15:234
 - lava flows, 197A6:81
 - limestone, 143B26:399–403
 - lithology, 197A5:22
 - Lowrie-Fuller tests, 206A3:141
 - magnetic characterization, 189A3:34–36, 85; 4:35; 5:36–38, 83; 6:41–43; 7:37–39
 - magnetic field, 194A3:43
 - magnetic properties, 148A2:72, 166; 173B8:9; 186A4:120–121; 193A3:81–83, 247; 205A4:139
 - magnetite, 141B5:63–64, 71
 - overprinting, 191B7:5
 - pillow basalt, 195A4:30
 - rock magnetism, 181A6:21–22; 7:27; 182A7:18; 188A3:40–41; 208A3:19
 - sediments, 133B11:131, 147; 38:553–554; 146A(1)5:163; 150B19:349–358; 151A8:239; 154A4:78–79; 155B14:252; 156A6:131–134; 164B38:404; 169A3:136–137; 170A5:167; 175B8:3–4; 13:5; 16:1–10; 181A4:15–16; 5:15–17; 182A1:13; 5:16–17; 6:23; 9:15; 183B13:4, 14, 16; 186A4:33–35; 188A5:20–21; 191B9:2–3, 13–14; 194A4:19; 5:60; 7:23–24; 8:15–16; 201B17:3–4, 17; 205A4:41–42; 208B4:16
 - serpentine mud, 195A3:27
 - shear zones, 134B27:481
 - Site 758, 121B17:379
 - split cores, 206A3:32–33
 - thermal demagnetization, 161A6:215; 186A4:119
 - volcaniclastics, 134B28:496–497
 - vs. anhysteretic remanent magnetization, 157A4:76; 5:123; 157B6:68; 204B18:12
 - vs. applied DC field, 151A8:239
 - vs. B-field, 182A4:57; 8:45; 9:37
 - vs. calcium oxide, 185B7:14
 - vs. composite depth, 145B15:233, 242
 - vs. depth, 134B27:485; 169A3:138; 175B13:14; 180B20:8–10; 188A3:113; 4:68; 5:59; 188B13:22–23; 189A5:84; 6:97; 194A7:81–82; 8:51; 9:41
 - vs. induction, 139B31:537; 153A3:111
 - vs. magnetic susceptibility, 151A8:239
 - vs. magnetizing field, 139B46:734
 - vs. natural remanent magnetization, 157A5:123; 157B6:68
 - vs. saturation isothermal remanent magnetization, 151A8:239
 - vs. temperature, 139B30:521; 46:730–733; 161B9:115
 - Zijderveld diagrams, 194A4:76–78
 - See also* magnetic susceptibility/saturation isothermal ratio
- remanent magnetization, isothermal multicomponent
- magnetic intensity zones, 190A5:66
 - sediments, 156A6:136
- remanent magnetization, isothermal/saturation isothermal ratio
- vs. depth, 175B16:9
 - vs. isothermal remanent magnetization, 166A9:247
- remanent magnetization, natural (NRM)
- aberrant behavior in sedimentary rocks, 129B23:445
 - advanced piston-cored sediments, 121B39:792–794, 801
 - alkali olivine basalts, 129B25:456–458
 - alteration, 127A5:203; 148B12:178–183
 - alternating-field demagnetization, 130B31:529–533; 131A6:148–150

- archive-half measurements, 208A3:17–18; 4:16; 5:12; 6:20, 59; 7:18–19; 8:20
- average declination, 176A3:216
- average intensity and susceptibility, 192A3:160
- Barbados Ridge, 110A4:90–91; 5:329–334; 7:414–415; 110B25:380, 388–390
- basalt flows vs. dolerite sills, 128A3:102
- basaltic mousse, 126B25:372, 374–376
- basalts, 107B7:100; 115B10:103–106; 130B4:54–55; 132A3:66; 136B3:46; 12:147–149; 140A2:102–103; 142A4:61–62; 148A3:159; 148B38:472–473, 477; 183A4:24–26, 91; 185A3:32–35; 191B8:5–9; 197A4:27–28; 5:79; 6:19; 206A3:84–85
- basement, 115A5:264; 115B11:111–116; 121B39:796–797, 801; 123A4:200; 127A5:209; 7:358–359; 135A(1)4:111
- Bathonian–Campanian interval, 129B33:617
- bedding tilt effects, 115B40:722
- biogenic dissolution, 115A9:671
- bioturbation, 127A6:275
- Bonin/Mariana region, 125A7:130; 8:167–168
- Brunhes/Matuyama boundary, 168A4:80
- calcareous turbidites, 123B7:152, 157, 164
- carbonates, 115A7:477; 115B41:740–743, 758, 760, 765; 133B50:749–750
- cement samples, 106/109B24:277–279
- chrons, 138A(1)10:216
- coercivity, 178A4:16–17
- composite depths, 117B20:345–346; 22:392, 395, 403
- continuous measurements, 141A6:92–93; 9:318, 320; 209A10:31–34
- core contamination, 133A(1)4:99
- core orientation, 117A10:269; 11:335; 131A6:126–128
- core-log correlation, 102B7:87–88
- cores, 139A7:305–307; 141A8:259–260
- correlation, 152A12:267; 155B39:602–605
- Costa Rica Rift, 111B13:149–156; 14:159–161
- crystalline rocks, 153A3:107, 109–111
- data, 102A3:97, 125; 125B7:84, 87–89; 130B31:527–559
- decay spectra, 197A6:82
- deep-sea sediments, 185B7:5–6
- deformation, 131B7:84; 172A4:100–101
- demagnetization, 157A4:76; 174A_A4:120–122; 186A4:192–193; 194A9:40; 195A3:109; 206A3:29–30, 304–306; 208B4:3–4
- density, 125B33:567, 572
- diabases, 148A2:68–69
- diagenetic effects, 117B22:390–393
- dikes, 137/140B22:254–256
- direction, 147A3:93–95
- discrete samples, 131A6:154–155; 172A3:45–46; 4:99–100; 178A4:146–150; 5:119–122; 7:103; 8:72; 9:13–14; 180A11:9; 182A9:14–15; 189A4:18; 5:37–38; 6:42–43; 7:38; 193A3:80–81; 194A3:12–13; 5:14–15; 9:14; 200A3:37–38
- drilling disturbance, 115B41:750–755; 125B31:535, 537, 542–544
- drilling-induced remanence, 117A8:166; 118B16:294
- equal-area projection, 139A5:122–123
- experiments, 182A(appendix):1–15
- gabbros, 118A6:197–198; 118B16:287–290; 17:318–319; 147B21:373–381; 153A4:167–171; 5:209–211; 6:251–254; 7:271–272; 153B24:429–436; 176A1:22–23; 3:71–77; 179A4:59; 205A4:42–43
- gas expansion, 172A6:263
- high-temperature magnetization, 119B45:803–804
- histograms, 135A(1)10:530; 147B24:410; 151A9:282
- ice-rafted debris, 120B(1)14:214
- igneous rocks, 123A5:324–325; 147A1:12; 147B22:384–388; 198A9:24–25; 198B20:3–4
- importance of measurement, 102B7:77–78
- inter-hole correlation, 115A4:139–145; 7:477–479; 8:607; 9:671, 674; 159A6:183–184
- lava flows, 144B36:615–630; 163A5:54; 197A6:20
- limestone, 143B26:399–403
- lithology, 111A3:87; 4:267; 118A7:151, 153, 156; 119A7:243, 246; 119B45:804; 121A2:50, 55; 10:281–282, 285–288; 11:331–333, 338–340; 12:394–396, 410; 13:492–493; 121B17:379; 28:526–533; 39:782, 797, 805, 818, 826, 828, 855; 125A9:187–189; 10:212–213, 216–217, 220; 11:265; 12:290–291; 13:311; 14:331–332; 125B33:566; 126B22:333, 342–345; 128A3:101; 183A3:52; 4:90; 5:188; 185A4:34–37; 199A9:7; 13:18; 14:15; 15:9–10
- logarithmic distribution, 176A3:219
- long-core data, 189A4:17–18; 5:36–37; 6:41–42; 7:37–38
- low-stability components, 121B17:379
- mafic rocks, 139B30:519–534
- magnetic characterization, 189A3:34–36, 85; 4:35; 5:36–38, 83; 6:41–43; 7:37–39
- magnetic declination, 130A9:409; 190A6:12–15
- magnetic excursions, 172B11:5
- magnetic inclination, 141B3:34; 147B21:378; 152A11:219–224
- magnetic intensity, 134A8:165; 147A3:90, 94; 4:144–147; 147B22:384–387; 148B15:222, 224; 160B5:70; 173A7:183, 185; 173B8:5–6; 11:6–8; 175A3:69–70; 4:98; 5:126–127; 6:159–160; 7:185–186; 8:209–210; 9:251–252; 10:291–292; 11:320, 322; 12:364; 13:406; 14:442; 15:468, 470; 195A3:26–28; 197A3:113
- magnetic minerals, 175B16:1–10
- magnetic reversals, 182A1:17–18; 4:24–26
- magnetization decay, 112A19:825–826
- magnetostratigraphy, 172A7:316–317; 201B16:4–5
- measurement, 129B24:447–450
- metamorphism/alteration degree, 118B16:294–296, 300
- mid-ocean-ridge basalt, 187B7:4–9
- multicomponent magnetization, 119B44:772, 774, 776, 782; 45:798, 802–804
- multiple overprint components, 121B39:779, 781, 783, 795, 802
- Neogene, 177A1:15–16
- oceanic crust, 139B1:22–23
- Oman margin, 117A4:49; 117B33:564
- ooze and basalts, 143A6:133–135
- origin, 137/140B23:263–270

- oscillating behavior, 126B23:346, 349, 351
 overprinting, 192A6:84
 paleointensity vs. depth, 186A4:121
 paleocurrents, 131B3:37, 39–40
 paleolatitude, 171B_A6:280, 282
 paleomagnetic directions, 112A20:921–922;
 115B40:724; 119B44:776
 paramagnetic pyrite, 182A1:20
 peridotites, 125B33:564–574; 149B25:434;
 153B23:421
 pillow basalts, 192B5:6–7; 195A4:30
 primary magnetization, 107B8:114–122; 115A4:139–
 140; 5:255; 115B40:722; 121B39:783–793, 796,
 841
 principal component analysis, 189A3:84; 201A10:48–
 50; 11:66–68; 12:41–43
 profiles, 139A5:113
 projections, 201A6:59–62; 7:62–65
 redbeds, 119A9:357–358; 119B45:797–804
 reduction, 111B13:150
 remagnetization, 115A7:475–478; 115B40:726;
 119B45:798–801, 806
 rhyodacites, 193A6:11–12
 rock magnetism, 182A7:18; 188A3:40–41; 207B3:4
 rotary core barrel (RCB) cores, 127/128B(2)62:975,
 981
 secondary magnetization, 107A9:616–617;
 118B16:293–294; 17:314, 317, 320; 121B16:367
 sediment supply, 117B6:155–156
 sedimentary rocks, 129B23:431
 sediments, 129A4:200–202; 131B24:293–300;
 132B3:37–45; 4:49–51; 133B11:142; 38:545–
 547; 39:564–571; 49:725–727, 741–742;
 134B27:475–490; 135A(1)4:117; 6:262–263;
 7:309; 9:422–423; 11:615; 136A5:68–69;
 138A(1)11:293; 12:352; (2)13:692–695; 14:748;
 15:826; 138B38:779–788; 139A6:183–187;
 139B46:726–728; 141A10:365–369;
 143B27:408; 55:978–979; 149B16:318–334;
 150B19:349–358; 151A5:75; 6:125–126; 7:176–
 177; 8:237–238; 9:281–282; 10:329–330; 11:365;
 152A8:96–97; 152B22:267; 156A6:131–134,
 156; 7:220, 240, 244; 159A6:182–183;
 161A4:73–77; 162A3:70; 4:112; 163A3:26; 4:35–
 36; 164A7:189–190; 164B39:418; 165A3:68–69;
 4:158; 6:314; 7:368–369; 165B8:146–147;
 166A8:185–186; 9:246–247; 10:310; 11:358–
 359; 167A(1)5:102–103; 6:141; 7:163–164;
 10:256; 11:293; 12:325; 13:364; 14:400; 15:442;
 16:473; 167B28:312–314; 168A4:78; 6:175;
 169A3:136; 4:201; 5:232; 170A3:70;
 171B_A3:70–71; 4:132–134; 5:196, 199–203;
 172A3:44–47; 4:98–99; 5:185–188; 173A8:244;
 9:275–276; 175B8:3–4; 177A3:11; 4:14; 6:11;
 7:13; 8:14; 9:11; 180A9:36–37; 10:16; 12:34–35;
 181A3:13–14, 18–20; 4:15–16, 23–24; 5:15;
 6:21–22; 7:26–27; 8:23–24; 9:16–17; 184A4:15–
 17; 5:11–13; 6:8–10; 7:12–13; 8:5–6; 9:15;
 186A4:27–32; 5:112; 188A5:19–20; 190A4:14;
 5:17–18; 6:12; 194A3:12–13; 4:18; 5:59–60;
 6:11; 7:22–24; 8:14–15; 195A5:10; 195B13:4–5;
 198A3:25–26; 4:21–22; 5:23; 6:20–21; 7:19–20;
 8:17; 198B21:3; 22:3–4; 201A6:26–27; 7:28–29;
 8:46; 9:45–46; 11:25–26; 12:21; 202A3:11, 31–
 34; 4:11, 39–41; 5:10–12; 6:11–12; 7:15–16;
 8:20–22; 9:17; 10:15–16; 11:13–14; 12:13–14;
 13:12–13; 205A4:41–42; 5:25–26; 207A5:57;
 210A1:19, 23–24; 3:90–92, 340–341
 sediments and basalts, 135B45:717–735; 192A3:32–
 35, 161; 5:18–22; 6:20–23, 109–110; 7:10, 59–62
 serpentine sediments, 125B33:561, 564–570
 serpentinization degree, 125B33:567, 570
 shear zones, 134B27:480
 signal-to-noise ratio, 126B23:347
 Site 806, 130A8:318
 Site 842, 136A4:42
 Site 858, 139A8:459, 465, 467–470
 Site 859, 141A6:92–93
 Site 860, 141A7:181–182
 Site 881, 145A3:50–51
 Site 882, 145A4:93, 95
 Site 883, 145A5:145–147
 Site 884, 145A6:228, 231–234; 145B32:476
 Site 887, 145A8:349–350
 Site 910, 151A8:238–239
 Sites 885–886, 145A7:310–311
 Sites 974–976, 161B40:508–509
 soft vs. stable components of remanence, 128A3:101
 split cores, 178A5:15; 7:11–12; 8:11; 203A3:17–18;
 206A3:32–33
 stable component direction, 126B24:354–355
 stereographic plots, 132A4:90–91; 134A7:120;
 194A3:41; 4:73
 thermal stability, 121B39:796–797, 803, 816, 822,
 839, 845–846, 850, 855
 univectorial magnetization, 119B45:798–799
 vein structures, 126B13:204–205
 volcanic ash, 115B41:741, 748; 121A13:482;
 121B39:796, 801
 volcanic rocks, 127/128B(2)59:933–945
 volcanoclastics, 134B28:491–507
 vs. age, 187B7:14
 vs. alternating-field demagnetization, 134A7:120
 vs. B-field, 182A4:57; 6:57; 8:45
 vs. Curie temperature, 187B7:15
 vs. depth, 133A(1)13:521–522; 134A7:119; 136A4:43;
 138A(2)14:771; 138B42:832–834; 139A5:120;
 140A2:121, 123; 145A3:62; 4:101; 145B34:495,
 499, 502–509, 512, 516; 147A3:92; 148B38:482;
 149A4:71–72; 149B16:318, 322, 327, 333;
 25:436; 151A7:177, 179; 10:331; 11:365–366;
 152A9:122; 154A4:87; 156A6:159; 7:247–249;
 156B10:138; 22:286; 23:299, 301; 161A7:321;
 167B28:317; 174A_A3:72; 4:125; 175A10:294;
 176A3:218; 178A7:49; 182A5:39; 7:42; 9:34;
 11:25; 185B7:13, 17; 186A4:116–117; 5:68;
 192A3:132, 136; 194A7:81; 8:51; 9:41;
 195B13:10–11; 202A5:37–40; 6:41–45; 7:52–54;
 8:60–65; 9:58–61; 10:53–56; 11:48–51; 12:58–
 61; 13:47–49; 203A3:57–58; 205A4:138;
 207A4:49; 209A3:149; 7:74, 107
 vs. induced magnetization, 192B5:14

- vs. isothermal remanent magnetization, 157A5:123; 157B6:68
- vs. low-field magnetic susceptibility, 187B7:16
- vs. porosity, 156B10:147
- vs. temperature, 197B1:29
- vs. thermoremanent magnetization, 197B1:29
- vs. viscous remanent magnetization acquisition coefficient, 136B12:148
- Weddell Sea, 113A5:121–123; 6:225–227, 230; 7:312–313; 8:368–373; 9:477–480; 10:554–557; 11:641–645; 12:726–731
- whole-core pass-through data, 134B26:459
- XCB cores, 121B39:795–796, 801; 127/128B(2)62:975, 978, 980
- X-ray scan, 156B11:152–153
- Zijderveld diagrams, 194A4:74
- See also* demagnetized intensity/natural remanent magnetization ratio
- remnant magnetization, natural/anhysteretic intensity ratio
 - lithology, 106/109A4:72–76; 121B17:379, 382; 126B23:343, 347–348, 352
 - sediments, 186A4:33–35
 - vs. depth, 167B28:313–316; 186A5:68
- remnant magnetization, natural/isothermal ratio
 - discrete samples, 182A4:24–26
 - lithology, 126B22:333–339; 23:343, 347–348; 25:372
 - sediments, 186A4:33–35
 - vs. depth, 169A3:138
- remnant magnetization, natural/magnetic susceptibility ratio, 138B38:785–787, 790–795
- remnant magnetization, normalized
 - decay curves, 209A5:166
 - depositional, 208A3:50
 - isothermal, 189A7:76
 - vs. alternating-field demagnetization, 147B21:378
- remnant magnetization, partial anhysteretic, 151A10:330; 156A6:136; 164B38:402–408; 175B13:4–5, 13
- remnant magnetization, postdepositional
 - lithology, 121B16:372–373
 - magnetic reversals, 130B32:549–550
 - magnetostratigraphy, 175A7:187
 - sediments, 157A4:75–76; 164A7:190; 186A4:31–32; 205A4:42
- remnant magnetization, postformation, 136B12:149
- remnant magnetization, primary depositional, 157A4:75–76
- remnant magnetization, radial, detection, 157A9:456
- remnant magnetization, saturation
 - alteration, 148B12:178–180
 - basalts, 129B25:458; 148B38:471–472; 198B20:11
 - downhole changes, 148B15:223
 - hysteresis ratios, 173B8:8; 184B1:3–4; 7:19
 - isothermal/volumetric magnetic susceptibility ratio, 160B6:80–82
 - magnetic intensity, 205A4:139
 - magnetic minerals, 178B14:3
 - sediments, 131B24:296–297
 - volcanic rocks, 141B4:53, 56
- vs. depth, 137/140B22:258; 147B21:380; 148B12:180; 180B20:8–10; 184B1:7
- vs. magnetite, 154B:178
- vs. temperature, 147B24:406; 148B12:178–180; 157B6:58; 173B8:23–24
- See also* magnetic susceptibility/saturation remanent magnetization ratio
- remnant magnetization, saturation bulk /residue saturation magnetization ratio, 201B17:11
- remnant magnetization, saturation isothermal alteration, 136B3:45–46
- alternating-field demagnetization, 195A3:112
- basalts, 142A4:63; 197A4:26, 87; 5:77, 79; 6:19
- basement, 197A3:33–34
- carbonates, 166B4:35–43
- correlation, 133B49:731
- data, 190A5:18
- demagnetization, 178B14:6; 181A5:43
- density, 125B33:564
- discrete samples, 194A3:13
- hemipelagic sediments, 205A4:43–44
- hysteresis, 183B12:8, 20
- lava flows, 197A6:80
- lithology, 197A5:22
- magnetic domains, 195A3:28–29
- ooze, 135B46:745, 752, 757
- pillow basalts, 195A4:30
- rock magnetism, 181A6:21–22
- sediments, 132B3:40–41; 151A8:238; 10:330; 154B10:170–174; 161A7:314; 164A8:260–261; 9:293–294; 166A8:185–186; 9:247; 11:358–360; 175B8:3–4; 16:1–10; 181A3:19–20; 4:16; 5:15–17; 7:27; 154B10:178; 160B6:77–79; 161A6:213; 7:321; 161B40:512, 514; 164A5:86; 6:120–122; 7:190–192; 8:263; 9:294; 165B8:147; 175B16:7
- vs. isothermal remanent magnetization, 151A8:239
- vs. temperature, 147B24:409; 181A4:34
- vs. volume susceptibility, 132B3:41
- remnant magnetization, saturation isothermal/bulk magnetic susceptibility, 164A5:86; 6:120; 7:192; 8:263; 9:294
- remnant magnetization, saturation/saturation ratio
 - vs. depth, 184B1:7
 - vs. remanent coercivity/coercivity field, 198B20:11
- remnant magnetization, saturation/saturation remanence moment, 139B46:734–735
- remnant magnetization, saturation/saturation remanence ratio, 137/140B22:258; 147B21:380
- remnant magnetization, stable, inclination, 147B21:378
- remnant magnetization, stirred, intensity, 160A14:499
- remnant magnetization, strong-field, 139B30:520–521
- remnant magnetization, thermal
 - basement, 197A3:33–34; 4:29
 - dikes, 137/140B23:264–266, 269
 - hemipelagic sediments and igneous rocks, 205A4:43–44
 - lithology, 197A5:21–22
 - mid-ocean-ridge basalt, 187B7:9
 - sediments, 195B13:5
 - vs. natural remanent magnetization, 197B1:29

- vs. depth, 176A1:67
- remanent magnetization, total saturation, vs. magnetic hysteresis, 197B1:29
- remanent magnetization, viscous
 - basalts, 129B25:458; 130B4:52; 136B12:148; 163X_A7:5
 - basement intersite comparison, 127/128B(2)59:941
 - bedding, 173A6:136–138
 - correlation, 134B26:471–474
 - foliation, 173A7:202
 - lithology, 118B16:294; 121A11:332; 121B35:701, 709; 39:783; 123A5:324; 127/128B(2)59:934–945
 - magnetic inclination, 173A9:278
 - magnetic intensity, 173A7:183, 185
 - magnetic polarity, 133B49:723–725
 - magnetostratigraphy, 130B32:551–552
 - peridotites, 147B24:411–412
 - sediments, 133B38:545–547; 39:564, 570; 141A9:318–321; 10:368–369; 145B31:471; 164A6:118; 9:292; 186A4:33–35; 194A4:18; 6:11
 - Site 860, 141A7:182
 - structural orientation, 141A6:93–94
 - well-logging, 143B23:383–386
- remanent magnetization ratio, vs. age, 138B38:785–787, 790–795
- remineralization
 - carbonates, 181A3:23–24
 - diagenesis, 155B30:498–503; 161A5:146
 - metabolism, 199B20:17–19
 - organic matter, 155B31:515; 160B20:254; 161B38:487; 165A4:166; 165B19:288–291; 169S_B1:32, 36; 175A12:370; 13:410; 20:548–550; 177A9:14; 201B4:10; 10:3
 - sapropels, 161B31:409–410
 - sediments, 146B(1)26:388–389
- remobilization, diagenesis, 162B14:201–206
- remote sensing
 - faults, 141A3:27
 - sea ice, 151A4:49–53
- reoxidation
 - organic matter, 194A5:16–17
 - sulfur, 146B(2)16:228
- replacement
 - limestone, 143B31:523
 - olivine textures, 137/140B18:208–210
- replacement, pseudomorphic, sulfides, 139A6:222, 227–228
- replacement texture. *See* textures, replacement
- reprecipitation
 - biogenic calcite, 130B15:271
 - carbonates, 175A20:550–551
 - diagenesis, 192A6:11
 - See also* resedimentation
- resedimentation
 - Cretaceous, 143B2:20–24
 - glass shards, 183A4:12–13
 - lithology, 129B6:160; 173A8:238
 - Miocene, 129B12:240
 - photograph, 201A7:43
- resedimentation, pelagic evidence, 130B5:72
- foraminifers, 130B8:104; 14:261
- seismic reflection profiles, 130B3:41
- See also* reprecipitation
- reservoir age, wood/shell pair, 169S_A2:25–26
- residual arc, mantle, 187B1:16–17
- residual melt porosity. *See* porosity, residual-melt
- residual melts, gabbros, 147B2:37–39
- residue after leaching, vs. strontium isotopes, 153B18:361
- residues
 - foraminifers, 188A3:75–76, 191
 - photograph, 161B42:532–536
- residues, carbonate-free
 - biogenic compounds, 121B14:277
 - geochemistry, 121B13:262
- resilification, lithology, 191A4:14
- resin pieces, kerogen, 183B3:5–6
- resinite
 - coal, 180B10:10–11
 - photomicrograph, 180B10:30–31, 35
 - sediments, 143B12:183–184
- resins
 - chromatographs, 180B16:5–6, 19
 - paleoenvironment, 152B24:201
- resistance, conversion of temperature data, 204B23:32
- resistive units
 - Formation MicroScanner imagery, 193A4:221, 223
 - resistivity-at-the-bit images, 193A4:228
- resistivity
 - anisotropy, 155A7:157; 8:199; 9:225; 10:266; 11:304; 12:362; 13:407; 14:433; 15:461; 16:489; 17:535; 18:564; 19:588; 20:621; 21:654; 22:682
 - Atlantis Bank, 118A4:90; 8:169, 176–177; 9:210; 118B18:324–326
 - basalts, 124B7:93–94; 148B29:377
 - breccia, 158A7:117, 136; 8:164, 167; 11:221
 - cable, 128A3:114
 - Celebes Sea, 124A10:174–176; 13:374–381
 - chalk–limestone transition, 121A8:221
 - chert layer, 121A6:149
 - composite depth, 207A4:20; 5:21–22; 6:25–26
 - contrast of fault zones in Formation MicroScanner imagery, 209A7:117
 - cores, 149A5:137; 6:193, 196; 7:251
 - correlation, 181A7:46; 207A5:33
 - crust, 124B4:75–76; 6:89–90; 127/128B(2)83:1343, 1351
 - crystalline rocks, 153A3:112–115; 4:172; 6:255; 7:273
 - currents, 127/128B(2)84:1352; 128A3:113, 114, 116
 - dacites, 193B1:11–12
 - data collection/operations, 127/128B(2)84:1352–1354
 - derivation of velocity, 171A_B3:5
 - diffusion ease, 118B19:385
 - discrete samples, 149A4:101; 171B_A3:90; 4:157; 5:230; 6:308; 7:346; 183A5:56–58
 - electrodes, 127/128B(2)84:1352; 128A3:114
 - electrofacies, 176A3:246–251, 313
 - Formation MicroScanner imagery, 180A6:210; 9:149–153; 182A5:56–57; 184A5:73; 7:71; 9:86
 - fractures, 148B22:308–309, 318–319
 - gabbros, 179A4:62–63; 179B3:8–29

- gas hydrates, 204A1:64; 7:54
Gortani Ridge, 107A11:897–898, 904
igneous rocks, 176A3:81
imaging, 134B34:591–606
Lima Basin C, 112B29:488
lithofacies, 160B38:490
lithology, 123A4:219, 222; 5:336; 131A6:169;
170A6:207–208; 185B12:1–18
logging-while-drilling, 204A3:61, 63, 90–93; 4:41, 92;
6:64; 9:70; 10:85
methods, 102B3:32; 4:50; 127/128B(2)84:1351–1359;
128A3:111–115; 169B8:7–8, 30
modeling, 124B7:96–99
noise source, 127/128B(2)84:1352
objectives, 128A1:18, 23; 3:83, 111
oceanic crust, 144B39:652–654
open-hole intervals, 131A6:188–194
operations, 128A3:68, 70, 85, 115–116
pore water, 159B22:229–233
porosity, 151A8:260–261; 9:304; 157A6:163–164
pressure, 169B8:36–39
proto-décollement zone comparison, 171A_A4:51
Prydz Bay, 119B19:379–380
repressurized sediments, 204B26:6–7
salinity, 148B21:303–304
Sardinian margin, 107A8:447
schematic illustration, 128A3:115
sediments, 126A2:33–34; 126B36:547; 41:607;
146A(1)4:89–90; 5:194; 6:274–275; 7:347, 349;
146B(1)11:192; 152A6:70; 7:86; 12:276;
154A4:111; 5:195; 6:253, 255; 154B20:313;
24:369; 155A6:109; 7:146, 148, 156–157; 8:195,
198; 9:220–225; 10:262, 265; 11:300, 303;
12:352, 354, 361; 13:401–402, 407; 14:427, 429,
432; 15:454; 16:482, 488; 17:522, 524, 534;
18:559–563; 19:585–587; 20:614, 620; 21:652–
654; 22:677–681; 159A5:115–116; 6:197–200;
8:287, 289; 165A3:88; 4:186, 189; 5:267, 269;
6:334–335; 170A3:84–85, 90; 4:148–149; 7:245–
246; 171B_A3:80; 4:149; 5:216; 6:293; 7:334–
338; 172A3:68, 71–72; 4:134, 151; 5:235, 241–
242; 6:294, 298–299; 174A_A3:80–81; 4:131;
5:178; 177A3:14; 4:19; 5:24; 6:16–17; 186A4:52
sensor cable configuration, 127/128B(2)84:1351–
1353; 128A3:116
shooting ship positions, 127/128B(2)84:1352
signal amplitude, 127/128B(2)84:1352, 1359;
128A3:116
signal forms observed, 127/128B(2)84:1355–1358
Site 700, 114A7:292, 296–297
Site 703, 114A10:586–587
Site 704, 114A11:674–678, 690–693; 114B3:39
Site 738, 119B18:366
Site 747, 120A6:132–133, 139
Site 750, 120A9:325
Site 754, 121A8:230
Site 782, 125A10:213, 232
Site 786, 125A14:334–335, 347
Site 787, 126A5:84–85, 87
Site 792, 126A8:267–268, 271
Site 793, 126A9:371–372
Site 794, 127/128B(2)83:1343; 128A3:36, 68, 70, 111–
117
Site 803, 130A5:143
Site 865, 143A6:148, 150, 154
Site 891, 146A(1)6:276
Site 892, 146A(1)7:351
Site 894, 147A3:101–102
Site 895, 147A4:154, 157
Site 915, 152A8:103
Site 918, 152A11:245, 248–249
Sites 790–791, 126A7:186, 190
Sites 889–890, 146A(1)5:196
Sites 1044 and 1046 comparison, 171A_A5:73
Sites 1044 and 1048 comparison, 171A_A7:105
small probe data, 154A6:270–271; 8:394–395
source current time variation, 127/128B(2)84:1354
structures, 186B1:16
Sulu Sea, 124A11:269–273
vertical electrical field (Ez), 127/128B(2)84:1352
volcanic ash, 204A3:96
vs. cation exchange capacity, 118B18:327
vs. compressional wave velocity, 130A9:450;
152B38:460; 154A4:133
vs. conductivity, 118B18:323–324, 327
vs. consolidation stress, 204B26:16
vs. density, 118B18:326–327
vs. density porosity logs, 204B22:20
vs. depth, 139A8:541, 551–554; 139B39:618;
140A2:142; 141A6:135–136; 7:227; 141B20:267;
21:284; 143A7:243; 9:352–353, 358; 148A1:21;
2:74, 76, 79; 3:170, 173; 148B22:309; 23:319;
29:376; 34:424; 149A6:196; 7:251; 151A5:105;
152A6:71; 11:249–251; 12:276–277; 153A3:117;
4:174–175; 5:213; 6:256; 154A4:122; 5:203;
7:323; 8:397; 155A6:118; 12:358, 362; 13:407;
14:433; 15:461; 16:489; 159A5:116, 118; 6:200;
8:289; 159B22:235, 239; 161A9:418; 165A3:90;
4:189; 5:269; 6:335; 7:381; 167B32:354;
170A3:48; 4:98; 7:217; 171A_A4:50; 5:71;
172A3:72; 4:152; 5:241; 6:299; 174A_A3:78–79;
4:129; 5:179; 177A3:36; 4:50; 5:55–56; 6:46–47;
7:36–39; 8:53, 56; 9:43; 180A5:102; 6:182, 195–
201; 181A7:105, 111; 8:82, 87; 9:53; 186A4:91,
93; 201A10:52; 204A3:68; 4:81; 9:34; 10:44;
204B8:17–21; 207A4:63–65; 5:72–74
vs. grain size, 126B4:78
vs. magnetic susceptibility, 134B28:495
vs. porosity, 118B18:328, 331; 28:555; 124B6:83–84;
133B45:661–662; 147A3:103; 4:156; 153A3:119;
183A5:166
vs. potassium oxide, 157B3:35
vs. pressure, 193B14:12
vs. sample and fluid conductivity, 169B8:42
vs. temperature, 114B3:41–44
vs. thermal data, 201A4:16
vs. total gamma ray logs, 139B36:577
vs. traveltime, 133A(1)9:335
vs. velocity, 107A11:899
well-logging, 119B14:279
X-ray computed tomography, 193B14:1–14

- See also* conductivity; deep resistivity logs; electrical impedance; formation factor; Formation MicroScanner; medium resistivity logs; microresistivity logs; neutron lithodensity porosity difference; shallow resistivity logs; shallow spherically focused current logs; spherically focused resistivity logs; thermal resistivity
- resistivity, directional, crystalline rocks, 147A4:156
- resistivity, dry
basalts, 185B12:15–16
lithology, 185B12:17
- resistivity, electrical, discrete intervals, 154A4:126–128; 5:208–210; 7:322–323
- resistivity, intermediate
Sites 846 and 847 comparison, 138A(1)12:381
vs. depth, 138A(2)14:793
- resistivity, logging-while-drilling
thermal anomalies, 204A7:50
vs. depth, 204A6:31
- resistivity, longitudinal
vs. depth, 155A7:157; 8:199; 9:225; 10:266; 11:304; 17:535; 18:564; 19:588; 20:621; 21:654; 22:682
vs. porosity, 155A7:157
- resistivity, noncontact
sediments, 204A4:21; 5:12–13; 10:23
tool calibration, 204B8:14
vs. depth, 204A3:81; 4:80; 5:45–46; 7:53; 10:73
- resistivity, pore water
Site 787, 126A5:87
Site 792, 126A8:271
Site 793, 126A9:372
Sites 790–791, 126A7:190
- resistivity, shallow, vs. spectral gamma rays, 186A4:152
- resistivity, short-focused, vs. depth, 149A6:202
- resistivity, time-after-bit ring, vs. depth, 204A4:88; 5:50; 6:60; 7:57; 8:71; 9:67; 10:81
- resistivity, transverse
vs. depth, 171B_A3:91; 4:157; 5:230; 6:309; 7:346
vs. porosity, 171B_A3:91; 4:157; 5:230; 6:309; 7:347
- resistivity, wet
basalts, 185B12:15–16
lithology, 185B12:17
vs. depth, 185B12:9
- resistivity-at-the-bit images
accretionary prisms, 196A1:1–29
basaltic basement, 196A3:59
bedding dips, 196A4:19–20
borehole breakouts, 196A4:52–53; 204A3:37–38, 98; 10:87
conductive minerals, 193A4:229
coring test summary, 204A8:98
décollement zone, 196A4:21–22, 50–51
Formation MicroScanner imagery, 204A6:23; 9:27; 10:35
fractures, 196A3:57; 4:18–19, 45
frontal thrust zones, 196A4:20–21, 46, 49
gas hydrates, 204A4:94; 7:21, 61; 8:75
imagery, 209A10:38, 142
lithology, 196A3:20–21, 52–54, 59
original and smoothed, 209A10:143
photograph, 204A3:95–97
- resistive units, 193A4:228
- seismic Horizon A, 204A3:68; 4:95
- seismic profiles, 204A6:31
- stress orientation, 204B4:1–14
- structures, 209A10:144
- three-dimensional display, 209A10:145
- turbidites, 204A4:96
- vs. depth, 193A3:250–251; 204A4:89; 5:51–53; 6:61, 66–68; 7:27, 59–61; 8:31, 72–75; 9:72–75; 10:82–89; 204B1:34–36
- vs. Formation MicroScanner imagery, 193A1:76; 4:65, 230
- vs. gamma ray logs, 193A3:252
- well-logging, 204A4:30–31
- resistivity-gamma ray logs
Site 962, 159A8:294
Site 1018, 167A(1)12:349–350, 352
Sites 959, 960, and 962 comparison, 159A8:292
vs. depth, 155A11:319; 159A6:214–215
- resistivity logs
automatic modeling, 133B46:687–694
basalts, 144A9:319; 185A3:42–43; 185B1:24
breakouts, 196A1:27
carbonates, 144B17:339
core depths, 127/128B(2)66:1040
core-log correlation, 127/128B(1)23:398–400
core scanning, 133B59:853–854
corrective modeling, 133B46:689–690
correlation, 172A6:303–304; 174AXS_A5:63; 196A3:25–26, 45, 68; 4:25–26, 61
cyclicality, 133A(1)8:290–291; 143B20:320–326; 151A9:302–304
density, 171A_A3:32; 4:47; 5:66; 6:86–87; 7:100–101; 196A1:7, 10
deposition, 144B18:363
downhole measurements, 133B45:661–686
gas hydrates, 164A6:142–144; 164B19:179–191
Japan Sea, 127/128B(2)84:1354
large-scale experiment, 102A3:97
lithology, 127/128B(2)84:1354; 129B30:534; 143B21:330; 173A3:51–61; 185A4:45; 191A1:17; 205A4:62
lows, 188A5:33
measurement, 191A4:42–43; 193A3:93; 4:60, 63
Ontong Java Plateau, 130A9:454–456, 468–472, 478–485
opal-A/opal-CT transition, 127/128B(1)1:22
opal-CT/quartz transition, 127/128B(2)66:1040
porosity, 164B19:186–187; 209A10:39–40
resolution, 127/128B(1)23:396–397, 404–405
reverse faults, 127/128B(2)75:1183, 1189; 128A5:263, 271–272
sediments, 144B12:234–235; 190A4:31–32, 81; 201A11:29–30
seismic stratigraphic tool string, 133A(1)14:604
Site 504, 137/140B26:306–307; 140A2:113
Site 735, 176A3:90–92
Site 754, 121A8:230
Site 792, 126A8:289
Site 793, 126A9:389

Site 794, 127A4:139–146, 156–159; 127/
 128B(2)68:1069; 128A3:104, 107, 119–120
 Site 795, 127A5:232, 237
 Site 796, 127A6:302–305, 321–322
 Site 797, 127A7:393–395, 400–402, 416–418; 127/
 128B(1)1:7
 Site 798, 127/128B(1)23:399–402; 128A4:185–187,
 212, 225–228
 Site 799, 128A5:332–338, 362–364, 380–382, 393–397
 Site 812, 133A(1)5:160–164, 167
 Site 814, 133A(1)7:222–225, 227, 232–233
 Site 816, 133A(1)9:321–322
 Site 817, 133A(1)10:373, 399
 Site 819, 133A(1)12:474–476
 Site 820, 133A(1)13:533, 535–536, 551, 555
 Site 821, 133A(1)14:589, 603
 Site 823, 133A(1)16:723–724
 Site 824, 133A(1)17:785–786
 Site 825, 133A(1)4:111–112, 129
 Site 829, 134A9:227–228
 Site 830, 134A10:290–291
 Site 856, 139A6:251
 Site 857, 139A7:362
 Site 858, 139A8:527–528
 Site 865, 143A6:165
 Site 871, 144A3:78–79, 81
 Site 873, 144A5:189
 Site 874, 144A6:238–239
 Site 925, 154A4:122
 Site 950, 157A4:54, 96–98
 Sites 676 and 1047 comparison, 171A_A6:87
 Sites 794 and 797 comparison, 127/128B(2)66:1039,
 1041
 Sites 867–868, 143A8:286–288
 spectral analysis, 130B44:731
 statistical analysis, 159B16:166–168
 stress field, 127/128B(2)75:1182–1183
 thin-layer effect, 133B46:688
 vs. bulk density, 138A(1)12:378
 vs. compressional wave velocity logs, 203A3:70
 vs. density logs, 196A4:18, 43; 202A12:70
 vs. depth, 131B17:215; 133A(1)7:236; 12:499; 16:742–
 743; 17:795; 135A(1)5:234, 237–238; 8:384;
 9:464; 10:551–552; 11:659; 135B7:129;
 136A5:88–91; 137/140B26:307–308;
 138A(1)9:175; 10:249; 11:315; 12:373, 380;
 (2)15:870; 16:949, 955; 139A6:275; 7:406;
 139B36:579; 141A10:419; 143A7:245; 9:354;
 144A3:91–92; 5:196; 6:246; 10:384–387;
 145A3:77; 5:185, 188; 6:281; 8:382, 384;
 146A(1)5:207–211; 7:365; 146B(1)20:318;
 23:362; 148A2:35; 149A6:199; 7:254;
 150A6:111; 7:183–184; 8:240; 9:295; 10:337;
 151A6:148; 7:206; 8:259; 9:303; 152B37:442;
 154A4:132; 5:211, 215–216; 6:260–261, 266;
 7:325; 8:398; 9:440; 155A7:159; 9:226, 230;
 10:267–268; 11:305–306; 12:363, 365; 16:490,
 492; 20:622–623; 22:683–684; 155B26:423–424;
 156A5:74, 79–82; 6:162, 165; 157A6:168, 175–
 176; 7:378; 9:473; 10:540; 159A6:202; 8:290;
 159B22:231, 235, 239; 160A6:146–147; 7:203–

205, 211–213; 8:267–269, 278–281; 9:325–327;
 11:408; 12:447; 14:491; 161A4:103–104, 107–
 108; 5:164–165; 6:269–275; 7:338–339, 342,
 344; 9:417–418; 161B24:321; 162A4:123, 125;
 6:204; 9:326; 10:378; 162B10:151; 164A6:139,
 142; 7:210, 213–214; 9:308–309; 164B1:6;
 26:258; 165A3:92; 4:192; 5:272; 6:338;
 165B11:195; 13:223; 166A6:101, 107–108;
 8:197; 9:259; 10:322; 166B15:160–162;
 167A(1)5:117; 8:209; 10:271; 12:343; 13:377;
 14:419; 16:484; 168A6:198, 203–204;
 169A3:132; 5:230–231; 170A3:85; 4:143, 148;
 6:212; 7:241–242; 171A_A3:25, 32; 4:44, 47, 49;
 5:56, 59, 65, 70, 74; 6:83, 88–89; 7:95, 99, 104;
 171B_A5:234; 172A5:243; 6:300; 173A4:97;
 7:214–215; 8:261; 174A_A3:89, 94–95; 4:137–
 139; 174AXS_A4:36; 175A5:141; 9:271; 10:311;
 12:383; 13:427; 15:484; 16:494; 176A3:234–235;
 177A8:63; 178A4:88; 9:66, 69; 178B19:27;
 32:19; 179A4:155; 179B3:25–26; 184A4:73–74;
 5:68–69; 7:67; 9:80; 185A1:45, 48, 54; 3:70;
 4:139; 185B8:12; 186A4:94; 5:34, 84;
 188A3:160, 163, 190; 4:89; 5:82–83; 188B1:39,
 41; 14:31; 189A1:87; 3:109; 190A4:81;
 191A4:117; 193A3:250; 195A1:54; 4:153;
 196A1:23, 25; 3:47–54, 57–59, 65–67, 83; 4:33,
 38–42, 50; 197A1:41–42; 3:131, 133; 198A1:135;
 3:108; 9:86, 88; 199A11:81–83; 12:86;
 200A1:56–57; 4:52–53, 153; 200B1:31;
 201A11:84–85; 202A12:70; 203A1:27; 3:69, 73;
 206A3:161, 322; 207A4:68–70, 72; 5:79–81;
 7:72; 8:68–73; 207B14:11; 208A4:62–63; 6:76,
 80–82; 209A7:34, 112; 10:146
 vs. Formation MicroScanner imagery, 196A3:82
 vs. gamma ray logs, 203A3:70; 209A7:120
 vs. microconductivity logs, 202A12:72
 vs. porosity, 131A6:192–194, 239; 146B(1)20:315–317
 vs. sonic logs, 133A(1)9:334; 188A4:96
 vs. traveltime, 174A_A4:143
 vs. velocity logs, 133A(1)14:606; 15:667; 178B19:29
 well-logging, 102A3:109
 Yamato Basin N, 128A3:75–76
 zoning, 133A(1)8:275–279; 10:373, 375
 See also deep induction resistivity logs; deep resistivity
 logs; gamma ray-density-porosity logs; inte-
 grated resistivity logs; intermediate resistivity
 logs; medium induction spherically focused re-
 sistivity logs; medium resistivity logs; microre-
 sistivity logs; phasor induction logs; phasor
 resistivity logs; self focusing resistivity logs;
 shallow induction spherically focused resistivity
 logs; shallow resistivity logs
 resistivity logs, deep
 vs. depth, 171B_A4:165; 5:234; 6:313; 174A_A4:144–
 148; 5:184, 186
 vs. gamma ray logs, 174A_A4:151
 vs. spectral gamma ray, 174A_A4:142
 resistivity logs, medium, 174A_A4:144, 146, 148
 resistivity logs, shallow
 vs. depth, 174A_A4:141, 144–149; 5:186
 vs. spectral gamma ray, 174A_A4:149

- vs. velocity logs, 174A_A4:149
- resistivity logs, spherically focused. *See* spherically focused resistivity logs
- resistivity-natural gamma ray logs
- lithology, 140A2:181–191; 143A8:295
 - Site 839, 135A(1)9:479–481
 - Site 856, 139A6:281
 - Site 857, 139A7:427–429
 - Site 858, 139A8:569
 - Site 899, 149A6:206
 - Site 900, 149A7:260–261
- resistivity-sonic-gamma ray logs
- lithology, 130A5:169–172
 - Site 800, 129A2:84–85
 - Site 801, 129A3:168–170
 - Site 802, 129A4:238–239
 - Site 812, 133A(1)5:173–174
 - Site 814, 133A(1)7:239–240
 - Site 815, 133A(1)8:298–299
 - Site 816, 133A(1)9:340–341
 - Site 817, 133A(1)10:402–406
 - Site 819, 133A(1)12:503–505
 - Site 820, 133A(1)13:559–561
 - Site 821, 133A(1)14:609–611
 - Site 822, 133A(1)15:672–673
 - Site 823, 133A(1)16:751–756
 - Site 824, 133A(1)17:801–803
 - Site 825, 133A(1)4:133–134
 - Site 829, 134A9:252–254
 - Site 830, 134A10:310–311
 - Site 831, 134A11:373–377
 - Site 832, 134A12:472–476
 - Site 833, 134A13:548–551
 - Site 834, 135A(1)4:172–174
 - Site 835, 135A(1)5:244
 - Site 838, 135A(1)8:392–393
 - Site 840, 135A(1)10:559–562
 - Site 841, 135A(1)11:672–674
 - Site 844, 138A(1)9:183–184
 - Site 845, 138A(1)10:258–259
 - Site 846, 138A(1)11:325–327
 - Site 847, 138A(1)12:388–389
 - Site 849, 138A(2)14:802–803
 - Site 850, 138A(2)15:881–883
 - Site 851, 138A(2)16:960–961
 - Site 857, 139A7:421–424
 - Site 858, 139A8:564–565
 - Site 865, 143A6:171–175
 - Site 866, 143A7:262–271
 - Site 869, 143A9:361–365
 - Site 950, 157A4:96–98
 - Site 953, 157A7:388–390
 - Site 966, 160A7:211–213
 - Site 967, 160A8:278–281
 - Site 968, 160A9:332–333
 - Site 970, 160A11:412–413
 - Site 971, 160A12:449
 - Site 973, 160A14:494
 - Site 974, 161A4:107–108
 - Site 975, 161A5:170–171
 - Site 976, 161A6:281–285, 296
 - Site 977, 161A7:348–350
 - Site 979, 161A9:421–423
 - Site 982, 162A4:131–134
 - Site 984, 162A6:211–213
 - Site 986, 162A9:334–336, 340–341
 - Site 987, 162A10:382–384
 - Site 994, 164A6:161–163, 171–174
 - Site 995, 164A7:234–237
 - Site 997, 164A9:327–330
 - Site 998, 165A3:120–125
 - Site 999, 165A4:221–227
 - Site 1000, 165A5:286–289
 - Site 1001, 165A6:355–357
 - Site 1003, 166A6:118–123
 - Site 1005, 166A8:209–211, 219–220
 - Site 1006, 166A9:270–273
 - Site 1007, 166A10:332–338
 - Site 1011, 167A(1)5:124–125
 - Site 1014, 167A(1)8:217–219
 - Site 1017, 167A(1)11:282–283
 - Site 1019, 167A(1)13:384–385
 - Site 1020, 167A(1)14:426–427
 - Site 1022, 167A(1)16:490–492
 - Site 1035, 169A3:144–146
 - Site 1037, 169A5:237–240
 - summary, 130A7:279–282; 8:356–359; 9:468–472, 478–485; 131A6:256, 269; 136A5:95–98
 - vs. depth, 155A7:172–173; 157A9:482–485; 10:547–548; 159A5:135–139; 6:209–210; 160A6:152–153
- resistivity-velocity-gamma ray logs
- Site 933, 155A9:238–239
 - Site 935, 155A10:271
 - Site 936, 155A12:379–380
 - Site 940, 155A16:500–501
 - Site 944, 155A20:630–631
 - Site 946, 155A22:690–691
 - vs. depth, 148A3:178–179
- resistivity-velocity-natural gamma ray logs
- Site 801, 144A9:326
 - Site 859, 141A6:149–151
 - Site 860, 141A7:238
 - Site 863, 141A10:433–437
 - Site 871, 144A3:100–101
 - Site 873, 144A5:202–203
 - Site 874, 144A6:250
 - Site 878, 144A10:399–403
 - Site 879, 144A11:438, 441
 - Site 881, 145A3:82–83
 - Site 883, 145A5:194–198
 - Site 884, 145A6:289–293
 - Site 887, 145A8:387–389
 - Site 888, 146A(1)4:120–122
 - Site 889, 146A(1)5:232–233
 - Site 889, 146A(1)5:236–237
 - Site 891, 146A(1)6:295–297
 - Site 892, 146A(1)7:377
 - Site 902, 150A6:118–122
 - Site 903, 150A7:191–194, 199–202
 - Site 904, 150A8:246–249
 - Site 905, 150A9:302–305

- Site 906, 150A10:346–349
Site 907, 151A5:109
Site 908, 151A6:155–156
Site 909, 151A7:212–217
Site 910, 151A8:265–268
Site 911, 151A9:309–311
Site 925, 154A4:136–140, 147–149
Site 927, 154A6:274–276
Site 928, 154A7:330–333
Site 929, 154A8:403–407
See also well-logging
resistivity wireline logs, vs. depth, 204A3:93; 4:92; 6:64;
9:70; 10:85
resorption
 oligoclase, 157B14:212
 photomicrograph, 187A6:17; 15:19; 197A5:48; 6:45;
 198A9:62
 plagioclase, 183A5:31
resources, gas hydrates, 164A1:6
resting spores
 backscattered electron photomicrograph, 178B18:13–
 14
 lithology, 178A7:4–10
Restionaceae
 pollen, 133B10:116
 Sites 815 and 823, 133B10:126
restite, gneisses, 161B20:284
retene, maturation, 139B24:459
retention times, hydrocarbons, 160B22:274, 276
reticulite (basaltic pumice), photomicrograph, 197A3:61
reticulofenestrads
 mass accumulation rates, 138B9:169–170
 Miocene, 138B9:167
 Miocene–Pliocene interval, 184A1:12
 Pacific Ocean E, 138B9:167, 175; 12:278
 Sites 815 and 817, 133B18:255–261
 size/frequency distribution, 133B18:255–261
 taxonomy, 138B9:176
retrogradation, lithology, 166A8:179–180
retrograde foliation. *See* foliation, retrograde
retrograde metamorphism
 basement, 173A1:13
 intrusions, 180B3:8–10
 mud volcanoes, 195A1:11
 tectonics, 173A7:217
Réunion Subchron
 Antarctic regions, 114B5:98
 carbonate platforms, 166A3:33
 correlation, 132B2:29; 134A12:423; 145B34:498
 impacts, 178A2:18
 Labrador Sea, 105A6:712, 716
 magnetic polarity, 135A(1)5:209; 9:423–424;
 145A4:101; 180A6:51–52; 12:35
 magnetostratigraphy, 138B38:786–791; 149A5:129;
 152A11:221; 152B22:268; 162A3:71, 73; 4:112;
 6:189; 162B8:115; 10:151; 172A7:316–317;
 173B11:9; 178A8:12; 178B36:8, 11; 37:10, 16;
 180A1:4; 9:38; 181A6:22–23; 8:25
 Ninetyeast Ridge, 121B39:797–798
 remanent magnetization, 160B5:67
 sediments, 178B9:2; 36:9; 37:13–14
 Site 704, 114B23:419
 Site 737, 119B43:754
 Site 745, 119B43:753
 Site 852, 138A(2)17:987, 990–993
 Site 854, 138A(2)19:1075–1077
 Site 859, 141A6:93
reverberant layers, lithofacies, 129A2:77–80
reverse faults. *See* faults, reverse
reverse grading, photograph, 205A5:56
reworking
 accumulation, 144B2:39, 42–43
 algae, 133B5:71
 alteration, 166A3:34
 assemblages, 144B7:142–143
 biostratigraphy, 129B12:230; 130A7:245; 130B8:104;
 14:261; 133A(1)10:353; 136B1:7–8; 138B9:169–
 170; 11:203, 205, 231; 143B3:47, 49; 150B1:14;
 151B14:258, 281; 152B17:237; 162B3:88; 4:106;
 183B4:12–13; 185B2:4; 202A9:12–13; 10:10;
 11:10; 202B6:4; 206B2:11–12
 carbonates, 130B3:46; 133A(1)6:185; 144B15:301–304
 Cenozoic, 144B41:688
 clasts, 180B8:12
 connotations, 134A12:408–409
 correlation, 155B39:598–599
 deposition, 144B47:829
 evidence, 130B5:72
 felsic rocks, 183A7:42–43
 fossils, 132A4:87–89
 glaucinite, 120B(1)9:117; 150B10:177–178, 182
 green clay, 184B15:7–8
 ichthyoliths, 136B2:30; 145B26:404
 lithology, 165A4:145; 180A9:20; 10:7–8; 183A6:8; 8:7
 microfauna, 178A9:6
 miospores, 131B5:61
 oolites, 143B10:136–137
 opal, 178B23:10–11
 photograph, 165A3:59
 pollen, 151B16:297–305
 sandstone, 180B7:10
 sedimentation, 144B43:740–742
 sediments, 144B21:411–417; 159B43:599
 sequence stratigraphy, 133B25:360
 shells, 150X_B25:351
 Site 747, 120B(2)31:555; 53:953–954
 Site 748, 120A7:191
 Site 750, 120B(2)53:953–954
 upper Eocene, 189B1:12
 volcanic detrital siliceous deposits, 129B2:42
 volcaniclastics, 129B5:146; 157A8:407; 157B16:277–
 278
 vs. depth, 189A3:80
Rhagodiscaceae, photomicrograph, 198B7:66–67
Rhaxella sponge spicules, photomicrograph, 173A8:233
rhenium
 black shale, 210B8:16; 10:5
 diagenesis, 167B23:265–266
 hydrothermal mounds, 158B7:91–100
 Paleocene/Eocene boundary, 199B16:3
 sediments, 159A1:14; 159B18:182–184; 167B23:264
 vs. depth, 167B23:266; 199B16:7

- rhenium/osmium ratio
 nannofossil/foraminifer oozes, 159B18:184–185
 vs. osmium isotopes, 159B19:185
- rheology
 analytical methods, 125B20:364–365
 Conical Seamount, 125B20:370–371
 continental lithosphere, 149B40:637
 décollement structures, 159B3:28
 deformation, 153B7:123–141; 186B1:7–8
 drilling disturbance, 125B20:368
 microstructures, 159B2:17
 mud, 160A1:13–14
 normal vs. serpentinite muds, 125B20:369–370
 pelagic/volcaniclastic sediments, 125B20:366–368;
 36:609–610
 plastic solids, 125B20:365
 seamounts, 195A1:8
 sedimentary wedges, 170A4:113
 serpentinite, 125B19:352, 354, 359
 serpentinite mud, 125B20:365–366, 369
 Torishima Forearc Seamount, 125B19:352
 yield strength, 125B20:365
- Rhizobium radiobacter*, cultured isolates, 201B2:9
- Rhizocorallium*
 lithofacies, 169A3:56
 photograph, 169A3:62
- rhizoliths, diagenesis, 144B46:796, 806–807
- Rhizophora*, sediments, 175B10:6–7
- Rhizophoraceae
 pollen, 133B9:109, 111
 Site 820, 133B9:109, 111–112
- rhizosolenids, paleoecology, 160B28:357–358
- rhodium
 Mascarene Plateau, 115B7:77
 Nazareth Bank, 115B7:77
 Site 713, 115B7:77
 Site 715, 115B7:77
- rhodochrosite
 authigenic carbonates, 151B24:419–421, 431–433
 authigenic formation, 123B5:121
 cerium, 127/128B(1)6:90–91
 chemical composition, 127/128B(1)6:81–82, 84–85
 Cretaceous, 123A4:105, 246
 deep-sea sediments, 185B7:5, 8–9
 formation, 127/128B(1)6:85, 90–91
 geochemistry, 123B3:84–85; 156B13:173; 29:356
 ghosts, 123B15:308
 iron, 127/128B(1)43:742
 isotopes, 127/128B(1)6:83
 Labrador Sea, 105B10:140, 147, 150
 lithology, 177A4:6–7
 manganese, 123A4:147; 123B3:83–84
 Mossbauer parameters, 127/128B(1)43:741
 Neogene, 159A9:308
 occurrence, 127/128B(1)6:80
 paleoenvironment, 127/128B(1)6:94
 petrography and textural relations, 127/128B(1)6:81
 photograph, 145A3:46; 151B24:431–433; 156A6:117
 scaly fabrics, 110A8:493
 scanning electron microscopy, 127/128B(1)6:97
 sedimentary wedges, 170A4:113
 Site 765, 123A4:89–90, 98–100, 103, 127, 152;
 123B3:82; 39:752–753
 Site 799, 127/128B(1)6:75–98; 43:744–745
 smarl turbidites, 123B5:120–121
 veins, 156A7:225; 156B5:84–85, 92
 vs. depth, 151B24:425
 X-ray diffraction data, 127/128B(1)6:79–80;
 156A6:116; 159A6:177
- rhodochrosite, calcian, Site 765, 123B3:79
- rhodochrosite rocks, dropstones, 145B12:196–203
- rhodoliths
 abundance in carbonates, 144B6:130
 development model, 133B29:457
 lithofacies, 144B14:277; 17:340–359
 lithology, 133A(1)9:307; 17:779; 18:808; 180A6:24;
 9:23; 12:20; 194A4:7–8; 7:6–15; 9:5–8
 Miocene, 133B29:455–460; 34:500; 160B33:421
 outer perimeter ridges, 144B15:296–300
 photograph, 144B15:305; 180A12:82; 194A7:48, 52,
 68–69; 9:34, 36
 photomicrograph, 160B33:424; 180A9:89; 194A9:35
 redeposition, 133B5:71
 textures, 144B16:317
 See also melobesoids
- Rhodophyta
 Cenozoic, 133B27:401
 Eocene–Pliocene interval, 133B5:67–74
 guyots, 144B53:945
 lithofacies, 143B30:483–484; 144B14:277
 lithology, 144A5:155–158
 microfacies, 133B21:292–293, 297–298
 Miocene, 133B29:455–460
 photograph, 144B15:305
 photomicrograph, 129B6:164; 133B5:73–74; 34:503
 Pigafetta Basin, 129B6:156, 160
 porosity, 143B29:453
 Queensland Plateau, 133A(1)5:147; 133B5:67–71;
 27:401; 29:455–460; 34:503
 vs. depth, 144B14:280–281
 See also corallineans; coralline algal facies
- rhombs
 alteration, 166A3:34
 dolomite, 175A16:494–495; 175B15:6–7
 siderite, 164B30:306
- rhyodacites
 alteration, 135B40:653–663; 193A3:36–51
 geochemistry, 193A3:69, 71
 lithology, 193A1:4
 petrography, 161B3:42
 photograph, 161A7:312
 photomicrograph, 193A6:16
 stratigraphy, 141B27:333–334
 thin sections, 161A9:1019–1022
 volcanic ash, 134B21:409, 411–412
 volcanic glass, 127/128B(2)87:1378
 See also clasts, rhyodacite
- rhyodacites, altered
 petrology, 193A6:3–4
 photograph, 193A1:80; 6:15
 photomicrograph, 193A4:146; 6:17–18
- rhyodacites, aphyric, photograph, 193A1:79; 6:14

- rhyodacites, porphyritic, alteration films, 193A3:37
- rhyodacites, unaltered, volcanism, 193B1:11-12
- rhyodacites, vesicular, photograph, 193A1:43; 3:103
- rhyodacites, vesicular microlite-bearing glassy, lithology, 193A3:21-33
- rhyolite agglutinate, photograph, 183A7:85
- rhyolite clasts. *See* clasts, rhyolite
- rhyolite domes, hydrothermal deposits, 126B42:642-643
- rhyolite flows
 lithology, 141A9:313
 Site 786, 125A14:326-327
- rhyolite fragments, banded, photomicrograph, 190/196B3:27
- rhyolite volcanism. *See* volcanism, peralkaline rhyolite
- rhyolites
 age, 161B27:362-363
 arc vs. rift origin, 126B26:393, 395-396
 ash fall layers, 157B14:202-205
 autobrecciation, 125B14:269
 basement, 183A1:35
 Celebes Sea, 124A10:142
 clasts, 183A1:18
 composition, 135B25:433-455; 52:837; 183A5:127
 crystallization, 125B10:187
 dating, 135B57:923
 eruptions, 183A1:37-38
 fractionation, 124B35:476
 Galicia margin W, 103A10:424; 103B5:55-57
 geochemistry, 104B18:359; 126B26:393-396, 401; 27:419; 135B38:625-646; 145B44:664-665
 geochronology, 157B11:129
 Izu arc, 126B26:385
 lithology, 125B9:166; 183A1:24
 mafic phenocrysts, 125B10:182
 magmatism, 161B44:574
 magnesium number, 125B10:196
 mineralogy, 125B10:195; 38:632
 Miocene, 104A4:82; 157A2:20-21
 neodymium isotopes, 125B13:249-250
 Neogene-Quaternary interval, 104A4:81
 parental magma, 125B10:188; 126B33:512
 petrogenesis, 141B27:342-345
 petrography, 125B10:180-181; 13:239; 161B27:357-359
 petrology, 126B26:392-393; 134B17:355, 357; 141B28:349-360
 photomicrograph, 161B27:362; 165A3:81; 183A5:109
 pyroclastics, 161B12:151-155
 shallow-level processes, 125B12:227
 sources, 126B26:393
 stratigraphy, 141B27:333-334
 strontium isotopes, 125B13:246
 subaerial vs. subaqueous origin, 135B38:634
 Sulu Sea, 124A11:270-271
 tephra, 151B18:341-343; 183B9:7-8
 trace elements, 125B12:222-223, 226; 126B27:421
 tuffs, 127/128B(1)42:731
 types A and B, 126A6:121
 volcanic ash, 127/128B(2)48:793; 145B23:371; 151B17:317, 324-327
- volcanic glass, 127/128B(2)87:1378; 135B4:62; 152B5:57-64; 201B19:10
- volcanic pebbles, 161B44:569
- volcaniclastics, 157B27:452-453
- volcanism, 181B1:23-26
- zirconium/strontium ratio, 125B12:223
See also clasts; comendite; glass shards; lava; tuffs
- rhyolites, boninitic
 mineral melt equilibria, 125B10:186-187
 rock-water phase diagram, 125B10:200
- rhyolites, dark red welded vesicular, 183A7:15-17, 26
- rhyolites, flow-banded, lithology, 183A5:3
- rhyolites, hornblende, argon isotopes, 141B35:421-426
- rhyolites, low-potassium, composition, 135B55:897
- rhyolites, microcrystalline
 ash fall layers, 157B14:205
 photomicrograph, 157B14:217
- rhyolites, quartz-plagioclase, petrology, 135A(1)11:632-635
- rhyolites, sanidine-phyric
 basement, 183A1:26; 7:36
 flow-banded clasts, 183A5:32-33
- rhyolites, vesicular, basement units, 183A7:37
- rhyolites, vitric
 ash fall layers, 157B14:205
 photomicrograph, 157B14:218
- rhyolites, vitrophyric, geochemistry, 135B30:533-542
- rhyolitic composition, volcanic ash, 198B18:6
- rhythmic bedding
 composite section, 188B12:14-15
 deepwater circulation, 198A1:70-71
 lithology, 198A4:9-12
 photograph, 188A4:57
- rhythmite
 couplet lithology, 133A(1)12:460, 464-465
 mudstone contact, 119B6:130
 Prydz Bay, 119B6:108, 127
 rifting, 159B12:115-116
 sedimentation in Atlantic Ocean, 123A1:7
- rhythmite, laminated, photograph, 159B13:126
- ribose media, Oman margin N, 117B32:540
- ribosomal intergenic spacer analysis, 201B3:5-9, 14
- ribosomal ribonucleic acid (16S)
 microbiology, 148B14:207-212; 201B1:16-20, 29; 2:1-8; 3:5-9; 207B13:1-6
 phylogeny, 201B3:15-16
- ribotypes, microbial community, 201B3:6-9
- richterite
 stratigraphy, 157B15:231
 titanium, 149B32:543
- ridge crests, tectonics, 178A2:8, 19
- ridge deposition, paleoenvironment, 159A6:175-176
- ridge-flank circulation, alteration, 148B10:138-141
- ridge propagation
 plates, 135B24:399
 sonar imagery, 135B23:373
 tectonics, 135B51:819-828; 55:897-899
- ridge-push force, rising plume material, 129B33:629
- ridge/transform intersection
 bathymetry, 118B21:367
 evolution, 153B4:72-74

- inside corner highs, 118B21:368
- lithology, 118B26:441
- mass-wasting features, 118B25:431
- nodal basins, 118B21:366
- outside corners, 118B21:368
- tectonic evolution of gabbros, 118B24:428
- topographic asymmetry, 118B21:368
- transform volcano, 118B21:366, 368
- ridges
 - collision, 134B35:609–621; 135B53:843–855; 141B13:185–186
 - dynamics models, 118A1:3
 - guyots, 144B33:568–570
 - segmentation, 120B(2)51:933–934
 - subduction, 141B10:141; 11:160–161
- ridges, inner perimeter
 - aggradation, 144B45:784
 - deposition, 144B47:826–828, 836–840
 - diagenesis, 144B46:796–803
 - lithology, 144B13:268; 45:772, 774, 778–781
 - paleoenvironment, 144B14:271–294
 - stratigraphy, 144B49:877–878
- ridges, transverse
 - bathymetry, 118B21:370, 372
 - crustal thickness, 118B21:368
 - elevation above normal seafloor, 118B21:368
 - evolution, 118B21:392–395
 - excessive subsidence, 118B21:395
 - saddle morphology, 118B21:368, 371
 - seismic stratigraphy, 118B10:219, 225
 - uplifts, 118B26:511
- Riedel shear surfaces
 - diamict, 178A9:19
 - photomicrograph, 179A4:141
 - sediments, 205A5:20
 - stereographic projection, 205A5:66
- Riellaceae, sporomorphs, 183B3:7
- rift basins
 - deposition, 180A1:16–21
 - Formation MicroScanner imagery, 180B25:15–16
 - sand, 180B7:1–58
 - sediment provenance, 180B6:1–53; 7:21–22
 - tectonostratigraphy, 149B39:625–627
 - turbidite facies, 180B9:1–30
- rift basins, deep water, sedimentation, 180A6:33–34
- rift climax, tectonostratigraphy, 149B39:625–627
- rift initiation, tectonostratigraphy, 149B39:625–627
- rift systems
 - geology, 210A1:1–78
 - lithology, 194A5:8
 - tectonics, 194A1:4–5
- rift tip tectonic environment, basalts, 187A12:11
- rift valleys
 - deep-tow photography, 153B1:7–13
 - drilling, 153A1:5–6
 - gabbros, 179B2:3–4
 - Late Cretaceous, 181A1:3
 - neovolcanic zones, 158A2:16–18
 - Norwegian-Greenland Sea, 151A1:8–9
 - peridotites, 209A3:32–33
 - plate spreading geometry, 209B1:13–15
 - polyphase alteration, 147B13:236
 - sedimentation, 151B17:326–327
 - tectonics, 147A16–8; 147B6:107, 109; 15:307; 179B(synthesis):5–7
 - transform faults, 179A4:6–8
 - See also* grabens
- rift zones
 - flank ridges, 144B33:568–570
 - lithology, 193B1:5
- rifted margins
 - Atlantic Ocean N, 149A1:5–10
 - basalts, 152B40:493; 41:503–533
 - detachment tectonics, 149B38:603–615
 - geology, 163X_A1:1–19
 - Greenland, 152A1:5–16
 - tectonics, 149B43:665–674
 - volcanics and nonvolcanics, 152A1:5–6
- rifting
 - active tectonics, 121A1:7–8
 - Atlantic Ocean S, 114B12:233
 - Balearic Sea, 107B1:12
 - basement, 107B38:623
 - Broken Ridge, 121A1:5; 121B21:437–438
 - Cagayan Ridge, 124A12:341; 124B21:308–309
 - Celebes Sea, 124B1:3, 7–8
 - Cenozoic, 152B10:139; 182A1:3
 - Chron M0, 210B1:45–46
 - compression, 149B41:654–656
 - continental crust, 210A5:36
 - continental margins, 149B1:9–11, 18; 47:730; 152A13:289–290
 - Cornaglia Terrace, 107A10:749
 - correlation, 107B38:642
 - Cretaceous, 123B10:210, 212; 133A(1)1:25
 - cross sections, 176A1:49–50
 - cycles, 159B12:120–121
 - deposition, 145B27:413–434; 38:593; 189A1:6
 - diachroneity, 107B1:24
 - duration, 121A1:10; 7:172; 13:500; 121B36:732
 - evolution, 135B12:173, 175
 - extensional basins, 161A1:10–11
 - flexural modeling, 121A4:90
 - Galicia margin W, 103A1:3
 - geochemistry, 121B21:444; 135B52:839–841
 - geology, 160B54:737–738; 169A1:12; 207A1:3–4
 - geometry, 161B44:561
 - history, 121A1:7, 12; 123A1:5; 123B42:792–793; 149B39:627
 - indicators, 129B7:174
 - initiation, 126A11:418; 126B26:386
 - island arcs, 126A2:9; 126B38:557; 135B18:288–289
 - Jurassic, 173B7:1–24
 - Kerguelen Plateau, 120B(2)51:943
 - Late Cretaceous, 181B1:4–5, 38–40
 - late Miocene, 180B(synthesis):8–10
 - Lau Basin, 135B3:23–49
 - lithofacies, 159B12:115–116
 - lithology, 184A9:11
 - lithosphere, 149A1:5; 173A:7
 - lower oceanic crust, 176B(synthesis):18–23; 9:22
 - magmas, 163B9:104–110

magnetic properties, 121A13:491
 marginal basins, 124B30:402
 Marsili Basin, 107B38:723
 metamorphism, 173A7:217
 Meteor Rise, 114B21:367
 mid-ocean ridges, 137/140B2:19–33
 Miocene, 161B44:573
 models, 147A17–8
 nonvolcanic margin, 149B47:726
 Northeast Georgia Rise, 114B19:337
 ocean–continent transition, 149B47:713–733
 oceanic basalts, 163B7:71–72
 paleodepths, 121B36:733, 747
 peridotites, 149B22:409–410
 phases, 210B1:6–15
 plate tectonics, 149B25:438–441
 plateau origin, 120B(1)5:71
 Pliocene, 180B2:13
 preglacial sedimentary basin fillings, 163X_A8:5
 pre-Tortonian, 107B1:22
 pressure-temperature conditions, 180B3:10–11
 propagation, 173A1:18
 proto-Izu-Bonin arc, 190A1:3
 Quaternary, 180B(synthesis):13–14
 Reed Bank, 124B4:53
 rift-onset unconformity, 119B1:20–22
 rift-to-drift sequence, 107B38:660
 sand, 149B11:276
 sandstone, 180B7:21
 Sardinian margin, 107A8:407; 10:785
 SCREECH transect 2, 210A5:6
 seafloor spreading, 151B1:7–9
 seawater, 208B1:19–20
 sediment provenance, 180B6:20–24
 sedimentation, 135B22:367–371; 53:843–855;
 159B15:137–138
 sediments, 107B38:649–651; 180B6:18–24
 Shikoku-Parece Vela Basin, 124B3:45
 Site 702, 114A9:484
 Site 747, 120A6:151
 South China Sea, 121A1:17; 124B3:43
 Southeast Asian margin, 124B3:47
 stratigraphy, 186B1:5
 subsidence, 107B38:725; 161B5:75; 180A1:8–9
 sulfur isotopes, 159B14:130–131
 summary, 210A1:40
 synrift/postrift sediments, 107B38:618
 tectonics, 147B28:472–473; 149B39:629; 159B2:19–
 20; 160A1:16; 160B54:775; 173A7:215–217;
 180A1:1–77; 3:1–20; 180B(synthesis):3–4, 13–
 14; 189B1:6
 terranes, 189A1:9
 thermal history, 159B5:45
 Tortonian, 107B38:623
 Tortonian–Messinian event, 107B38:629, 722, 725
 transform faults, 159A1:11; 9:297–299
 transform margins, 159B11:107–108
 Triassic, 160B54:728
 Tyrrhenian Sea, 107B1:3, 6–7, 17; 38:727
 uplifts, 126A11:418
 volcanic history, 151A1:11–16

volcanism, 125B11:208; 163B6:59–61
 water depths, 121A4:86
See also bedding, prerift; bedding, synrift; paleorift basins
 rifting, backarc
 geochemical effects, 126B31:482
 Japan Basin N, 127A5:238
 Japan Sea, 127A1:16; 6:258; 128A1:11
 mechanisms, 127A1:5
 Site 794, 127A4:84; 128A3:82–83
 Site 795, 127A5:179–180
 Site 796, 127A6:258
 Site 797, 127A7:336
 Yamato Basin S, 127A7:336–337
 rifting, continental, dynamic models, 149B40:635–647
 rifting, interarc, tectonics, 126B31:482
 rifting, island arc
 initiation, 126B42:648
 Izu-Bonin arc, 126B42:640, 642–644, 646
 Izu-Bonin-Mariana arc, 126B42:627, 629, 632–636
 location control, 126B38:564, 570–571; 42:647–648
 Mariana region, 126B42:647
 sedimentation, 135B53:843–855
 volcanism, 126B42:647–648
 vs. seafloor spreading, 126B26:383
 rifting, passive, tectonics, 121A1:8
 rifting, propagating, ocean–continent transition,
 149B47:727
 rifting, stepwise, tectonics, 107B38:633
 rifting paths
 continental lithosphere, 149B40:638
 extension, 149B40:643
 rifting transfer zones
 rift oblique, 126B38:570
 Sumisu Rift, 126B38:557
 uplift/subsidence across, 126B38:564
 rifts
 global systems, 124B3:39–40
 graben deposition, 119B1:20–21
 heat flow, 139A2:23
 paleotopography, 152B41:517
 propagation in Japan Sea E, 127/128B(2)83:1346
 seismic structure, 135B2:17–20; 139B1:3–17
 tectonics, 139A2:10–11
 units, 120B(2)47:885
 volcanism across transfer zones, 126B42:642
 rifts, failed, Izu-Bonin forearc, 126B13:196, 206
 rifts, flank
 tilting, 123B43:803
 uplifts, 126B38:559, 566; 42:642, 644, 646
 rifts, forearc, volcanism, 126B27:405
 rifts, sedimented
 hydrothermal alteration, 139B34:567
 sedimentation, 139B1:19–27
 seismic reflectors, 139A5:103–104; 139B1:19–27
 subdued magnetic anomalies, 139B30:529–532
Rimicaris exoculata, hydrothermal fields, 158A1:9
 ring resistivity logs, vs. depth, 204A4:89; 5:23, 53; 6:61,
 68; 7:58, 60; 8:72, 74; 9:72, 75; 10:82–83, 89
 rip-up clasts. *See* clasts, rip-up

- ripidolite
 diffuse reflectance spectrophotometry, 188B7:9;
 13:10-11
 factor score, 188B7:26-27, 32, 37, 42
 high-grade schist, 161A6:215
 ripidolitic texture. *See* textures, ripidolitic
 ripple cross laminations. *See* cross laminations, ripple
 ripple laminations
 foreset dips, 210B3:23
 migration directions, 210B3:25
 photograph, 155A18:547; 210A3:186
 sedimentation, 155A18:548
 See also laminae; laminations
 ripple marks
 photograph, 169A3:62; 171B_A6:260; 188A3:98;
 210A3:205
 lithology, 181A6:7; 188A3:15-16, 19-21
 rises, oceanography, 154A1:5-10
 river capture, sedimentation, 160B43:563-564
 river systems
 discharge sediments, 146B(2)7:89-90
 pollen, 127/128B(1)19:333
 provenance, 160B16:202-203; 17:213
 river systems, anastomosed, paleoenvironment,
 174AXS_A4:10-12
 river transport, provenance, 160B18:225
 Robertiniida, Australian distribution, 123B14:281, 284
 rock clasts. *See* clasts, rock
 rock contacts, vs. depth, 135A(1)9:436
 rock falls, Cretaceous, 149B39:627
 rock flour
 lithology, 173A6:127-129
 physical properties, 119B8:157
 rock fragments
 igneous, 178B15:12
 lithology, 180B6:7-8, 11, 15-16; 210A3:27
 metamorphic petrology, 180B7:7
 modal composition, 155B7:151
 photomicrograph, 180B7:51-57
 sandstone, 146B(1)29:425-426; 180B7:10-13
 sedimentary, 178B15:12
 volcaniclastic sand, 180B7:6-7, 20; 8:5-9
 vs. age, 178B15:12
 vs. depth, 151B31:555; 34:619, 622; 160A8:228, 259;
 9:297, 313, 318; 10:369-370; 11:385, 395-396,
 400
 rock granules
 photograph, 155A12:329
 See also granules
 rock magnetism
 alkalic lavas, 144B36:615-630
 alteration, 148B12:178-180
 basalts, 136B12:147-149; 142A4:62-63; 148A3:160;
 148B15:217-226; 38:471-472; 183B1:24-25;
 12:1-28; 197A4:25-26
 basement, 197A3:32-34
 breccia, 158A10:201-202; 158B25:343-345
 carbonates, 133B50:749-753; 166B4:35-43
 Cenozoic, 189A1:38
 centennial-scale variations, 202B14:9-10
 cores, 161A7:321-322
 correlation, 202B14:15, 20, 25
 Cretaceous, 210B15:8-9, 33-34
 data, 190A5:18
 diabases, 148A2:70-71
 discrete samples, 174A_A3:66; 4:124-125; 5:169;
 180A11:9-10, 35
 gabbros, 147B21:373-381; 28:463, 469-470
 hard rocks, 161A6:214
 hemipelagics, 178B14:1-12
 high-resolution methods, 154B11:181-186
 hydrothermally altered sediments, 139B46:725-735
 igneous rocks, 141B4:51-57
 interhole correlations, 155B15:271-278
 iron sulfides, 139B31:535-542; 204B18:1-33
 Jurassic, 129B25:455-470
 lava flows, 197A6:108
 lithology, 181A5:15-17
 mafic rocks, 139B30:519-534
 magnetic accumulation rates, 108B25:426
 magnetic domains, 161A5:140
 magnetic minerals, 192A4:20-21
 magnetite, 166B11:124
 magnetization, 174A_A3:69, 71; 4:120-122
 magnetostratigraphy, 130B32:555
 median destructive field, 192A5:20
 metamorphic rocks, 161A6:207-209
 millennial-scale variations, 202B14:9-10
 mud volcanoes, 195A3:26-28, 155
 natural remanent magnetization, 207B3:4
 oceanic crust, 137/140B29:327-337
 paleointensity, 157B6:58-60
 paleomagnetism, 186A4:32-35; 195A4:29-30
 peridotites, 147B24:405-413; 149B25:431-446;
 173B8:1-34
 Pleistocene passive margins, 150B19:347-359
 records, 169A3:138
 remanent magnetization, 181A6:21-22; 188A3:40-41;
 4:27-28; 208A3:19
 sediments, 131B24:293-300; 133B40:575-576;
 134B27:475-490; 135B45:717-735;
 144B55:973-984; 145B15:231-245;
 146A(1)5:163-166; 6:257; 151A8:238; 17:329-
 330; 152B23:271-280; 154B10:169-179;
 155B14:251-270; 156A6:136-136; 157A5:122-
 123; 6:153-154; 161A6:206-207, 212; 7:314;
 164A5:85-86; 6:120-122; 7:190-193; 8:260-
 261; 9:293-295; 164B38:402-405; 169A3:134-
 139; 170A5:167; 175B8:1-17; 13:16-19;
 178B37:6; 180B20:1-15; 181A7:27; 182A1:13,
 26, 31; 5:16-17; 7:18; 9:15; 11:11; 183B13:1-17;
 186B16:1-21; 188A5:20-21; 194A4:19; 8:15-16;
 202B14:1-30; 205A4:43-44; 208B4:4-6
 sheeted dikes, 140A2:104-105; 137/140B22:253-262
 Site 809, 132A3:61
 Site 1188, 193A1:16-17; 3:77-86
 Site 1189, 193A1:20-21; 4:55-59
 Site 1191, 193A1:23; 6:11-12
 Site 1202, 195B13:5
 Site 1203, 197A3:31-37
 Site 1204, 197A4:24-30, 117
 Site 1205, 197A5:21-25, 104

- Site 1206, 197A6:18–22
 spectral analysis, 133B40:573–574
 sulfides, 158A8:167–168
 titanomagnetite, 206A3:33–34
 volcanoclastics, 134B28:491–507; 157A7:350–351
 vs. depth, 135B46:743, 750, 755; 161A6:213, 216;
 174A_A3:72; 175B13:14; 178B14:9; 204B18:13
 vs. grain-size classification, 150B19:353
See also coercivity; diamagnetism; environmental
 magnetism; goethite; greigite; hematite; hysteresis;
 magnetite; median destructive field; paleomagnetism;
 paramagnetism; remanent magnetization; siderite; sulfides
- rock texture. *See* textures
- rock-water reaction zone, geochemistry, 188A3:46
- rockfall deposits, tectonics, 173A7:216–217
- rocks
 bacteria, 201A6:22–23
 contamination, 201A7:24–25
 enrichment cultures, 187A3:30; 4:21; 5:21; 6:40; 7:37;
 8:55; 9:25; 10:28; 11:40; 12:46; 13:45; 14:32;
 15:47
- rodingite. *See* gabbro, rodingitized
- rodingitization
 alteration, 147B15:304–305
 hydrothermal reactions, 209A9:11
 mafic rocks, 147B14:283–284
- rodingitization, incipient, peridotites, 147A1:12
- roll, operations, 124E_A11:65–68
- rolling basins. *See* basins, rolling
- rollover, buried, middle Miocene, 174A_A1:8
- Romanus-Missilis zones, radiolarians, 185B6:4
- root casts
 clay units, 144B17:348
 diagenesis, 144B46:806–807
 lithology, 174AXS_A4:26; 5:38; 6:47
- rootlets, alteration, 166A3:39
- roots. *See* plant roots; root casts; root traces; rootlets
- rosette texture. *See* textures, rosette
- rosettelike bundles, photomicrograph, 191A4:104
- rosettes/spherulites, Galicia margin W, 103A10:424
- rotaliids
 abundance, 144B6:130–131; 9:174–187
 distribution, 123B14:281, 284
 photograph, 134A11:341
 range chart, 139A5:114–118
 Site 766, 123B14:276, 278–280
 Site 794, 127A4:101
 Site 821, 133B26:367
 turbidites, 166B5:50–53, 57–60
- Rotaliina, turbidity currents, 157B17:307–309
- rotary coring barrel (RCB) system
 Atlantis Bank, 118A6:93, 95–96
 summary, 118A1:6
- rotation. *See* tectonic rotation
- rough Horizon “B”
 acoustic basement, 165A4:133
See also smooth Horizon “B”
- ROV operations, configuration, 195A4:61
- rRNA. *See* ribosomal ribonucleic acid (16S)
- rubble
 alteration, 187A9:5–7
 basalts, 168A5:110; 169A6:272
 basement, 183A9:17–18, 20–21
 lithology, 163X_A6:12; 169A4:164, 168
 photograph, 169A4:168
 sediment–basalt transition, 169A5:210–211
- rubble, basaltic
 alteration, 187A12:9
 lithology, 187A8:3–7; 12:3–8; 15:4–7
 petrography, 187A15:4–6
 petrology, 187A1:7
 photograph, 187A12:38; 15:20
- rubble facies, carbonates, 144B16:322
- rubble zones
 alteration, 209A8:2–3
 breccia, 209A7:12
 photograph, 209A7:72
 stereo plots, 209A7:78
- rubefaction, clay units, 144B17:348
- rubidium
 alteration, 115B8:87–88; 121B30:563; 123B9:194;
 125B12:225; 176A3:51; 185A3:27–31; 187B1:8;
 5:9; 193B1:19
 aragonite, 168B10:126
 Atlantis Bank, 118B6:135
 basalts, 118A3:54; 119B16:315; 120B(1)3:57;
 121A10:277; 129B19:378; 134A9:199–200;
 135B26:475–476; 144B29:504; 145A5:136, 138;
 163A3:40; 5:60; 163B8:85; 169A3:95; 5:215–
 216; 183A5:34
 basement, 123A4:193, 199; 123B9:197; 126A11:184;
 127/128B(2)49:807; 79:1266; 183A7:132; 9:27
 carbonates, 168B11:141
 clay mineralogy, 169B6:8
 detrital component, 167B23:267–270
 diabase, 180A6:36
 evaporites, 160A8:249
 felsic volcanic rocks, 183A5:36–37
 fine-grained sediments, 210B8:14
 gabbros, 176B6:16; 8:4–14; 179A4:45–47
 geochemistry, 166B9:108; 195B1:11
 granites, 161A6:216
 hydrothermal fluids, 139B20:401
 incompatible-elements, 121B32:624, 629
 lateral flow, 160A9:313
 lava, 121B31:591–602; 183A1:14; 206B1:7
 lithology, 183A7:39
 metadiabase, 180A8:18
 metasedimentary rocks, 152B10:135–137
 mineral separates, 158B2:32, 37, 39
 mobility, 121B32:615; 183B15:9–10
 nonoxidized basalts, 121B30:565
 pore fluids and sediments, 205B5:5–7, 21
 pore water, 127/128B(2)79:1271; 133A(1)8:265–267;
 143A6:136; 9:330–331; 144A3:67–68; 4:129;
 5:179; 6:232; 8:302; 10:366; 156B12:165, 167;
 160A4:67; 5:110; 7:187; 9:311; 165A3:75; 4:168;
 5:260; 6:320; 171B_A3:77; 4:143–144; 5:208–
 210; 6:286–287; 7:334; 180B17:1–20; 193B4:4
 quartz gabbros, 180A11:6

- sediments, 161B2:28, 32–33; 167B23:265; 170A3:79;
 4:140–141; 6:206; 171B_B4:4–5; 178A4:23; 5:21;
 6:15; 178B4:1–12; 180B6:10–11, 14, 20
- serpentinites, 149B30:521–522
- Site 786, 125B12:223
- Site 794, 127A4:109; 127/128B(2)85:1363
- Site 795, 127A5:205; 127/128B(2)85:1365
- Site 796, 127A6:280–281
- Site 797, 127A7:364, 371; 127/128B(2)85:1366
- Site 798, 127/128B(2)86:1370–1371
- stratigraphic variation, 118A6:147, 150
- terrigenous component, 117B23:412
- volcanic ash, 127/128B(2)79:1266; 165A4:183
- volcanic rocks, 135B30:533–542; 161B27:370;
 163B7:67–74; 183B17:2
- vs. alteration, 148B5:62
- vs. barium, 135B26:477
- vs. chloride, 139B22:436
- vs. depth, 131B28:350, 356; 135A(1)9:449; 137/
 140B13:145; 139A6:224, 226; 139B11:229–250;
 22:436; 43:690; 49:749–750, 755; 143A6:139;
 9:332; 144A4:130; 5:182; 10:368; 148B10:137;
 37:464; 152B2:24; 156B12:166, 168;
 157B27:454; 160A1:15; 4:55, 79; 5:90; 9:312;
 161B2:32–34; 164B15:159; 165A3:76; 4:168;
 5:261; 6:320; 165B19:297; 166B9:104;
 168B9:107–114; 171A_B1:9; 4:147; 5:217; 6:296;
 7:341; 171B_A3:84; 180B17:9; 183A4:59; 9:93;
 185A3:123; 191B3:7; 200B2:14; 205B5:12–15;
 206B6:6; 210B8:50
- vs. hydrogen isotopes, 127/128B(2)79:1273
- vs. iron oxide/magnesium oxide ratio, 200B2:16
- vs. lanthanum/samarium ratio, 135B3:44
- vs. lithium, 139B20:408
- vs. loss on ignition, 148B10:140
- vs. magnesium, 137/140B13:146; 139B20:403
- vs. magnesium number, 148A2:59; 11:156
- vs. magnesium oxide, 200B2:11
- vs. niobium, 183A1:75; 4:60; 5:123
- vs. noncarbonate fraction, 165A6:323
- vs. oxygen fugacity, 135B36:609
- vs. oxygen isotopes, 127/128B(2)79:1273
- vs. potassium, 160A9:313
- vs. potassium oxide, 148B10:141; 180B6:38
- vs. rubidium/zirconium ratio, 121B30:564
- vs. silica, 134B19:384
- vs. strontium, 200B2:12
- vs. sulfur, 135B36:610
- vs. yttrium + niobium, 165A4:183
- vs. zirconium, 121B30:564; 134A12:417; 157A7:363;
 8:418; 157B13:192
- X-ray fluorescence data, 152B35:426
- See also barium/rubidium ratio; lithium/rubidium ra-
 tio; potassium/rubidium ratio
- rubidium, dissolved
- basalts, 130B1:7–10, 14–20
- Cretaceous/Tertiary boundary, 130B45:747–748
- pore water, 130A8:326
- sediments, 130A7:254
- Site 803, 130A5:149
- vs. age, 130A10:534; 12:551
- rubidium/aluminum oxide ratio, vs. depth, 131B35:443
- rubidium/aluminum ratio
- nannofossil clay, 184B12:7
- sediments, 171B_B4:4
- vs. age, 184B12:21
- vs. depth, 171B_B4:11
- rubidium/cesium ratio
- lava, 135B24:410
- vs. lithium/rubidium ratio, 139B20:408
- rubidium oxide, vs. depth, 139A7:358
- rubidium/samarium ratio, carbonate content, 123B8:185
- rubidium/strontium ratio
- basalts, 136B10:123
- distribution, 153B10:235
- sediments, 171B_B4:4–5
- volcanic ash, 165A4:180
- vs. depth, 171B_B4:13; 191B3:7
- vs. iron oxide/magnesium oxide ratio, 200B2:16
- vs. lanthanum/yttrium ratio, 135B3:44
- vs. strontium isotopes, 191B3:8
- rubidium/titanium ratio, vs. zirconium/titanium ratio,
 167B23:269
- rubidium/ytterbium ratio
- vs. aluminum oxide, 195B4:36
- vs. depth, 125B28:491–492
- rubidium/zirconium ratio
- sediments, 171B_B4:4–5
- vs. rubidium, 121B30:564
- rudists
- abundance, 144B9:178, 180, 182, 184, 186
- age control, 143B31:516
- biostratigraphy, 143A6:133; 7:213; 8:281–284;
 144A8:299; 144B9:172
- carbonates, 144B16:329; 52:929–930
- Cretaceous, 143A2:29; 143B1:13–14; 10:138–139
- Cretaceous–Paleogene interval, 144B49:873–885
- diagenesis, 144B46:800–801, 803
- dredge samples, 143B30:477, 480–482
- guyots, 144B53:945
- isotopes, 101B17:250–251; 143B6:102
- lithofacies, 129B31:551; 143B30:483–484;
 144B14:277–282
- outer perimeter ridges, 144B15:296–300
- paleobiogeography, 144B50:887–893
- photograph, 143A8:286
- reefs, 144B24:439–446
- rudists, caprinid
- debris, 143A7:200
- photograph, 143A8:282; 144A9:290
- rudists, radiolitid, photograph, 144A5:163; 8:293
- rudist bank
- seamounts, 143A2:26
- stable isotopes, 144B46:809
- vs. depth, 144B14:280–281
- See also antillocaprinids; nerineids
- rudite
- lithology, 107B38:644
- Tyrrhenian Sea, 107A7:300
- rudstone
- Campanian, 101B17:246–252
- carbonates, 144B16:322

- lithofacies, 133A(1)4:91, 144B14:277–282; 17:340–359; 160B38:495
- lithology, 133A(1)6:183, 10:357; 14:574; 16:688, 692, 698; 17:776–779; 144A9:292–293; 173A8:238; 182A1:25, 31, 39; 7:5–12; 9:4–8; 12:4–5; 183A7:7–8; 194A4:7–8; 7:13; 8:6–9; 9:5–8; 202A7:7–10
- Miocene, 133B34:500
- Northeast Providence Channel, 101B17:247
- oolites, 143B8:111–113
- petrophysics, 143B18:301
- photograph, 133A(1)14:579; 144A10:352; 144B5:105–106; 14:293; 173A8:239; 182A7:38; 194A4:47; 202A7:46
- photomicrograph, 202A7:47
- reef mounds, 182B13:1–29
- Site 748, 120A7:172–173
- Straits of Florida, 101A5:60
- velocity, 101B21:312
- See also* boundstone/rudstone ratio; grainstone-rudstone-packstone series; grainstone/rudstone ratio
- rudstone, bioclastic
- Eocene–Miocene interval, 133B21:293–294, 297–298
- lithology, 133A(1)4:93–94; 9:307–309; 166A10:298; 194A4:8
- rhodoliths, 133B29:455–460
- rudstone, bryozoan, lithology, 182A1:33; 9:4–7; 10:4–6; 194A4:7–8
- rudstone, coral
- lithology, 134A11:326–327; 144A10:351, 353; 11:417–418
- photograph, 134A11:329
- rudstone, coralline algal, lithology, 133A(1)5:148–149
- rudstone, deep-marine, lithology, 101B17:247–250
- rudstone, dolomitic
- lithology, 194A7:9
- photograph, 194A4:44; 7:52, 71
- photomicrograph, 194A4:45
- rudstone, foraminiferal
- dolomitized, 133A(1)8:260
- micritic, 133A(1)16:700
- rudstone, gastropod
- lithology, 144A10:350–351; 11:422
- photograph, 144A11:426; 144B16:332
- rudstone, lithoclastic, lithology, 133A(1)7:208; 16:695
- rudstone, molluscan, photograph, 144A11:422
- rudstone, porous, photomicrograph, 194A4:41
- rudstone, rhodolith-bearing
- lithology, 133A(1)5:146–149
- photograph, 133A(1)9:310
- rudstone, rudist, lithology, 144A9:290–291
- rudstone, shallow-marine, lithology, 101B17:247–250
- rudstone, skeletal
- lithology, 144A6:214, 216, 218–219; 10:341; 194A7:7
- photograph, 144A5:171; 11:424; 194A4:43
- rudstone-boundstone facies, photograph, 194A7:60
- rudstone-floatstone series
- coral-red algal, 194B5:8–9
- dolomitic, 194A7:6–8, 10–15
- photograph, 194A4:47
- rudstone infill, photograph, 194A7:68
- rugoglobigerinids, Atlantic Ocean S subantarctic, 114A5:103
- Runangan, foraminifers, 181A7:20–21; 8:18
- runoff
- detrital component, 167B23:268–270
- nannofossil clay, 184B12:7
- vs. age, 184A1:48
- Rupelian
- biostratigraphy, 151B14:273; 162B7:99–109; 184B7:7–8; 189B5:38; 210A3:85
- magnetostratigraphy, 207A7:19
- See also* Priabonian/Rupelian boundary
- Rupelian/Chattian boundary
- dinoflagellates, 162B7:107
- sedimentation rates, 189B10:9, 18
- rupture planes, photograph, 190/196B10:11
- rust contamination
- Exuma Sound, 101A10:403
- occurrence, 101A4:41–42, 44–45
- ruthenium
- Mascarene Plateau, 115B7:77
- Nazareth Bank, 115B7:77
- Site 713, 115B7:77
- Site 715, 115B7:77
- rutile
- alteration, 139B10:155–201
- basalts, 148B38:473, 475–477
- deep copper zone, 169A3:77
- deuteric oxidation, 137/140B29:332
- garnet, 161B23:312
- heavy minerals, 150X_B7:75–79; 174A_B(synthesis):10; 6:6, 9–11
- hydrothermal alteration, 135B40:657–658; 139B11:214; 193B1:16
- ice-rafted debris, 120B(1)12:172
- lithology, 174A_A4:113–115; 5:163
- marbles, 161B23:313–314
- mineral chemistry, 147B7:143
- modal composition, 155B7:151
- photograph, 144B36:630; 147B7:154–155; 157A5:118
- photomicrograph, 193A3:205–206; 209A6:52
- pressure-temperature conditions, 161B44:566–567
- quartz inclusions, 127/128B(1)7:107
- schists, 161B19:266
- sediments, 139B8:116
- textures, 161A6:224
- veins, 169A3:75
- vs. depth, 202A3:25
- See also* ferrirutile; leucoxene
- rutile, euhedral, photomicrograph, 209A6:61
- S**
- S-C bands
- décollement zones, 156B22:288–289
- photograph, 156B22:291–292
- scaly fabric, 156B4:63–66, 72–74
- S/I index. *See* smectite/illite ratio
- S-ratio
- magnetic intensity, 175B8:11

- vs. depth, 160A7:178
See also remanent magnetization, isothermal remanent magnetization
- S-waves. *See* shear wave velocity; shear waves
- sabkba setting, Cornaglia Terrace, 107B16:248
- sag structures. *See* structures, sag
- Sagarites?*
 lithology, 167A(1)12:320
 photograph, 167A(1)12:320
- sage, vs. depth, 167B17:220–222
- SAGMEG. *See* South African Goldmine Euryarchaetal group
- saline shelf water, deglaciation, 178B34:4
- salinity
 alteration, 193A3:71
 Barbados Ridge, 110A1:21; 4:100; 6:334; 110B11:159–160
 bottom-hole temperature, 166B10:117–119
 Cagayan Ridge, 124A12:326
 carbon isotopes, 174A_B1:2–3
 Celebes Sea, 124A10:153–154
 circulation, 161A1:13; 161B37:475
 clathrate formation, 127A6:281
 climate models, 199A3:5–6, 17–28
 contours, 202A1:113
 core-log comparison, 156B26:333–334
 cores, 144A12:447
 cycles, 117B30:504; 127/128B(1)33:591, 608; 177A1:25–26; 205B6:26
 deep ocean circulation, 113A49:865; 113B49:877
 diagenesis, 112B29:488; 160A5:110; 166B17:190–191; 174A_A3:73–74
 diapirs, 164B1:5–7
 electrical conductivity, 118B18:327–330; 124B7:98–102; 148B21:302–303
 evaporites, 160A8:247, 249; 9:311; 10:366–367; 161B33:430–431; 175A7:190
 fluid inclusions, 139B21:420–421; 153B22:407–408, 410; 157B26:433; 158B14:179–190; 159B6:50; 210B5:3–4
 fluids, 153B22:409–411; 158A7:124; 8:168–169; 186B14:9
 Formation MicroScanner imagery, 160B47:619
 gas hydrates, 112A14:388; 17:625; 112B32:523
 gradients, 164A6:130–132
 high altitudes, 119B48:870
 ice sheets, 120B(2)56:1005–1007
 indicators, 165B4:88–89, 91, 96
 Indus Fan, 117A8:177
 inversion, 112B29:487
 isotopes, 113B49:873; 121B15:304; 145B21:322–323
 Jane Basin, 113A12:730
 Kerguelen-Heard Plateau N, 119A5:139; 6:185
 Kerguelen sediment ridge, 119A14:516; 15:544
 Lima Basin, 112A1:19; 11:182; 19:823, 825; 112B29:488
 marine environment, 161B36:459
 Messinian, 160B37:477
 methane/ethane ratio, 112A15:459
 Mid-Atlantic Ridge, 106/109B16:209
 modern annual average, 202B12:35
 mud volcanoes, 160B48:638–639
 Nazareth Bank, 115A4:145
 Ninetyeast Ridge, 121A11:335
 North Atlantic Deep Water, 177B(synthesis):9
 oceanic circulation, 151A1:16–17; 26:449
 Oman margin, 117A11:346; 13:431–432; 117A14:458, 478; 16:520; 18:578
 organic matter decomposition, 128A5:318; 160B26:317–318
 Owen Ridge, 117A9:228; 10:278; 19:616
 oxygen isotopes, 127/128B(1)26:442–443, 447; 152B25:301; 161B39:500–501; 192B2:4
 Pacific Ocean W, 124B7:93–94; 29:381–382
 paleoclimatology, 202B12:11
 Peru margin, 112A2:41
 Pisco Basin W, 112A18:725–726, 732; 19:823
 pore water, 117B30:503–504; 119B18:354–355; 19:378, 383; 130A8:320; 133A(1)4:105, 107; 6:190; 8:266–267; 10:370; 12:468; 14:584; 134A7:111–112; 8:156; 9:202–204; 10:279; 11:347; 12:416; 13:505–506; 136A4:47; 5:69; 143A6:136; 7:215; 9:330; 144A3:67; 4:128–129; 5:178–179; 6:232; 8:302; 10:366; 11:430; 146B(2)25:331; 150A6:99; 7:169; 8:234–235; 9:286–288; 10:330–331; 154A8:355; 155A6:104; 7:140; 8:190; 9:217; 10:260; 11:295; 12:348; 13:398; 14:424; 15:449; 16:475; 17:520; 18:557; 19:583; 20:610; 21:650; 22:674; 156A6:145, 147; 157A4:77–78; 5:123; 6:154; 7:355–356; 8:417; 9:458; 10:523; 160A4:67; 5:110; 7:186; 11:393–394, 401; 12:435–437; 14:485; 161A6:235; 7:321; 8:378; 9:405; 161B33:427–429; 162A4:116; 5:157; 6:193; 8:275; 9:310; 10:363; 165A3:73–74; 4:166; 5:259; 6:317; 8:396–398; 166A6:91; 7:161; 9:251; 10:312–313; 167B32:343; 170A3:72–73; 4:131; 5:172–173; 6:203; 7:235; 171B_A3:77; 6:285–287; 7:333; 174A_A3:72–73; 4:122–123; 175A3:73; 4:102; 6:165; 8:214; 9:258; 10:297; 11:326; 12:371; 13:410; 14:445; 15:473; 177A4:16; 8:16; 180A5:30; 6:54; 7:21; 9:39; 12:37; 181A4:18; 5:19; 6:28; 7:37; 8:30; 9:19; 182A1:18, 21, 23, 27, 29, 32, 35, 38, 40; 4:30, 32; 5:19; 6:28–29; 7:20, 22; 8:23, 25; 9:19–21; 10:23, 25; 11:13; 12:20; 184A4:20; 5:17–18; 6:13; 7:17–18; 8:8; 9:21–22; 184B13:4–6, 11; 186A4:38; 5:25; 186B14:4, 6; 188A3:43–47; 4:30; 5:23; 189A3:42–43, 161; 4:20–21, 60; 5:46, 158; 6:50–51, 166; 7:43–44, 140; 193A4:48; 198A3:33; 4:25; 6:24; 7:23; 8:21; 9:30; 199A9:10; 10:16; 11:25; 12:25; 13:21; 14:18; 15:12; 202A3:12–13; 5:12; 205A4:46; 5:28–29; 6:14–15; 206A3:37–38; 207A5:30; 208A3:20; 4:18; 5:14; 6:22; 7:21; 8:21
 Prydz Bay, 119A4:110; 8:310–312, 360; 11:418
 quartz-rich veins, 173A6:148
 reefs, 160B33:435
 resistivity, 124B6:84, 86
 rock-water reaction zone, 188A3:46
 Salaverry Basin, 112A12:266, 274; 13:319, 321; 16:550, 564; 112B7:106
 sapropels, 160B26:319, 323–327, 329; 161B40:516

seawater, 153B22:411; 202B1:4
sediments, 130A7:250; 156A7:231; 161B34:434–436;
 162A8:276; 166A11:363–364; 167A(1)4:74;
 5:104; 10:260; 11:295; 12:328; 13:368; 14:405;
 15:447; 16:473; 172A6:288; 182A1:14–15;
 182B1:10–12; 186A1:13, 15; 190/196B7:10
Site 682, 112A14:386–388; 112B32:521
Site 685, 112A17:626–627, 629; 112B32:521
Site 688, 112A20:909, 911; 112B32:521
Site 690, 113A6:230
Site 693, 113A8:374
Site 696, 113A11:643, 646
Site 698, 114A5:95
Site 699, 114A6:173–174
Site 701, 114A8:388–389
Site 702, 114A9:498–499
Site 703, 114A10:567
Site 704, 114A11:648; 114B3:41; 23:411; 25:467, 471–
 472; 26:479–480
Site 708, 115A6:416
Site 709, 115A7:481
Site 714, 115A11:857–858
Site 738, 119A4:110; 7:255
Site 744, 119A13:491
Site 747, 120A6:117
Site 748, 120A7:208
Site 749, 120A8:260
Site 750, 120A9:309
Site 751, 120A10:356–357
Site 757, 121A11:335
Site 765, 123A4:142–145, 147
Site 766, 123A5:303
Site 779, 125A7:127
Site 780, 125A8:159–160
Site 781, 125A9:190
Site 784, 125A12:284
Site 794, 127A4:107
Site 795, 127A5:205
Site 796, 127A6:278–279
Site 797, 127A7:364, 374
Site 798, 128A4:172, 179
Site 799, 127/128B(1)34:610; 128A5:317, 328
sonobuoy stations, 119A3:107
Southern Ocean, 114B39:720–721
sulfate removal, 127A5:205
Sulu Sea, 124A7:103; 11:238
surface water, 124B29:381
temperature influence, 113B49:876
Tiburon Rise N, 110B11:159
transects, 161A1:13
Trujillo Basin, 112A16:551, 561, 564
vs. absolute depth, 182A10:56
vs. age, 161B39:499
vs. chloride, 133A(1)13:524; 15:634; 182A6:67
vs. depth, 113A5:128–129; 9:481, 485; 10:561;
 11:650; 12:736–737; 114B37:687;
 133A(1)15:634; 134A7:113; 8:160; 9:207;
 10:282; 12:422; 13:506; 134B8:113, 117–118,
 124–126; 137/140B13:145, 194; 141A8:281;
 10:406, 408; 141B21:284–285; 143A6:139;
 9:332; 144A3:73; 4:130; 5:182; 10:368;

148B7:92–93; 150A6:103; 7:172; 8:236; 10:333;
152A8:103; 154A5:184; 6:256; 7:305; 8:381;
154B19:287; 20:312; 155A6:112; 7:149; 8:192;
9:219; 10:261; 11:296; 12:354; 13:402; 14:426;
15:456; 16:481; 17:528; 18:558; 19:585; 20:615;
21:651; 22:677; 156A6:147; 7:239; 157A7:365;
8:419; 9:460; 10:526; 158B13:173; 14:186;
160A4:79; 5:114; 7:190; 8:254; 9:314; 10:367;
11:393–395; 12:436; 14:486; 160B44:572;
161A4:92; 5:152; 6:260; 7:332; 8:387; 9:412;
162A3:80–81; 4:119; 5:162; 6:196; 8:281; 9:318;
10:374; 165A4:166; 6:319; 7:372; 170A3:79;
4:131; 5:176; 6:207; 7:236; 171B_A3:84; 4:147;
5:217; 6:296; 7:341; 174A_A3:75; 4:126;
175A3:79; 4:107; 5:134; 6:170; 7:192; 8:216;
9:261; 10:301; 11:333; 12:371; 13:417; 14:450;
15:479; 177A3:33; 4:48; 180A5:83; 181A3:54;
4:40; 5:46; 6:73; 7:93–94; 8:75; 9:49; 182A4:63;
5:44; 6:66; 7:48; 8:52; 9:42; 10:53; 11:30; 12:44;
184A4:59; 5:57; 6:38; 7:56; 8:23; 9:68;
185A4:119; 186A4:93, 128; 5:73; 186B14:18–19;
188A3:125; 4:78; 5:65; 189A3:92; 5:91;
195B10:4; 205A5:82; 206A3:147; 207A4:57;
5:67; 6:66; 7:62; 8:58
vs. oxygen isotopes, 166B2:16–19
vs. subbottom depth, 141A6:120; 7:217
vs. temperature, 137/140B16:194; 148B7:91–93;
 160B26:324, 330; 161A1:13; 172A1:9;
 172B(overview):11; 177A1:42; 210B5:15
vs. water depth, 178A2:34; 202B12:36
water column, 202B12:19–21
well-logging, 146B(1)20:318
Yaquina Basin, 112A15:462, 466, 476; 112B32:521
Zanclean, 160B9:119–120
See also paleosalinity; temperature-salinity field
salinity, low, anomalies, 207A5:30; 7:29–30
salinity, sea-surface, 202A1:76–78
salinity crisis
 basin margins, 161B43:549
 Messinian, 160A17:515–516; 160B54:774
salinity difference, fluid flow, 166A1:9
salinity indicator ratio
 clay content, 112B29:486
 Site 685, 112A17:644
 vs. depth, 160A8:271; 166A6:103
salinity logs, vs. depth, 160A8:271
salinity minima
 interglacial stages, 174A_A4:123
 Pliocene–Pleistocene interval, 174A_A3:96
 pore water, 174A_A3:73
salite, hydrothermal veins, 153B30:524
Salix, Site 910, 151B16:298
salt
 dessiccation, 161B43:547
 Exuma Sound, 101A5:51
 glaciation, 181B1:38
 photograph, 168A5:131
 sources, 164A8:265–266
See also evaporites; halite; hypersaline fluids
SAM-191, instruments, 191A3:13–15, 49

- samarium
- basalts, 141B27:339; 205B9:9–10
 - basement rocks, 127/128B(2)49:807
 - gabbros, 153B18:357; 176B6:19
 - lava, 121B31:360–602
 - Paleocene/Eocene boundary, 199B16:3
 - pelagic clays, 123B8:180
 - percent change from protolith, 137/140B17:203
 - peridotites, 153B14:291
 - positive anomalies, 125B38:633
 - scandium-normalized distribution, 119B39:725
 - sills, 139B6:95
 - Site 798, 127/128B(2)86:1370–1371
 - vs. alteration percentage, 137/140B9:110
 - vs. aluminum oxide, 123B8:182
 - vs. composite depth, 145B27:423
 - vs. depth, 176B6:57
 - vs. europium/samarium ratio, 153B18:359
 - vs. iron oxide, 153B17:347
 - vs. lanthanum, 187B1:36
 - vs. zirconium, 142B2:15
 - See also* cesium/samarium ratio; iron/samarium ratio; rubidium/samarium ratio
- samarium-147/neodymium-144 ratio
- vs. distance, 187B3:18
 - vs. neodymium-143/neodymium-144 ratio, 155B8:173; 187B3:20
- samarium/hafnium ratio
- intersite differences, 121B32:637
 - vs. lanthanum content, 121B32:640
- samarium/lanthanum ratio
- basalts, 123B10:206; 129B19:368–369, 387; 136B9:117; 152B40:491; 158B17:218
 - basement, 127/128B(2)49:807; 206B6:4
 - gabbros, 153B17:341–342
 - hydrothermal clays, 158B17:218
 - mafic and ultramafic rocks, 153B10:184–185, 188
 - mantle sources, 209A1:81
 - metabasaltic clasts, 158B17:218
 - serpentinized peridotite, 195B4:7
 - vs. age, 135B3:46; 53:853
 - vs. alteration, 137/140B9:110
 - vs. chromium, 137/140B9:115
 - vs. depth, 143B15:251, 254; 152B31:378; 40:490; 206B6:7
 - vs. dysprosium/erbium ratio, 147B3:70
 - vs. hafnium/tantalum ratio, 205B1:11–12; 9:30–31
 - vs. lanthanum, 121B32:642; 143B16:273; 187B1:36
 - vs. lanthanum/thorium ratio, 152B31:382
 - vs. latitude, 158B17:221
 - vs. lutetium/hafnium ratio, 152B31:382
 - vs. magnesium number, 205B9:26–27
 - vs. neodymium isotopes, 127/128B(2)49:811
 - vs. niobium/zirconium ratio, 135B3:44; 143B15:252
 - vs. rubidium, 135B3:44
 - vs. scandium/thorium ratio, 154B31:470
 - vs. strontium isotopes, 121B31:599, 608; 193B7:15
 - vs. titanium oxide, 139B6:88
 - vs. titanium/zirconium ratio, 137/140B12:137
 - vs. ytterbium, 137/140B4:50
 - vs. zirconium/niobium ratio, 151B19:363
 - vs. zirconium/yttrium ratio, 137/140B9:115
- samarium/lutetium ratio
- basalts, 152B40:493–495
 - vs. relative stratigraphic position, 152B40:493
- samarium/neodymium, vs. yttrium/zirconium, 142B2:13
- samarium-neodymium isochron, 136B10:122
- samarium/ytterbium ratio
- Cenozoic vs. Cretaceous samples, 123B8:179, 183
 - lithologies, 125B28:501, 504
 - vs. neodymium isotope, 125B13:255, 258, 260
- samarium/zirconium ratio
- lava, 135B24:410
 - vs. zirconium/barium ratio, 135B24:423
- sampling tools, borehole fluids, 137A2:36, 38–42
- sand
- abundance, 178B25:6–7
 - Atlantic Ocean E tropical, 108A2:35, 41
 - carbonate clasts, 105B3:38
 - Celebes Sea, 124A13:347
 - clathrate formation, 127A6:281
 - coarse fraction, 105B1:10; 146B(1)2:33–43
 - color, 105A5:440
 - composition, 113A8:341–342; 127A6:268; 127/128B(2)12:216; 139B2:42–43; 146A(1)6:248, 253–254; 168B5:51–65; 190/196B3:5–9, 18
 - Cornaglia Terrace, 107A9:610–611; 107B38:652
 - cyclic processes, 159B41:569–570
 - dating, 113A7:299; 8:337, 343; 11:614–615; 113B5:59, 61
 - deposition, 107A9:633; 119A12:475; 155A21:645–646; 166A3:33–34; 167A(1)9:226
 - depth locations, 105A5:439
 - detrital component, 167B23:267–270; 168B5:55
 - diamictite, 178A9:6–7
 - differential compaction, 127/128B(1)2:39
 - distribution, 119B6:81; 8:149; 136B4:55–56
 - electron microprobe data, 155B7:149
 - Eocene, 121A4:71
 - fluid migration, 128A5:321
 - foraminifers, 127/128B(1)12:193
 - Formation MicroScanner imagery, 180B25:115
 - fraction in cores, 149A5:123; 154B18:273–276; 20:307
 - garnets, 183B16:1–8
 - geochemistry, 147B26:449
 - grain size distribution, 105B1:10; 113A8:343; 119B10:191; 204B10:4
 - gravel-bearing units, 105B3:38, 40
 - heavy fraction, 105B3:41–42
 - high-amplitude reflection packets, 155A7:163
 - hydrothermal fields, 158A1:9–10
 - ice-rafted debris, 120B(1)14:210
 - interbeds, 135A(1)5:194, 196
 - Kita-Yamato Trough, 128A5:354
 - laminated detriticarbonate silty muds, 105B3:40–41
 - light fraction, 105B3:38–41
 - limestone-chert pebbles, 121B44:936–937
 - lithic clasts, 150B11:201, 203, 207
 - lithofacies, 150B11:199–201; 155B2:7–33; 161B4:59, 62–64
 - lithology, 135A(1)4:99, 101; 141A9:306–313; 143A10:377; 146A(1)4:64, 66–67; 5:136–137,

- 140–141; 6:247; 7:308–309, 314–315; (2)2:27, 30; 149A4:47–58; 6:152–155; 7:218–220; 150A7:135–146; 8:210–211; 9:260–265; 150X_A1:13–24; 151A11:353, 356; 152A6:57–62; 155A7:127–128; 9:204–207; 10:246–248; 11:277–278, 280–281; 12:328, 332; 14:412–415; 16:466–467, 470; 18:541–542; 19:574; 20:595, 599–600; 21:637–638, 641, 643, 645; 22:661–663; 157A6:138, 147; 160A9:296; 14:469–471; 160B34:438–439, 441, 454; 161A4:59–64; 6:189, 191; 7:305–307; 9:393–397; 162A9:296, 298; 10:353, 355–356; 167A(1)10:245–247; 168A4:57; 6:167–169; 169A4:166–167; 5:208–210; 169S_A2:21–22, 24; 170A3:53; 4:103–104; 5:158–159, 161–162; 174A_A3:43–50, 54–55; 4:104–111; 5:158–161; 174AX_A1:15–2; 174AXS_A1:17–19, 26–27; 2:16, 24; 3:19–33; 4:13–14; 6:19–20, 28–29, 31–34; 7:11–12; 178A4:122; 5:8; 7:35, 39, 41; 178B25:4–6; 180A5:9; 6:11–12, 14–17; 7:7–10; 8:4; 180B6:9–10; 181A1:21–23; 3:7–8; 6:6–9; 183A1:34; 3:4; 4:3–4, 11–12; 186A4:17–18, 22; 5:8–9; 188A4:11–12; 5:8–11; 188B1:4; 9:3; 190A8:5–7; 195A5:7–8; 196A4:15; 204A3:6–8; 4:5–11; 5:3–4; 6:4–8; 7:4–6; 9:5–7; 10:4–9; 11:3–7; 206A3:23–26
- location, 105A5:441
- logarithmic plots, 180B9:26
- metamorphic sediments, 105B3:38, 45
- microturbidite, 127/128B(1)2:44
- mineralogy, 119A11:410; 161B8:104–105
- modal analysis, 190/196B3:21–24
- Neogene, 150B14:280
- occurrence and correlation, 160A14:480
- Oligocene–Miocene interval, 150X_A1:18
- paleoenvironment, 174AXS_A4:11–12; 5:17, 21–42
- percentage, 168B6:69–71
- petrography, 160B36:454–456; 161B1:5–7; 168B5:54–56
- photograph, 141A8:246, 249; 9:309–310; 10:354; 145A8:343; 146A(1)4:64; 5:140; 7:316–317; 146B(2)5:74–75; 149A7:219; 150A10:317; 151A6:119; 152A11:202; 155A7:134; 10:247–248, 252, 254; 11:279; 12:335, 338; 14:416; 18:545–547, 574, 576–577; 21:639–645; 22:661–662, 664–665, 668; 157A5:118; 6:148–149; 8:404; 9:446; 160A14:473; 161A5:121; 6:197, 199; 9:396; 162A10:359; 167A(1)9:227; 169A3:60, 62, 65; 169S_A2:26; 170A3:55; 4:106; 7:223; 172B7:18; 174A_A3:54; 5:159; 174AXS_A6:74; 178A7:41; 180A8:47; 181A5:31; 6:47; 187A15:30; 188A4:55–60; 5:49; 189A3:68; 190A1:59; 6:39; 9:40, 45; 194A6:37; 204A3:50; 9:59; 205A5:52
- photomicrograph, 157A10:524; 161B3:55–56; 173A8:231–232; 200A3:77
- physical properties, 126A5:91–93; 168A4:94; 6:193
- Pleistocene, 118B21:373; 141B10:133–151; 174AXS_A1:14; 180A1:10
- Pliocene–Pleistocene interval, 159B41:563–564; 188B13:8
- point-count data, 168B5:55; 180B7:47–48
- power spectra, 154B28:437
- provenance, 127A6:268; 141B13:182; 146B(1)29:425–429; (2)5:61–75; 149B11:269–280; 161B3:37–56; 167B25:291–292; 190/196B3:1–28
- Prydz Bay, 119A8:302, 328
- quartz fraction, 105B3:38
- reflectance, 155A23:697–700
- ripples, 134A4:45
- sedimentation, 141B31:380–388
- sediments, 105B3:38; 107B17:258–273; 127A6:268; 128A5:243, 265; 174A_B4:1–18; 187A4:5
- seismic profiles, 119A24:444; 127A(1)17:313; 188B8:6–10
- shallowest occurrence, 127A6:272
- sharp-based beds, 105B4:56–57
- silty sands, 105B3:40–41
- Site 701, 114A8:377
- Site 704, 114A11:634; 114B33:623; 36:674
- Site 747, 120A6:102
- Site 748, 120B(1)6:102
- Site 791, 126A7:147
- Site 796, 127A6:250, 261–264
- Site 799, 128A5:258, 265
- size, 113A8:341–342; 12:712
- stratigraphy, 158A8:142–144
- temperature, 127A6:299
- textures, 113A8:338; 174A_B3:4, 9; 182B8:6
- thickness, 113A11:615; 168A5:110, 153; 6:168, 193; 181A6:53, 97–115
- Toyama Fan, 128A1:14
- turbidite facies, 180B9:5–9
- Tyrrhenian Sea, 107A7:298
- units per core vs. depth, 157A7:331; 8:403
- volcanics, 105B3:38; 190/196B2:4
- volcaniclastics, 161B12:152, 155
- vs. age, 154B18:279; 20:309–315; 21:327; 38:436; 178B12:8, 11; 25:17
- vs. carbonate content, 149B45:692
- vs. core recovery, 149A5:124
- vs. depth, 110A4:126; 113A8:337, 343; 9:455; 11:614; 146B(1)1:10, 12, 14, 16; 20:320–321; 150A7:143; 150B28:458; 152B4:42; 154B18:277; 28:435; 156B27:341; 157A8:403; 161A8:360; 162A9:301; 10:360; 168B6:69, 73, 75–76, 78, 80–81, 83–84; 174AXS_A(summary):34; 178A4:49, 51; 5:56; 8:30; 178B10:18; 25:19–25; 182B7:7–12; 8:12–16; 186A4:78; 188A5:54; 188B13:25; 189B9:13–15, 17; 202A8:45; 204A3:45–47; 4:36–40, 42, 51; 5:22; 6:29–30; 7:26; 8:37; 9:32–33, 35; 10:40–43; 11:23–24, 26; 204B10:11–18; 11:13–15, 17–18; 205A4:79; 5:53; 6:28; 206A3:123
- vs. potassium feldspar/plagioclase ratio, 146B(2)7:99
- vs. quartz, 146B(2)7:99; 161B4:63, 65
- vs. siliceous microfossils, 114B33:616–624
- water content, 134B30:544
- well-logging, 127A6:251
- See also avulsion deposits; beach sand; glauconite sand; pumice sand silt/sand load; quartz sand; silt/sand ratio; stream sand

- sand, amphibole-enriched, photograph, 152A11:197
- sand, authigenic glauconitic, lithology, 186A1:10
- sand, basaltic, nannofossil claystones, 126A10:157
- sand, bioclastic
 lithology, 133A(1)14:576; 157A10:507
 photograph, 161A9:401; 167A(1)11:292
 redeposition, 133A(1)10:361–362
 Site 797, 127A7:343
- sand, biogenic
 lithofacies, 155B40:631
 permeability, 112B7:95
- sand, biosiliceous
 Site 699, 114B33:613
 Site 701, 114B33:614
- sand, biotite- and gypsum-bearing, lithology, 107A9:612
- sand, bioturbated clayey silty, lithology, 174AXS_A5:19–20
- sand, black
 lithology, 200A3:9–10
 photograph, 200A3:119
 Site 737, 119A6:165
 Site 790, 126A7:145
 Site 791, 126A7:159
- sand, burrowed
 glauconite, 174AXS_A5:31–32
 photograph, 180B9:20
 silty, 174AXS_A6:34
- sand, calcareous
 Exuma Sound, 101A1:7–8
 lithology, 133A(1)7:208; 157A7:332; 10:512;
 161A5:120–121, 125, 130–131; 180A6:12; 9:9
 Little Bahama Bank, 101A1:7–8
 Straits of Florida, 101A1:8; 5:50, 57; 101B11:174
- sand, calcitic, lithology, 161A6:193–194
- sand, carbonate
 lithology, 180A6:9
 Mascarene Plateau, 115A5:262
 photograph, 160A14:472; 197A4:47
- sand, carbonate-cemented
 Lima Basin, 112B7:98
 Peru margin, 112B7:98
 Salaverry Basin, 112B7:98
 Trujillo Basin, 112B7:98
- sand, cemented foraminiferal, photograph, 207A7:48
- sand, clayey
 lithology, 150X_A1:18–23; 174AXS_A2:22–23; 5:17–19;
 7:14; 188A5:9; 190A7:5
 recovery, 146A(1)6:252
- sand, clayey glauconitic, lithology, 174AX_A1:22, 24–32;
 174AXS_A1:20–22; 3:33–34; 5:30
- sand, clayey silty, lithology, 174AXS_A5:20–21; 6:27, 37–38
- sand, coarse, photograph, 173A9:274
- sand, conglomeratic, petrography, 161B25:334–335
- sand, crystal-lithic
 petrography, 157A10:520–521
 photomicrograph, 157A9:457
 volcanoclastics, 157A9:454, 456
- sand, delta front, photograph, 174AXS_A6:77–78
- sand, detrital, Broken Ridge, 121A1:5
- sand, diatomaceous, Site 743, 119A12:462
- sand, disorganized, lithofacies, 155B40:613
- sand, disseminated, lithofacies, 150B11:204
- sand, feldspar quartz
 lithology, 167A(1)9:225–227; 12:318–320; 13:358–359;
 14:393, 395
 photograph, 167A(1)11:292
- sand, ferromanganese, photograph, 181A5:32
- sand, ferruginous, transgressions, 123B4:95
- sand, fine-grained
 photograph, 190A1:75
 Pleistocene, 131A6:82
 thickness, 181A6:97–115
- sand, foraminiferal
 clasts, 162A4:115
 cyclostratigraphy, 207B2:9
 lithology, 134A8:148; 143A6:121; 144A11:443–444;
 147A3:54–56; 157A7:329–333; 8:402;
 160A6:129–130; 165A5:239, 242–243; 6:302–303;
 172A3:39–40; 181A6:9
 number of layers vs. age, 165A8:381
 photograph, 154A4:71; 155A17:508; 157B12:177;
 165A5:242, 245; 181A6:51
 Straits of Florida, 101A5:55
 stratification, 118B25:433
- sand, foraminiferal
 calcite-cemented, 207A7:49
 feldspar-quartz, 157A9:448
 graded, 135A(1)7:296–297
 terrigenous, 112A20:876
- sand, foraminiferal and radiolarian
 Paleogene, 165A4:206
 vs. depth, 165A4:148
- sand, glauconitic
 Antarctic ice sheet development, 113B53:953
 biostratigraphy, 150X_B10:124
 Broken Ridge, 121B37:747
 calcite cements, 112A16:538
 Cretaceous, 121A4:89
 diagenetic dolomite, 201B13:5–6
 Eocene, 150X_B17:239
 lithofacies, 150B11:204, 206
 lithology, 150A7:141–145; 8:210–211; 10:312–316;
 150X_A1:18–23; 150X_B2:16–22; 18:255;
 167A(1)13:358–359; 174AX_A1:20, 22, 24, 26–27,
 29; 174AXS_A1:20–21; 2:29–31; 3:24–25, 34;
 5:26–27; 6:27–28, 31–34, 36–38; 204A11:6–7
 lower Miocene, 150X_A1:17
 magnetostratigraphy, 101B23:329; 150B8:137;
 150X_B22:296–304
 Oligocene, 150X_B15:190–205
 origin, 128A4:157
 paleoceanographic correlation, 123B39:752
 Peru margin, 112A6:99; 17:599
 photograph, 150A8:215; 174A_A3:54; 150X_A1:20–21;
 174AXS_A2:57–58; 182A6:52; 186A5:57–58;
 204A3:59; 11:31
 Site 798, 128A4:124, 138, 141
 Site 799, 128A5:241
 vs. depth, 183A5:138–140
- sand, glauconitic clayey, 174AXS_A6:22–23, 35–38

- sand, glauconitic quartzose, 174AX_A1:22, 24–26, 32; 174AXS_A2:25–27
- sand, glauconitic quartzose silty, 174AXS_A1:24–25; 4:14
- sand, glauconitic shelly, 174AX_A1:15–20, 28–30
- sand, glauconitic silty, 174A_A4:111–113
- sand, graded
 - depositional environment, 112A19:810–812
 - grain size, 112A19:816
 - laminations, 112A11:169
 - Lima Basin S, 112A19:807, 833
 - lithology, 141A7:164–165
 - photograph, 141A7:168; 155A12:328–329; 180A7:30; 190A5:39
 - Pisco Basin W, 112A18:717–718
 - Salaverry Basin, 112A12:255; 13:307, 310
 - Trujillo Basin, 112A16:529
- sand, granulariferous
 - lithology, 174AXS_A4:24; 5:17; 6:38–42; 7:21
 - silty clayey, 174AXS_A5:23–25
- sand, gravelly
 - lithology, 174AX_A1:15; 174AXS_A3:19–20, 22–23
 - paleoenvironment, 174AX_A1:18
- sand, gray, Lima Basin S, 112A19:806–807
- sand, green, sedimentation, 189A1:53–54
- sand, greenish, physical properties, 119A9:369
- sand, gypsiferous
 - Cornaglia Terrace, 107B14:225
 - lithology, 107B14:224
 - Sardinian margin, 107A8:448
- sand, hornblende-bearing feldspar-quartz, 201A10:11
- sand, igneous, Site 734, 118B25:435
- sand, inner neritic, photograph, 174AXS_A6:74, 76
- sand, interbedded, lithofacies, 150B11:205–206
- sand, laminated
 - lithology, 178A4:5–8, 11–13; 178B25:4–5
 - photograph, 150B11:211
- sand, lignitic
 - lithology, 174AX_A1:32; 174AXS_A7:15
 - quartz, 174AXS_A4:15
 - silty, 174AXS_A1:28–29
- sand, lithic
 - lithology, 157A7:333; 8:402; 201A9:11
 - photograph, 157A7:332
- sand, lithic-crystal-foraminifer, 157A9:457
- sand, lithoclastic, lithology, 173A4:74–77
- sand, massive, photograph, 178A5:53
- sand, medium-grained, photograph, 174AXS_A6:74
- sand, micaceous
 - bioturbated clayey, 174AXS_A6:22–23
 - burrowed silty, 174AXS_A6:34
 - fine, 174AXS_A6:20–22
 - glauconitic, 174AXS_A1:23–24; 2:25
 - lithology, 174AXS_A7:12
 - muddy, 174A_A3:56–57
 - silty-clayey quartzose, 174AXS_A4:13
- sand, middle neritic
 - clayey glauconitic, 174AXS_A6:76
 - glauconitic, 174AXS_A6:77–78
- sand, muddy
 - lithology, 105B3:41; 174A_A5:158–161; 174AXS_A5:21–23; 7:22
 - Peru margin, 112B41:625, 627
 - photograph, 174A_A5:159
 - quartzose, 174AXS_A6:29
 - textures, 174A_B3:4, 9
- sand, neritic, photograph, 174AXS_A2:58
- sand, normally graded
 - lithology, 150B11:203; 165A5:238–239, 241, 244–245
 - photograph, 150B11:208
- sand, organic-rich fine-medium, 174AXS_A6:19–20
- sand, organized, lithofacies, 155B40:613–614
- sand, pebbly
 - fine silty, 174A_A3:56
 - lithology, 161A6:193–194; 174AXS_A7:13–14
 - muddy, 174A_A3:55
 - paleoenvironment, 174AX_A1:18
 - photograph, 161A6:199–200
 - Site 790, 126A7:144
 - Site 791, 126A7:147, 158
- sand, peloidal, photograph, 144B15:306
- sand, phosphatic
 - burrows, 112B8:118
 - coated grains, 112B8:119–120
 - energy level variables, 112B8:126
 - graded beds, 112B8:119
 - Lima Basin S, 112A19:811
 - lithology, 194A7:10
 - photograph, 194A8:29
 - Site 680, 112B8:119–120
 - Site 681, 112B8:117
 - Trujillo Basin, 112A16:531–532
- sand, phosphatic-glauconitic, 112A16:532–533, 536, 563; 112B8:114, 118
- sand, phosphoric, Salaverry Basin, 112A13:311
- sand, pumiceous
 - depositional environment, 126A9:326
 - lithology, 157A7:329–332
 - parallel laminations, 126A7:149
 - petrography, 157A10:520–521
 - Site 790, 126A7:144
 - Site 791, 126A7:158
 - Site 793, 126A9:329
- sand, pyroclastic, transformation, 107B19:307
- sand, quartz
 - Fourier grain shape analyses, 113B7:89–90, 96
 - lithology, 150A10:317–318; 152A11:204; 174A_A3:45; 194A5:5
 - origin, 128A4:157
 - photograph, 150A7:142, 221; 194A4:42
 - Site 798, 128A4:124, 138
 - Site 799, 128A5:264
 - types, 113B7:103
 - well-logging, 173A3:51–61
- sand, quartz-lithic, lithology, 157A9:444
- sand, quartz-rich, Cornaglia Terrace, 107A9:613
- sand, quartzo-feldspathic
 - Pisco Basin W, 112A18:709
 - Site 688, 112B20:876

- sand, quartzose
 - composition, 190/196B3:6-8
 - lithology, 174AX_A1:20-21, 26, 32; 174AXS_A4:13, 15-28; 5:22-23, 28-29, 36-42; 6:19-20, 24
 - photograph, 174AXS_A6:77
 - photomicrograph, 190/196B3:26
 - sediments, 174AXS_A5:72-76; 6:86-90
- sand, quartzose clayey, lithology, 174AXS_A1:24-25
- sand, radiolarite, winnowing, 123B15:312
- sand, sedimentoclastic, composition, 190/196B3:8-9
- sand, shell-bearing, Salaverry Basin, 112A12:255
- sand, shelly
 - clayey, 174AXS_A1:28-29
 - lithology, 150X_A1:15-17; 174AXS_A2:22-23, 28
 - muddy glauconitic, 174AXS_A5:23-25
 - quartzose, 174AXS_A7:12-13
 - silty, 174AXS_A2:19-23
- sand, siliceous, lithology, 180A9:9
- sand, siliciclastic
 - lithology, 133A(1)16:688; 143B30:477, 490-491; 146A(1)4:60-62; 167A(1)11:288-291
 - turbidite sequences, 108B18:317; 19:338
- sand, silty
 - Atlantic Ocean E tropical, 108A2:35, 41
 - lithology, 146A(1)4:61-62; 152A6:60-62; 7:75-77; 8:93; 155A6:92-93; 170A4:104, 106; 174A_A4:104-111; 174AX_A1:18; 174AXS_A3:22-23, 27; 4:13; 5:42; 7:12; 181A1:11-14; 3:5-8; 188A5:9; 190A4:6; 7:5; 8:5-7; 202A3:6-9; 204A8:7-8
 - petrography, 161B25:334-335
 - photograph, 149A6:157; 152A6:61; 11:206; 155A6:100; 157A4:67; 161A5:128-129; 174A_A3:55, 58; 181A3:42; 188A5:44; 190A7:27-28; 9:35
 - photomicrograph, 183A5:94, 96
 - quinones, 205B8:19
 - Salaverry Basin, 112A13:308
 - Site 855, 139A5:109-110
 - Site 858, 139A7:447-448
- sand, silty fine-medium, lithology, 174AXS_A6:19-20
- sand, silty foraminiferal, lithology, 172A3:38
- sand, silty glauconitic, lithology, 174AXS_A6:27-28
- sand, silty glauconitic quartzose, lithology, 174AXS_A6:26-27
- sand, silty-muddy, lithology, 190A5:7-8
- sand, silty quartzose, lithology, 174AXS_A4:12; 7:13-14
- sand, skeletal, photograph, 144A3:56
- sand, source rocks, 112A11:167
- sand, terrigenous
 - chemical composition, 119B12:229
 - grain-size maxima, 119B11:217
 - gravel content, 119B13:242, 249
 - ice-rafted transport, 119B13:249
 - Lima Basin C, 112A11:165
 - lithology, 119B12:228; 133A(1)15:623
 - petrography, 161B1:6
 - photograph, 170A6:197
 - Sardinian margin, 107B14:224
 - sea level control, 119B13:249
 - terrigenous components, 141A7:169
- sand, terrigenous ashy, photograph, 170A3:55
- sand, thin-bedded
 - permeability, 131B7:92
 - petrography, 131B2:17-18
 - provenance, 131A7:284
- sand, turbiditic
 - lithology, 169A3:52
 - photograph, 152A11:205-206
- sand, unconsolidated, Site 732, 118B3:42
- sand, vitric
 - deposition, 126A9:326
 - electron micrographs, 135B49:799
 - felsic and mafic components, 126A8:228-229
 - graded beds, 126A9:328-329
 - lithology, 135A(1)6:255-257; 8:348-351; 9:410-414; 10:501-503; 11:585, 589
 - photograph, 135A(1)6:255
 - Site 788, 126A6:107
 - Site 791, 126A7:160
 - Site 793, 126A9:323, 325, 327
 - X-ray diffraction data, 126A7:148, 150
- sand, volcanic
 - characteristics, 107B18:294
 - Cornaglia Terrace, 107B18:295-297
 - De Marchi Seamount, 107B18:295-297
 - Gortani Ridge, 107B18:295-297
 - lithology, 134A7:102-104; 10:268-271; 135A(1)7:297-301; 9:415-416
 - Marsili Basin, 107A6:145; 107B18:297-298
 - origin, 107B18:302-303
 - photograph, 134A10:272
 - photomicrograph, 200A3:79
 - Pliocene-Pleistocene interval, 136B4:53-63
 - Sardinian margin, 107B18:295-297
 - shallow-water source, 123B32:578
 - Site 699, 114A6:161
 - Site 703, 114A10:557
 - Site 732, 118A3:48
 - Site 737, 119A6:168
 - turbidite sequences, 108B18:317
 - Tyrrhenian Sea, 107A7:300; 107B18:295-298
 - volcanism, 157A2:23
 - vs. depth, 183A5:138-140
- sand, volcanic glass-rich, photograph, 204A4:50
- sand, volcanoclastic
 - detrital modes, 126B9:142-144
 - geochemistry, 126B10:160
 - grain dissolution and alteration, 126B8:129
 - grain types, 126B9:140-141
 - heterogeneity, 126B9:147, 153
 - Izu-Bonin region, 126B10:155-160
 - lithification, 126B8:131
 - lithology, 126B9:140-144; 144A11:443-444; 180A5:7; 6:19; 9:7, 9-11; 180B6:9; 190/196B3:5-6, 12
 - mineral chemistry, 126B10:158-160
 - modal composition, 126B9:145, 147
 - petrography, 180B7:1-58
 - petrology, 126B10:158, 160
 - photograph, 157A10:513; 165A3:60; 180A6:93, 96-97; 9:71; 210B9:47
 - photomicrograph, 180A6:94

- Site 792, 126B10:169
- tachylite-rich composition, 126B9:147
- temporal trends, 126B9:144–145
- sand, well-sorted, Site 743, 119B6:128
- sand, zeolitic, lithology, 161A6:193–194
- sand, zeolitic calcareous volcanic clayey
 - lithology, 183A4:4–5, 11–13
 - photograph, 183A4:40
- sand and shell beds, vs. depth, 146B(2)11:158
- sand beds
 - lithofacies, 146B(2)27:348–349
 - photograph, 146A(1)7:319
 - thickness and depth, 146B(2)12:177–179
 - vs. depth, 146B(2)22:302
- sand beds, parallel-laminated, lithology, 126A9:330
- sand beds, thickness vs. depth, 146B(2)11:155, 159–161
- sand blebs, lithology, 174AXS_A5:21
- sand/carbonate ratio, oxygen isotopes, 154B15:232; 18:272
- sand clasts. *See* clasts, sand
- sand/clay ratio, flood-basalt alteration, 163B2:27
- sand fraction
 - deep-sea carbonates, 130B29:497
 - sediments, 139B2:44; 160B19:232, 233, 236, 239; 175B(synthesis):37, 93; 1:1–23; 21:27–31
 - time series analysis, 130B37:632–634
 - turbidites, 135B7:115–116
 - vs. age, 159B41:564; 175B19:15
 - vs. depth, 159B41:564; 43:590–591; 175B1:8; 198B12:9, 13
- sand grains
 - lithology, 178A4:9–10; 5:5, 10; 178B25:4–6; 188A3:11–12, 14, 18–19
 - photograph, 178A4:52; 5:46
 - photomicrograph, 210A3:152
- sand injection structures
 - lithology, 180A10:5, 9; 12:12, 17
 - photograph, 180A10:40, 42
- sand layers
 - lithology, 186A5:15
 - location, 161A9:398
 - number, 186A5:101
 - vs. depth, 186A5:51
- sand/mud ratio, Prydz Bay, 119B6:95–96
- sand patches, vs. depth, 186A5:51
- sand pipes
 - rheology, 159B2:17
 - sediments, 159A7:240–241; 159B2:16
- sand record, insolation, 202B4:28
- sand/sandstone ratio, volcanoclastic
 - geochemistry, 126B31:482
 - island arc character, 126B31:471
 - Izu-Bonin arc, 126B31:470–474
 - major elements, 126B31:470–474
 - rare earths, 126B31:478
 - source rocks, 126B31:470–471, 483
 - tholeiitic affinity, 126B31:479
 - trace elements, 126B31:475–479
- sand shoal facies
 - carbonates, 144B16:320, 322
 - depositional history, 144B18:361–380
 - lithofacies, 144B14:275–278, 281–282
- sand-silt-clay content, triangular plots, 155B3:41
- sand/silt ratio, thickness, 181A6:97–115
- sand-silt series
 - diatomaceous, 119A11:403; 119B6:93, 126
 - number, 186A4:182–183
 - Site 790, 126A7:144
 - volume percentage, 139A7:453
 - vs. depth, 167B23:270
- sand size, ice-rafted debris, 163B14:159–160, 164–166
- sand types, photomicrograph, 155A10:255
- sand units per core, vs. depth, 157A7:331; 9:444; 10:508
- sandstone
 - acid vs. basic components, 126B31:483
 - Albian, 159B12:117
 - alkenone unsaturation index, 117A11:353; 117B25:445–449
 - alkenones, 117A9:237
 - alteration, 126A9:334–335; 126B6:106, 109; 127A7:345; 180A1:6; 193A1:27
 - apatite, 159B4:35–41
 - Asturian slope, 103A7:111
 - Barremian–Aptian interval, 103B39:699
 - basement, 180B3:3–4; 183A1:17–19
 - bedding, 126A9:346; 126B4:80–82, 84, 87–91, 95; 41:612–614; 127A6:264–265, 346, 348; 159A6:186
 - Bouma sequences, 103A9:234–236, 276; 126B4:87
 - calcite replacement, 103B39:705, 708–709
 - carbon fluctuations, 117B17:299, 302; 35:581
 - carbonates, 103B30:507, 509; 127/128B(1)2:39, 141; 9:141–143; 143B37:588
 - Celebes Sea, 124A10:132, 134–135
 - cementation, 107B19:307; 127/128B(1)9:132, 134–135; 128A5:276
 - chromian spinel, 159B14:133–139
 - classification, 127/128B(1)7:106
 - clastic dikes, 131A6:97
 - clasts, 160B46:598
 - clinoform stacks, 171B_A1:5–6
 - color, 119B3:45, 49; 126A9:346
 - compaction, 127/128B(1)9:132
 - composition, 103B30:505–507; 39:705; 107B19:313; 110B4:53; 119A9:352; 126B6:105–106, 109; 31:482; 127A7:345; 127/128B(1)7:104–105, 113; 157B12:149; 180B7:8–17; 190/196B3:18
 - Coniacian–Eocene interval, 159B12:117–119
 - correlation, 135B22:367–368
 - Cretaceous, 103A5:85
 - cross-bedding, 119B3:46
 - depocenters, 189A1:7
 - depositional environment, 119B3:49; 4:57; 126A8:246; 126B4:87; 41:612; 127A1:19
 - deviations from modern temperature, 117B17:298
 - diagenesis, 126B31:468; 127/128B(1)9:131–151
 - feldspar, 127/128B(1)7:105–106; 9:131–151
 - fining-upward sequences, 119B3:45; 4:57
 - fluid inclusions, 210B5:1–21
 - Formation MicroScanner imagery, 126B41:613–617; 180B25:115

- Galicia margin W, 103A1:11; 9:222–236, 239; 10:425;
103B4:44–46, 49; 8:108, 110
- garnets, 183B16:1–8
- geochemistry, 126B31:482
- geology, 188A1:8–9
- glacial–interglacial cycles, 117B17:299; 19:324, 337;
25:449
- grain size, 127/128B(1)7:100, 104
- interbedded with basalt, 127A7:345–346
- intraclasts, 126B4:82
- isotope stratigraphy, 117B17:296–299; 19:323
- Jurassic, 103B39:702, 705, 711
- Jurassic–Cretaceous interval, 103A7:107–108, 113;
103B39:705; 170A1:7
- laminations, 127A7:347–349
- Le Danois Bank, 103A7:118
- lithofacies, 135B12:175–178; 169A3:56; 178A1:14–15
- lithology, 103A10:417–418, 421–423, 450–451;
11:537–538; 105A4:88, 91; 127/128B(2)78:1233;
133B27:385, 393; 134A7:106–108; 12:402;
139A7:298–300; 141A7:165, 167; 9:309–313;
10:354–356, 358; 149A4:52–62, 124–126, 155–
160, 220–223; 149B45:687–688; 150X_A1:22–
23; 157A4:68; 7:333; 159A7:228–231;
160A11:383; 163X_A6:9; 7:3–4; 167A(1)5:92;
169A5:210; 170A5:158–159, 161–162; 6:195;
171A_A3:27; 173A4:74–77; 7:168–172;
178A9:6–7; 180A5:8–9; 6:21–23, 25–26, 28, 30–
31; 8:6–8, 12–13; 9:19–23; 10:5, 7–9; 12:6, 11–
12, 16–17, 21; 180B6:7–8, 11–13, 15–16;
182A4:10–11; 183A5:5–6, 16, 41; 6:8–9;
188A4:13; 189A6:20; 194A4:9; 7:10; 195A4:11–
14; 196A1:9; 205A6:8–9; 210A1:14; 3:45, 48–49
- locomorphic stage, 103A9:234
- lonestone, 188A5:11
- magnetic properties, 117B25:451; 119B3:51;
126A5:84; 134B26:470
- Marsili Basin, 107B18:289
- Mesozoic, 103B4:39–40
- mineral replacement, 127/128B(1)9:131–148
- monsoon, 117A1:8–9; 4:45
- mud, 160A1:11–14; 18:522–524
- nannofossils, 197A6:5–6
- oldest deposits, 127A6:268–269
- Ortegal Spur, 103A7:111
- Owen Ridge, 117B11:224
- Palawan Island, 124B9:124
- paleocurrent dip, 210B3:10–11
- parallel laminations, 126A9:344
- Peru margin, 112A6:93–94
- petrography, 119B3:50–52; 4:57; 126B8:126–130;
134B16:339; 159B12:119–120; 161B3:41;
180B7:1–58; 210B2:4–5
- petrology, 126A9:333–334; 210B2:1–47
- photograph, 141A6:85; 7:169; 10:356–357, 360;
141B11:163–164; 149A4:57; 5:126; 6:157;
7:224–225; 151A8:231; 152A7:79; 8:95;
155A12:336; 157B12:177; 159A3:60; 5:85–86,
102; 159B2:21; 7:68–69; 13:123; 160A14:470;
161A8:372–373; 169A3:58, 61, 73–74, 77, 80,
82, 111; 169B9:5–6, 20–21; 10:11, 38;
170A5:163; 6:199; 173A7:173; 8:231–232;
180A5:53–57, 59–60; 6:101, 105, 112–113; 8:49,
55, 70, 74; 9:78; 183A5:70, 83; 184A9:59;
195A4:78; 210A2:203, 210, 219, 222, 227
- photomicrograph, 160B45:595; 161B3:55; 25:342;
180A5:52; 7:32–33; 183A5:84–85; 194A6:38;
195A4:89–90
- physical properties, 103A9:259; 12:591; 112A20:924;
117A10:607; 19:612; 117B14:265, 271; 17:291;
126A5:89; 141B32:403; 152B37:449
- Pleistocene, 141B10:133–151
- Pliocene, 180A1:16; 180B(synthesis):11
- point count categories, 180B7:47–48; 210B2:43–46
- poor recovery, 103A9:226
- preglacial sedimentary basin fillings, 163X_A8:4–5
- provenance, 119B3:51–52; 127/128B(1)7:99–111;
9:148; 146B(1)29:425–429; 190/196B3:1–28
- quartz-feldspar-lithic fragments, 180B7:43; 210B2:25–
27
- quartz-potassium feldspar-plagioclase system,
210B2:29
- redbeds, 119A9:351–352, 354, 356, 365
- rifting, 159B12:115–116
- rip-up clasts, 103A9:235
- rippled beds, 119B3:49
- rock fragments, 119B3:50
- Salaverry Basin, 112A12:256
- Sardinian margin, 107B2:31; 38:666–667
- sedimentation, 141B31:395–396; 161B1:16;
180A1:15; 183A1:37, 39; 210B1:28–31
- sediments, 126B4:83; 127/128B(1)7:100, 104;
(2)78:1233; 173A1:13; 210B2:38–42
- seismic stratigraphy, 103A9:255, 258; 119A10:393–
394
- Site 688, 112A20:880, 887–889
- Site 721, 117B25:448
- Site 723, 117A11:352; 117B25:448
- Site 728, 117B25:448
- Site 731, 117B25:448
- Site 732, 118A3:49
- Site 740, 119B19:383
- Site 741, 119A10:381, 385
- Site 742, 119A11:410; 119B6:89
- Site 748, 120A7:173–175, 228; 120B(1)9:115
- Site 766, 123A5:283–284
- Site 793, 126B15:231
- Site 796, 127/128B(1)7:99–113
- Site 797, 127A7:344–346; 127/128B(1)7:99–113
- Site 799, 127/128B(1)2:33–34, 42–43; 7:99–113;
128A5:265, 292
- source area, 127/128B(1)7:106–111
- spreiten-type burrows, 119A10:384
- stratigraphy, 197A1:14–15
- structures, 159B2:16; 180A8:23
- sulfides, 115A4:146
- Sulu Sea, 124A11:208–210
- tectonics, 127/128B(1)7:109–110; 195A4:87
- terrigenous sedimentation, 180A1:10
- textures, 110B15:244
- thickness, 126B4:88–89; 41:612; 127/128B(1)7:100,
104

- Tiburon Rise N, 110A5:213
 Tithonian, 103B4:40
 trace elements, 126B31:483
 Trujillo Basin, 112A6:97
 turbidites, 173B6:1–11
 Tyrrhenian Sea, 107A6:301; 107B19:320
 unconformities, 159B2:16
 Upper Cretaceous, 183A1:34
 upwelling, 117A10:303; 117B14:271; 19:324, 338
 uranium content, 112B29:484
 Valanginian, 103B4:41
 Valanginian–Hauterivian, 103B30:507–509; 39:699
 velocity, 103A9:267, 272, 274; 11:542; 12:591
 volcanoclastics, 180A1:9; 180B8:9
 volcanism, 157A2:22
 vs. depth, 188A1:49; 210A3:127–129
 vs. granite/igneous limestone, 188A5:46
 well-logging, 195A4:77
 X-ray diffraction data, 126A9:340, 342
 zeolitization, 127/128B(1)9:131–139
See also arenite; calcilitite; dropstones; grainstone-sandstone unit; litharenite; quartz arenite; quartz sandstone; siltstone-sandstone alternation
- sandstone, altered coarse-grained, 180A12:86
 sandstone, argillaceous, lithology, 144A11:420–421
 sandstone, arkosic, basin fillings, 163X_A8:4–5
 sandstone, basaltic
 petrography, 157A7:353–355
 photograph, 157B12:179
 sandstone, bioclastic
 basement, 183A7:14, 25
 lithology, 183A1:24; 7:37
 modal composition, 180B7:8–14
 Site 797, 127A7:346
 sandstone, bioclastic calcareous, Site 688, 112A20:881
 sandstone, black, volcanoclastics, 157B16:278
 sandstone, burrowed
 lithology, 210A3:36–37
 photograph, 210A3:184
 sandstone, calcareous
 composition, 152A6:63
 lithology, 144A11:421–422; 149A8:266; 152A6:60–62; 159A5:81–82; 160B37:469; 173A6:110, 112–114; 8:228–234; 174AXS_A3:28; 180A12:20; 182A8:8–9; 210A3:26–28, 33–34, 41–42, 47–48
 photograph, 144A11:426; 149A7:225; 173A7:171; 8:230; 180A9:79; 12:82; 183A6:73–74; 210A3:172, 191, 204, 218, 229, 240
 proportions, 173A6:119
 Site 793, 126B15:234
 Valanginian–Barremian interval, 123B1:15
 X-ray diffraction data, 159A6:170
 sandstone, calcareous, lithic, 157A7:356
 sandstone, calcareous feldspathic, 112A17:602
 sandstone, calcareous foraminiferal, 173A7:172; 8:228
 sandstone, calcareous siliciclastic, 173A8:232
 sandstone, calcite-cemented
 lithology, 159A8:266–267; 174AXS_A3:29–33; 180A8:10
 photograph, 159A8:269
 Trujillo Basin, 112A16:538
 sandstone, calcite-cemented quartz foraminiferal, 171B_A6:256–257
 sandstone, calcite-cemented siliciclastic, 173A8:234
 sandstone, carbonate
 lithology, 173A8:234
 photograph, 160A12:429
 sandstone, cemented, petrography, 161B25:334–335
 sandstone, chaotically bedded, 178A9:48
 sandstone, chloritic, 125A14:325
 sandstone, clay-rich, 194A4:58
 sandstone, clayey
 lithology, 149A4:58–59; 161A8:359–360, 362
 photograph, 173A9:274
 Site 765, 123A4:94
 sandstone, coarse-grained
 lithology, 180A9:22–23; 180B6:11, 15–16
 photograph, 180A9:85; 10:29, 35, 39; 12:67, 80; 183A6:77
 photomicrograph, 180A9:76, 80, 84, 86, 89
 sandstone, coarse-grained parallel-laminated, 180A12:78
 sandstone, compacted subarkosic, 119B7:137
 sandstone, cross-bedded, 159A8:269; 159B12:118
 sandstone, cross-laminated, 210A3:184
 sandstone, crystal-lithic vitric, 157A7:353–355
 sandstone, crystal-lithic volcanic
 geochemistry, 183A5:36–37
 lithology, 157A8:403, 405; 10:512; 157B12:156; 183A5:6–8, 13–27, 30, 32
 petrography, 157A10:520–521
 photomicrograph, 157A7:356
 sandstone, deformed laminated, 180A12:70
 sandstone, dropstone, lithology, 145B12:203
 sandstone, epiclastic, photomicrograph, 157B13:200
 sandstone, exotic, heavy minerals, 157B12:168–169
 sandstone, feldspathic
 modal composition, 180B7:8–17
 photomicrograph, 180B7:49–50
 Site 799, 127/128B(1)9:131
 sandstone, ferruginous, 149B36:578–580
 sandstone, fine-grained
 lithology, 180A9:19; 180B6:15
 photograph, 159A6:190; 180A8:51; 9:74, 87, 93; 10:27, 36–39
 sandstone, fine-grained arkosic, 163X_A6:38
 sandstone, foraminiferal
 lithology, 161A8:358–359, 362; 173A8:234
 photograph, 173A7:173
 Site 755, 121B44:937
 sandstone, friable, photograph, 163X_A6:35
 sandstone, glauconitic
 lithology, 150A7:146–148; 174A_A3:56–57; 182A6:8; 183A1:20; 6:7–8
 photograph, 150A10:319; 174A_A3:56; 4:114–115; 183A6:73–76
 physical properties, 123A5:308–309
 Sardinian margin, 107B12:183–184
 Site 748, 120A7:173–175
 Site 766, 123A5:284, 299; 123B4:101
 sandstone, glauconitic quartz, 174A_A4:111–113
 sandstone, glauconitic silty, 159A8:264–266

- sandstone, graded
 lithology, 180A5:10–18; 9:14, 21; 12:8–9, 13–14;
 180B6:12–13; 193A4:17–23, 32; 210A3:37, 41–
 50
 photograph, 210A3:146, 195–196, 199
 photomicrograph, 193A4:112
- sandstone, granule
 Formation MicroScanner imagery, 126B4:80–82, 86;
 41:617
 Izu-Bonin forearc, 126B41:612
- sandstone, green, lithofacies, 160B43:555
- sandstone, horizontally laminated, 210B6:10, 12
- sandstone, hyaloclastic, 125B14:265
- sandstone, indurated, 118A3:42
- sandstone, interbedded normally graded volcanoclastic,
 180A12:73
- sandstone, intraclastic, 159A5:79
- sandstone, laminated
 photograph, 151A10:327; 159A6:187; 170A6:201;
 210A3:130
 photomicrograph, 173A6:118
 X-ray imaging, 210B6:14–15
- sandstone, laminated graded, 210A4:24
- sandstone, laminated silty, 183A6:74
- sandstone, lenticular, 210A3:153, 228
- sandstone, lignitic, 174AXS_A5:38
- sandstone, limonitic, 182A12:7
- sandstone, lithic
 lithology, 157A7:333–338; 173A8:234; 180A5:11–12
 modal composition, 180B7:8–17
 petrography, 118A3:50; 161B1:6
 photograph, 157B12:179; 173A8:231
 photomicrograph, 180B7:49–52, 55–56
 Site 732, 118A3:51
- sandstone, lithic-crystal-vitric, 126A5:75
- sandstone, lithoclastic
 lithology, 173A7:172–173
 photomicrograph, 160B45:592; 173A4:79–80; 7:174
- sandstone, lithofeldspathic, dropstones, 145A3:45
- sandstone, massive, X-ray imaging, 210B6:17
- sandstone, massive silty, 210A3:214
- sandstone, medium-grained, 180A8:50; 9:75
- sandstone, medium-grained volcanoclastic, 180A12:75
- sandstone, metamorphosed, 152A9:115–116
- sandstone, micaceous, 210A4:19
- sandstone, micritic
 photograph, 159A6:169, 172; 173A7:173
 photomicrograph, 205A5:55
- sandstone, mixed, 180A12:79
- sandstone, mixed bioclastic, 180A12:78
- sandstone, mixed bioclastic/volcanoclastic, 180A12:17
- sandstone, muddy
 depositional environment, 126A8:244–245; 9:344
 lithology, 178A9:7; 210A3:21–25, 36–37, 47–48, 58–
 59
 petrography, 126B14:221, 224
 photograph, 210A1:62; 3:180
 Site 742, 119B6:89
 Site 792, 126A8:229
 Site 793, 126A9:333
 Turonian–uppermost Santonian, 210B8:9
- sandstone, normal-graded, 180A12:61
- sandstone, normal-graded mixed, 180A12:77
- sandstone, normal-graded volcanoclastic, 180A12:72
- sandstone, parallel-laminated, X-ray imaging, 210B6:13
- sandstone, parallel-laminated fine-grained volcanoclas-
 tic, 180A12:72
- sandstone, pebbly
 deposition, 126A9:346
 Formation MicroScanner imagery, 126B4:80–82;
 41:616
 Izu-Bonin forearc, 126B41:612
 Site 787, 126A5:73–74
 Site 792, 126A8:241
 Site 793, 126A9:336
- sandstone, pebbly glauconitic quartz, 174A_A4:111–113
- sandstone, phosphatized volcanoclastic, 144A4:116–117
- sandstone, planar-trough cross-laminated, 210B6:11
- sandstone, polymict
 lithology, 123B5:141–144, 150
 Sardinian margin, 107A8:418; 107B1:12; 2:33; 38:645
- sandstone, porous, photograph, 210A3:196
- sandstone, postevaporite, sedimentation, 161B1:16
- sandstone, pumiceous
 parallel laminations, 126A9:336
 Site 788, 126A6:111
 Site 793, 126A9:343
- sandstone, pyritic, lithology, 167A(1)6:133
- sandstone, quartz
 lithology, 159A5:82–83; 207A6:9; 8:9
 photograph, 207A8:48
 preglacial sedimentary basin fillings, 163X_A8:4–5
- sandstone, quartz bioclastic, 194A4:58
- sandstone, quartzo-lithofeldspathic, 112A20:887, 929
- sandstone, quartzose
 composition, 190/196B3:8, 12
 lithology, 152A9:115–116; 174AXS_A6:44
 petrography, 160B45:577–578
 photomicrograph, 160B45:591; 190/196B3:27
- sandstone, red, lithology, 103A1:7
- sandstone, redeposited volcanoclastic, 129A2:40–44
- sandstone, sedimentary-lithic, 134A10:273
- sandstone, sedimentoclastic, 190/196B3:8–9, 12
- sandstone, serpentine, 125B19:344
- sandstone, sharp-based calcium carbonate, 180A9:88
- sandstone, shell-rich, 180A9:87
- sandstone, siliciclastic, 112A6:97
- sandstone, silicified, 169A6:270
- sandstone, silty
 Albian, 159B2:16–17
 internal structures, 126A5:72–73
 lithology, 139A7:449–454; 159A6:170–174; 7:228–
 231; 161A8:359–362; 170A5:158–159, 161–162;
 180A9:14, 17–18, 24–25; 12:22; 180B6:7;
 182A1:17; 197A4:8–9; 5:5
 photograph, 159A6:167, 173–174; 7:231; 180A5:59–
 60; 210A3:215
 photomicrograph, 210A3:206
 Site 766, 123A5:285–286; 123B4:94
 Site 787, 126A5:73–74, 76
- sandstone, subarkosic
 composition, 119B7:135, 137, 141

- mud breccia, 160B46:603
- provenance, 119B7:138–139
- sandstone, sulfide banded/impregnated, 169A3:76
- sandstone, tuffaceous, Site 796, 127A6:265
- sandstone, vitric
 - geochemistry, 126B31:482
 - graded beds, 126A9:335
 - lithology, 135A(1)8:352; 10:503–508; 11:589–593; 196A4:15; 197A5:5
 - Miocene, 126A10:407
 - photograph, 157A7:336
 - Site 787, 126A5:72
 - Site 788, 126A6:109
 - Site 792, 126A8:229, 235; 126B11:172
 - well-logging, 126B43:657
- sandstone, volcanoclastic
 - alteration, 126B8:125–132; 27:419
 - clasts, 180A7:16
 - composition, 143A2:29; 180A1:8
 - geochemistry, 126B11:160
 - Izu-Bonin region, 126B10:155–160
 - lithology, 134A9:190, 192; 10:273; 12:405–406; 13:493; 135A(1)11:591–595; 135B6:87–92; 143A9:306–308; 144A3:71; 180A5:8–9; 6:26; 7:10–11; 9:11, 13, 26; 180B6:13; 197A3:14
 - mineral chemistry, 126B10:158–160
 - nannofossils, 192A3:12
 - petrology, 126B10:158, 160; 144B29:496
 - petrophysics, 143B18:303
 - photograph, 134A13:494, 496, 498; 157B12:180; 180A5:47; 6:106; 195A4:78
 - photomicrograph, 180A7:48; 8:48, 56; 12:62, 68
 - Pleistocene, 134A9:192
 - remanent magnetization, 134B28:496–497
 - Site 758, 121A12:374
 - Site 766, 123B4:101
 - Site 786, 125B14:267–268
 - Site 796, 127/128B(1)7:102; 9:131
 - Site 797, 127/128B(1)7:103; 9:131
 - source areas, 126B31:482–483
 - thickness, 131A6:84
- sandstone, well-sorted
 - carbonate-cemented composition, 119B7:137
 - origin, 119B6:107–108
- sandstone clasts. *See* clasts, sandstone
- sandstone dikes, injection, 135B20:321
- sandstone fragments
 - glaciomarine sediments, 163X_A8:3
 - lithology, 182A6:5
- sandstone-siltstone graded bed, 180A12:65
- sandy carbonates. *See* carbonates, sandy
- sandy matrix, photograph, 197A5:43
- sandy siltstone. *See* siltstone, sandy
- sandy silty claystone. *See* claystone, sandy silty
- sandy turbidites. *See* turbidites, sandy
- sanidine
 - alteration, 183A7:44–47
 - argon isotopes, 161B12:148
 - basement, 183A7:16, 37–38
 - lithology, 183A5:7, 16, 26; 210A3:33
 - petrography, 161B27:358
- phenocrysts, 183A7:40–41
- photograph, 183A7:123–124, 143
- photomicrograph, 183A5:91, 109, 114–116, 122, 125; 7:114–117, 119, 122, 129
- sediments, 183B7:5, 25
- tuffs, 183A1:18
- volcanic rocks, 183B17:2
- Santernian, calcareous plankton, 160B12:155–165
- Santernian/Emilian boundary, cyclostratigraphy, 160B15:195
- Santonian
 - biostratigraphy, 129B11:223; 159B25:279; 27:335–338; 30:379; 31:393; 160B31:401; 174AXS_A1:35, 37, 43–44; 5:47; 6:55; 183B3:10–13; 188B2:3–4; 3:10–11; 189B5:29; 198A9:21–22; 207A6:20; 8:18
 - deposition, 159B11:106
 - hydrothermal alteration, 159B10:98
 - lithology, 136A4:40; 143A9:308; 144A4:117–118; 159A6:166–170; 171B_A4:105; 174AX_A1:31–32; 174AXS_A1:25–27; 56–57; 4:14–15; 5:36–37; 6:35–38; 183A6:7–8; 192A3:9–11; 198A9:10; 207A4:8–9; 6:8–9; 8:8–9; 210A1:15, 17; 3:36–39, 61
 - paleolatitude, 171B_A1:9
 - photograph, 171B_A4:112
 - pollen, 174AXS_A1:44–45
 - quartz-feldspar-lithic fragments system, 210B2:26
 - quartz-potassium feldspar-plagioclase system, 210B2:29
 - sedimentation rates, 207A8:23
 - sediments, 171B_A4:107; 210B8:9
 - seismic stratigraphy, 149B39:623; 183A6:61
 - stratigraphy, 160B32:412; 174AXS_A5:61
 - strontium isotopes, 192B3:4
 - unconformities, 198A9:25
 - See also* Albian–Santonian; Aptian–Santonian interval; Campanian; Coniacian/Santonian boundary; Coniacian–Santonian interval; Turonian/Santonian boundary; Turonian–Santonian interval
- Santonian, lower, nannofossils, 183A6:14
- Santonian/Campanian boundary
 - biostratigraphy, 192A3:23
 - stratigraphy, 120B(1)22:384
 - strontium isotopes, 192B3:6
- Santonian–Campanian interval, photograph, 192A3:61
- Santonian–Campanian interval, polarity, 129B23:443
- Santonian–Maastrichtian interval
 - foraminifers, 174AXS_A5:89
 - stratigraphy, 174AXS_A1:3
- saponite
 - alteration, 106/109B14:192; 136A5:79; 136B11:134–135; 139B11:215; 148B35:445; 152B35:426; 168A4:70–77; 5:116–119, 123, 126; 168B10:122, 125, 129; 185A4:25–26; 192A1:25–26; 3:29–32; 5:16–17; 192B6:3–4; 197A3:24–30; 4:20–23; 6:16; 205A4:32–33; 206A3:66–73; 206B1:8; 7:1–16
 - celadonite/iron oxyhydroxide association, 123B9:197

- chemical composition, 104B20:400–402; 126B28:436; 148B10:125; 11:157–159, 162–165, 168–170; 176B1:10
- electron microprobe data, 148B10:124; 168B12:152–154, 157
- fillings, 148B11:155
- formation, 119B16:307, 313; 121B32:624
- gabbros, 205A4:28
- glass replacement, 148B11:155
- green laminae, 198A6:12–13
- greenish zones, 168B10:130–131
- interpillow material, 185A3:24–25, 29–31, 116
- isotopes, 104B20:404–405
- Jurassic basement, 185A1:18
- lithology, 183A4:5–6, 12; 5:16, 38; 192A1:12
- magnesium/iron ratio, 126B34:521
- magnesium number, 168B12:154
- mineral chemistry, 152B34:421
- Norwegian Sea, 104A4:112
- occurrence, 102B10:144, 149; 127/128B(2)55:885–888
- photograph, 148A3:142, 144, 149; 168A4:65; 183A4:41, 63, 65; 5:133, 137; 7:104; 185A3:115; 191A4:99; 197A4:76; 5:74; 6:77; 198A1:131; 206A3:208, 213, 218–219, 224, 231–232, 237, 242, 284
- photomicrograph, 168A4:75; 5:132, 135–136; 185A1:47; 3:92; 192A3:112–114; 206A3:205–206, 209, 212–215, 222, 226, 239–240, 269, 279, 309
- pillow basalts, 168A6:172–174
- pseudomorphs in basalt, 121B30:563
- replacement, 148B12:182, 186
- secondary minerals, 148B11:153; 12:173, 187; 183A1:14; 4:20–21; 206B8:2–3, 11
- Site 765, 123B2:59, 70, 74
- Site 855, 139A5:136
- strontium isotopes, 148B10:149
- tephra, 205A4:23
- trace elements, 168B12:154
- veinlets, 206A3:78–79
- veins, 163A3:28; 168B12:156; 206A1:32; 3:71
- vesicles, 183A5:40; 185A4:24
- vs. depth, 148B35:443; 185A3:111–112; 197A3:99–102; 5:73
- X-ray diffraction data, 104B20:400; 200A3:20, 96; 4:116, 120
- See also* celadonite-nontronite-saponite mixtures; celadonite-saponite mixtures; chlorite-saponite mixed minerals; magnesium-saponite; phyllosilicates
- saponite, altered tuff, 124B13:193
- saponite, brown, 119B16:301
- saponite, core, 185A4:112
- saponite, cryptocrystalline, 168B12:150–151
- saponite, fibrous
- basalts, 168A4:65
- photomicrograph, 168A4:76; 5:132–134
- secondary clays, 168B12:150–151
- sketches, 168A5:131
- saponite, green, 119B16:301
- saponite, iron-rich
- alteration, 168B10:122, 125, 134; 192A7:9
- diffusion, 168B10:131
- reduction, 168B10:131–133
- saponite, magnesium-rich
- alteration, 168B10:122, 125, 134
- reduction, 168B10:131–133
- saponite, trioctahedral, 168B12:151
- saponite, vein-forming, 176A3:163
- saponite-celadonite-iron oxides, 148B11:153
- saponite/celadonite mixed minerals, 152B34:421
- saponite cement. *See* cements, saponite
- saponite fibers
- overlapping, 206A3:277
- shear, 206A3:280–281
- saponite matrix, photograph, 185A3:86
- saponite veins. *See* veins, saponite
- saprolite
- lithology, 152A11:204
- volcaniclastics, 152B9:123
- sapropels
- abundance, 160B49:658
- age model, 160B14:183–186; 15:191–197
- anoxic environment, 107A8:420
- bacteria, 160B25:303–307
- beds, 160A5:96
- biostratigraphy, 161B13:159–183
- bioturbation, 160B27:336–337
- calibration, 160B15:194–195; 161B13:172–173, 175
- carbon isotopes, 107B24:396
- carbonates, 107A8:422
- composition, 160B27:333–348
- Cornaglia Terrace, 107A9:609, 613; 107B38:659
- correlation, 107A10:785; 160A5:91; 7:167; 14:474, 476
- deformation, 160A9:304, 307, 310
- deposition, 107A8:435; 160A2:24; 160B19:227–248; 161B38:487; 40:505–518
- duration of events, 160B17:214–215
- formation, 107B1:24; 38:659; 160A2:21, 23–24; 5:118, 120; 160B3:29–36; 17:215; 19:242–244; 20:249–259; 26:309–331
- freshwater lens mechanisms, 107B1:24
- geochemistry, 160A11:395–396; 160B16:199–217; 23:285–295; 26:309–331
- global cycles, 161A1:14–15
- Gortani Ridge, 107A11:884–886, 888
- Ionian and Levantine Sea, 107A8:454
- isotopes, 161B31:401–411
- lipids, 161B39:489–503
- lithofacies, 160B37:469; 171B_A3:75–77, 81
- lithology, 160A5:93, 95–96; 6:129; 8:220–222; 9:294; 10:340–342, 374; 12:423, 445; 13:454; 14:471
- magnetic properties, 160B6:75–82; 161A5:140
- marine and continental origin, 107A8:422
- Marsili Basin, 107B38:659
- Mediterranean origin, 107B35:586, 588–589
- microfabric, 160B27:333–348
- mud, 160A1:12; 8:217–218
- normal faults, 160B49:647–649

- occurrence, 160A10:352; 14:480; 160B3:32;
 161B40:516
- organic carbon, 107A7:315; 8:420; 11:899;
 107B33:540; 34:574
- organic matter, 160B21:261–269; 23:285–295;
 161A4:81–82; 5:143–144; 161B30:393–411;
 175B6:6–7
- origin, 107B1:16
- oxidation, 161B39:500
- oxygen isotopes, 107B24:396; 161B38:482
- paleoceanography, 160A2:21–25; 161B29:387–388
- photograph, 160A5:97–100; 7:168–172; 8:229–230,
 233–236; 9:298–299; 10:342, 345–351; 12:425–
 426; 14:473–475; 160B27:341, 348, 361
- photomicrograph, 160B19:247–248; 49:658
- pigments, 160B3:34; 24:297–302
- Pleistocene, 107B38:659
- Pliocene, 160B21:262
- Pliocene–Pleistocene layers, 107B33:537–538; 38:659;
 161A1:11–12; 161B41:519–527
- position, 160A5:92–93; 7:165–166; 10:353–354;
 14:478–479; 160B15:193
- Rock-Eval pyrolysis, 107B35:582; 160A5:119;
 161A4:91; 5:151; 7:329; 171B_A6:285
- Sardinian margin, 107A8:419–422
- sedimentation, 160B43:563–564
- stable isotopes, 160B13:177–178
- stratigraphy, 160B14:181–189; 161B41:521, 523–524
- tectonic tilt, 160A10:361–362
- term definition, 161B41:521
- Tyrrhenian Sea, 107A7:301; 107B1:17; 38:659
- upper Quaternary, 160B28:349–363
- vs. depth, 160B49:649
- Zanclean, 160B9:113–123
- See also* organic-rich layers
- sapropels, composite, lithology, 160A5:96
- sapropels, deformed, photograph, 160A10:346, 349
- sapropels, diatom-ooze, 160B28:349–363
- sapropels, laminated
- “e” bed, 160B27:336
- electron microscopy, 160B27:335–336; 28:349–363
- “o” group, 160B27:336
- photograph, 160A10:345, 347, 350; 14:475
- sapropels, multiple-band, photograph, 160A5:99
- sapropels, oxidized
- lithology, 160A5:96
- photograph, 160A5:100; 10:348; 14:474
- sapropels, relict, photograph, 160A14:477
- sapropels, single-band, photograph, 160A5:97–98
- sapropels, thick-bedded, lithology, 160A5:95–96
- sapropels, thin-bedded, lithology, 160A5:95
- SAR. *See* Systeme Acoustique Remorque
- satellite imagery, sea ice, 151A4:49–53
- saturated isothermal remanence susceptibility. *See* mag-
 netic susceptibility/isothermal remanent magne-
 tization ratio
- saturates, yield, 180B16:19
- saturation, carbonates, 167B11:179–180
- saturation index, calcium carbonate, 168B8:95–97
- saturation isothermal remanence (SIRM). *See* remanent
 magnetization, saturation isothermal
- saturation isothermal remanent magnetization. *See* re-
 manent magnetization, saturation isothermal
- saturation remanence. *See* remanent magnetization, sat-
 uration
- saturation remanent magnetization. *See* remanent mag-
 netization, saturation
- saturation vapor pressure, data errors, 127/
 128B(2)63:986, 989
- saussurite
- metadiabase, 180A8:17
- photomicrograph, 180A12:92
- savanna, palynomorphs, 155B23:391
- scalenohedral crystals. *See* crystals, scalenohedral
- scaly cleavage. *See* cleavage, scaly
- scaly fabric. *See* fabric, scaly
- scandium
- alteration, 193B1:48; 200A3:31
- basalts, 121B30:571; 152B28:344; 210B9:16
- calcite-free data, 119B39:728–729
- Cretaceous/Tertiary boundary, 119B39:722–724
- depletion in vesicles, 135B37:615
- gabbros, 176B3:3–5; 8:4–14; 12:4; 209A6:30, 10:25
- hydrothermal sediments, 199B15:3
- igneous rocks, 209A5:36, 39; 10:26
- metasedimentary rocks, 152B10:136
- mineral separates, 158B2:30
- mixing with rare earths, 153B18:359–361
- Paleocene/Eocene boundary, 199B16:3
- percent change from protolith, 137/140B17:203
- peridotites, 153B29:518; 209A3:34; 6:29; 7:22; 9:18–
 19
- sediments, 145B13:210–211; 164B23:231–236
- shore-based flux vs. shore-based microwave acid di-
 gestion, 206B3:12–13
- Site 795, 127/128B(1)41:707
- Site 798, 127/128B(2)86:1370–1371
- Site 856, 139B11:229–250
- sulfides and sediments, 158B3:45
- tholeiitic basalt, 192A5:14–15
- troctolites, 209A10:23
- vs. aluminum, 135B43:702
- vs. aluminum oxide, 176B8:23; 209A3:139; 5:152;
 6:105, 107; 7:96; 9:87; 10:122
- vs. calcium oxide, 176B8:23
- vs. calcium oxide/aluminum oxide ratio, 176B8:23
- vs. clinopyroxene number, 176B8:23
- vs. composite depth, 145B27:422
- vs. depth, 131B28:350, 356–357; 139B17:359–367;
 145B13:212; 148A2:61; 3:158; 148B37:464;
 164B15:157, 233; 171B_B4:10; 199B15:6; 16:7;
 206A1:84; 3:197; 206B6:6
- vs. lanthanum/ytterbium ratio, 153B10:232
- vs. magnesium number, 148A2:59; 3:156
- vs. magnesium oxide, 197A3:96; 5:70; 6:71;
 206A1:89; 3:200
- vs. nickel, 176B3:11
- vs. silica, 151B19:360; 163B7:68
- vs. sodium number, 176B3:11
- vs. strontium, 163B7:68; 176B3:11
- vs. titanium oxide, 176B12:12; 209A10:123
- vs. vanadium, 209A5:158

- vs. ytterbium, 195B4:35
- vs. zirconium, 152B27:324–325; 28:345; 163B7:70
- X-ray fluorescence data, 152B35:427
- See also* iron/scandium ratio; lanthanum/scandium ratio; vanadium/scandium ratio
- scandium/aluminum oxide ratio, vs. depth, 131B35:444
- scandium/aluminum ratio, vs. depth, 157B31:556
- scandium/thorium ratio
 - Site 798, 127/128B(1)42:723, 733
 - Site 799, 127/128B(1)42:723, 734
 - volcanic activity, 127/128B(1)42:723, 732
 - vs. depth, 164B15:163
- scandium/zirconium ratio
 - basalts, 152B40:493–495
 - vs. depth, 152B40:489
- scanning electron microscopy
 - data, 129B3:85
 - images, 174A_B7:46–62
 - magnetic grains, 133B40:574–575
 - micrographs, 131B21:268
 - microstructures, 190/196B7:1–27
 - porosity, 142B7:56–57
 - sediments, 174A_B7:29
 - visual microanalysis, 127/128B(1)4:57–58
 - volcanogenic sediments, 141B12:169–180
- scaphopods
 - lithology, 174AX_A1:22; 182A4:5–6; 194A4:6; 6:3
 - sediments, 169S_A2:60
- scapolite
 - basement/sediment contact, 161A6:215
 - calc-silicate rock, 161B18:254–256
 - chemical variations, 161B18:256
 - photomicrograph, 161B18:261
 - See also* mizzonite
- Schaubcylindrichnus freyii*, sediments, 174A_B3:5, 9
- schist clasts. *See* clasts, schist
- schist fragments
 - photomicrograph, 180B7:53–54
 - volcaniclastics, 180B8:5–6
- schist grains, volcanoclastic sand, 180B7:7
- schistosity
 - deformation, 161B20:283, 287–288
 - photomicrograph, 209A6:73
 - Site 779, 125A7:128
- schists
 - basement, 161B44:565–568
 - basement/sediment contact, 161A6:211
 - breccia, 161B25:333
 - lithology, 180A5:13
 - origin, 195B4:9–10
 - Paleozoic, 103A13:223
 - photograph, 161B25:341
 - photomicrograph, 161B3:54; 23:313; 209A1:114–115
 - sandstone, 161B25:334–335
 - sediment provenance, 180B6:20–24
 - Site 699, 114A6:156, 159, 193
 - Site 701, 114A8:369
 - structure, 161B23:310
 - volcanic pebbles, 161B44:568
 - X-ray fluorescence data, 161A6:237
- See also* actinolite schist; amphibole mica schist; amphibole schist; amphibolite schist; biotite schist; calc-schist; chlorite schist; chlorite-tremolite schist; epidote-quartz schist; glaucophane schist; greenschist facies; mica schist; pelite schist; quartz schist; talc schist
- schists, amphibole-chlorite
 - hydrothermal alteration, 209A6:15
 - photomicrograph, 209A6:73
- schists, amphibole-chlorite-serpentine, 209A6:74
- schists, banded quartz-biotite-sillimanite, 161A6:228–229, 238–241
- schists, biotite, 161A6:236
- schists, biotite-plagioclase, 161A6:245
- schists, deformed amphibole-talc, 209A5:139
- schists, garnet-biotite-magnetite, 119A11:453
- schists, high-grade
 - basement/sediment contact, 161A6:213, 215
 - deformation, 161A6:250; 161B20:282–283
 - fission tracks, 161B21:295–300
 - mineral composition, 161A6:226
 - photomicrograph, 161A6:239, 243–246; 161B19:276–277; 20:287
 - pressure-temperature, 161B44:566–567, 571
 - textures, 161B19:265–266
 - thin sections, 161A9:991–1004, 1010–1011, 1013–1017
 - X-ray fluorescence data, 161A6:234
- schists, interlayered biotite-sillimanite, 161A6:231
- schists, low-temperature, 209A6:95
- schists, quartz-biotite, 161A6:240
- schists, quartz-biotite-sillimanite, 161A6:245
- schists, quartz-muscovite-feldspar, 133B37:537
- schists, serpentine
 - foliation, 209A7:17
 - Formation MicroScanner imagery, 209A7:89
 - photomicrograph, 209A6:94
- schists, serpentine-chlorite
 - photomicrograph, 209A6:96
 - semibrittle shear zones, 209A6:24
- schists, talc-amphibole, 209A10:105
- schists, talc-chlorite-amphibole, 209A10:104
- schists, talc-tremolite, alteration, 209A6:12–13
- Schizaeaceae, sporomorphs, 183B3:8
- schlieren
 - gabbros, 209A5:17
 - photograph, 209A6:55
 - photomicrograph, 209A5:90
- schlieren, pegmatoid
 - basalts, 119B16:300, 322
 - plagioclase composition, 119B16:303
- schlieren-like structures, basalt, 125A8:183–184
- Schlumberger logs
 - Dipole Shear Imager, 190/196B16:8
 - Site 504, 148A2:75–77
 - Site 857, 139A7:363–369
 - Site 858, 139A7:526–528
 - Site 896, 148A3:168–169
 - systems, 124E_A17:105–109
- Schlumberger's Quicklook
 - lithology curves, 101A12:507

- Northwest Providence Channel, 101A12:501–502
scintillation detector, natural gamma ray, 156B14:183–195
scleratoclasts, trench turbidite, 131B5:60
sclerites, lithology, 182A1:10
sclerophyll vegetation, 133B9:109, 112–113; 10:116, 118–119
sclerotia
 fungal tissues, 180B10:11
 photomicrograph, 180B10:35
sclerotinite, organic matter, 180B10:7, 10–11
scolecite
 alteration, 205A4:33
 lava flows, 152A9:134–135
 X-ray diffraction data, 176A3:145; 205A4:111
scolecodonts, Site 730, 117B36:594
Scolicia, lithology, 194A3:5
scoria
 geochronology, 157B11:131
 lithology, 129B5:147; 170A3:55–56
 volcanism, 157A2:22
 See also lapilli scoria
scoria, basalt, seismic profiling, 126A7:132
scoria, reddish oxidized, 195A4:86
scoria fall deposit, 197A3:63
scoria grains, lithology, 202A12:8
scoriaceous rocks, lithology, 134A12:401
scour-fill structures, photograph, 141A6:310, 359
scour marks, erosional, photograph, 135A(1)5:195
scoured bases
 lithology, 210A3:23
 photograph, 177A6:32; 210A3:142, 165, 172, 187–188
scoured contacts
 photograph, 159B43:589; 172A3:40; 4:84–85, 87; 6:256
 sedimentary structures, 172B7:4–12
 X-ray radiography, 172B7:29
scoured surfaces
 lithology, 194A5:3–6; 6:4
 photograph, 182A11:21; 194A5:37; 6:35–36; 198A3:66
scouring
 lithology, 180A8:6
 photograph, 146A(1)7:320; 164A7:181
 seafloors, 134A4:47
 Site 790, 126A7:154
sea gateways
 closing, 165B17:254, 271
 general circulation models, 165B17:267–269
 See also gateways; seaways
sea height, altimetry, 203A1:20
sea ice
 Antarctic Zone, 178B23:17
 Cenozoic climate, 151A1:18–19
 climate reversals, 178B34:5
 concentration, 151A11:347
 deposition, 178A4:10–11
 evolution, 177A1:8
 extent, 177B(synthesis):12–13
 Japan Sea, 127A1:20–22; 127/128B(1)10:167
 Leg 127, 127A1:20
 Neogene, 188B1:13
 Norwegian–Greenland Sea, 151A11:347; 151B1:16–17, 21, 26–36
 Oligocene, 120B(2)56:1003–1004
 organic carbon, 151B22:397–398
 paleoclimatology, 162A1:14–15
 photographs, 151A14:447–452
 physics, 151A4:49–53
 productivity, 127/128B(1)17:311; 178B25:11
 satellite images, 151A14:432–440
 ship's charts, 151A14:441–446
 statistics, 151B2:26–36
 temperature, 178B25:9
 water-mass exchange, 162A1:10
 well-logging, 151A14:424–431
sea level changes
 anoxic events, 124B26:365
 Antarctic glacial expansion, 119B47:885
 aragonite and carbonate compensation depth, 124B29:387–389
 Australian NW margin, 123A1:3
 backstripping, 174AXS_A(summary):9, 28
 Bahamas transect, 166A1:5–10; 2:13–18
 Bengal Fan, 116A4:57; 5:103–104; 6:164, 165
 biogeography, 198B7:13–15
 biohorizons, 133B1:15–16
 biostratigraphy, 177A4:12; 181A3:15–18; 182A1:11–12; 194A7:20
 Cagayan Ridge, 124A12:301, 315
 Campanian/Maastrichtian boundary, 174AXS_A(summary):11
 carbonate compensation depth, 138B42:833
 carbonate crash models, 206B4:12–13
 carbonates, 101B12:188; 16:221; 121B37:743, 753; 124B28:376–377; 133A(1)1:27–28; 134B6:94; 143B29:461–462, 464, 466; 144B16:311–335; 52:930; 150B17:321
 Celebes Sea, 124B11:167, 169
 Cenozoic, 133B27:404–405; 30:468–470; 33:497; 134B4:59–60; 161B5:75; 37:475–476
 circulation, 120B(2)46:876
 clay geochemistry, 184B12:7
 clay mineralogy, 150B9:158; 178B8:13–14
 coastal onlap shift, 121A4:81
 coastal plains, 150X_B27:361–373; 174AXS_A(summary):1–38
 continental margins, 155A1:5–8
 correlation, 101B29:468; 155B39:600, 609
 Cretaceous, 143A1:8; 143B2:24–25; 8:117; 9:125–126; 10:134, 136, 140–141; 31:520; 174AXS_A(summary):9–10
 cyclicality, 112A18:715–716; 133A(1)13:516; 143B20:322–326; 157B20:353–354; 27:460–462; 159B12:120–122; 32:429; 37:520; 43:590–591; 166A8:180; 166B15:164–165
 data, 101A7:217, 239; 8:274–275
 deposition, 116B32:402–406; 144B47:829; 161B7:96; 166A9:242–243; 178A4:12–13; 8:15; 194B2:4–5
 dessication, 161B43:547
 detrital components, 161A7:309
 diagenesis, 150X_B3:25–48; 182B1:10–12

- dinoflagellate indicators, 133B8:101
dissolution, 143B2:25
“doubthouse” sequences, 150A2:15
downlapping, 121B37:747
earliest Oligocene event, 174AXS_A(summary):14
Eocene, 105B36:718; 116B32:402–403; 150X_B17:229–242; 152B16:225–226; 188B1:6–7
Eocene–Miocene interval, 133B21:299–300
erosion surfaces, 112A13:312–313
eustatism, 116A4:45; 116B31:393–395, 406–407, 409–410; 150A1:5–9
event stratigraphy, 133B51:756–759
extent, 194A1:6–7
fans, 155B18:331–332; 41:654–662
fluid flow, 166B3:28–30
fluxes and sedimentation, 116B22:271–272; 31:393–395; 32:406–407, 409, 410
foraminiferal indicators, 133B14:185–186
forearcs, 135B53:849
gamma ray peaks, 150B23:419–421
geology, 169A1:12
glacial–interglacial cycles, 112A13:313; 167B32:354
glaciation, 120B(1)12:162, 174–175; 164A1:6
glacioeustatic role, 123B15:316; 37:671–673
global changes, 150A2:11–20; 150B8:137; 166A1:6–8
grain size, 121B44:943; 182B15:3–4
green clay, 184B15:16
heirarchy, 166A3:35–36
hemiturbidites, 116B31:393, 394
highstands, 129B12:240; 133A(1)15:626
Himalaya uplift effect, 116A4:45; 5:92; 6:157
history, 126B4:94–95; 135B6:98; 12:180–182; 53:848–849; 165B4:96, 244; 166A3:38; 178A1:1–2; 2:5
Holocene, 133B22:303–313; 23:324–325
ice rafting, 145B11:179–194
intraplate stress role, 123B67:673–676
isotopic correlation, 121B44:943
Japan Sea, 127/128B(1)11:180
lithofacies, 194B5:18–20
lithology, 160B34:438; 164A7:184; 165A7:368; 166A11:355–356; 166B5:50–53; 182A10:12; 183A7:8; 184A9:11; 194A5:8; 7:12, 15–16
local effects, 116B31:395
Lower Cretaceous, 129B30:530
lower–middle Eocene, 189B1:10
lowstands, 166A7:168
Maastrichtian, 144B45:784–787
magnitude, 166B3:30
maxima and minima, 124B30:408
Messinian, 161B43:546
middle Miocene, 194A1:77–78
Miocene, 116A4:57; 116B32:403–407; 124B4:61; 133B34:509; 138B1:13–14; 150X_B11:142–144; 14:181–183
molasse sedimentation, 116B32:404, 411
mudstone–wackestone series, 166A8:205–207
nannofossils, 183B7:8
Neogene, 130B44:715–717; 133A(1)8:261; 151B27:460–461; 32:577; 166B16:167–177
oceanic anoxic events, 159B29:364, 366–367; 198B16:12
Oligocene, 119B48:872; 121A4:90; 121B21:438; 150X_B15:203–205; 199B1:11
Oligocene–Miocene, 149B4:118; 150X_B12:147–159
Oligocene–Pleistocene interval, 174A_A1:5–16
organic matter, 124A1:5; 150B18:336–337
oscillations, 133B49:745–746
overconsolidation effects, 119B9:174–175, 181
oxygen isotopes, 166B6:65–66; 189A1:67
Paleocene, 150X_B19:272–274
Paleocene–Eocene interval, 150X_B23:312–313
paleoclimatology, 159B43:592; 169S_A2:15; 175A1:13
paleoenvironment, 189B2:10
Paleogene, 144B12:241, 243–246
pelagic processes, 116B31:393
Pleistocene, 116A4:57; 116B32:408–410; 133B12:163–173; 22:303–313; 155A1:12
Pliocene, 119B13:249; 133B17:235–254; 154B22:343–345; 160B37:478
Pliocene–Pleistocene interval, 116A5:103; 161B4:66–67; 181B1:9
Quaternary, 133B7:93–94; 15:189–233; 134B3:48–54; 146B(2)8:121; 11:158–159; 17:238–241; 21:292; 22:302–303; 167B22:260; 182A1:31
reef mounds, 182A2:4; 182B1:9–10
rise, 107A9:633
Rupelian/Chattian boundary, 115B25:478
sapropels, 161A1:12; 161B31:409–410
sediment color, 150B12:233, 235–236; 175A22:565–566
sediment transport, 146B(2)12:179–180
sedimentary interval, 121B39:823; 133B52:765–767; 166A10:304–305; 195B3:9–12
sedimentation, 112A13:313–314; 133A(1)4:116–117; 16:703, 735; 133B52:765–767; 150B11:217–220; 155B20:364–365; 41:653–675; 160B43:563–564; 174AXS_A4:31
sediments, 149B13:299
seismic stratigraphy, 133B24:334–340; 166A6:113–115; 10:329–330; 11:372; 194A1:47–49
sequence stratigraphy, 133B25:359–360; 150B12:237; 166A3:25–26; 174A_B(synthesis):2–5
shelf exposure, 124B29:379
Site 217, 116B32:402
Site 698, 114A5:100
Site 701, 114A8:412
Site 704, 114B25:470–472
Site 798, 128A4:166
slumping, 116B31:392, 393
Straits of Florida, 101B12:189, 190
stratigraphy, 121B37:753; 166A2:14–18; 174AX_A1:42; 174AXS_A(summary):8
strontium isotopes, 144B25:451–453; 150B24:425–428
subsidence, 124B30:402; 160B39:513; 135B12:185–186; 194A1:6–7
Sulu Sea, 124A2:17; 11:221
summary, 182A1:28
tectonics, 116B32:393; 123B37:693–695; 150X_B1:3–4
terrigenous influx, 112B22:374–375
Tertiary, 123A4:113; 133B20:287–288

- third-order cycles, 123B7:160; 37:671–672, 693–694
- Trujillo Basin, 112A16:539
- turbidites, 101B15:213; 123B5:129; 7:158–160;
124B32:444
- turbidity currents, 101B14:203; 116B31:392–393
- uplifts, 160A17:520
- vegetation indicators, 133B9:107–114
- vs. age, 146B(2)3:40; 155B41:657; 174AXS_A(summary):30; 195B3:26–27
- vs. depth, 177A1:53
- vs. lithology, 116B32:411
- vs. time, 174AXS_A(summary):28
- well-logging, 189A6:60
- See also* changes of level; cyclic processes; eustasy; eustatism; glacioeustasy; highstands; isostasy; lowstands; regressions; transgressions
- sea level curves, vs. age, 155B6:146
- sea state, seismic data, 200A4:60
- sea surface
 - Neogene, 162B12:179–190
 - temperature, 151B28:474–476; 178B25:9
 - variability, 151B25:437–444
- sea-surface gradients, sedimentation, 162B12:185–189
- sea-surface height, Southern Ocean, 181B1:83
- sea-surface temperature, foraminifers, 154B14:219, 223
- SeaBeam contour maps
 - Chile margin, 141A2:14
 - Site 848, 138A(2)13:682
 - Site 849, 138A(2)14:739
 - Site 850, 138A(2)15:813
 - Site 851, 138A(2)16:895
 - Site 852, 138A(2)17:971
 - Site 853, 138A(2)18:1027
 - Site 854, 138A(2)19:1067
- seabed, morphology, 163X_A8:4
- seafloor engineering, Pacific Ocean W, 132A1:5–21
- seafloor instability
 - Pliocene–Pleistocene interval, 107B38:659–660
 - tectonic effects, 107B38:660
- seafloor instruments
 - configuration, 195A4:52–58
 - gateways, 186A3:11–17
 - tools, 191A4:45–46
- seafloor observations
 - accretion, 209B1:30
 - Aptian, 103A9:279
 - Argo Abyssal Plain, 123B36:667–669
 - asymmetry, 118B21:389
 - Atlantic Ocean NE, 103A5:84
 - Australia and Greater India, 123B43:810
 - Australian NW margin, 123B37:682–683
 - backarcs, 126B7:113; 135B26:471–485
 - Bay of Biscay, 103A1:5
 - Broken Ridge, 121B44:934
 - carbonates, 204A1:4–6
 - Carnian–Norian interval, 160B54:766
 - Celebes Sea, 124B1:7; 3:39
 - Cenozoic, 104A1:17; 135B3:48; 182A1:3
 - chemical accumulation rates, 135B43:689–707
 - Chron 34, 189A1:9
 - Cocos/Pacific plate boundary, 206A1:9–10; 206B1:1–15
 - continental breakup, 119B1:22; 210B9:1–69
 - crust, 152B39:463–464; 180B(synthesis):18–19;
189A1:7; 200A1:5
 - crystalline rocks, 153A3:114–115
 - East Pacific Rise, 129B31:554
 - extension rates, 210B1:20, 53
 - Galicia margin W, 103A1:7; 5:84; 7:114; 103B4:43;
45:825–826
 - geology, 150A1:7
 - Gondwan, 120B(2)50:917
 - hotspots, 183B1:39–40
 - hydrothermal circulation, 168A1:7–21
 - hydrothermal veins, 153B9:155–178
 - igneous rocks, 135B25:439–441
 - Indian Ocean, 120B(2)50:917
 - Islas Orcadas Rise, 114B1:22
 - Japan Basin, 127/128B(2)83:1345–1346
 - Juan de Fuca Ridge, 139A2:9–41
 - Jurassic basalts, 129B22:415–427
 - Kerguelen Plateau, 120B(1)1:9; 7:95; (2)47:892;
51:933
 - Labrador Sea, 104A1:6
 - lithology, 178A9:9–10
 - Lower Cretaceous, 129B32:574
 - magmas, 123B10:210, 212; 137/140B4:49
 - magmatic–hydrothermal transition, 176B4:1–56
 - magnetic anomalies, 118B21:382, 387; 121B39:810;
149B43:670–674
 - magnetic lineations, 129B26:477
 - magnetic mineralogy, 147B21:380–381
 - magnetic polarity, 138B5:68–71
 - Marsili Basin, 107B1:26
 - Mesozoic crust, 185A1:30
 - Meteor Rise, 114B1:22; 21:367
 - Miocene–Holocene interval, 180B(synthesis):4
 - models, 124B24:340–342
 - neovolcanic zones, 158A2:18
 - Newfoundland, 103A1:7
 - Newfoundland/Flemish Basin, 103B43:779
 - Northeast Georgia Rise, 114B2:31
 - Norwegian–Greenland Sea, 151B1:7–9
 - observatories, 203A1:6–7
 - ocean–continent transition, 149B47:713–733
 - Pacific Ocean W, 124B3:47
 - Philippine Sea, 124B3:43
 - plate tectonics, 134A1:9–11; 184A1:4
 - propagation, 135B51:819–828
 - rate changes, 120B(2)51:942; 129B31:551; 135B5:84–86;
51:823–825; 139B1:22; 147B22:388;
151A1:14–16
 - regional history, 133B6:85; 135A(1)5:185
 - ridge jump, 124B1:5
 - rifting, 149B39:627, 636–645; 173A:7–19; 179A4:6–8
 - SCREECH transect 2, 210A5:6
 - sedimentation, 131B26:323–324; 162A8:266–268;
180B(synthesis):14
 - seismic structure, 139B1:8; 152A1:6–9
 - seismic velocity, 147B25:417–440
 - Shikoku Basin, 126B42:636, 638

- Site 698, 114A5:96–98
 Site 699, 114A6:202
 Site 702, 114A9:484, 509
 Site 703, 114A2:29–31; 10:550, 580; 12:801
 Site 704, 114A3:29–31; 11:622–623; 12:801
 slab rollback, 135B28:510–512
 Somali Basin, 120B(2)50:920
 South China Sea, 124B3:43
 spreading rates, 152B41:512, 521–522; 153B4:71;
 206A3:106; 206B1:13
 structure, 152B41:518–519
 subsidence, 108B14:224; 149B39:627–629
 system stratigraphy, 152B41:509
 tectonics, 135A(1)1:21–23; 6:252; 141A2:11–21;
 142A2:31, 34; 149B39:625–627; 153B1:5–21;
 4:61–62; 179B(synthesis):5–7; 180A1:1–77; 3:1–
 20; 189A1:46–49; 189B1:7
 Tertiary, 104A1:6
 timing, 149B1:17–18
 transforms, 118B21:390
 Tyrrhenian Sea, 107B1:7
 Upper Jurassic, 210B1:6–7
 Valanginian–Hauterivian interval, 123B43:806
 volcanism, 165A8:388; 193A1:3–5
 Vøring Plateau, 104A1:14
 West Philippine Basin, 125B38:628–629
See also spreading cells; spreading centers; spreading
 ridges; spreading ridges, slow; triple junctions
 seafloor spreading, backarc
 arc volcanism, 125A1:10–11; 10:198; 126B3:47, 62;
 42:647–648
 Bonin arc-trench system, 126B42:636, 638–639
 geochemical signatures, 135B24:402
 initiation, 125A1:5; 125B1:3
 Lau spreading center central, 135A(1)5:185–186
 manganese deposits, 126B7:113
 Mariana vs. Izu-Bonin systems, 126A1:5; 126B42:647
 Pacific Ocean W, 124B3:39–40
 Philippine Sea, 126B3:47
 Shikoku-Parece Vela Basin, 124B3:44–45
 Site 701, 114A8:365, 375; 114B40:733
 Sulu Sea, 124A11:197, 280; 124B1:8; 28:376
 volcanism, 126A1:8–9; 126B32:483
 seafloor spreading, transtensional, 118B21:360
 seafloor spreading, ultra-slow, 210A1:12
 seafloor structures, Shatsky Rise, 132A1:8
 seafloor water temperature. *See* temperature, seafloor
 seafloors
 depth beneath floor, 155B:1–2
 morphology and turbidite, 155B5:107
 photograph, 194B8:19
 shaded relief image, 171A_A1:10
See also ocean floors
 seagrass
 biostratigraphy, 194A7:21–22
 carbonate platform accretion, 194B2:6
 lithology, 194A7:8
 seamounts
 age, 197A1:31
 aprons as ancient oceanic crust, 129B32:574
 basalts, 121B28:525–526; 136B9:116
 bathymetry, 160A1:7–10; 7:157
 carbonate buildup, 144B16:311–335
 collisions, 135B20:325–328; 160A17:513–520;
 160B37:465–481
 Cretaceous–Holocene interval, 160B40:525
 cross-arc features, 126B38:564
 dating, 180B2:12–13
 drilling, 143A2:13–29; 157A2:11–25; 157B27:456
 Eocene–Miocene shallowing, 160B38:496, 498–499
 evolution, 145A5:179–180
 faulting and distribution, 125A4:79
 forearcs, 195B4:2–3
 formation, 144A1:3; 144B53:936–937
 gas hydrate stability zone, 204B2:12–13
 geology, 129B6:153; 143B31:497–535; 145A6:272–
 276; 160A8:217–218
 guyots, 144B31:536
 Holocene tectonic framework, 160B53:716–718
 Izu-Bonin forearc, 125A5:82–83
 Izu-Bonin-Mariana arc, 126B42:639
 magnetic anomalies, 144B33:579
 magnetic properties, 129B26:471; 143B23:383–387;
 144B36:615–630; 37:631–638
 Mesozoic origin, 160B53:710–713
 Messinian island, 160B53:716
 Miocene, 160B33:434
 mud flows, 195A1:4
 off-axis structures, 129B19:383
 Pacific Ocean W, 129B32:574
 paleoenvironment, 160B38:483–508
 paleolatitude, 197A1:5–7
 Pliocene–Quaternary, 160A6:127
 pole data, 129B33:629–630
 ridge-transform intersection, 118B21:365
 seismic stratigraphy, 125A5:87–88; 145B29:437–453
 structural history, 160B51:688–689; 53:711
 subduction, 134B3:48–51
 submarine sills, 129B18:349–351
 submarine slope stability, 145B36:547–556
 summit geochemical cycles, 144B22:423
 talus, 180A7:17
 tectonics, 190A2:2
 Tertiary evolution, 160B53:713–716
 types, 125A5:79
 Upper Cretaceous–Eocene interval, 129B32:576–578
 vertical trajectories, 143A2:26, 28
 volcanic oceanic plateaus, 192A1:4–6
 volcanoclastics, 135B4:72–73
 volcanism, 129B20:394–395; 135B3:40–41;
 145B22:340–343
 volume vs. age, 198A1:99
See also atolls; carbonate platforms; guyots; reefs; vol-
 canic islands
 seamounts, serpentine
 distribution, 125B36:612
 emplacement, 125B1:8–10; 20:370; 36:611–612
 end-member types, 125A1:11
 forearcs, 125A4:77–78; 125B27:457–458
 formation, 125A2:11; 125B24:402; 26:431; 36:595
 horst block type, 125B36:612
 Izu-Bonin forearc, 126A1:6

- Mariana forearc, 125A2:6; 125B1:3; 126A1:6
mud volcano type, 125B36:611–612
physical properties, 125B1:8
structure, 125A2:11
synthesis, 195B1:1–30
- seams
anastomosing, 192A3:56, 62, 76
discontinuous, 192A3:76
lithology, 210A3:35
- seasonal variations, sedimentation, 146B(2)21:283
- seawater
age determination, 120B(1)5:75
backflushing, 174A_A3:74
carbon isotopes, 133B16:220
carbonate content, 133B16:204
concentration, 201A11:99
contamination, 201A11:100; 205A4:181–182
Cretaceous, 129B15:292
geochemistry, 129B16:295; 139A5:117–118
influx, 166B10:116–117
osmium isotopes, 158B7:97–98; 159B18:181–186
oxygen isotopes, 138B13:306–307
provenance of trace elements, 160B16:203–204
reactions with basement, 165B19:293–294
samples, 129B2:65
sodium bromide, 148A2:56–57
strontium geochemistry, 133B31:476–477
strontium isotopes, 138B41:813–819
sulfide alteration, 139A6:228–229
surface properties, 102A1:5; 3:142–143; 102B5:64; 9:130
See also methane-seawater-hydrate stability zone; paleoseawater; peridotites-seawater interaction
- seawater, air-saturated, noble gases, 141B26:322, 325
- seawater, artificial
electron donors and acceptors, 209B5:33
sterile water, 209B5:32
- seawater alteration
basaltic glass, 148B14:211–212
rates, 148B13:199–200
- seawater-basalt interaction
composition, 129B4:131
geochemistry, 137/140B13:146–147
- seawater circulation
fluid inclusions, 137/140B16:197
pore water, 135B42:685–688
strontium isotopes, 144B25:455
See also ocean circulation
- seawater mixing, black smokers, 158B11:135–136
- seawater-peridotite interaction, geochemistry, 195B4:5–7
- seawater-rock interaction
basaltic mousse, 126B29:451
chloride uptake, 125B21:377–378
deformation, 118B8:153, 174–175; 27:544
geochemical effects, 125B36:602–603, 605–606
isotopic effects, 118B6:137; 8:170, 174; 9:206
Izu-Bonin forearc, 126B27:417, 419, 426, 442–443
magnesian-hornblende formation, 118B27:543–544
mineralogic effects, 125B19:359
oxide elevation, 118B27:546
sulfur depletion, 118B5:123–124
water/rock ratios, 123B9:191
- seawater signal, Holocene, 152B25:304
- seawater tracers
contamination, 201A2:17
vs. microspheres, 201A2:7–9
- seaways
closure and ocean circulation, 198A1:107; 4:37
Oligocene opening, 189B1:4
- seaways, interior, Antarctica, 120B(2)56:1018–1019
- secondary minerals
alteration, 102B10:143; 136B11:139–144; 137/140B6:72; 147A3:68–71; 148B8:98, 173; 10:123–124; 11:168; 35:441; 163A4:41–42; 168A4:70–77; 5:125–133; 6:173–175; 168B10:121–126, 132; 176A3:34–38; 180B3:7–8; 183A6:50–52, 190; 7:44–47, 139, 201; 8:111; 9:31–35; 183B15:6–9, 24–27; 185A3:29–31; 192A3:30; 5:16–17; 206A3:66–73
analcime-smectite-phillipsite suite, 129B4:126
basalts, 131A6:195; 142B9:71–74; 148B11:152–155; 168A4:72; 5:128; 192A4:14–15
basement, 131A6:155; 183A6:190; 183B15:32–34, 36; 200A1:51–52; 4:114–115; 200B1:8
chemical composition, 129B19:367–369
clinoptilolite-smectite suite, 129B4:126
dikelets, 153B11:247
distribution, 152B34:417–424; 163A4:42; 5:63
geochemistry, 129B15:291; 148B6:71–86; 206B7:1–16; 8:1–16
hydrothermal deposits, 129B22:415–427; 137/140B14:158–160
identification, 148A3:141
igneous rocks, 183A4:20–21, 89; 5:187; 183B15:21–23
igneous units, 200A4:29
infilling crust, 102B11:167
Jurassic basement, 185A1:18
lithology, 163X_A4:13
metamorphism, 161B18:252, 254–255
mineralogy and style vs. depth, 148A3:144
modal proportions, 148B5:66; 168A4:72; 5:129; 6:172
paragenesis, 193A3:199
peridotites, 149A4:80
petrography, 129B18:346–348; 144B28:477–479
petrology, 191A1:15
phillipsite-smectite-calcite-clinoptilolite suite, 129B4:126
photograph, 141B7:100; 153A4:154–160; 5:196–199; 6:243–245, 249; 153B3:45; 191A4:69
photomicrograph, 129B22:421; 168A4:74; 185A1:47; 187A12:40; 13:20; 191A4:68, 102, 107–108; 192A5:86; 200A3:102
potassium, 102B10:136–137
sediments, 129B14:274; 141B11:157; 168B1:4
sheeted dike complexes, 137/140B15:167–189
Site 800, 129A2:68
Site 801, 129A3:135, 141
Site 802, 129A4:218; 129B4:120
smectite-clinoptilolite-phillipsite suite, 129B4:126
textures, 141B8:106–108
thin sections, 140A2:164–166
total volume in veins and breccia, 206A1:92

- tuffs, 129B4:129–130
- veins, 206A1:93
- volcanic basement, 163X_A8:7–8
- volcanic rocks, 141B28:352–358
- vs. depth, 135A(1)11:598; 137/140B14:157; 15:168; 18:212; 29:330; 140A2:65; 148A3:144; 148B5:59; 6:72; 11:155; 34:419; 35:441; 38:470; 152A9:134; 153A3:80; 4:153; 5:195–196; 6:242, 256; 7:267; 176A1:57; 183A4:62; 6:140; 9:98–99; 193A1:49–50, 66–67; 3:35, 137–138; 4:114–116; 193B11:7–9; 206A1:91; 3:217, 248–249, 255; 209A3:90
- vs. distance from ridge axis, 168B10:122
- X-ray diffraction data, 168A4:72; 5:128; 183A9:131; 200A4:37–39
- zeolite facies, 131B16:199
- See also* authigenic minerals; celadonite; chabazite; chlorites; clay minerals; clinoptilolite; coalingite; epidote; goethite; heulandite; iddingsite; magnesium-saponite; mesolite; mordenite; natrolite; saponite; smectite; stilbite; thomsonite
- sector zoning. *See* zoning, sector
- secular variations
 - block rotations, 129B25:459
 - Brunhes Chron, 172B10:2–3
 - carbon isotopes, 154B35:501–505
 - geomagnetism, 165B9:151, 158
 - magnetic anomalies, 149B42:659–663
 - magnetic properties, 137/140B23:268; 155A24:702; 202B1:8; 14:9–10
 - See also* paleomagnetic secular variations
- sediment/basalt contact
 - fluid flow, 139B42:667–675
 - physical properties, 121A10:287–288
 - seismic reflection profiling, 121A12:414
 - Site 765, 123A1:93, 102; 123B8:173, 184; 10:201
 - Site 766, 123A5:284
 - sulfate, 202A11:15
 - Tithonian, 123B1:5
- sediment/basement contact
 - alteration, 185A1:25–26; 4:22–23, 30–34
 - compressional wave velocity, 192B7:4
 - Formation MicroScanner imagery, 180B24:7; 192A6:28, 92
 - paleoclimatology, 192B2:3
 - properties, 192A5:24–25
 - seismic lines, 139A2:16–17
 - strontium isotopes, 192B3:6
 - well-logging, 183A8:30; 203A1:11–12
- sediment/breccia ratio, vs. depth, 183A6:140
- sediment budget
 - Cenozoic, 151A1:20, 22
 - seismic reflectors, 157B38:628–629
- sediment bulge, position and thickness, 199A1:54
- sediment contacts
 - lithology, 207A5:7–8
 - photograph, 207A4:40, 44
- sediment cores
 - hydrologic properties, 204B1:13–14
 - mechanical properties, 204B1:13–14
- sedimentary cover, age and subsidence, 161B44:561–562
- sediment cycles, lithology, 210A3:38
- sediment disruption, photograph, 204A3:57; 8:41, 51
- sediment drifts
 - bottom water currents, 162A1:13–14
 - Neogene–Quaternary interval, 198A1:55
 - paleoceanography, 172A1:7–8
 - structure, 164A4:47–48
- sediment-fluid interaction, mineralogy, 139B9:133–154
- sediment flux
 - carbonates, 154B3:69–82; 23:354–356
 - mass accumulation rates, 183B7:7–8
 - Paleogene, 199A1:14–17
 - tectonics, 186A1:15–16
 - turbidites, 157B38:626
 - vs. age, 184A1:48
- sediment folding, intraformational, 197A4:9
- sediment/igneous rock contacts
 - photograph, 185A3:119
 - physical properties, 126A7:200
 - well-logging, 135A(1)4:163–164
- sediment influx, foraminifers, 188A5:14–15
- sediment injection
 - breccia, 161B25:335–336
 - photograph, 180A9:87
- sediment instability, continental margin, 164A1:6
- sediment loading
 - carbonate compensation depth, 192A3:14–16
 - channels, 155A3:44
 - stress, 159B21:220
 - subsidence, 149B39:627–629
- sediment lumps, photograph, 199A13:40
- sediment penetration rate, vs. depth, 164A7:254
- sediment properties, pressure core sampler, 164A9:296
- sediment rebound
 - contribution to depth offset, 167B31:338
 - vs. depth, 167B31:337
- sediment recovery, gas release, 164B11:125–126
- sediment recycling, geochemistry, 185B1:15–17, 29
- sediment resonance, seismic data, 200A4:60–61
- sediment sources
 - carbon-nitrogen evidence, 205B7:8–11
 - pore water, 169A5:219
 - Quaternary, 159B43:585–603
 - total organic carbon/total nitrogen ratio, 205B7:8–11
 - upper Neogene, 181B1:51–54
 - See also* provenance
- sediment starvation
 - paleoenvironment, 159A6:175–176
 - seafloor spreading, 181B1:4–5
- sediment supply
 - coastal plains, 150X_B27:361–373
 - glacial–interglacial cycles, 181B1:54–55
 - lithology, 181A3:9–11
 - sedimentation, 150B6:110–111
 - submarine channels, 181B1:58–59
- sediment thickness
 - light–dark cycles, 178B3:17
 - mass accumulation rates, 190A1:34, 84
 - vs. biostratigraphic and paleomagnetic ages, 190A1:34, 84
 - vs. depth, 202A1:118

- sediment transport
 - Cenozoic, 150A1:8
 - clay mineralogy, 189A3:17
 - ice, 178A1:2–3
 - magnetic inclination, 192A4:23–24
 - Neogene, 150B14:280
 - paleoenvironment, 178A8:8
 - sequence stratigraphic framework, 150B5:83–87
 - tectonics, 180B7:45
- sediment traps
 - deposition, 178A7:8–10
 - organic carbon, 167B11:180
- sediment/water interface
 - biogenic opal, 178B23:8–9
 - black shale, 207A4:26
 - compaction, 204B15:10–11
 - pore water, 150X_B25:344–345; 202A3:12–13; 5:4; 9:5; 10:5
- sediment waves, lithology, 155A6:95
- sedimentary aprons
 - Cretaceous–Paleogene interval, 181B1:55
 - Eocene–Miocene interval, 182A1:4
 - sedimentation, 143B2:20–21
 - stratigraphy, 144B49:879–881
- sedimentary basins
 - island arcs, 134A1:13; 12:390
 - islands, 157A2:13; 157B27:463–465
 - Lau Basin, 135A(1)4:91–92
 - maps, 189B1:28
 - paleoenvironment, 189A3:18–21; 5:15–16
 - paleogeography, 189A6:20
 - regional setting, 133A(1)1:7
 - rifting, 173A1:7
 - sedimentation, 159B10:94–95
 - See also* basins
- sedimentary beds, apparent dip, 210A3:256
- sedimentary bodies, geometry, 194B5:14–15
- sedimentary clasts. *See* clasts, sedimentary
- sedimentary controls, velocity, 154B7:139
- sedimentary cover, glaciomarine sediments, 163X_A8:3
- sedimentary crust, ferromanganese-cemented, 210B9:13–14
- sedimentary cycles
 - clay mineralogy, 119B12:228–229
 - couplets, 133B15:194–196
 - eustatism, 133B52:765–767
 - lithology, 133A(1)15:625
 - Lower Cretaceous, 129B32:606
 - Pleistocene, 133A(1)12:462
 - Pliocene–Holocene interval, 119B13:249
 - postorogenic basins, 107B38:728
 - prograding geometry, 133A(1)14:578
 - Quaternary, 133B15:189–202
 - Upper Jurassic, 129B32:606
 - variations, 133A(1)13:516; 144B43:740–742
 - vs. depth, 143B20:325
 - See also* parasequences
- sedimentary environment
 - mega-Pacific beginning, 129B32:573
 - See also* environment; paleoenvironment
- sedimentary facies
 - mud domes, 160A18:522–524
 - Pliocene, 160A17:516
 - See also* lithofacies
- sedimentary faults. *See* faults, sedimentary
- sedimentary features
 - gravity flows, 157B13:187
 - sediments, 198A4:79
- sedimentary interbeds
 - Formation MicroScanner imagery, 192A6:93–96
 - lithology, 192A3:11–12; 5:6
 - lower Aptian, 192A6:9
- sedimentary intercalations, basalt, 197A6:97–98
- sedimentary intervals, compaction, 166A10:304–305
- sedimentary lithic fragments
 - photomicrograph, 190/196B3:25
 - quartzose sand, 190/196B3:7
 - sand, 190/196B3:6
 - sedimenticlastic sandstone, 190/196B3:8–9
 - See also* lithic fragments
- sedimentary O sequences
 - grain size and gas hydrates, 204B10:4
 - lithology, 174AXS_A2:3, 25–29
 - stratigraphy, 174AXS_A2:3
- sedimentary overburden
 - biostratigraphy, 206A3:26–29
 - downhole measurements, 206A3:49–52
 - inorganic geochemistry, 206A3:36–41
 - lithology, 206A3:22–26; 206B1:4–5
 - paleomagnetism, 206A3:29–35
 - physical properties, 206A3:46–49
 - preliminary results, 206A3:1–3
 - sediment geochemistry, 206A3:41–46
 - sedimentation rates, 206A3:35–36
 - Site 1256, 206A3:22–52
- sedimentary petrology
 - lithology, 131A6:93–99; 168A4:57–59
 - Transect EG64, 163X_A7:4
 - Transect EG65, 163X_A6:19–21
 - Transect EG66, 163X_A5:4
 - Transect EG68, 163X_A4:11–12
- sedimentary record
 - core-log integration, 186B15:1–42
 - middle Miocene–Holocene interval, 167B32:341–376
- sedimentary regimes, Neogene, 195B3:8–10
- sedimentary rocks
 - breccia, 149A6:172–175
 - deformation, 173A6:136–138
 - geochemistry, 169A3:101
 - ice-rafted debris, 163B14:160, 165
 - in situ velocities, 149B18:343–350
 - Jurassic–Cretaceous interval, 170A1:7
 - paleomagnetism, 198B21:1–14
 - structural domains, 180A8:20–24
 - triaxial shear strength, 186B17:1–19
 - vs. depth, 169A3:91
 - X-ray computed tomography, 185B12:1–18
 - X-ray diffraction data, 129A2:44–45
 - See also* clastics; limestone; porcellanite; sandstone
- sedimentary rocks, mixed, 165A6:300–302
- sedimentary rocks, siliceous, 129B3:82–85

- sedimentary rocks, siliceous/calcareous pelagic, 185B10:1–11
- sedimentary sequences
 correlation, 161B4:69–76
 Cretaceous, 143B9:120–124; 10:133–159; 31:520–522; 144B18:371–374
 guyots, 144B47:819–834
 Paleogene, 144B12:241, 243–244
 Pleistocene high-resolution stratigraphy, 133B25:353–364
 sediments, 135B8:131–146
- sedimentary structures
 Apennines, 107A3:44, 48
 backarc basins, 135B4:53
 blue tuff, 127/128B(1)8:117
 brittle structures, 127/128B(2)75:1181–1183; 128A5:269–272
 carbonates, 144B13:258–261
 Cenozoic, 151A13:411
 color-banded bedding, 127A5:186
 columns, 155A6:94–95; 7:129–131; 8:180; 9:206–207; 10:245; 11:282–283; 12:326–327; 13:389; 14:414–415; 16:468; 18:543; 19:572, 596–597; 21:639; 22:660; 155B4:55; 159A9:302
 compaction, 127/128B(1)2:38; (2)75:1175–1176; 128A4:146; 5:272
 Conical Seamount, 125B19:348–349
 contourites and turbidites, 172B7:1–37
 core scanning, 133B59:853–854
 deformation, 127A6:261–264; 128A4:141; 5:241, 266–269
 dewatering structures, 127/128B(2)75:1176–1178
 diagenetic origin, 119A14:513
 distribution, 112B41:626
 downslope redepositional materials, 145B38:585
 faults, 128A4:143
 gravity flow deposits, 127A6:268
 Islas Orcadas Rise, 114B1:18
 Japan Sea, 127/128B(2)75:1183–1187; 128A1:13–15
 laminations, 127A4:95–96; 7:347–349
 Lima Basin C, 112A11:169–170
 lithofacies, 112B41:625–628; 160B32:408
 lithology, 105B2:15, 20; 126A2:19; 127/128B(2)75:1177; 133B27:389; 135A(1)10:509–512; 139A5:110; 152A9:116; 170A3:55–56; 171B_A5:181–183; 177A6:5; 180A5:11; 8:13–14; 194A8:8; 204A4:5–10; 208A7:5–9
 mass flow units, 160B37:471
 Mediterranean Sea Central, 107A3:38
 Meteor Rise, 114B1:17; 25:463
 mud breccia, 160B46:600
 Northeast Georgia Rise, 114B2:23, 25, 27–29
 orientation measurement methods, 135B19:303–305
 outer perimeter ridges, 144B15:297
 paleoenvironment, 146A(1)7:317–318
 Peru margin, 112A2:29
 photograph, 159A9:304; 172B7:14, 18, 24, 26; 195A4:81; 210A3:197
 planar sets, 119A9:352–353, 355
 sandstone, 127/128B(1)7:100, 104; 78:1233; 180B7:9
 sandstone and siltstone, 127A7:324, 345–346
- Sardinian margin, 107A8:416; 9:651
 sediment transition to basalt, 169A5:210–211
 sedimentation, 145A5:177–178
 sediments, 183A5:46–47
 Sicily, 107A1:5; 3:53
 sills, 169A3:90–93
 siltstone, 127/128B(2)78:1233
 Site 681, 112B23:392–395
 Site 701, 114A8:373–374
 Site 741, 119A10:382
 Site 778, 125A6:110–111
 Site 781, 125A9:180–181
 Site 784, 125A12:276
 Site 786, 125A14:316; 125B14:267, 270–271
 Site 788, 126A6:105
 Site 791, 126A7:157
 Site 793, 126A9:342
 Site 798, 128A4:141
 Site 799, 127/128B(1)2:48; 128A5:265–272
 slumping, 133A(1)16:702–703
 subsidence, 159B9:89
 tectonically related structures, 125B19:349
 thin bedding, 127A(1)6:96
 transform faults, 159A9:302–303
 trough sets, 119A9:352–353
 tuffs, 128A3:81; 183A5:44
 turbidites, 133B27:408–445; 139B7:105–111
 turbidity currents, 155B4:57, 59–61
 Tyrrhenian Sea, 107A2:35; 3:61
 upward-fining sequences, 112A11:169
 veins, 127/128B(2)75:1176–1181; 128A(1)9:143
 volcanoclastics, 135B52:835–837
 vs. depth, 166A10:296–297, 351, 353
 within clasts, 160B45:583
 X-ray radiography, 172B(overview):3
 See also ball-and-pillow structures; bedding; bioturbation; blebs; burrow fills; burrows; *Chondrites*; color banding; concretions; cross bedding; cross laminations; cross stratification; debris flows; deformation; flame structures; geopetal structures; graded bedding; grading; gravity flow deposits; laminations; lineation; load casts; load structures; microfaults; microstructures; nodules; oncolites; preferred orientation; slumping; soft-sediment deformation; stratification; syn-lithification; synsedimentary structures; trace fossils; *Zoophycos*
- sedimentary structures, mesoscopic, 180B8:4
 sedimentary structures, postdepositional, 125A14:330
 sedimentary structures, water-escape
 Callovian, 129B32:585
 core photograph, 129B6:163, 157
 description, 129A1:8–11
 lower Callovian, 129B32:584
 sedimentary units, 187A4:5; 197A3:42
 sedimentary wedges
 Cenozoic, 174A_A1:9
 grain size, 182B15:3–4
 kinematic evolution, 170B3:10
 lithology, 182A1:9–10
 middle Miocene, 182A1:4

- sedimentation rates, 182B1:7–9
- structures, 170A7:225–226; 170B3:4–6, 12; 4:3
- sedimentation
 - arc rifting, 135B53:843–855
 - backarc basin, 134B7:97–107; 135B55:896
 - background, 123A4:111; 129B2:39
 - basal, 129B1:6
 - basement, 152A13:281–282
 - basinwide trends, 129B31:567
 - bedding, 135A(1)8:356–357
 - biogenic silica, 177B(synthesis):6
 - biostratigraphy, 138B20:461–478; 149B9:219; 189A6:26–27
 - Cagayan Ridge, 124A12:311–313; 14:403–405
 - carbonate compensation depth, 191A1:5–6
 - carbonates, 138B14:333–335; 143B9:119–131; 154B12:189–199; 18:272; 23:349–365; 166B6:69–75; 194A1:50–54
 - Celebes Sea, 124A10:181–183; 13:347–349
 - Cenozoic, 149A6:205; 151A13:397–420; 173A4:100–102; 189A1:1–4
 - channel-levee systems, 155A16:471–472; 155B2:13, 16–17, 24, 27
 - clastic environment, 159B2:19; 160B43:563–564
 - clay minerals, 150B9:147–170
 - climate, 178B(synthesis):3–5
 - coastal plains, 150X_B12:147–159; 27:361–373
 - concentric vs. channelized sediments, 157B16:279
 - continental margins, 149A7:258
 - continental rise, 150A1:7–8; 152B1:3–18; 178B(synthesis):16–17
 - contour currents, 178A1:6
 - controls, 133A(1)12:483, 485; 135B12:173–188; 141B10:138–141; 146B(2)5:69–70
 - core-log integration, 186B15:9–10
 - correlation, 150X_B12:155–158; 14:181–183; 15:204–205
 - Cretaceous, 159B10:93–99
 - Cretaceous–Cenozoic interval, 132B1:3–13
 - Cretaceous/Paleogene interval, 192A3:16–17
 - Cretaceous–Pleistocene interval, 149B45:704
 - currents, 181A1:6–7
 - cyclic processes, 154B7:138–140; 22:331–345; 29:448; 159A5:86; 159B12:120–121; 172A4:118–125; 181A9:18–19; 188B1:14–17
 - debris flows, 183A5:7–8
 - deposition, 141B23:302, 305; 156A6:100–101; 7:203; 157A7:339–341
 - detrital sources, 133B30:466–467
 - diagenesis, 164A7:220–221
 - drilling objectives, 149A1:9
 - environment, 133B21:297–300; 143A6:124–125; 7:203–207; 8:278–280; 9:310–313, 315–316; 150X_A1:27; 150X_B4:54–55; 15:198–202; 162B17:233–246; 166A9:266–267; 180A6:31–35; 195A4:95; 195B2:27
 - equatorial position, 199A1:13–14
 - events and age, 152A13:286
 - evolution, 135B2:9–21
 - fans, 155A2:18, 20; 155B18:331–332
 - features, 129B6:155; 130B8:105
 - flocculation, 131B4:52
 - flow diagrams, 146A(1)5:155–156
 - Galicia margin W, 103A1:3
 - geochemistry, 185B1:8–13; 210B8:1–63
 - geology, 195A1:60
 - glaciation, 151A5:67–69; 178A2:4–5
 - glauconite, 151B31:518
 - history, 133A(1)5:168–172; 8:292–293; 144A3:53–54; 181B1:32–38; 184A1:32–37; 188A1:9–11; 192A5:6–7; 6:9–11; 7:4–5
 - ice-rafted debris, 178B10:6–8
 - instability, 107A6:144–145, 147; 7:303–304; 8:442; 10:766; 11:887; 107B9:137, 38:643, 650–651
 - interpretation, 129B21:566
 - Jurassic, 129B32:578
 - Lau Basin, 135B3:23–49
 - levels, 138A(2)13:728; 14:782; 15:850; 16:933; 17:1003; 18:1052; 19:1088
 - lipids, 155B34:539–553
 - lithofacies, 155B40:611–651
 - lithology, 151A7:171; 8:227–230; 9:275–277; 11:360; 152A11:208; 164A5:79–81; 6:146–147; 9:313; 165A3:62; 166A11:355–356; 172A5:174, 176–178; 180A8:15–16; 181A3:9–11; 5:6–8; 198A3:15–17; 4:13–14; 5:13–15; 6:10–12; 7:11–13; 200A1:23–30
 - Lower Cretaceous, 129A2:46–47; 129B32:578
 - Maastrichtian, 173A7:216–217
 - Maastrichtian–Pleistocene history, 192A3:12–18
 - marine-glacial environment, 178A2:9–15
 - mass transport deposits, 155B20:362–365
 - Mesozoic, 129A3:113
 - mid-Cretaceous, 129B1:6
 - Miocene–Pleistocene interval, 133A(1)16:734–735; 191A1:5–6
 - models, 134B3:48–50; 166B10:116; 188A1:46, 63–64
 - Nankai Trough, 131B3:35–43
 - Neogene, 133A(1)10:383, 385–386; 15:651, 653; 138A(1)10:207–208; 145B16:247–251; 150B14:269–281; 178B34:1–14; 181B3:1–21
 - Norwegian–Greenland Sea, 151B1:21
 - Oligocene–Holocene interval, 181A1:7–9; 181B1:7–9
 - Oligocene/Miocene boundary, 183B7:10
 - oolites, 143B8:111–118
 - organic matter, 155B32:526–527
 - paleoceanography, 151B36:652, 654; 167B11:163–182
 - Paleocene, 150X_B23:305–315
 - paleoclimatology, 151A13:409–411; 162A1:15; 162B12:185–189; 175A1:13; 189A1:34–35; 202A1:32–33
 - paleoenvironment, 184A1:29–37; 188A1:24; 188B1:20–22; 195A4:17–19
 - Paleogene, 199A1:2
 - patterns, 144B41:675–689
 - periodicity, 133B15:190–194
 - preplatform deposits, 159B11:103–104
 - physical properties, 178B30:5–7; 180B23:7–8
 - Pigafetta Basin, 129B1:20
 - Pliocene, 180B(synthesis):10–12
 - Pliocene–Quaternary interval, 160B51:687–688; 164B38:402–404

- postevaporites, 161B43:548–549
 processes, 135B52:829–842
 provenance, 157B20:343–360; 160B18:225;
 161B2:28–32; 191B4:7, 22
 Quaternary, 146B(2)22:302–304; 155B18:331–332;
 159B43:588, 590–599; 180B(synthesis):13–14;
 182B8:1–24; 194B4:1–13; 195B3:1–31
 regional scale, 189A1:43–44
 relation to magmatism and tectonics, 149B41:649–
 657; 159B15:137–138
 rift-to-drift models, 210B2:10–11
 rifts, 210B1:1–55
 sand, 149B11:276
 sapropels, 160A5:118, 120
 seafloor spreading, 135B22:369–370
 sea level changes, 155B41:653–675
 sea-surface gradients, 162B12:185–189
 sedimentary parameters, 129B1:4, 6, 14, 15; 32:572
 sequence stratigraphic framework, 150B5:83–87
 shallow hydrates, 164B23:233–234
 siliciclastics, 150B6:110–111; 159B11:108
 Site 800, 129B32:571
 Site 801, 129A3:106–113; 129B32:571
 Site 802, 129A4:188–195
 Site 820, 133B23:315–325
 Site 823, 133A(1)16:702–703
 Site 837, 135A(1)7:305
 Site 839, 135A(1)9:417–418
 Site 841, 135A(1)11:597–598
 sorting, 178A9:9
 sources, 135A(1)5:200–201; 155B8:170; 160B16:200–
 204
 sparry calcite, 133B36:531–533
 stratigraphy, 210A1:12–13
 subsidence, 159B9:82–83
 summary, 184A1:25–29; 189A1:33; 198A1:63–64;
 198B1:38
 tectonics, 135B52:833–835; 162A8:266–268;
 167A(1)1:10–11; 178A2:8–9; 190/196B1:8–9;
 3:20
 tektites, 150B13:255–259
 temperature, 154B14:227
 terrigenous sediments, 154B20:299–318; 22:343–345;
 177B(synthesis):6
 thermal history, 139B35:566–567; 166B10:114, 116
 transform faults, 159A1:13; 9:298–309
 transport, 152B5:51–52; 155B23:383–384; 175A9:235,
 237
 turbidite infill, 157B30:523–531
 turbidity currents, 195A5:8
 unconformities, 181B1:14
 uniformity, 172A7:311
 upper Aptian, 173A9:293
 upper Bathonian–Aptian interval, 129B32:601–604
 upper Cenozoic, 206B2:1–25
 upper Miocene, 135B11:163–172
 upper Neogene, 138B35:717–756
 upper Quaternary, 165B4:85–99; 183A3:6–7
 Valanginian–Campanian interval, 173A8:258
 variability, 138B3:31–46
 volcanic ash, 165A4:202
 volcanoclastics, 135A(1)1:14, 16, 20; 10:518–520;
 135B6:94–98; 136B7:85–95; 152B9:123–125;
 157A8:407; 157B13:183–200
 volcanism, 141B12:175–176
 vs. depth, 195A4:70–72
See also biosedimentation; cyclic sedimentation; de-
 position; marine environment; mass accumula-
 tion rates; neritic environment;
 paleoenvironment; precipitation; provenance;
 reprecipitation; sediment flux; sedimentary cy-
 cles; shelf environment; transport
 sedimentation, biogenic
 Albian–Cenomanian interval, 129A2:47
 cessation, 199A1:2–3
 Cretaceous, 129B1:4
 Eocene, 199B21:1–35
 late Neogene, 175A17:519
 Lower Cretaceous, 129B32:606
 Miocene, 154B25:375–388
 Neogene, 138B19:429–459; 145B16:254–255
 paleoproductivity, 199B1:9–10
 sediment alteration, 185A4:31–32
 Upper Jurassic, 129B32:606
 sedimentation, biopelagic, drift deposits, 181B1:45
 sedimentation, biosiliceous
 Berriasian–Barremian interval, 129B1:6
 Eocene–Miocene interval, 159A9:307–308
 Neogene–Quaternary interval, 198A1:55
 Oxfordian–Tithonian interval, 129B1:6
 stratigraphy, 154A9:424–426, 430, 436; 154B33:483–
 490
 sedimentation, cyclic
 anoxic deposits, 165B7:125–140
 astrochronology, 198B22:5
 carbonate content, 194B3:3
 clay composition, 184B12:10–11; 188B13:12
 composite section, 188B1:37; 12:14–15
 core-log integration, 186B15:9–10
 Cretaceous/Tertiary boundary, 165A1:9
 deep-sea sediments, 185B7:8
 deposition, 161B1:14–16; 7:95–96; 202A10:8–10
 duration, 165B7:131, 133
 glauconite, 189A6:21–22
 lithology, 161A6:196; 8:361–362; 180A6:13;
 186A4:20; 198A3:15–17; 7:9–13; 8:8–12
 Neogene, 198B1:15–16
 Oligocene–Miocene interval, 192A3:18
 photograph, 165B7:137; 207A5:51
 preevaporites, 161B43:546–547
 principal results, 188A1:22–23
 processes, 188B1:13–18; 208A1:5
 Quaternary, 161B40:515–517
 summary, 189A1:38–40
 temperature, 202B13:7
 trough-mouth fans, 188B1:12
 vs. depth, 188A1:61–62
See also color bands; glacial–interglacial cycles;
 Milankovitch cycles; rhythmic bedding; sedi-
 mentary cycles
 sedimentation, deepwater, 134A1:9, 16; 136B2:301;
 143B37:59; 145B18:265–281

- sedimentation, detrital
 - palygorskite, 159B15:148–149
 - phosphorus, 154B32:479–481
- sedimentation, eolian, indicators, 144B42:702–703
- sedimentation, epiclastic, 157B17:293–313
- sedimentation, fans, lithology, 146A(1)4:109
- sedimentation, fluvial
 - deposition, 180A9:27
 - lithology, 180A6:31
 - Pliocene, 180B(synthesis):10
 - sandstone, 180B7:9, 18
 - vs. age, 175B23:29–30
- sedimentation, glaciomarine
 - lithology, 141A8:251–253
 - Southern Ocean, 114B31:590
- sedimentation, guyots, lithology, 144B47:819–840
- sedimentation, hemipelagic
 - Cenozoic, 145A8:344
 - deposition, 135A(1)6:259–260; 162B17:245; 167A(1)8:181, 183
 - initiation timing, 133B3:44
 - lithology, 141A7:170, 172, 224–225; 150A10:312–316; 161A4:62; 164A5:80; 166A6:83–84
 - Neogene, 133A(1)8:292
- sedimentation, hemipelagic and pelagic, 135A(1)4:109
- sedimentation, intracontinental, 159B12:120–122
- sedimentation, neritic
 - lithology, 133A(1)7:208–210
 - Neogene, 133A(1)8:292
- sedimentation, open-ocean, 120B(2)53:953
- sedimentation, outer margin deposition, 141B31:379–397
- sedimentation, outer shelf-upper slope sequence, 133B22:303–313
- sedimentation, pelagic
 - Albian–Cenomanian interval, 129B1:6
 - Cenozoic, 134B1:7–8; 145A8:342
 - Cretaceous, 143B2:15–30
 - Eocene, 149B45:695
 - lithology, 134A7:107–108; 138A(2)16:932–933; 166A6:83–84; 9:242–243; 172A3:39–40
 - mass accumulation rates, 165A8:377–380
 - Miocene–Pliocene interval, 133A(1)4:116
 - nannofossils, 164A6:117
 - ooze, 198A3:16
 - Paleocene, 159A9:307
 - paleoenvironment, 195A4:17–19
 - Pleistocene, 160A12:431
 - post-Albian interval, 143B31:526
 - sedimentary interval, 166A10:304–305
 - sediments, 151B36:655–656
 - Site 872, 144A4:138
 - synthetic seismograms, 130B3:40–41
 - turbidite infill, 157B30:525–529
 - Upper Cretaceous, 185A4:17–19
- sedimentation, pelagic-hemipelagic, 159A9:308–309
- sedimentation, periplatform
 - Miocene, 133A(1)4:116
 - Neogene, 133A(1)5:168–171
 - Pliocene–Pleistocene interval, 133A(1)4:115–116
- sedimentation, postcompaction, 119B46:828
- sedimentation, postrift, 210B1:27–33
- sedimentation, prerift, 210B1:25
- sedimentation, reefs, 133A(1)17:779; 133B4:51–66
- sedimentation, rhythmic
 - precession cycle, 154A6:272
 - sediments, 165B4:92–98
- sedimentation, shallow-water, 133A(1)17:789; 143B5:89–97
- sedimentation, siliceous
 - Neogene, 145B4:77–78
 - Pigafetta Basin, 129B1:6
 - Site 800, 129A2:47
 - subsidence, 185A4:18
 - Upper Cretaceous, 129B1:6
- sedimentation, synrift
 - breccia, 149A4:61–62
 - Tithonian–Aptian interval, 210B1:25–27
- sedimentation, terrigenous, 155B18:319–333
- sedimentation, variable, 133B27:399, 402
- sedimentation maps, Neogene, 138B35:736–742
- sedimentation phases, Tasmanian–Antarctic, 189B1:4
- sedimentation rates
 - Africa SW, 175A16:488–493; 19:543–546; 175B(synthesis):69; 9:1–23
 - age, 127/128B(1)20:351; 146B(2)2:25–26; 167A(1)4:77; 5:108; 6:145; 7:168, 202; 10:262; 12:337; 14:412; 15:454; 174AXS_A3:84; 175B(synthesis):9–16; 11:6
 - age models, 105B40:786; 50:953; 108A7:506; 130B10:147; 44:718–726; 133A(1)4:101; 7:215; 150B7:125; 151A13:417–418; 152A10:175; 170A3:71; 4:127; 5:167, 170; 7:233; 172A3:54; 177A3:11; 4:15; 177B6:2–3; 12:3–4; 180B(synthesis):31; 181A3:21; 4:17–18, 72; 5:6–7, 18–19; 6:25–27; 7:34–37; 8:28–29; 9:18–19; 181B1:14–15, 96; 2:6; 3:4; 183B9:9–11; 184A4:94; 5:83; 6:59; 7:89; 8:41; 9:109; 185B7:21; 189A4:16–17; 5:35–36; 6:39–40; 7:36; 189B6:8–10; 9:8; 191A1:44–45; 4:89; 194A1:74; 3:14, 45; 4:20, 79; 5:62; 6:12, 47; 7:86; 8:52; 9:42; 194B4:5; 198B22:15; 202B4:8–12; 205B4:4–5; 208A3:47; 4:50; 5:40; 6:58; 7:47; 8:47
 - ammonia, 112A15:463; 119B21:402–403
 - Antarctic region, 114B6:134
 - Aptian, 192A3:14
 - Aptian–Albian interval, 198A10:12–13
 - Argo Abyssal Plain, 123B1:43, 48; 5:129; 36:667–668; 43:810
 - argon isotopes, 161B12:148
 - Atlantic Ocean E, 108A2:45, 47–48; 3:123; 4:233–235, 240; 5:327–328, 341, 344; 6:420–422; 7:488, 496–497; 8:565–566, 574; 9:634, 643; 108B8:123; 12:167, 180; 14:215–216; 15:245, 253, 263; 21:363
 - Australian NW margin, 123B41:789
 - bacteria, 185B3:1–11
 - Baffin Bay, 105B29:555
 - biochronology, 133A(1)15:631; 160B8:108–109; 167A(1)11:301
 - biogenic opal, 184B21:3
 - biohorizons, 133A(1)17:781

- biomagnetostratigraphy, 108A3:120–123; 4:234, 239;
5:343; 9:633; 10:753; 11:802; 12:844–848;
13:937; 189B6:23–24
- biostratigraphy, 108A6:420–421; 7:497; 127A4:111;
5:209; 6:281; 7:365; 131A6:252; 134A7:118;
10:284; 154A4:89; 5:183; 6:259; 7:302; 8:367;
155A16:473–474; 155B38:577–594; 159A8:278;
159B34:465; 161B40:508, 513; 162B20:272;
164A7:188–189; 8:258; 9:291–292; 164B35:365–
366; 165B17:257; 166A6:88–89; 7:158; 8:183–
185; 9:245–246; 10:308–309; 11:358;
166B15:159–161, 163–165; 171B_A3:69–70;
4:132; 171B_B7:8; 174A_B(synthesis):6–7;
175A5:121; 6:157; 7:180; 11:317–318; 13:398;
14:434, 436; 15:465–466; 19:543–545;
177A7:13–14; 178A5:30; 8:19, 82; 180A5:18;
6:48; 11:29–44; 12:33; 180B4:1–13; 181A3:15–
18, 21; 4:17–18; 182A1:23, 29, 34; 4:23, 54, 88;
5:14, 71; 6:22, 90; 7:16, 41, 68; 8:19, 42, 74;
9:13–14, 33, 59; 10:20–21, 48, 72; 11:10, 24, 37;
12:16–17, 36, 61; 182B6:3, 6, 11; 183A7:9;
184A4:17–18; 6:7–8; 9:14; 184B2:10–11;
186A4:35–37; 5:23–24; 188A3:39; 189A3:33–34;
191A4:26; 199A8:14–15; 14:17; 15:11;
204A4:13; 207A8:89; 210A3:88–90
- black shale, 207A10:12
- Broken Ridge, 121A13:464, 466–467; 121B36:737;
44:934, 936, 938
- Brunhes Chron, 127/128B(2)61:961
- Brunhes/Matuyama boundary, 126B23:346, 349; 127/
128B(2)61:961; 181A7:10; 190A6:13, 43; 7:11,
36
- bulk carbonate content, 194B9:3
- bulk density, 115B26:511–512
- Cagayan Ridge, 124A12:320, 323–327; 14:407–408
- calcareous nannofossils, 121B36:738; 131B1:10, 12;
139B5:64; 164B33:333; 170B5:17–18; 177A3:11
- calcite flux, 161B8:106
- Campanian–Maastrichtian interval, 207A8:90
- carbonate compensation depth, 127/128B(2)77:1228
- carbonate crash, 165A3:96
- carbonates, 115B25:474, 484; 121B15:303;
124B28:375–378; 150B17:321; 154B12:190;
25:381; 32:478–481, 492; 155A18:548;
172A4:116–117, 119, 123, 126; 5:205, 208, 215;
6:279; 7:316; 188B15:7
- Celebes Sea, 124A10:151–152; 124B1:3; 4:58–59;
30:406; 33:448–449
- Cenozoic, 132B2:30; 150X_B27:368–370;
149B16:325; 178A1:6–20; 178B(synthesis):24;
194A3:7–8
- changes, 190A4:15–16, 63
- chemical effects, 105B12:171, 180; 112A17:646
- chronostratigraphy, 134A8:161; 166A9:267;
169S_A2:25; 177A5:18; 183B7:7; 184A5:13
- climatic influence, 117B6:155
- compaction and restoration, 181A6:139
- comparison, 172A5:213
- compressibility, 161B10:122
- consolidation, 127/128B(2)80:1277
- continental slope, 146B(1)15:263–264, 266
- control points, 130A7:253, 323; 138A(2)14:772;
15:839; 16:931; 17:989; 18:1044; 19:1081;
177A3:45; 4:70; 5:89–90; 6:73; 7:72–73; 8:87;
9:60
- cooling effects, 115A5:259
- corrections, 165B7:129
- correlation, 130B35:593–594, 601, 606; 134B26:471–
474; 151A5:77; 155B39:601–603
- Cretaceous, 121B36:735, 738; 123B1:26; 160B30:384,
386
- Cretaceous/Tertiary boundary, 108A6:410, 422;
119B47:852–853; 130B45:749; 165B8:145;
208B1:42
- cyclic processes, 117B12:245; 133B41:621–622;
135B8:140–146; 143B20:322; 154B5:102–107;
22:338–339; 166B7:82, 84–85; 178B32:14–15;
207B2:8–10
- data, 177B6:18
- decompaction, 123A4:113–114; 5:289; 161B7:89
- Demerara Rise, 207A1:43–44
- deposition, 168B5:52; 171B_A6:262; 180A9:27–28;
204A5:5
- diagenesis, 146B(1)25:380; 166B3:23–31; 17:188–189;
201B5:6
- diatoms, 114B6:127; 160B28:358; 167B3:72–73;
177A6:10; 178A4:172; 8:20–21, 81; 186B2:7–10
- displaced units, 108A9:628
- dolomite, 128A4:148
- environment, 204A9:8
- Eocene, 171B_B8:5–7; 173A7:174–175; 183B4:15–16;
199B20:13–17
- Eocene–Oligocene interval, 124B33:453; 189A6:21;
189B1:14
- error sources, 128A4:171
- estimates, 105B38:761–763; 119B11:403–404;
130B44:730
- evolution, 157B9:100–114
- faunal concentration, 105B33:620–621
- flux rates, 121A15:519–520
- foraminifers, 130B19:340; 139B2:48, 58; 161B15:204,
212
- forearcs, 186B1:4
- gamma ray logs, 154B6:119; 186B15:24–25, 41
- gas hydrates, 164B12:136
- geochemical data, 152A8:98–99
- geochronology, 182B8:4–6, 18
- geology, 195A1:23–27
- geomagnetism, 151A7:181; 165B9:151, 158;
178A4:32–33, 169–170; 5:30, 143; 8:19, 80
- geothermal gradient, 119B18:372
- glacial fan deposits, 162B10:154–155, 158
- glacial–interglacial cycles, 105B33:620, 634–635;
108B12:170; 112A1:15; 117B6:155–157; 18:314;
19:338; 20:351; 177A1:25–26
- glacioeustatic changes, 150A2:13–15
- glauconite, 189A6:20–21
- grain size, 121A10:265
- heat flow, 105B49:929; 119A5:153; 127/
128B(2)73:1147–1148; 81:1302
- hemipelagic clay, 204A8:9

- hiatuses, 117A10:273–274; 117B6:151–153, 156–157;
 120B(2)57:1040; 182A8:18; 207A6:27; 8:23
 Himalayan–Tibetan uplift impact, 121A12:363
 history, 135B7:109–112
 Holocene, 133B22:311; 169A6:268
 ice-rafted debris, 120B(1)14:209–210
 ichthyoliths, 114A5:99; 145B26:405
 increased productivity, 105B14:217
 indicators, 130B9:120; 132B3:43–44; 133A(1)15:636
 Indus Fan, 117A8:190; 117B5:132
 inoceramid sediments, 123B1:11
 interhole correlation, 117A15:481; 121A15:517
 interval thickness, 198A1:147
 isotope stratigraphy, 155B16:303
 Izu-Bonin forearc, 125B37:617–620; 126B2:23; 41:604
 Japan Sea, 127A1:22, 24; 128A1:31
 Jaramillo Subchron, 121B17:378; 127/128B(2)61:959–
 960
 Kerguelen Plateau, 119B18:353; 120A7:226–227;
 120B47:892
 Kerguelen sediment ridge, 119A28:516, 544
 Labrador Sea, 105B10:144–145; 50:954; 52:999
 laminated diatom ooze, 138B31:648
 Lau Basin, 135A(1)1:26, 28–29
 Lima Basin, 112A11:176, 195–196, 199; 18:715;
 19:805; 112B33:527
 limestone, 143B31:514–515
 lithofacies, 175A16:488–493, 503
 lithology, 117A9:221–222; 117B10:218; 126B32:497–
 498; 134B5:81; 154A4:64; 155A14:434;
 161A7:307–308; 164A6:147, 149; 165A4:142;
 169A4:164; 5:209, 212; 172A4:93; 177A8:9;
 180A6:13, 19; 181A1:19–20, 33; 182A1:39;
 183A1:23, 30; 8:7; 189A4:8–9; 202A5:7–8;
 210A1:14–15; 3:38, 60–62, 329; 210B15:3–5
 local variability, 108B14:216; 138B3:42–44
 low-rate intervals, 121B15:302
 lower–middle Eocene interval, 189B1:10
 Maastrichtian, 108A6:424; 165A4:162
 Maastrichtian–Campanian interval, 207A1:20
 magnesium diffusion, 123B41:786
 magnetic intensity, 127/128B(2)61:966; 151A6:129
 magnetic minerals, 105B34:655–656; 127/
 128B(2)62:976
 magnetic polarity, 136A4:44; 151A9:285; 162A5:156;
 6:189; 7:241–242; 177A4:15
 magnetic properties, 115A4:143; 9:671, 674;
 121A12:394; 121B39:822–823; 126B23:341;
 167A(1)5:103
 magnetic reversals, 121B15:302–303; 172B11:4;
 178B37:12, 15; 199A8:14–15; 11:24
 magnetostratigraphy, 121A6:138; 8:210, 212;
 132B4:54–55; 136B3:47–48, 50; 138A(1)10:240–
 245; 145B30:466–467; 151A10:332;
 152B22:268–269; 162B8:114–116, 125;
 173B11:9–11, 13, 15–16, 19–23; 175A7:186–
 187; 10:292; 177A7:13–14; 178B37:16;
 181A8:29; 182A8:20–21; 185A1:53; 4:35, 37–38,
 131; 190A5:19; 8:14; 191A1:16–17; 195A4:32;
 199A10:15; 200A3:39; 207A8:90
 major elements/aluminum ratio, 160B17:213–214
 manganese, 126B32:498, 502
 Mariana Basin E, 124E_A18:125
 marine sedimentation, 181A1:10
 Mascarene Plateau, 115A5:259–262; 115B25:470
 mass accumulation rates, 105B34:657; 108A10:753
 Meteor Rise, 114B1:17
 microfossils, 161A4:73; 6:204; 7:313; 8:367; 9:399;
 161B2:34
 middle Eocene, 171B_A1:6
 middle Miocene, 159A9:312–313
 millennial cycles, 167B32:356–358
 minimum rates, 155B38:594
 Miocene, 108A2:45; 3:120; 4:233–234; 12:844;
 112A17:647; 115B25:483; 138B29:629–633;
 150X_B14:172–174, 181; 183B9:11; 184B10:10
 Miocene–Holocene interval, 125B37:619–620
 Miocene–Pleistocene, 117B5:134; 150B4:56
 Miocene/Pliocene boundary, 117A9:221
 Miocene–Pliocene interval, 188B1:10
 modern surface sediments, 138B42:824–826
 monsoons, 117B12:252; 124B29:379
 mud, 133B27:397
 nannofossils, 154B4:93–94; 167A(1)5:92; 164A6:117;
 165A4:161; 168B4:43–44; 183A5:8–9; 186B5:4–
 5; 199A10:14–15
 Nazareth Bank, 115A4:134, 142–143, 148
 Neogene, 115B25:472; 133A(1)5:154; 138B1:11–16;
 19:431–440; 167A(1)16:479; 167B32:342–343;
 177A1:15–16; 6:13; 181A7:91; 186A1:10, 13;
 198B1:13–18; 207A1:44
 neritic environment, 133A(1)8:260–261
 no-turbidite/slump-free sediments, 108A11:799
 Northeast Georgia Rise, 114B13:289
 obliquity, 175B22:3–5
 Olduvai Subchron, 127/128B(2)62:975
 Oligocene, 126A27:407; 126B4:94; 184B10:10
 Oligocene–Holocene interval, 183B8:7–8
 Oligocene/Miocene boundary, 108A4:234; 12:845;
 115A10:749; 165A4:162–163; 189A6:26
 Oligocene–Miocene interval, 108B16:287
 Oligocene–Pleistocene interval, 130A7:277;
 174A_A1:7–9
 Oman margin N, 117A11:336–338; 117B5:133, 141;
 19:325
 ooze, 130B10:143
 opal, 127/128B(2)81:1306; 178B23:11–12
 orbital parameters, 105B38:772; 127/128B(1)23:397–
 398
 ore-forming elements, 135B43:702–706
 organic carbon, 112B39:596; 119B19:376; 21:401;
 127/128B(1)35:628; 146B(2)9:130; 160B3:34;
 164A9:286
 organic matter, 113B50:889; 117A11:347; 127/
 128B(2)79:1265; 131B30:379–380
 oxalic marine environment, 130B34:578
 oxygen isotopes, 117B17:293, 295; 166B8:97;
 175B21:26
 Pacific Ocean E, 138B1:10; 6:98
 paleobathymetry, 138B42:827–830; 180B(synthe-
 sis):33
 Paleocene, 183B4:14–15

- Paleocene/Eocene boundary, 171B_A3:69
 Paleocene–Eocene interval, 121B36:740
 paleoclimatology, 178B18:6; 181B1:48–51; 191B1:5
 paleoenvironment, 178A7:9
 Paleogene, 115B25:473; 183A3:7
 paleomagnetism, 155A24:701–702; 177A1:23–24;
 178A5:30; 191A4:26
 paleontologic datums, 139A7:304, 326
 paleopositions, 199B21:4–5
 pelagic sediments, 108A9:620; 143B3:50–51;
 144A12:445–446
 Peru margin, 112A14:366
 Philippine Sea, 124B3:44
 phosphate formation, 127/128B(1)5:67
 physical properties, 133B41:617–623; 138A(1)6:87–
 91; 138B4:54–55; 146B(1)20:333–334;
 178B32:6; 181A6:26; 199A11:24
 Pisco Basin W, 112A16:527; 18:715; 112B21:360
 planktonic foraminifers, 134B13:303; 150B28:459;
 184B8:7–8
 Pleistocene, 108A7:497; 117B7:175, 177–178;
 138B43:853–854; 150B7:122–123; 170A1:12;
 172A7:311–313; 177B9:3; 182A7:18; 184A5:13;
 184B10:10
 Pleistocene–Holocene interval, 119B42:748–750;
 201B1:24–26; 15:1–15
 Pliocene, 105B51:966; 133B17:242; 167A(1)12:336;
 180B(synthesis):11; 184B10:10
 Pliocene–Holocene interval, 172B(overview):1–15
 Pliocene–Miocene interval, 162A4:113
 Pliocene–Pleistocene interval, 115B25:471; 29:551;
 130A6:195–196; 149B5:160; 188B13:14;
 194A9:14
 Pliocene/Quaternary boundary, 127A6:251;
 161A5:137
 pore water, 131B12:161–168
 principal results, 189A1:25–26, 30–31
 productivity, 127/128B(2)77:1228
 Prydz Bay, 119A8:310; 9:358; 10:385; 11:415
 pumice beds, 126B1:7–8
 Quaternary, 112B23:393–394; 151A5:68–69;
 155A2:18; 164A5:82; 167A(1)11:298; 13:372;
 182B5:6; 189B6:18; 195B3:12
 radiolarians, 178A4:16, 33, 171; 188A4:26; 191A4:90
 rhythmic layering, 167A(1)8:198
 Salaverry Basin, 112A12:263; 13:314
 sapropels, 161B41:525
 sea level changes, 155B20:364–365
 seasonal variations, 117A13:424
 seaward edge of grounded ice sheet, 119B41:744
 secondary precipitation, 139B9:146
 sedimentary stages, 121B15:302; 125B3:60–62
 sedimentary wedges, 182B1:7–9
 sediments, 117B6:155–156; 146B(2)8:114–115;
 150B12:236–237; 154B3:74–75; 169S_A2:14;
 177A1:16–17, 23; 182A1:13; 186A1:15;
 206A3:29, 35–36; 206B1:4–5
 seismic reflectors, 157B2:22–23
 sequence stratigraphy, 133B25:359–360
 shallow-water environment, 143B5:94–95
 Sierra Leone Rise, 108A10:750; 11:798–799; 13:936;
 108B2:15, 20; 8:125–126; 11:160
 silty clay vs. siliceous ooze, 119B42:749
 Site 261, 123B1:12
 Site 607, 121B15:306
 Site 680, 112A16:527; 112B13:359–360
 Site 682, 112A14:376, 379
 Site 698, 114A5:101, 110, 118
 Site 699, 114A6:166, 192; 114B5:98, 105–106
 Site 700, 114A7:271, 304–305
 Site 701, 114A8:381, 411–413; 114B5:106
 Site 702, 114A9:514; 114B20:364
 Site 703, 114A10:562, 584; 114B5:98, 107
 Site 704, 114A11:642, 683–684; 114B5:98, 106–107;
 23:412, 415; 24:449; 28:519–520, 524, 529
 Site 708, 115A6:401, 414, 416; 115B25:470
 Site 709, 115A7:461, 478–479, 483; 115B25:470
 Site 710, 115A8:609–611; 115B25:470, 477
 Site 711, 115A9:657, 675; 115B22:407
 Site 712, 115A10:748–750
 Site 713, 115A10:748–750
 Site 714, 115A11:857, 859; 115B25:470
 Site 715, 115A12:928
 Site 716, 115A13:1005, 1012–1013
 Site 721, 117A9:227–228; 117B5:132–134
 Site 722, 117A10:279, 281; 117B5:133, 136
 Site 724, 117A12:398, 400, 404; 117B5:133, 141
 Site 725, 117A13:429, 432–433; 117B3:56; 5:133, 142
 Site 726, 117A14:455, 457; 117B3:57; 5:133–134, 142
 Site 727, 117A15:474, 480–481; 117B3:57; 5:134, 142
 Site 728, 117A2:13; 117B5:134, 143
 Site 729, 117A17:552–553; 117B5:134, 144
 Site 730, 117A18:569; 117B5:144
 Site 731, 117A19:604–606, 608–609; 117B5:133, 139
 Site 736, 119A5:136
 Site 737, 119A6:183, 185, 191; 119B43:754
 Site 738, 119A7:253–254, 256
 Site 744, 119A13:490
 Site 747, 120A3:64–66, 74; 6:115–116, 121–122, 150–
 151; 120B(2)47:882–883
 Site 748, 120A5:79; 7:204–207, 229–230
 Site 749, 120A5:80; 8:259, 273–274; 120B(1)1:25
 Site 750, 120A9:308, 332; 120B(1)1:27; (2)25:460
 Site 751, 120A5:82; 10:355–356, 361; 120B(1)1:28
 Site 752, 121A6:112, 134–135, 138; 121B9:223;
 36:738; 44:938
 Site 753, 121B36:739; 44:938
 Site 754, 121B9:224; 44:938
 Site 755, 121B44:938
 Site 756, 121B9:224
 Site 757, 121A11:311
 Site 758, 121B11:242, 302–304
 Site 765, 123A4:113, 140–143; 123B1:12, 18; 5:129;
 11:215; 33:601; 38:725
 Site 766, 123A5:270, 301–302; 123B11:215
 Site 782, 125A10:213, 221–222; 15:373; 125B32:548
 Site 786, 125A15:375; 18:332–333
 Site 787, 126A5:74–75
 Site 792, 126A8:222, 243–244; 126B39:580
 Site 793, 126A9:342

- Site 794, 127A4:96, 105–107, 112; 127/
128B(1)15:287; 20:351; 37:653; (2)62:975, 982;
66:1043–1044; 77:1224, 1227; 128A1:31; 3:69
- Site 795, 127A5:174, 203–204, 210; 127/
128B(1)15:288; 20:351; 37:653; (2)62:975, 982;
77:1226–1227
- Site 796, 127A6:250–251, 277–278, 281–282; 127/
128B(1)15:288; 37:653; (2)77:1226–1227
- Site 797, 127A7:324, 351, 357, 359–362, 366; 127/
128B(1)15:287; 16:297; 20:351; 33:594;
(2)62:975, 982; 66:1043–1044; 77:1226–1227
- Site 798, 127/128B(1)23:407; 26:443, 446; 31:548;
32:563–564; 37:653; (2)61:959, 961, 974–975,
982; 77:1226–1227; 128A4:31, 124–125, 171,
176–177
- Site 799, 127/128B(1)37:653; (2)61:959, 961, 974–
975, 982; 77:1227; 128A1:31; 5:244, 259–260,
315–316, 324–325
- Site 803, 130A5:132
- Site 804, 130A6:196–200
- Site 805, 130A7:248
- Site 807, 130A9:409, 414, 417–419
- Site 815, 133A(1)8:264–265
- Site 816, 133A(1)9:314–316
- Site 817, 133A(1)10:368–369
- Site 818, 133A(1)11:429
- Site 819, 133A(1)12:466
- Site 823, 133A(1)16:707
- Site 829, 134A9:218
- Site 831, 134A11:346–347
- Site 832, 134A12:412, 424–425
- Site 833, 134A13:514
- Site 834, 135A(1)4:116
- Site 835, 135A(1)5:207
- Site 836, 135A(1)6:261–262
- Site 837, 135A(1)7:308
- Site 838, 135A(1)8:360, 362–363
- Site 839, 135A(1)9:422
- Site 840, 135A(1)10:526
- Site 841, 135A(1)11:614
- Site 844, 138A(1)9:145–147
- Site 845, 138A(1)10:216–220
- Site 846, 138A(1)11:293–295
- Site 847, 138A(1)12:353
- Site 848, 138A(2)13:695, 698
- Site 849, 138A(2)14:748–749
- Site 850, 138A(2)15:830, 850–851
- Site 851, 138A(2)16:913, 916–917
- Site 852, 138A(2)17:987, 990
- Site 853, 138A(2)18:1035–1036
- Site 854, 138A(2)19:1079, 1081
- Site 865, 143A6:135
- Site 869, 143A9:329–330
- Site 871, 144A3:66–67
- Site 872, 144A4:126–128
- Site 873, 144A5:178
- Site 881, 145A3:51–52
- Site 882, 145A4:95–96
- Site 883, 145A5:147–149
- Site 884, 145A6:234–235
- Site 887, 145A8:350–351
- Site 902, 150A6:89–91
- Site 903, 150A7:159–163
- Site 904, 150A8:228–231
- Site 905, 150A9:280–282
- Site 906, 150A10:326–328
- Site 907, 162A7:241, 243
- Site 914, 152A6:66
- Site 915, 152A7:79–80
- Site 916, 152A8:97
- Site 917, 152A9:121
- Site 918, 152A11:224–225
- Site 919, 152A12:267
- Site 925, 154A4:80, 87–89
- Site 926, 154A5:171, 178, 182–183
- Site 927, 154A6:245, 248, 256, 259
- Site 928, 154A7:297, 299–300, 302, 304
- Site 929, 154A8:355, 367–368
- Site 959, 159A5:95–96; 159B39:537; 41:560
- Site 960, 159A6:184
- Site 962, 159A8:276–277
- Site 963, 160A4:62–63; 5:102–103
- Site 965, 160A6:135
- Site 966, 160A7:176–177
- Site 967, 160A8:231, 233
- Site 968, 160A9:303
- Site 969, 160A10:355–356
- Site 972, 160A13:458
- Site 973, 160A14:479
- Site 982, 162A4:112–113
- Site 983, 162A5:154, 156
- Site 984, 162A6:189–191
- Site 985, 162A8:270–271
- Site 986, 162A9:306
- Site 987, 162A10:358
- Site 998, 165A3:69–71
- Site 999, 165A4:161–163
- Site 1000, 165A5:252–254, 275
- Site 1001, 165A6:315
- Site 1010, 167A(1)4:72–73
- Site 1011, 167A(1)5:103–105
- Site 1012, 167A(1)6:141, 143
- Site 1013, 167A(1)7:165
- Site 1014, 167A(1)8:187, 190–191
- Site 1015, 167A(1)9:229–230
- Site 1016, 167A(1)10:256–257, 259
- Site 1017, 167A(1)11:293–295
- Site 1018, 167A(1)12:325, 328
- Site 1019, 167A(1)13:366–367
- Site 1020, 167A(1)14:400, 405
- Site 1021, 167A(1)15:442, 447
- Site 1022, 167A(1)16:473
- Site 1075, 175A3:57–58, 60, 62, 64, 66–69
- Site 1076, 175A4:92–98
- Site 1077, 175A5:120–126
- Site 1078, 175A6:155, 157–159
- Site 1079, 175A7:179–180, 182–183
- Site 1080, 175A8:206–207, 209
- Site 1081, 175A9:241–251
- Site 1082, 175A10:283–291
- Site 1083, 175A11:317–320
- Site 1084, 175A12:352–363

- Site 1085, 175A13:398–406
 Site 1086, 175A14:434, 436, 438–442
 Site 1087, 175A15:465–468; 175B1:3
 Site 1095, 178A4:32–33; 178B6:3–5
 Site 1096, 178A5:30; 178B6:3–5
 Site 1101, 178A8:19–20
 Site 1115, 180A9:34
 Site 1143, 184A4:17–18
 Site 1144, 184A5:13; 184B2:10–11, 25
 Site 1145, 184A6:10
 Site 1146, 184A7:13–14
 Site 1147, 184A8:7
 Site 1148, 184A9:16
 Site 1149, 185A4:37–38
 Site 1150, 186A4:35–37
 Site 1151, 186A5:23–24, 27
 Site 1165, 188A3:39
 Site 1166, 188A4:26
 Site 1167, 188A5:19; 188B14:10–11
 Site 1179, 191A4:25–26
 Site 1207, 198A3:26
 Site 1208, 198A4:22–24
 Site 1209, 198A5:24–25
 Site 1210, 198A6:21–23
 Site 1211, 198A7:21–22
 Site 1212, 198A8:19–20
 Site 1213, 198A9:25–26
 Site 1214, 198A10:12–13
 Site 1215, 199A8:13–15
 Site 1216, 199A9:9
 Site 1217, 199A10:14–16
 Site 1218, 199A11:23–25
 Site 1219, 199A12:24–25
 Site 1220, 199A13:20–21
 Site 1221, 199A14:17–18
 Site 1222, 199A15:11–12
 Site 1257, 207A4:21–22
 Site 1258, 207A5:23–24
 Site 1259, 207A6:27–28
 Site 1260, 207A7:23–24
 Site 1261, 207A8:22–24
 Sites 721 and 731 comparison, 117A19:605–606
 Sites 722 and 731 comparison, 117A19:605–606
 Sites 790–791, 126A7:150, 172
 Sites 794 and 795 comparison, 127A5:204
 Sites 798 and 799 comparison, 127/128B(2)61:961, 965
 Sites 819 and 821 comparison, 133B15:191
 Sites 846–852 comparison, 138B3:45
 Sites 885–886, 145A7:311–312
 Sites 907–913, 151A13:417
 Sites 914–917, 152A10:173–174
 Sites 980–981, 162A3:72–73
 Sites 1054–1055, 172A3:48–49
 Sites 1056–1059, 172A4:104–107, 113–116
 Sites 1060–1062, 172A5:201–207
 Sites 1063–1064, 172A6:268–271
 slumping, 133A(1)16:700, 702
 spatial changes, 117B6:153–155
 stable isotopes, 138B43:844–845; 141B17:238
 stratigraphy, 108A11:802; 177A9:12
 stresses, 131B23:288
 strontium isotopes, 174AXS_A5:50
 submarine topographical control, 117B6:154
 subsidence, 117A11:340; 180A1:7
 sulfate, 112A1:16; 13:319; 119B21:402; 127A7:362; 127/128B(2)79:1262; 181B7:1–15
 Sulu Sea, 124A8:107–111; 11:226, 228, 232–235; 124B28:375–378; 30:402–404, 406
 Sumisu Rift, 126B35:532, 559; 42:646
 summary, 181A1:48; 189A1:84; 206A1:24–25; 3:146
 surface sediments, 138A(1)8:101, 105
 tectonics, 117A16:508; 125B14:271; 126B38:569; 141A6:88; 149B39:626; 161B44:570; 190/196B1:9
 terrigenous component, 112B30:491; 120B(1)18:292; 175B23:11–13
 thermal history, 139B29:566–567
 thorium, 105B29:554; 50:949
 timescales, 138B6:88
 Tongue of the Ocean and Exuma Sound, 101B15:217–218
 Trujillo Basin, 112B33:527
 turbidites, 108A11:791; 126B14:212; 127/128B(2)61:959; 149B46:711; 157A1:7; 181A1:22
 unconformities, 159A6:184; 198A5:24–25; 6:21–23; 7:21–22; 8:19–20; 9:25–26
 undercompaction, 180A1:4
 uniformity, 181A7:36–37
 uplift impact, 121A1:20
 Upper Cretaceous, 160B32:408
 upper Eocene, 199B1:35
 upper slope, 133B24:341–343
 upwelling, 112B22:370–371; 117B20:349; 127A5:204
 Valanginian–Hauterivian vs. Aptian turbidites, 123B5:127
 variations, 130B29:500–501, 506–507; 131A6:213
 vertical crust motions, 123B37:673–675, 688
 volcanic activity, 126B31:481–482; 151B18:347–349
 volcanoclastics, 180A1:9
 vs. age, 131A6:253; 133B41:622; 138A(1)6:89; 9:158; 10:256; 11:324; 12:385; (2)13:709, 731; 14:774, 801, 15:848, 880; 16:935, 959; 17:996, 1019; 18:1045, 1061; 19:1082, 1092; 20:1096; 138B1:15; 35:750; 42:837; 43:845–846; 143A6:135, 137; 9:329; 145B15:243, 250; 19:288–291; 146B(2)8:111, 134; 154A4:102; 6:256; 7:304; 8:368; 154B4:99; 22:340–341; 155B38:593; 159A9:312; 159B41:563; 162A3:73–74; 4:114; 5:159; 6:191; 7:245; 8:273; 9:309; 10:367; 162B14:205; 165A3:70; 4:161; 5:253; 6:316; 167A(1)4:77; 5:108; 6:146; 7:168; 8:202; 10:262; 12:337; 14:412; 15:454; 172A4:115, 119, 122, 126; 5:204, 207, 212–213; 6:277; 7:315; 175A16:490; 175B9:4–5, 17; 11:18; 21:18; 22:11; 178A4:102; 5:93; 8:60; 178B23:30; 37:36–37, 39, 41; 186A1:33; 4:125; 5:70; 186B1:19, 26, 42; 189B9:20; 195B3:27; 199A1:76; 202B4:24, 27;
- vs. age and depth, 177B6:10
 vs. barium, 127/128B(1)37:661
 vs. carbonate content, 130B44:726–733

- vs. compaction rate, 119A7:272–273
- vs. composite depth, 138A(1)9:158
- vs. depth, 127/128B(1)5:64–66; 130B21:367–368; 131A6:253; 133A(1)10:370; 133B32:487; 134A8:168; 12:443; 13:520; 135B11:171; 138A(2)14:774; 15:848; 17:996; 18:1046; 19:1083; 144A12:447; 145A3:49; 4:104; 5:150; 6:237, 240; 7:317; 8:358; 145B34:514; 146B(2)3:35; 151A5:78; 14:474, 482; 151B28:477, 482; 155B3:47; 157B17:294; 161A5:138; 6:200, 206; 7:313, 318; 8:375; 9:403; 161B7:90–92; 40:514; 162A3:73–74; 4:114; 5:159; 6:191; 7:245; 8:273; 9:309; 10:367; 164B35:375; 166B15:164; 17:180; 172A4:117, 120, 124, 127; 5:205, 208, 215; 6:279; 174A_B7:12; 175A13:400; 175B9:4, 16; 178A4:101; 5:93; 8:60; 178B32:22, 33; 37:36, 39, 41; 180A6:170; 180B23:13; 184B10:21; 189A4:33; 5:75; 195A1:58; 198A1:140; 206A1:65; 3:146
- vs. diatom abundance, 164B35:375
- vs. dissolution, 134B13:301
- vs. fluid flow, 135B48:787–795
- vs. geochemistry, 134A12:417–418
- vs. magnetic susceptibility, 172A3:54
- vs. mass accumulation rates, 133A(1)6:188; 144B2:39, 42–44
- vs. nannofossil events, 138B9:165
- vs. number of cycles, 165B7:133, 139
- vs. reactive phosphorus, 154B32:481
- vs. sulfate, 127/128B(1)37:661
- vs. sulfate reduction rates, 160B29:370; 161B32:416; 175A20:549
- vs. temperature, 138B39:802–803
- vs. thickness of hemipelagic beds, 135B7:122
- vs. thorium flux, 117B28:469
- vs. time, 166B15:164
- Weddell Sea, 113B52:925
- well-logging, 127/128B(1)23:396; 133B23:324–325; 138A(1)5:80–81; 189A5:55
- Yamato Basin S, 127A7:356
- zeolitic clays, 123B1:33
- See also* age vs. depth; calcite flux; mass accumulation rates; opal sedimentation rates; sediment flux
- sedimentation rates, apparent
 - boundaries, 151A9:285
 - magnetozones, 151A7:180; 10:332
- sedimentation rates, average, 136A4:55; 199A1:68
- sedimentation rates, instantaneous, 130B22:391–392, 394
- sedimentation rates, linear
 - age vs. depth, 202A4:17, 53, 76; 8:26, 107; 9:23–24, 75, 101; 10:22–23, 68, 93; 11:17–18, 57, 82; 12:19–20, 73, 101; 13:15–16, 53, 74; 207A1:72; 4:100; 5:23, 105; 6:98; 7:100; 208A3:23, 92; 4:25, 87; 5:19, 73; 6:31, 107; 7:24–25, 79; 8:25–26, 77
- biostratigraphy, 173B5:9–10; 183B6:5, 16; 204A3:13; 5:7; 6:9; 7:9; 8:10–11; 9:10; 10:12–13; 11:11; 206B2:9–10
- bulk sediment properties, 178B15:13
- Cretaceous, 207A1:43
- data, 206A3:356
- Eocene, 173B4:8–9
- lithology, 199A8:52; 9:9, 40; 10:56
- mass accumulation rates, 198A5:91; 7:74; 8:73; 202A1:93
- middle Eocene, 199B24:6
- models, 117B21:373
- Paleogene, 183B4:11
- Pliocene–Quaternary interval, 160B19:228
- sediments, 198A6:79; 207A8:91
- Site 871, 144B54:964–966
- Site 872, 144B54:967
- Site 873, 144B54:969–971
- vs. age, 138A(1)10:230; 11:297; 12:359; 138B28:618; 144B42:696, 698, 700, 702–704, 708–709, 711–712, 715, 717, 719, 721–725, 728–736; 146B(2)11:166; 167B18:230; 178B23:28; 202A7:20, 57, 74; 208A1:94
- vs. composite depth, 138A(1)10:231
- vs. depth, 138A(2)16:935; 144B54:957, 959, 963; 175B1:7; 178A4:49; 8:30
- vs. mass accumulation rates, 184A1:71–72; 4:56; 5:51; 6:36; 7:53; 8:21; 9:64
- vs. total organic carbon, 151A12:391
- sedimentation rates, mean linear, 159B41:562–563
- sedimentation rates, noncarbonate, 175A1:19
- sedimentation rates, postcompaction, 119B46:818–837
- sedimentation rates, synthetic, 175B9:20
- sedimentation rates, tuned
 - Aptian, 129B32:600
 - biostratigraphy, 129B30:532
 - Cenozoic, 129B4:119
 - closed system evolution, 129B14:274
 - Cretaceous, 129B1:6; 23:440
 - discontinuities, 129B30:535–537
 - Lower Cretaceous, 129B32:581
 - lower Tertiary, 129B23:436
 - middle Valanginian, 129B32:596
 - Milankovitch cycles, 129B30:529–547
 - Oxfordian, 129B32:590
 - Site 800, 129A2:52–53; 3:118–119; 129B3:90; 4:119
 - Site 802, 129A9:201; 129B14:269
 - Tithonian, 129B32:589
 - Valanginian, 129B32:596
 - Valanginian–lower Hauterivian interval, 129B32:597
 - vs. stratigraphy, 129B15:290; 30:540–545
 - See also* mass accumulation rates
- sedimentological logs, glauconite, 150B10:176, 178–182
- sedimentology
 - accretionary prisms, 131A1:13
 - carbonates, 166B6:61–76
 - channels, 155A6:117–120
 - collision zones, 134B5:73–88
 - columns, 155A6:94–95; 12:326–327; 13:389; 16:468; 18:543; 19:572; 20:596–597; 21:639; 22:660; 155B4:55
 - Cretaceous–Paleogene interval, 160B32:403–417
 - Cretaceous/Tertiary boundary, 130B45:745
 - grain size, 167B22:256–260

- Iberia–Galicia margin compared with Iberia–Newfoundland rift, 210B9:21
 ichnofacies, 138B10:177
 laminae, 146B(2)6:77–78
 lithology, 146A(2)2:24, 26–27, 30–32; 146B(2)22:295–308; 169A3:51–53
 Messinian, 160B9:115
 Messinian/Pliocene boundary, 160B1:3–8
 metasedimentary rocks, 152B10:129–131
 middle slope, 182B9:1–15
 mud breccia, 160B46:601
 multisensor track data, 162B18:247–257
 oceanic anoxic events, 198B16:1–31
 open-ocean biogenic sediments, 201B14:1–25
 pelagic clay, 200A4:24–25
 Pliocene–Holocene interval, 172B(overview):2–5
 sapropels, 160B28:349–352
 sequence stratigraphy, 141B31:382–384, 386–387, 389, 391; 166A3:26, 28
 Site 800, 129A2:38–48
 Site 801, 129A3:99–113; 185A3:5–9
 Site 802, 129A4:187–195
 Site 808, 131A6:81–99
 Site 855, 139A5:109–110
 Site 856, 139A6:173–174, 176–180
 Site 857, 139A7:297–300
 Site 858, 139A7:446–457
 Site 948, 156A6:98–108
 Site 949, 156A7:202–205
 Site 1035, 169A3:51–57
 Site 1037, 169A5:207–211; 169B10:18–22
 Site 1038, 169A6:263–268; 169B10:21–22
 Site 1149, 185A4:10–19
 Site 1179, 191A4:9–16
 Site 1192, 194A3:4–8
 Site 1193, 194A4:6–11
 Site 1194, 194A5:3–8
 Site 1195, 194A6:3–6
 Site 1196, 194A7:5–12
 Site 1197, 194A8:3–9
 Site 1198, 194A9:3–8
 Site 1199, 194A7:12–16
 Site 1243, 203A3:7–9
 smear slide analysis, 123A3:40; 4:101–102
 volcanic ash, 152B6:68–71; 190/196B2:1–9
 volcanoclastics, 157B16:273–274
 sedimentology, biogenic, radiolarians, 199B24:1–19
 sedimentology, decimeter-scale, 174A_B3:1–9
 sedimentology, high-resolution, 138B31:647–663
 sediments
 accretion, 131A1:5–14; 146A(1)9:395; 10:411
 acoustic properties, 143B18:287–303
 age, 131A6:156; 131B1:10–12; 141A8:290–291; 152B10:139; 166A11:372; 172B5:19; 208A1:84
 alteration, 139B10:155–206; 13:307–312; 24:447–465; 152B9:115–128; 153B16:325–328; 168A5:112–113; 6:169; 168B1:4; 169A3:78–87; 210A3:56–57
 anomalous lithification, 198A1:37–38
 Argo Abyssal Plain, 123B1:46
 authigenic carbonates, 151B24:415–434
 average gas hydrate content, 204B1:38
 backscattered electron imagery, 167B15:207–212
 bacteria, 135B9:147–150; 146B(2)10:139–144; 155B36:565–571; 160B25:303–307; 161B34:433–438; 164B37:393–398; 168B13:161–165; 169B2:1–18
 barite and phosphorus, 199B22:1–23
 basement, 168A1:9–10
 basins, 184A1:7–8
 bathymetry, 160A1:7–10
 beryllium-10, 170A1:13, 15
 biogenic opal, 178B1:1–7; 181B1:29; 6:1–12
 biogeochemistry, 202B9:4
 brightness, 188B7:5–7; 13:9–11
 budget in turbidity currents, 136B4:61
 bulk mineralogy, 131A6:94–99; 136B5:66–69
 carbon isotopes, 164B32:325–327; 167B24:273–276; 180B16:4
 carbonates, 127/128B(2)78:1241; 143B37:587–591; 168B8:95–103; 175B(synthesis):72; 181B8:1–5; 194B9:1–9
 Cenozoic, 130B48:775–788; 154A1:9; 182A1:1–58; 188A1:9; 194A1:25–27, 36–44
 clay mineralogy, 143B12:173–196; 150X_B4:49–57; 5:59–64; 155B9:177–192; 162B17:237; 169B6:22; 184B19:5; 204B7:1–15
 clays, 152B4:39–49
 clinoform stacks, 171B_A1:5–6
 coarse fraction, 130B16:293, 295; 146B(1)2:33–43; 151B31:515–567
 color, 117B6:155, 157, 160; 8:188, 190, 194–195; 10:219; 12:241–247, 249–253; 19:337–338; 146B(2)3:31–44; 167B29:319–329
 composition, 130A5:113; 131A6:91, 93; 134A7:111; 135B8:131–146; 139A5:146–149; 139B12:293; 22:429–438; 141B9:135–137; 144B55:973–984; 155A6:104; 9:214; 12:335–338; 155B10:198–201; 160B47:611–612; 164B23:231–233; 31:313–324; 166A11:372; 168B5:51–65; 169S_A2:14; 170A3:83; 172B5:22; 175B11:3–4; 177B13:1–10; 181B3:2–3; 183A3:59; 189A3:67; 5:68; 191B1:3–5; 205A4:172
 compressibility, 207B15:1–35
 computed tomography, 156B11:151–159
 consolidation, 146A(1)11:421–426; 204B12:1–148
 contamination, 205A4:50–53
 continental slope, 150B12:229–239
 core-log integration, 156B16:223
 core property correlation, 200A4:57–58
 correlation, 152B41:520–521
 coulometry, 172A3:58–59; 4:130–131; 5:219–221; 6:282–283
 Cretaceous–Paleogene interval, 130A10:520–524
 crust, 118B21:392; 195B2:7–9
 cycles, 127/128B(1)33:579, 582–584; 143B20:317–318; 167B25:277–296; 172B5:1–24; 205B2:8–9, 20–21
 décollement zone, 156A6:111
 deformation, 131A7:273–285; 149A4:83–88; 7:236–237; 156B4:67, 69, 71; 190A1:26
 deposition, 157A8:407; 168A5:103; 177A1:43

- depth, 134B7:101–102, 105–106; 199A11:107–109;
12:112–114; 13:81–82; 14:58; 15:50
- detrital component, 127/128B(2)78:1237–1239;
147B27:451–457
- dewatering, 146B(1)15:257–274
- diagenesis, 141B8:105–117; 155B30:497–504;
164A1:6; 8:247–249; 164B13:139–146;
178A4:22–23; 180A1:25–26; 180B(synthesis):14
- dispersal, 131B2:19, 34; 168B5:61–62
- dissolved components, 181B5:1–5; 201B9:1–10; 10:1–
10
- distribution, 150X_B16:212; 18:266
- drifts, 102B1:4
- elastic properties, 154B8:151–155
- electrical impedance, 169B8:5–8
- electron microprobe data, 155B7:147–168
- elements, 172A3:58–59; 4:130–131; 5:219–221;
6:282–283
- Eocene, 150X_B3:27–36; 199A1:39
- fabric, 155B27:447–464
- ferric/ferrous iron ratio, 172B(overview):3
- fine-grained rocks, 127/128B(2)86:1367
- Flinn diagrams, 149B17:339
- fluid geochemistry, 134A8:156–158
- fluids, 146B(1)27:399–411; 156B17:229–238
- fluoride, 204B16:1–22
- flux, 138B35:726–729, 731–732; 36:757; 145A3:51–
53; 4:96, 105; 5:147–148, 152; 6:234–235, 242–
243; 7:311–312, 320; 8:351, 359; 145B16:247–
256
- Formation MicroScanner imagery, 183A5:163
- gas chromatograms, 151A12:393
- gas regimes, 146B(1)8:155–156
- genetic units, 135B7:112–113, 123–124
- geochemistry, 112B48:684–692; 130A5:139–139;
131B28:343–364; 134A9:202–206; 11:343–344;
12:416–419; 13:505–508; 135B43:689–707;
136B6:77–83; 139A6:203–213; 139B11:207–289;
26:479–484; 141B21:279–286; 144B43:741–742;
146B(2)14:201–211; 147B26:443–450;
151A5:83–84; 6:133–134; 7:181, 190–193;
8:245–246; 9:290–291; 10:335; 11:370–371;
152B1:19–28; 155A6:111; 7:141; 8:191; 17:521;
18:558; 155B22:669–670; 31:506; 156B13:171–
182; 29:353–356; 157B12:150–156; 27:459;
32:563–569; 158B3:41–46; 164B14:147–149;
15:151–163; 165A8:394, 396; 166B13:137–143;
14:145–152; 17:179–195; 167B23:263–271;
169B10:19–20; 170A4:134, 137, 140–141;
171B_B4:1–26; 177B1:1–14; 178B4:1–12;
182B14:1–17; 184B12:1–25; 185A1:1–63; 4:30–
34, 176–177; 189B12:1–13; 191B1:4; 4:1–24;
195A3:34–37; 4:207; 199A1:15; 205A1:17–18;
5:16–17; 6:10, 45; 205B1:21–23; 5:1–21;
206A3:41–46; 206B3:1–26; 207B9:1–23;
208A3:22–23; 4:20–21; 5:16–19; 6:24–25; 8:24–
25
- geotechnical properties, 135B49:797–804;
150B21:377–384; 164B40:421–429
- glacial–interglacial variations, 127/128B(1)33:588–
590
- grain size, 130A5:114; 130B19:346; 135A(1)7:298;
141B6:79–94; 146B(1)1:3–31; 155B3:35–52;
11:217–228; 156B27:337–341; 164B24:237–245;
174A_B(synthesis):10; 4:1–18; 178B12:1–34;
182B14:10–16; 208B2:1–13
- granulometry and gas hydrates, 204B10:1–30
- heavy minerals, 150X_B7:75–79; 174A_B6:1–11
- hemipelagic vs. pelagic sediments, 175A16:488–493
- high-resolution mineralogy, 199B11:1–23
- hydraulic conductivity, 141B32:401–405
- hydrocarbons, 131B15:185–195; 141B22:287–297;
151A12:385–395; 164B5:47–58; 10:101–112
- hydrogeology, 139B40:627–647
- hydrology, 180B22:1–22
- hydrothermal deposits, 135B5:75–86
- hydrothermal fields, 139B29:509–516
- image data, 178B3:14, 16, 18–20
- impacts, 178B9:1–6
- inclination, 129B33:629–630
- inductively coupled plasma–atomic emission spec-
troscopy data, 208A5:69–70
- injections, 141A6:86; 141B1:5; 2:19; 29:367
- inorganic composition, 154B36:507–526; 181B9:1–10
- interaction with basement, 169A5:221
- interpillow material, 185A3:24–25
- intervals, 152A5:50–51
- iron and sulfur, 160B20:249–259
- iron oxidation, 172B(overview):3; 2:1–11
- iron sulfides, 155B37:573
- isotopes, 164B7:67–77
- Japan Sea, 127/128B(2)78:1233–1249
- Jurassic–Paleocene intervals, 129B23:431–446
- laccoliths, 169A6:256
- laminae, 146B(2)6:77–87
- lead isotopes, 158B8:105
- lenses in accretionary prisms, 141B1:5
- light absorption spectroscopy, 199A5:5
- lipids, 175B5:1–26; 10:1–32
- lithification, 198A6:4–5
- lithofacies, 149B40:741–754; 159B11:111–123;
175A16:488–493
- lithology, 101A1:15–17; 135A(1)4:161–164; 145A1:5–
7; 145B38:579, 581; 150B22:390–392;
151A13:415; 160A4:75–76, 78; 163A3:26; 4:35;
163X_A4:11–12; 165B4:86–87; 173B6:9–11;
174AXS_A1:52; 2:48; 183A1:13–14, 30;
187A5:6; 14:4; 191A1:14; 200A1:11–12; 4:2,
122; 210A4:4–6
- loading and consolidation, 127/128B(2)71:1130
- loss and stratigraphy, 130B44:733
- low-frequency oscillations, 162B14:197–207
- lower trench slope, 134B30:531–547
- magnetic anisotropy, 156B6:97–105
- magnetic fabric, 149B17:335–342; 159B19:189–197;
161B11:129–136
- magnetic properties, 124B38:511–515; 132B3:37–45;
135A(1)4:118, 122–125; 5:211–212;
135B45:717–735; 139A7:306–307; 152B23:271–
280; 155B15:271–278; 156B6:99–103;
157B5:47–56; 160B6:75–82; 172B4:1–22;

- 173A7:182; 175B8:1-17; 13:1-31; 180A5:29;
184B1:1-8; 205A4:143
- magnetostratigraphy, 135B46:737-762; 149B16:315-334; 152B22:265-269; 183A8:22-23; 192A5:19-20; 208B4:1-24
- major components, 130A7:234, 302; 9:382;
207B8:16-17, 26
- major elements, 127/128B(2)78:1235-1237, 1246-1248; 151A5:85; 6:130-131; 7:183-184; 8:242; 9:287; 10:334; 11:368; 181B1:27-28
- mass accumulation rates, 130B34:573-584; 144B2:39, 42-43; 157A4:87-88; 5:131-132; 6:164-165; 178B3:1-20
- maturity, 157A6:166
- median destructive field, 183A9:35-36
- microbiology, 169B3:1-19; 175A21:555-560;
201B3:1-19
- microfabrics, 131B4:45-56
- mid-Cretaceous, 207B2:1-31
- middle Miocene, 194A1:13-15
- mineral composition, 136B5:65-66, 68; 139B8:113-131, 133-154; 141B7:95-104; 146B(2)7:89-101; 150B11:195-210; 20:363-364; 150X_B24:317-341; 155B7:168; 156A3:29-37; 157A4:77; 5:124; 6:156; 160B18:219-226; 161B8:99-110; 172B5:21; 182B14:1-17; 184B14:1-10
- Minolta data, 164B31:318-323
- Miocene, 194A1:21-23, 30-35
- mixing, 129B6:160; 134B10:179-245
- modal composition, 155B7:150-151
- Mossbauer spectra, 172B2:8
- mud breccia, 160A1:10-14
- multisensor core logging, 188B9:1-16
- natural gamma ray spectra, 195B12:1-33
- Neogene, 130B44:713; 167B32:363-372; 191B1:2-19
- neutron absorption cross section, 149B37:598
- nitrogen isotopes, 202B9:1-22
- noncarbonate component, 144B13:262; 54:956, 958, 962
- occurrence, 149A6:173
- oceanic crust, 148B25:340
- organic acids, 135B44:710-714
- organic biomarkers, 199B25:1-11
- organic geochemistry, 135B41:667-676; 143B12:173-196; 159A5:104-105; 186B11:16-17; 199B20:1-33
- organic matter, 131A6:189; 141B9:119-132;
151B22:391-405, 407-414; 155B34:539-553;
201B4:1-21
- organofacies, 150B18:329-344
- origin, 144B15:301
- osmium isotopes, 159B18:181-186
- outer perimeter ridge sequences, 144B15:295-310
- oxygenation, 199B22:8
- paleoceanography, 177A1:1-67
- paleomagnetism, 130A9:409-412; 135B47:763-783;
143B27:405-418; 38:593-594; 145B33:483-490;
155A24:701-702; 170A3:70; 183A4:23-24;
6:53-54; 7:47-48; 183B13:1-17; 191A4:24-25;
191B9:1-19; 192A3:31, 33; 4:24-25, 80-81;
195B13:1-14; 198B21:1-14; 205A4:41-42
- paleotemperature, 139B35:565-570
- parameters, 141B10:144-149
- patterns, 175B(synthesis):8-9
- permeability, 131B19:235-245; 166A3:34; 169B8:3-5;
180B23:1-14; 190/196B18:1-22; 19:1-12;
201B18:1-18
- petrography, 147A3:55-56; 147B27:451-452;
149A4:47, 50, 55-56, 58-59; 157B20:359-360;
161B7:86-87; 180B8:22-31; 187A8:6-7;
195A4:14-16; 198B16:24-29
- petrophysics, 131B4:47
- phosphorus, 154B32:475-481; 167B13:195-202;
171B_B1:1-10
- photograph, 141B10:150-151; 161B1:8; 164A5:71-74,
76-77; 167A(1)6:135; 185A3:78, 82-83;
187A14:11; 194A1:66; 201A7:53; 202A4:30;
7:42-43, 46, 48-49; 11:45; 205A6:27
- photomicrograph, 149B36:588; 40:754; 198A1:131
- physical properties, 130B36:607-622; 134B1:17;
29:511-530; 141B33:407-416; 146A(1)8:381-386;
146B(1)16:275-280; 151B20:370-375;
154B9:157-168; 155B26:421-446; 29:477-493;
160B48:625-643; 164A1:7-8; 7:196;
164B27:265-272; 168A4:86-87, 94; 5:140-141,
152; 6:177-178; 168B6:67-84; 169B7:1-19;
173A6:153; 199B13:1-31; 210A3:101-104
- Pleistocene, 154B7:135-149; 184B19:1-21
- Pliocene/Miocene boundary, 161B1:3-20
- Pliocene-Miocene interval, 164B1:3-4
- Pliocene-Quaternary interval, 160A5:88
- polycyclic aromatic hydrocarbons, 155B35:555-564
- pore water, 131B34:423-425; 139B23:441-446;
146B(1)30:431-438
- postcruise research, 177A1:26-29
- postevaporite section, 161A5:133
- postrift sequences, 149B38:605, 607
- power spectra, 177B(synthesis):51
- pre-Cenozoic interval, 188A1:8-9
- precipitation, 151A1:20, 22
- prerifting, 152B41:519-520
- principal results, 192A1:11
- provenance, 131B2:15-34; 162B6:93-94; 180B6:1-53;
183B7:8; 188B2:11; 3:13; 202A3:8-9
- pyrolysis, 157A6:172
- Quaternary, 146B(2)22:302-304; 175A22:561-567;
177A1:13; 182B7:1-21
- radiocarbon dating, 201B15:1-15
- radiolarians, 178B33:1-14
- rare earths, 167B19:235-238
- recovery, 195B3:20
- recycling, 145B24:383-388
- redeposition, 154A9:427
- redox, 149B14:301-304
- reflectance, 155A23:697-700; 162B19:259-264;
175A23:569-577; 178B21:1-22
- relation to lower sill complex, 210A3:69-70
- reworking, 144B21:411-417
- rift valleys, 147A1:8
- Rock-Eval pyrolysis data, 144A5:187; 162A8:280;
9:313; 164A5:92; 6:129; 7:202; 9:302; 172A3:60;
4:133; 5:223; 6:284; 201A11:97-98; 205A6:55

- rock magnetism, 150B19:347–359; 154B10:169–179;
 11:181–186; 155B14:251–270; 180B20:1–15;
 183B13:1–17; 186B16:1–21; 197A4:25–26
- sample depth assignment, 130B21:365
- sand, 127/128B(1)12:216
- sandstone, 127/128B(1)7:104–105, 113
- scanning electron micrograph, 156B11:151–159;
 172B5:18
- seabed observations, 178A9:9–10
- section depth scale variability, 138B3:42
- sediment ponds, 118B21:371–372
- sedimentary aprons, 157B27:443–469
- seismic profiles, 146A(2)2:20, 22–25; 150B16:304;
 156A2:16–20; 168B2:14–15
- sequences, 123B1:5, 7–20, 23–34, 43–46, 48; 129B1:3–
 8; 135B7:103–105
- shallow burial, 129B7:175
- shipboard vs. shore-based spectral data, 155B10:193–
 215
- siliceous components, 127/128B(2)78:1239–1241
- Site 765, 123B1:43–46
- Site 794, 127A4:92; 127/128B(2)78:1235–1237, 1242
- Site 795, 127A5:188; 127/128B(1)1:8–1; (2)78:1237–
 1240, 1243
- Site 796, 127A6:264
- Site 797, 127A7:345; 127/128B(1)1:11–14;
 (2)78:1240–1241, 1244
- Site 798, 127/128B(1)23:398–400, 409–422;
 128A4:138
- Site 799, 128A5:258
- Site 894, 147A3:53–55
- Site 895, 147A4:113–114
- Site 1153, 187A4:5–6
- Site 1154, 187A5:6
- Site 1155, 187A6:8–9
- Site 1156, 187A7:9–10
- Site 1157, 187A8:9–10
- Site 1158, 187A9:8
- Site 1159, 187A10:5
- Site 1160, 187A11:11–12
- Site 1161, 187A12:10
- Site 1162, 187A13:13
- Site 1163, 187A14:6–7
- Site 1164, 187A15:10
- Site 1276 stratigraphy comparison, 210A1:24–28
- sliding, 126B4:87
- smear slides, 205A4:21–22; 5:14–15
- sources, 129B2:57; 155B6:145; 190/196B4:25
- stable isotope stratigraphy, 184B4:1–8
- starvation, 123B8:167, 185–187; 33:612; 43:803–804,
 810–811; 133B25:361
- stratigraphy, 130A9:451–452
- strength, 131B21:261–273; 186B17:1–19
- stress orientation, 204B4:1–14
- strontium isotopes, 171B_B2:5; 192B3:1–19
- structures, 149A6:182–183; 183A5:46–47; 205A4:35–
 36
- subduction and beryllium isotopes, 123B8:167
- sulfides, 127/128B(2)78:1241–1249
- sulfur isotopes, 139B47:739–748; 201B6:1–20
- summary, 190A1:26–27; 206A1:22–23
- tektites, 150B13:243, 246
- terrigenous composition, 175B23:10–11
- textures, 127/128B(1)2:33–48; 141B11:153–167;
 166A6:78–79; 167B22:255–261; 174A_B3:4, 9
- thanatocenosis, 127/128B(1)17:309–316
- thermal alteration, 139B28:495–508
- thermal conductivity, 169B8:8–10
- thickness, 130A10:512; 130B2:29, 37, 40–49; 3:41;
 131A6:237; 138A(1)1:10; 7:95; 8:103;
 138B24:552–553; 41:815; 139A2:33;
 143B21:349, 372; 145B30:458–462;
 146A(1)10:412; 149B12:292; 166A8:179;
 180A1:76; 184A4:95; 188B14:27; 189A1:74
- thin sections, 163A5:279
- total organic and inorganic carbon, 201B8:1–20
- trace elements, 170A3:78; 192B4:1–6
- transects, 168A1:17
- transition to basalt, 169A5:210–211
- transport, 134A12:408–409; 145A6:274–276;
 146B(1)1:11–13; (2)6:77–78; 12:179–180;
 20:271–275; 151B21:384–385
- unconformities, 183A1:16
- underconsolidation, 135B48:787–795
- upper Albian, 159B13:125–131
- upper Miocene, 175B1:1–23
- volcanic ash, 152B8:95–113
- volcaniclastics, 129B5:137; 136B7:85–95
- volcanism, 135B3:40–41
- volume vs. depth, 172B5:17
- vs. depth, 184A4:44
- well-logging, 127/128B(1)23:398–400, 402–403
- X-ray computed tomography, 146B(1)11:191–199
- X-ray diffraction data, 136B5:65–76; 141A9:314–315;
 10:358, 361; 146A(1)6:253; 7:315; 149B40:753;
 156A6:101–103; 164A7:183; 8:256; 9:286;
 168B5:58; 178A4:162; 5:133; 8:14–15;
 180A6:246–247; 7:76; 8:125; 9:181–182;
 12:178–179; 182A5:78–80; 6:30, 102–103; 7:21,
 75–76; 8:25, 87–88; 9:19–20, 71–72; 10:25, 77;
 11:14, 43; 12:21, 70; 182B7:1–16; 185A4:66;
 186A4:85–87; 194A6:14; 195A4:93, 192–193;
 198A3:120; 202A11:45; 205A4:22–23, 170–171;
 5:18–19, 95–103; 6:11, 46–49; 206A3:339
- X-ray fluorescence data, 170A3:76–79; 185A4:175
- X-ray images, 151B21:377–388
- X-ray mineralogy, 141A6:83–84
- X-ray radiography, 172B7:17, 20, 23, 25, 29–30, 33,
 36
- zoning, 187A6:35
- See also* authigenic component; basalt/sediment con-
 tacts; basement/sediment contact; biogenic
 component; black layers; black shale; carbon-
 ate/noncarbonate ratio; clastic component; ig-
 neous-sedimentary cover; pillow rim/sediment
 contacts; sand fraction; sediment flux; silt frac-
 tion; spiculate; terrigenous composition;
 unfite; water/sediment interface
- sediments, abyssal plain, seismic units, 204B2:6
- sediments, accreted
- continental slope, 146A(1)8:385–387
- microfabrics, 131B17:211–233

- microstructures, 146B(1)12:201–216
- sediments, alluvial, photograph, 152A9:115
- sediments, altered, X-ray diffraction data, 156A6:116
- sediments, anoxic, transform faults, 159A1:14
- sediments, anoxic-nonsulfidic, 127/128B(1)34:612
- sediments, autochthonous, 141A8:290
- sediments, basal
 - age, 123A5:269; 123B43:804–805; 183A5:12–13; 8:12
 - Argo Abyssal Plain, 123B1:3, 43, 46–48
 - middle Eocene, 199A1:35–36; 11:5
 - mineralogy, 123B4:93
 - Site 765, 123B1:43
- sediments, basal metalliferous
 - chemical composition, 138B37:770
 - geochemistry, 138B37:770–774
- sediments, bioclastic, lithology, 133A(1)14:574–576
- sediments, biogenic
 - age vs. latitude, 199A4:10
 - composition, 201A12:11
 - deposition, 175A1:12
 - diagenesis, 130A12:549
 - downhole measurements, 157B4:41–42
 - fabric, 117B11:228–229, 231
 - grain size, 117B11:228
 - inorganic geochemistry, 117B23:414–417
 - Kerguelen-Heard Plateau, 119B14:285
 - mass accumulation rates, 117B22:406–407
 - Oman margin, 117B11:230–231
 - Owen Ridge, 117B11:230
 - phosphorus, 138B36:760–761
 - Prydz Bay, 119B6:112–113
 - Southern Ocean high-latitude cooling, 119B48:874
- sediments, biogenic hemipelagic, 201A9:11–12
- sediments, biosiliceous
 - comparison of Paleogene, 151A11:364
 - laminations, 127/128B26(1):439–455
 - lithology, 129B3:85
 - Oxfordian–Barremian interval, 129B1:11
 - paleoenvironment, 151B5:75–99
 - permeability, 127/128B(2)71:1128
 - Site 798, 127/128B(1)26:439–455
 - vs. depth, 198A1:130; 3:60
- sediments, bioturbated, lithology, 128A4:124; 155A21:653, 683
- sediments, black
 - metalliferous lithology, 138A(2)19:1065–1066
 - photograph, 189A6:82
 - volcaniclastics, 157B16:278
- sediments, black silty
 - lithology, 201A8:10
 - X-ray diffraction data, 201A8:34
- sediments, brecciated
 - lithology, 139A7:448–449; 189A3:12
 - photograph, 189A3:75
- sediments, brown, reflectance spectra, 202A6:38
- sediments, bulk
 - carbonates, 165A8:394, 396
 - composition, 170A4:141
 - geochemistry, 199A8:54; 9:42; 10:17–18, 58–59; 11:26–27, 111–113; 12:116–117; 13:22–23, 84–85; 14:60; 206A3:361–364
 - mass accumulation rates, 198A3:26; 4:60; 5:25; 6:22, 55; 7:21–22
 - mineralogy, 189B11:1–34; 196A3:19–20; 4:16
 - vs. age, 165A4:173; 189B11:9; 206B2:22; 4:22–23
 - vs. depth, 165A5:263; 6:322
- sediments, bulk marine, 199A7:1–14
- sediments, buried, microbiology, 201B1:1–45
- sediments, calcareous
 - Albian–Miocene interval, 123B1:18–19
 - alteration, 187A14:4–5
 - Argo Abyssal Plain, 123B1:46
 - chertification, 129B3:91
 - color, 187A8:50
 - compaction rate, 121B12:258, 260
 - compression index, 121B12:258
 - Cretaceous–Holocene interval, 123B43:805
 - deposition, 123B1:19, 30–31, 34
 - dissolution, 130B44:711–744
 - lithology, 150B22:391; 171A_A4:45; 187A7:3–5
 - Miocene–Pliocene interval, 123B1:19–20, 33–34
 - photograph, 187A7:13; 195A5:20–22; 197A1:35
 - physical properties, 121B12:254; 123B32:590–591; 130B39:653–661; 40:663–672
 - preservation, 130B38:641–652
 - Quaternary, 123B1:20
 - redeposition, 123A4:76, 80; 123B1:19, 30
 - Site 765, 123A4:90–91; 123B1:45
 - sources, 123B1:30; 41:788
 - Tithonian–Barremian interval, 123B1:26–31
 - Valanginian–Barremian interval, 123B1:15–17
 - vs. noncalcareous composition, 123B39:751
- sediments, carbonate-quartzose clastics, 160B45:579
- sediments, carbonate-rich, reflectance, 175A9:571
- sediments, chemogenic, lithofacies, 155B40:631
- sediments, clast-rich matrix-supported, 160B37:469–471
- sediments, clastic
 - clastics/(clastic + biogenic) ratio, 202A3:25; 4:32; 5:29
 - deposition, 173B7:16
 - drilling, 157A2:11–25
 - environment, 159B8:77
 - Lima Basin, 112A11:165–167
 - lithology, 182A6:9–10; 210A4:4–6
 - mineralogy, 157B17:298, 302–304
 - petrology, 157A7:351, 353–355
 - photograph, 210A3:146–147
 - point-count data, 157B17:296
 - provenance, 180B(synthesis):12
 - time on shelf, 157B17:309, 311
 - Tyrrhenian Sea, 107A7:327
 - underthrusting, 205A6:9
 - vs. depth, 202A3:25; 4:33
 - See also* siliciclastics
- sediments, clastic disturbed, lithology, 183A4:3–4
- sediments, clastic ferruginous, 210B9:47
- sediments, clay-rich
 - ductile strain, 131B11:141–155
 - lithology, 150B22:391
 - reconsolidation, 131B20:247–260
 - reflectance spectra, 138A(1)4:74
 - upper Paleocene, 198B9:2–3
- sediments, clay-rich clastic, 160B45:580

- sediments, clayey, photograph, 165A6:307; 201A9:33
sediments, clayey mixed, lithology, 172A3:37–38
sediments, clayey nannofossil
 lithology, 157A4:60–63, 67–68; 5:108; 9:437, 443–445; 10:501, 507–511
 photograph, 157A8:404; 10:513–514
sediments, coarse-grained, photograph, 210A3:148, 157
sediments, collapsed-chimney derived, 169A4:168
sediments, contorted fine-grained, 180A12:63
sediments, dark gray, lithology, 160A4:59
sediments, dark gray laminated, 171B_A7:358
sediments, deep
 grain size, 201B1:24–26
 major cation concentrations, 201B11:1–19
sediments, deep-sea
 beryllium isotopes, 154B26:389–394
 composition, 154B27:395–431
 geomicrobiology, 164B36:379–391; 37:393–398
 lithology, 129B3:81–117
 Pleistocene, 185B7:1–21
sediments, deeply buried, pore water, 175A20:547–553
sediments, deepwater, Cretaceous, 143B7:105–109
sediments, deltaic, lithology, 152B9:119
sediments, detrital
 composition, 124B31:420, 422
 Galicia margin W, 103A1:9
 mineralogy, 124B31:411–414
sediments, diatomaceous
 consolidation, 145B35:536, 538
 lithology, 161A9:394
 sedimentology, 199B24:1–19
sediments, distal levee, 155B27:450, 452, 455–457
sediments, distal mud-volcanic, 160B45:580
sediments, dolomitic
 basal and intrabasement, 107B9:132, 134, 139
 geochemistry, 107B9:131, 133–135
 Gortani Ridge, 107B9:132
 hydrothermal processes, 107B9:136–137
 iron-manganese sediments, 107B9:136
 lithology, 133A(1)6:183
 Marsili Basin, 107B9:130–131
 mineralogy, 107B9:135
 Pliocene, 107B38:656
 weathered basalt, 107B9:136
sediments, eolian
 clay mineralogy, 117B9:201–207
 mass accumulation rates, 117B9:205
sediments, fan-levee, mass transport deposits, 155B6:142–143
sediments, feeder zone, density and porosity, 169B7:5
sediments, felsic, potassium logs, 157B3:30–31
sediments, ferruginous
 lithology, 210A1:22; 4:5
 photograph, 210A4:19
sediments, fine-grained
 lithology, 160A9:294–295; 210A3:52–55
 petrography, 160B45:579
 provenance, 210B8:13–15
sediments, fine-grained lithogenic, 144B42:714–716, 718, 722
sediments, fluidized, 155B28:467–469
sediments, fluvial glacial-age, 117B6:156–157
sediments, folded, photograph, 155B6:122–123
sediments, foraminiferal, 165A6:306
sediments, foraminiferal clayey mixed, 165A4:138
sediments, forearc prism, 205A1:67
sediments, glaciogenic
 consolidation, 119B8:151–152
 distribution, 119B1:14, 16
 erosion and overconsolidation, 119B9:178–179
 genetic classification, 119B6:101, 103
 lithofacies types, 119B6:104–105, 107
 Neogene interval, 119B48:886
 permeability vs. preconsolidation stress, 119B8:155
 physical properties, 119A8:326
 plasticity, 119B8:154
 Prydz Bay, 119B48:881, 885
 source area, 119B1:14, 16
 transport and deposition, 119B6:114–115
 vertical solute diffusion, 119B19:387–388
sediments, glaciomarine
 composition, 163X_A4:1–2; 6:19–21
 erosional unconformity, 119B45:797
 lithology, 119B13:240; 163X_A4:11–12; 5:4
 Miocene interval, 119B6:118
 pebbly muds, 119B42:749
 proximal vs. distal position, 119B6:103, 107; 13:248–249; 48:882, 888
 sedimentary cover, 163X_A8:3
 stratigraphy, 163X_A8:14–16
sediments, glauconitic
 lithology, 120A7:170; 120B(1)9:113
 photograph, 207A5:48
sediments, granular, classification, 121A2:40–42
sediments, green
 photograph, 184A7:47; 202A5:30
 reflectance spectra, 202A6:38
 volcanism, 157A2:23–24
sediments, hemipelagic
 accumulation, 131A1:7–9
 alkenones, 186B13:1–12
 density and porosity, 169B7:5
 deposition, 202A13:8–9
 diagenesis, 131B12:159–163
 hydrothermal alteration, 169A6:259
 lithofacies, 169A3:54–56
 lithology, 133A(1)16:686; 134B5:74–84; 139A7:446–457; 169A3:44–53; 4:163–167; 188A3:14, 20–21; 202A3:8–9; 4:8; 5:15; 6:8–9; 210A3:25, 29
 major elements, 131B28:353
 microfabrics, 185B9:1–29
 Neogene, 157A1:6–7
 ocean circulation, 165A8:385
 organic materials, 131B30:379–385
 permeability and consolidation, 205B10:1–24; 11:1–13
 petrography, 160B45:580–581
 photograph, 205A1:68
 porosity, 131B29:367
 rock magnetism, 205A4:43–44
 scanning electron microscopy, 164B30:306
 subduction factory, 205A1:5–6

- terrigenous component, 168B7:87–94
- X-ray diffraction data, 188A5:12–13
- See also* volcanoclastic-hemipelagic intercalation
- sediments, hemipelagic marine, 168B3:21–35
- sediments, hemipelagic-pelagic, tectonics, 171A_A1:5–6
- sediments, hemiturbiditic, 139B7:105–111
- sediments, high-density, 204A9:59
- sediments, hydrothermal
 - inorganic geochemistry, 199B15:1–11
 - types, 107B9:136
- sediments, hydrothermally altered
 - alteration, 139B46:725–735
 - recrystallization, 169A3:99–101
- sediments, indurated, lithology, 141A9:313; 165A4:143–145
- sediments, inoceramid
 - bioturbation, 123B1:7, 11
 - calcsphere-rich layer, 123B1:54
 - carbonate compensation depth, 123B1:10–11
 - depositional environment, 123B1:9–11, 13
 - microtextures, 123B1:54
 - noncalcareous component, 123B1:9
 - prism textures, 123B1:8
 - Site 765, 123B1:43–45, 52
 - Tithonian, 123B1:7–13
- sediments, interflow
 - alteration, 206A3:69
 - Bathonian, 129B32:582
 - lithology, 129A3:106–107
 - photograph, 192A6:59; 206A3:242–243
 - vs. depth, 206A3:204, 233, 255
- sediments, interpillow, petrology, 187A1:7–8
- sediments, iron-stained, sources, 121B21:444
- sediments, laminated
 - backscattered scanning electron microscopy, 127/128B(1)31:553–557
 - cyclic lithofacies, 128A4:124
 - lamination thickness, 127/128B(1)31:548, 550
 - lithology, 165A7:363–368
 - low-oxygen environment, 127/128B(1)12:189
 - paleoceanography, 127/128B(1)31:547–557
 - photograph, 175A6:155–156; 207A5:48
 - Site 794, 127A4:147
 - Site 799, 127/128B(1)2:44
 - visual microanalysis methods, 127/128B(1)4:57–62
- sediments, layered
 - Formation MicroScanner imagery, 160B47:615
 - photograph, 172A3:40
- sediments, levee
 - acoustically transparent layer, 129B31:563
 - lithology, 155A12:364–366
- sediments, lithic-rich calcareous, 187A8:19
- sediments, marine
 - bacteria, 185B3:1–11
 - ice cores, 177B(synthesis):17–19
 - magnetic polarity, 157B6:57–69
 - organic matter, 201B5:1–30
 - photograph, 141A9:313
 - Pliocene–Holocene interval, 161B7:83–97
 - pollen composition, 133B10:116
 - pore water, 131B13:165–174
 - thermal conductivity, 131B37:457–458
 - volcanic ash, 201B19:1–43
 - weathering profiles, 144B14:275
- sediments, metalliferous
 - Broken Ridge, 121A2:42
 - Cornaglia Terrace, 107B1:24
 - Cyprus-type deposits, 158B28:409
 - geochemistry, 107B9:133; 16:245–251; 205B1:16–17
 - hydrothermal fields, 158A1:7–8
 - lead and zinc sources, 107B16:252
 - lithology, 138A(1)10:199; 139A6:177, 457
 - mineralogy, 107B16:245, 247–248, 251
 - Miocene/Pliocene boundary, 121A2:42
 - oxides, 138A(1)9:127
 - photograph, 138A(1)9:136
 - Pliocene, 107B38:656
 - provenance, 107B16:251
 - Sardinian margin, 107B1:24
 - See also* metalliferous sediment index
- sediments, mixed
 - burial history, 165B10:177–190
 - diatomaceous clayey composition, 128A5:256
 - index properties, 160B48:636
 - lithology, 134A9:192; 160A14:469–471; 165A3:54–55; 7:363–368; 172A4:84–92
 - photograph, 157A10:510, 512–514
 - Site 795, 127A5:186–187
 - Site 799, 128A5:260
- sediments, mixed clayey nannofossil, 165A3:55; 4:138, 142–146; 6:297
- sediments, nannofossil, 157A7:332
- sediments, near-surface, 204B8:1–29
- sediments, neritic, lithology, 157A4:66
- sediments, nonbiogenic
 - color reflectance, 138B18:417, 420–421
 - estimated vs. measured percentages, 138B18:421
- sediments, noncarbonate, 154A:326
- sediments, nonpelagic grain-rich, 202A7:42
- sediments, nonskeletal
 - thin sections, 144A7:266
 - vs. depth, 144B15:299
- sediments, oceanic
 - iron, manganese, and aluminum, 129B1:26
 - Milankovitch cycles, 129B30:529–547
 - samples, 129B2:65
- sediments, oldest, lithology, 129A3:91–170
- sediments, opaline, lithology, 150B22:391
- sediments, open-ocean biogenic, 201B14:1–25
- sediments, organic-rich
 - Aptian, 198A3:30–32
 - formation, 127A5:212; 7:365
 - geochemistry, 162B15:209–216
 - ocean circulation, 175A1:9–11
 - volcanism, 157A2:23–24
- sediments, oxide-rich, lithology, 138A(2)16:896–897; 17:971–972, 974
- sediments, oxidized, 160B19:247–248
- sediments, pedogenic, deposition, 119A9:356
- sediments, pelagic
 - Albian–Cenomanian interval, 129B1:13
 - analytical methods, 126B32:487

- authigenic component, 126B32:497–498
- biogenic component, 126B32:489, 495, 497
- biostratigraphy, 133B14:183–186; 144A10:356–357, 359, 361–362; 188A5:14–15
- carbonates, 133B16:204
- Cenozoic, 133B57:795–817
- composition, 131A6:91, 93
- consolidation, 133B42:625–632
- cyclostratigraphy, 154B5:101–102
- deposition, 202A13:8–9
- geochemistry, 126B32:487, 489–499
- geologic history, 207A1:3–4
- ichnofacies, 138B10:177–190
- lithology, 129B6:155, 158, 160; 32:583; 133A(1)16:694, 696; 134B5:75–84; 154A6:235–237; 9:421–422; 188A3:14, 20–21
- mantle source, 125B38:650
- microfabrics, 185B9:1–29
- Neogene, 133A(1)4:114–119; 149B12:283–284
- offbank transport, 133B16:221–222
- Oligocene, 126B42:632
- ooze, 208A1:4–5
- oxygen isotopes, 133B32:481–487
- paleoenvironment, 133B49:723–747
- permeability and consolidation, 205B10:1–24; 11:1–13
- photograph, 187A3:19; 207A4:43
- physical properties, 154B9:158–159
- Quaternary, 138B29:627–639
- redeposition, 126B42:646; 133A(1)17:776
- rheology, 125B20:366–368; 36:609–610
- sedimentary environment, 126B32:498–499
- source area, 126B32:489, 497–499; 145A3:61
- stratigraphy, 201B16:1–19
- strontium isotopes, 144B21:411–417
- terrigenous component, 126B32:497
- upper slope deposition, 133B38:543–562
- See also* pelagites; terrigenous–pelagic sediment transition
- sediments, pelagic marine, 199A6:1–21
- sediments, periplatform
 - biostratigraphy, 194A4:16–17; 5:13; 194B2:8–9
 - Cenozoic, 194A1:36–40; 3:7–8
 - fluid flow, 194A1:55–57
 - lithology, 194A8:9; 9:4–8
 - photograph, 194A9:31–32
 - photomicrograph, 194A9:33
- sediments, perireef, 101B18:257–258
- sediments, phosphatic, 128A5:249
- sediments, polymict clastic
 - lithology, 210A4:6
 - photograph, 210A4:21–23
- sediments, postrift, isotopes, 210B4:1–13
- sediments, prebasaltic, 152B39:466–467
- sediments, preglacial, 163X_A8:4–5
- sediments, proximal levee, 155B27:449–454
- sediments, pumiceous
 - consolidation behavior, 126B36:546–547
 - current control, 126B9:147
 - lithification, 126B8:131
 - temperature and age, 126B34:528
- sediments, pyroclastic, lithology, 135A(1)10:501
- sediments, quartz-rich
 - volcanism, 157A2:23–24
 - photomicrograph, 207A5:50
- sediments, recrystallized, 185A3:78–83
- sediments, red
 - Callovian–Bathonian interval, 129B1:21
 - occurrence, 160A10:352
 - photograph, 160A10:343; 201A7:44
 - lithology, 164A6:111
 - sedimentation, 172A5:174, 176–178
- sediments, redeposited
 - photograph, 165A3:59–60
 - Site 585, 129B31:563
 - Site 802, 129B31:563
- sediments, seamount-derived, 143B22:373–379
- sediments, serpentine
 - classification, 125B33:563
 - clast lithology, 125B18:328
 - convergent margins, 125A4:71
 - deformation, 125A7:127–129; 11:261–263; 12:289–290
 - emplacement, 125A4:71
 - geochemistry, 125B18:334–337
 - land deposits, 125A8:149
 - magnetic properties, 125B33:561, 564–570
 - Mariana seamounts, 125B19:343
 - mineralogy, 125B18:331–334
 - physical properties, 125A11:266
 - pore water chemistry, 125B23:397
 - regional comparisons, 125B36:612–613
 - rheology, 125A8:166–167; 12:290
 - Torishima Forearc Seamount, 125B19:354
 - X-ray diffraction data, 125B18:329
- sediments, shelf, isotopes, 152B25:294–296
- sediments, siliceous
 - classification, 129B2:32
 - color, 187A8:50
 - lithology, 171A_A4:45
 - Site 800, 129B2:32
 - strength, 145B36:551–553
- sediments, siliceous-carbonate, 138B37:769–770, 772
- sediments, siliceous-clayey
 - composition, 138A(1)8:101–115; (2)13:723–724; 138B1:11–16; 35:723
 - consolidation, 138B16:357–369
 - depth, 138B4:47–57
 - diagenesis, 138A(1)1:10
 - geochemistry, 138A(2)13:699–700; 15:834, 836; 138B37:769–770
 - hydrothermal activity, 138B37:769–778
 - lithology, 138A(1)9:124; 138A(1)10:191–208
 - paleomagnetism, 138B5:59–72
 - reflectance spectroscopy, 138A(1)4:67–77
 - stable isotopes, 138B39:797–805
- sediments, siliciclastic
 - minor elements, 170A3:77; 4:138
 - trace elements, 170A4:139
 - X-ray fluorescence data, 170A4:137–141; 5:177–178; 6:206
- sediments, silty, photograph, 201A9:33–34

- sediments, silty mixed, lithology, 172A3:37–38
 sediments, slope basin, seismic units, 204B2:6–7
 sediments, soft calcareous, photograph, 185A4:80
 sediments, subducting
 contamination of mantle source, 127/128B(2)49:805–817
 permeability and consolidation, 205B10:1–24; 11:1–13
 sediments, subseafloor, habitability, 205B8:1–26
 sediments, sulfide-rich, photograph, 201A12:29, 30
 sediments, sulfide-veined, facies, 169A3:74–75
 sediments, surface, composition, 138A(1)8:101–115
 sediments, surface analogs, 115B30:585
 sediments, suspended
 lithofacies, 146B(2)22:296–299; 27:349
 transport, 190/196B3:7–8
 sediments, terrigenous
 accumulation during monsoon, 117B9:198
 Atlantic Ocean E tropical, 108B14:212, 219–221, 226–240; 17:307
 Bengal Fan, 116A4:46; 5:92; 6:157; 116B14:157–160
 calcium carbonate, 121B15:311
 CIROS-1, 120B(2)56:1010
 Cretaceous, 119B10:200
 Eocene, 119B10:197
 factors, 108B14:223–224
 flux trends, 108B29:473–474; 208B1:15
 glacial–interglacial cycles, 119B12:31
 glacial transport, 119A14:530; 119B13:249;
 grain size, 119A2:24; 119B12:228, 236; 13:240, 242, 258
 gravel content, 119B13:243–244
 high-frequency fluctuations, 121B15:311–312
 Himalayan sources, 121A15:519–520; 121B15:310–311; 24:477; 39:822
 Indian-Asian collisions, 121A12:363
 inverse opal correlation, 119B12:227; 13:240
 Kerguelen Plateau, 120B(1)19:290–292
 long-term changes, 121B15:309–310
 magnetic properties, 121B39:792–793, 822–823
 mass accumulation rates, 121A15:517, 519
 mineralogy, 141B7:95–104
 Miocene, 108B29:477
 Miocene–Holocene interval, 121A12:375, 424
 Neogene interval, 121B39:821–822
 parameter comparison, 138B35:720–721
 Pleistocene, 108B14:214, 223; 29:481
 Pliocene, 108B14:214, 220–222; 29:478
 porosity, 155B26:426–427
 riverine output and increase, 121B15:309–310
 sedimentation, 145B16:250
 Site 750, 120B(1)1:27; 8:103; 17:256, 261
 sources, 108B14:220; 116B32:401–402, 406; 121B15:297–298
 supply, 154B20:299–318
 Turonian–Santonian tuffs, 121A9:238, 121B37:747
 vs. depth, 145B16:250
 See also terrigenous component
 sediments, tilted, photograph, 146A(1)5:142
 sediments, trench-fill
 permeability, 190A5:14
 resistivity, 190/196B1:21
 sedimentation, 190/196B1:9
 turbidites, 190/196B3:4
 sediments, trench slope, mineralogy, 204B7:5
 sediments, turbiditic, density and porosity, 169B7:5
 sediments, unconsolidated
 magnetic fabric, 141B3:29–49
 petrography, 200A3:14–15
 sediments, underthrust, fluid flow, 171A_A5:67–68
 sediments, undisturbed
 photograph, 146A(1)7:316
 vs. depth, 146A(1)7:324
 sediments, volcanic glass-rich, 204A4:50; 5:25; 7:33; 9:41
 sediments, volcanoclastic
 lithology, 129B5:143; 6:155
 photomicrograph, 129B5:152
 vertical sequence, 129B6:159
 sediments, volcanogenic
 chemical variation, 129B5:143
 classification, 129A1:12–13
 Combinable Seismic Imager (CSI) logs, 129B6:165
 composition, 107B4:54–55; 129B1:3–30; 2:57; 3:94
 Cretaceous, 129B13:247; 14:267–281; 31:563–565
 depth, 129B5:143
 description, 129A1:8–13
 diagenetic enrichment, 121B20:429
 disturbance, 129A1:11–12
 geochemical logs, 129B33:625
 geochemistry, 107B4:55; 129B15:283–294
 groundmass, chilled margin, and glass, 107B4:55
 interelement ratios, 121B20:425, 430
 interlayer water, 129B16:295–302
 iron-manganese-(nickel-cobalt-copper) system, 129B1:26
 normalized oxide contents, 129B29:517–519
 petrology, 129B4:120; 32:581–587
 provenance, 121B20:428–429
 rheology, 125B20:366–368; 36:609–610
 scanning electron microscopy, 141B12:169–180
 Site 737, 119B11:217
 Site 752, 121B27:519–520
 Site 800, 129B1:3–30
 Site 801, 129B1:3–30
 trace elements, 107B4:54–55
 vs. carbonate content, 121B20:427–428
 well-logging, 129B29:507–527
 sediments, wedge, geochemistry, 205B7:1–38
 seeds, kerogen, 183B3:5–6
 Seelandian. *See* Selandian
 seepage, basement, 168B6:71
 segregated material in vesicles, 197A3:95; 4:55–56; 6:52
 segregation bands
 photograph, 210A3:248
 sills, 210A3:67–68
 segregation blobs, photograph, 163A5:59–60
 segregation vesicles. *See* vesicles, segregation
 segregations
 basalts, 183A4:18–19; 9:14
 basement units, 183A6:39
 melts, 152B40:494–495
 photograph, 183A8:74; 9:54, 58, 65, 102

- photomicrograph, 183A4:51–55; 5:106; 6:127
- structures in volcanic material, 197A3:18
- volcanic rocks, 135B37:615–623
- vs. depth, 183A5:140
- segregations, leucocratic
 - deformation, 153B5:80
 - photograph, 153B5:79, 84
- seismic amplitude reduction, gas hydrates, 164A4:48–49
- seismic anisotropy
 - gabbroonorites, 147B17:321
 - overpressure, 156B21:271
 - velocity, 147B17:324
- seismic-borehole correlation
 - density and velocity, 210A3:107–108
 - Site 1276, 210A3:107–113
 - Site 1277, 210A4:11–12
- seismic-core correlation
 - Site 903, 150A7:186, 188
 - Site 904, 150A8:242
 - Site 1276, 210B14:1–33
 - vs. depth, 150A6:114; 9:298; 10:327
- seismic calibration, sedimentation, 149B41:653–654
- seismic cruise tracks, 207A3:5
- seismic data
 - acquisition, 198A11:12
 - chloride, 204A11:36
 - core-log correlation, 185B8:1–14
 - correlation, 161A6:278; 161B4:60; 204A4:78; 5:42
 - debris flows, 204A3:58
 - gas hydrate proxies, 204B1:13
 - Greenland SE, 152B1:4–16
 - logging-while-drilling, 204A3:61
 - physical properties, 204A8:60; 9:34, 58; 10:71; 11:45
 - seismic reflectivity, 204A3:56–57
 - Site 1044, 171A_A3:35–36
 - Site 1045, 171A_A4:52
 - Site 1046, 171A_A5:68, 71
 - Site 1047, 171A_A6:90
 - Site 1048, 171A_A7:101–102
 - thermal anomalies, 204A6:53
- seismic data, deep-tow, 149B41:649–657
- seismic data, three-dimensional
 - accretionary complexes, 204A1:55; 204B11:12
 - stratigraphy, 204B2:2–3
- seismic data, two-dimensional, 204B2:4, 21–23
- seismic data, wide-angle, transform faults, 159A3:52
- seismic depth section, décollement, 171A_B3:19
- seismic discontinuities, 174A_A3:81; 4:131
- seismic experiments
 - basalts, 142B7:51–59
 - near-offset vertical seismic profiles, 204B25:1–23
- seismic facies
 - carbonates, 130B3:46
 - core-seismic integration, 155A17:535–536; 18:566–567; 19:588; 20:625, 628; 23:687–688; 157B28:473–498
 - correlation, 155A6:119, 121–122; 7:167–168; 8:199; 9:232, 234; 11:310, 313; 12:371, 373; 14:436; 16:496
 - lithology, 155A18:565; 163B1:13–15; 165A4:204; 188B14:8–10
 - sedimentation, 152B1:8–17
 - seismic data, 157A7:385; 166A9:262; 166B16:175; 174A_A3:95–96; 4:146–151
 - seismic stratigraphy, 185B8:7–8; 194A3:23–25; 4:28–30; 5:28–30; 6:25–27; 7:41; 8:23–24; 9:23–26
 - structural data, 173A4:98–102
 - synthetic seismograms, 165B12:205–217
 - velocity, 166A6:110
 - volcanostratigraphy, 163B1:5
- seismic facies units
 - core-seismic integration, 155A16:486–487; 18:562–563; 19:586; 20:621; 22:682
 - grain size, 155B3:35–52
 - photograph, 174A_A5:158–161
- seismic flexure, heat flow, 170B4:6
- seismic Horizon A
 - amplitude, 204B1:30
 - clay mineralogy, 204B11:7
 - deposition, 204A4:10–11
 - environment, 204A6:7–8
 - Formation MicroScanner imagery, 204A4:95
 - in situ bulk density, 204B1:31
 - lithium, 204A4:67; 6:12, 43; 9:12
 - lithology, 204A9:5–7
 - maps, 204B2:24
 - photograph, 204A7:33; 9:41
 - physical properties, 204A4:79; 9:18–19
 - resistivity-at-the-bit, 204A1:68; 4:95
 - seismic data, 204A1:7–8, 56–57; 4:41; 6:28
 - Site 1250, 204B1:32
 - tectonics, 204B2:9–11
 - transport-dominated regime, 204B1:7–8
 - volcanic glass-rich sediments and ash, 204A4:51
- seismic Horizon B
 - deposition, 204A5:5
 - gas hydrates, 204B1:9
 - lithium, 204A5:31
 - lithology, 204A5:4
 - photograph, 204A3:51
 - physical properties, 204B1:33; 25:17
 - sediments, 207A6:36
 - seismic surveys, 204A1:8; 204B2:6
 - Site 1246, 204B1:33
 - time map, 204B2:27
 - X-ray diffraction data, 204A3:53
- seismic Horizon Y
 - angular unconformity, 204A6:7–8
 - lithology, 204A4:5; 7:4–6; 8:7–8; 9:5–7
 - magnetic susceptibility, 204A9:61
 - photograph, 204A9:39
 - seismic data, 204A3:10; 4:41
- seismic horizons
 - depth, 182A4:110; 204A1:71
 - interpretation, 210B14:31
 - Paleogene–Neogene, 199A4:19
 - seismic reflections, 199A4:4–6, 20
 - Site 1217, 199A4:17
 - Site 1219, 199A4:12
 - Site 1220, 199A4:13
 - Site 1221, 199A4:15
 - Site 1222, 199A4:18

- Site PAT-13, 199A4:14
- Site PAT-21, 199A4:16
- Site PAT-23, 199A4:11
- seismic images, logging-while-drilling, 171A_A1:5–10
- seismic Layer 1
 - disappearance, 102A3:138, 167; 102B3:46; 11:155–156
 - Japan Basin N, 127A5:176
 - Kita-Yamato Trough, 128A5:246
 - Oki Ridge, 128A4:127
 - Oki Trough, 128A4:127
 - structure, 102A1:2; 102B3:46
 - Yamato Basin, 127A7:330; 128A4:127
- seismic Layer 2
 - alteration, 102A3:138; 102B9:127
 - changes with age, 102B5:63, 67
 - density, 102B5:64; 153A4:175–176
 - duration of seawater interactions, 113B10:139
 - eruptive history, 102A3:97
 - heat flow, 168A4:52
 - Japan Basin, 127A5:176; 127/128B(2)83:1342
 - Oki Ridge, 128A4:127–128
 - seismic anisotropy, 127/128B(2)70:1107
 - seismic structure, 148B28:369–370
 - structural evolution, 148B17:245–279
 - thickness of altered basalt, 127/128B(1)40:701
 - veins, 148B19:281–288
 - velocity structure, 102A3:96
 - Yamato Basin, 127A4:73; 7:330; 127/128B(2)83:1342, 1345; 128A1:9; 4:127–128
 - Yamato Rise, 128A5:246
- seismic Layer 2/3 boundary
 - seismic layers, 148B25:346
 - structure, 148B16:242
 - well-logging, 148B33:409–414
- seismic Layer 3
 - alteration, 118B27:543–548
 - attenuation, 118B13:253–257
 - fluid-rock interaction, 118B9:186; 147B12:227–234
 - fluids, 118B9:181
 - formation, 118B26:513
 - geological evolution, 118B26:509–510
 - Japan Basin, 127A5:176; 127/128B(2)83:1342–1343, 1345
 - Kita-Yamato Trough, 128A5:246
 - lithology, 118B26:439–513
 - magnetic anomalies, 118B16:300–302, 305, 320
 - magnetic properties, 118B17:320
 - mineralogy, 118B27:542–543
 - Oki Ridge, 128A4:127–128
 - petrography, 118B27:542–543
 - physical properties, 118B18:323
 - seawater influx, 147B28:472
 - seismic reflection profiling, 118B18:245
 - slow-spreading ridges, 118B2:21
 - structure, 176A1:3
 - sulfur depletion, 118B5:123–124
 - transforms, 118B21:361
 - well-loggings 118B18:325
 - Yamato Bank, 128A5:246
 - Yamato Basin, 127A4:73; 7:330; 127/128B(2)83:1342–1343, 1345; 128A4:127–128
 - Yamato Rise, 128A5:246
- seismic lines
 - Iberia Abyssal Plain, 149B48:737–739
 - interpretation, 151A8:262; 190A1:48
 - lithology, 171B_A6:311; 188B8:17–18
 - location, 131B6:74; 132B1:4; 134A7:98–101; 139A5:108; 168B2:9–13
 - multichannel data, 134A10:263–264
 - New Hebrides island arc, 134A5:56–63
 - Pacific Ocean equatorial, 138A(1)3:43–63
 - Prydz Channel Trough Mouth Fan, 188B14:20
 - ray-trace diagrams, 131B6:79
 - seismic reflection, 190A4:92; 5:86; 190/196B12:13
 - single-channel data, 134A10:264
 - Site 828, 134A8:142–144
 - Site 829, 134A9:182, 184
 - Site 831, 134A11:321–322
 - Site 832, 134A12:394–397
 - Site 833, 134A13:483–487
 - Site 907, 151A5:59
 - Site 908, 151A6:114
 - Site 909, 151A7:161
 - Site 910, 151A8:225
 - Site 911, 151A9:272
 - Site 912, 151A10:320
 - Site 913, 151A11:351
 - Site 1173, 196A3:41
 - synthetic seismograms, 208B6:19–26
 - tracks, 172A4:154; 5:246–247; 6:304
 - vs. two-way traveltimes, 146A(1)5:214
- seismic lines, migrated, 149B39:619–620, 624–625
- seismic-lithologic correlation
 - lithology, 105B7:89; 108A3:135; 6:424; 114A7:293; 9:510; 116A4:89; 120B(2)47:885; 125B35:585–586, 589; 126A3:67; 7:129–130, 132; 11:417; 129B29:513–514; 133A(1)5:144–145; 8:253–254, 293, 295; 9:307, 338; 10:356; 11:424–425; 12:460–461, 500–502; 16:749; 17:777; 135B22:368; 50:808; 144B45:772; 146A(1)4:111
- oceanic plateaus, 130B3:35–36
- Pacific Ocean E, 138B24:539
- reflectors, 138B24:544
- Site 800, 129A2:74–75
- Site 802, 129A4:227
- Site 881, 145A3:57, 61
- Site 882, 145A4:99–100
- Site 883, 145A5:177–181
- Site 884, 145A6:271–272
- Site 887, 145A8:361–362
- Sites 805–806 comparison, 130A8:346
- Sites 885–886, 145A7:317
- seismic-log comparison
 - COST-B2 Well, 174A_A3:91–92
 - sonic data, 174A_A4:138–141; 5:184–187
 - synthetic seismograms, 174A_A4:141; 5:187
- See also* seismic stratigraphy; well-logging
- seismic-logging integration, 190/196B15:1–16
- seismic logs, correlation, 180B5:1–25

- seismic megasequences
 age models, 194A4:20; 5:15–16; 9:14
 correlation with cores, 194A5:27–30
 lithology, 194A1:15; 9:7, 18
 magnetostratigraphy, 194A9:13
 middle Miocene, 194A1:13
 sedimentation rates, 194A3:45
 seismic stratigraphy, 194A1:10–11, 45–47, 67–68;
 3:23–25; 4:28–30; 5:27–30; 6:25–27; 8:23–24;
 9:23–25
 vs. two-way traveltime, 194A3:59
See also seismic sequences
- seismic Merlin reflector, lithology, 152B1:15–16
- seismic methods
 deconvolution, 197A6:117
See also tau-p mapping
- seismic models
 correlation, 178A7:22–23
 décollement, 131B6:74–76
 density/velocity models, 178A4:33–34; 9:22–23
 gas hydrates, 141B18:244–250
 source signals, 178A4:34
 structure, 130A5:156–158
 synthetic seismograms, 178A7:23
 traveltime depth model, 178A4:34–35
- seismic networks
 history and objectives, 136A1:3–4
 installation, 191A1:11–12, 27–31; 3:4–6, 23–58
 Pacific Ocean NW, 191A1:3–5, 7–8, 27–31; 3:1–58
 plate tectonics, 195A1:20–22; 195B2:15
 potential global coverage, 136A1:4
See also borehole seismic observatories
- seismic profiles
 A Horizon, 207B1:26
 accretionary prisms, 141B25:316–317, 323–324;
 156B20:255–262
 acoustic facies, 155A1:10
 Amazon Fan, 155B2:21–23, 25–26; 6:113–117; 28:475
 analog 3.5-kHz profile, 202A1:120; 4:21
 arrivals, 164A6:135
 Ashizuri transect, 190A1:53
 Atlantic Ocean, 152A3:42; 152B1:4–16
 Australia Bureau of Mineral Resources (BMR) multi-
 fold water gun, 133A(1)15:670
 Bahamas, 166A1:7; 2:17, 21; 3:25; 5:68
 Barbados Ridge N, 156B8:117
 basement reflections, 130B2:23–31
 basin-to-platform change, 133A(1)8:257
 Bermuda Rise, 102A3:107–110
 biogenic opal, 127/128B(2)72:1140–1141, 1143
 Blake Ridge, 164A4:47–56, 59; 164B1:4; 19:181;
 26:254
 Cape Fear diapir, 164A5:69
 carbonate platforms, 143B29:459–470
 carbonate-rich sediment reflectors, 133B44:649–659
 Cascadia Basin, 146A(1)1:10, 13
 Ceara Rise, 154A3:42–50
 Cenozoic, 174A_A1:9
 channels, 155A3:36–41
 chert, 136B8:99–104
 Chile margin, 141A2:15–17, 19; 141B9:121
 continent/ocean margin, 159B11:102–103
 continental margins, 173A1:16, 23; 178A1:24–27, 34,
 59–60; 2:37–38, 43; 178B16:3–7, 11; 17:5
 contrasting stratigraphic and deformational frame-
 work, 190A1:9
 core-log integration, 146A(1)7:366
 correlation, 157B28:480–482; 38:622; 161B44:560,
 569; 178B17:22; 185B8:2
 Costa Rica Margin, 170B4:11; 5:24–25
 cross sections, 189A1:73; 3:59; 5:62; 7:54
 crust, 152B39:466–469; 210A1:48–50, 51; 5:11–32;
 210B1:48
 Cyprus, 160B54:731
 debris flows, 127/128B(2)72:1140–1141, 1143
 Demerara Rise, 207A3:7–8; 207B1:18–20; 15:22
 deposition, 144B47:821–822; 175B(synthesis):57–58
 depth conversion, 149A4:105–106; 5:141–143; 6:202–
 203; 7:256–257; 164A6:135; 180A1:59; 6:223–
 224; 180B6:30; 7:27
 digital Parasound profile, 202A1:119; 4:20
 dolomite, 127/128B(2)72:1141, 1143
 drilling sites, 136A3:29, 31, 34; 139A1:7
 East Mariana Basin, 129B31:555
 East Santo Basin, 134A1:15
 EG63 transect, 163B1:7–13
 fault blocks, 139B33:567
 folding, 156A1:7, 9
 frontal thrust, 146A(1)6:280
 Galicia margin, 210B1:51
 geometry, 182A4:82; 5:59, 61–62
 Golfo de Penas, 141A3:29
 Gran Canaria, 157A2:17–21
 Greenland margin SE, 163X_A8:3
 guyots, 144B16:318
 Hydrate Ridge S, 204B1:27–28; 7:10; 9:15; 10:10
 Hydrocell-95 and Hydrocell-96, 168B2:9–19
 hydrothermal circulation, 169A1:10
 interval velocities, 177A8:66; 9:49
 Islas Orcadas Rise, 114B1:12–15
 Japan Trench, 186A1:22
 Juan de Fuca Ridge, 139A2:16–17, 19–20; 139B1:5–17;
 36:575; 44:696–701, 703; 168A1:13; 2:25, 29–
 30, 33
 Lau Basin, 135A(1)4:94–95; 135B56:909–921
 Limalok Guyot, 144B47:833
 limestone, 143B29:441–442, 444–445
 lithified layers, 175A16:498–500, 503
 lithofacies, 133B24:327–351; 161B25:336–338;
 178A5:100
 lithology, 157A7:386; 188B10:22–23
 location, 169A4:160; 179A5:23, 28
 Madeira Abyssal Plain, 157A1:6; 157B28:478
 Malakula Basin, 134A1:14
 Meiji Drift, 145B38:588
 Meteor Rise, 114B1:12–15
 Middle America Trench, 170A3:50, 89; 170B2:8;
 205A1:47; 205B1:4, 42; 6:18; 7:26, 33; 8:16;
 9:21; 10:7; 14:14
 multichannel reflection, 135B11:166
 Muroto transect, 190A1:52, 54
 New Hebrides island arc, 134B2:32

- New Jersey margin, 150A4:43–50
 Northern Barbados accretionary prism, 171B_A7:353
 Norwegian-Greenland Sea, 151B21:380
 ocean–continent transition, 149B47:724, 727
 opal-A/opal-CT transition, 127/128B(2)72:1141, 1143
 outer continental shelf, 178A2:41
 outer perimeter ridges, 144B15:297
 outer slope/upper shelf, 133B23:317
 paleoenvironment, 160B38:483–508; 53:710–715;
 189A3:18
 Palmer Deep, 178A7:30–33
 physical properties, 204A10:44
 Pigafetta Basin, 129B31:555
 Pleistocene seismic geometry, 133B23:315–325
 postdrilling interpretation, 189A1:77–80; 3:57; 5:60;
 6:65; 7:53
 postrift sequences, 149B38:606
 pressure-time traces, 148B26:350
 principal reflectors, 149A4:110, 143
 principal results, 188A1:19–20
 Pual Ridge, 193A1:35–36
 rough basement transect, 168A5:104
 sea levels, 150A2:15–16
 seamounts, 160B51:692–693; 53:710–715
 sedimentary features, 130B3:37–49; 131A2:18–20;
 161B44:562–565
 sedimentation, 149B41:651–653, 655–656
 seismic lines, 133A(1)1:11; 4:78; 5:143; 11:448–449;
 133B20:287
 seismic reflection, 133B25:356–357; 149A5:117, 119;
 6:149–150; 7:213, 215; 8:265–267; 180A2:6–7,
 17; 3:19–20; 182B1:22–23, 25; 188B1:30
 seismic stratigraphy, 132B1:3–13; 180B(synthesis):34;
 170A1:12–14; 194A1:67–68
 sequence stratigraphy, 174A_B(synthesis):2–5
 side-scan imagery, 195A1:36
 Site 418, 102A2:11–81
 Site 586, 130A10:516
 Site 698, 114A5:88, 90–91, 119
 Site 699, 114A6:152–153, 195
 Site 700, 114A7:258
 Site 701, 114A8:367, 408
 Site 702, 114A9:487, 511; 114B1:18–19
 Site 703, 114A10:553, 579
 Site 704, 114A11:625, 675; 114B3:40; 38:713
 Site 742, 188B8:15
 Site 801, 129A3:157; 185A1:42; 3:66
 Site 805, 130A7:227, 276
 Site 806, 130A8:295
 Site 808, 196A4:35
 Site 820, 133B12:165
 Site 822, 133A(1)15:621
 Site 823, 133A(1)16:687
 Site 830, 134A10:303
 Site 832, 134A12:392
 Site 835, 135A(1)5:188–189
 Site 836, 135A(1)6:254; 7:294–296
 Site 838, 135A(1)8:344–345
 Site 839, 135A(1)9:405–406
 Site 840, 135A(1)10:499
 Site 841, 135A(1)11:580–581
 Site 845, 138A(1)10:194
 Site 846, 138A(1)11:271
 Site 847, 138A(1)12:340
 Site 848, 138A(2)13:682–683
 Site 849, 138A(2)14:740
 Site 850, 138A(2)15:814
 Site 851, 138A(2)16:896
 Site 852, 138A(2)17:972
 Site 853, 138A(2)18:1028
 Site 854, 138A(2)19:1068–1069
 Site 855, 139A5:103, 107
 Site 856, 139A6:164, 169–171
 Site 857, 139A7:289, 292, 294
 Site 858, 139A8:435, 438–440; 169A4:159
 Site 859, 141A6:78
 Site 860, 141A7:161
 Site 861, 141A8:243
 Site 862, 141A9:306
 Site 863, 141A10:347
 Site 865, 143A6:119, 121, 169; 143B31:516–517
 Site 866, 143A7:191–193, 244–245; 143B31:510
 Site 869, 143A9:306–309, 359
 Site 871, 144A3:43, 49–50
 Site 872, 144A4:113–114
 Site 873, 144A5:153–154
 Site 874, 144A6:215, 217–218
 Site 878, 144A10:339–340, 343–344
 Site 879, 144A11:419–421
 Site 888, 146A(1)4:57–58, 60–63
 Site 889, 146A(1)5:130–133
 Site 891, 146A(1)6:243–244
 Site 892, 146A(1)7:303–305
 Site 897, 149A4:44–47, 105–106
 Site 898, 149A5:141–143
 Site 899, 149A6:202–203
 Site 900, 149A7:256–257
 Site 902, 150A6:66
 Site 903, 150A7:134
 Site 904, 150A8:210
 Site 905, 150A9:258, 264
 Site 906, 150A10:312
 Site 918, 152A11:190–191
 Site 919, 152A12:260
 Site 925, 154A4:61
 Site 926, 154A5:157
 Site 927, 154A6:235
 Site 928, 154A7:285
 Site 929, 154A8:341
 Site 930, 155A6:89–90
 Site 931, 155A7:125–126; 164
 Site 932, 155A8:177–178
 Site 933, 155A9:202–203, 231
 Site 934, 155A10:242–243
 Site 935, 155A11:275–276, 309
 Site 936, 155A12:323–324, 370
 Site 937, 155A13:385–386
 Site 938, 155A14:410–411, 435
 Site 939, 155A15:439
 Site 940, 155A16:465, 496
 Site 941, 155A17:504–505
 Site 942, 155A18:539, 565

Site 944, 155A20:626
Site 945, 155A21:637-638
Site 946, 155A22:686
Site 947, 156A5:73
Site 948, 156A6:91, 93
Site 949, 156A7:196; 254-255
Site 950, 157A4:53
Site 952, 157A6:137
Site 954, 157A8:398
Site 955, 157A9:436-437
Site 956, 157A10:500
Site 959, 159A5:68, 72-74; 159B22:228
Site 960, 159A6:157, 161
Site 961, 159A7:222-223, 225
Site 962, 159A8:258-259, 262; 159B22:238
Site 963, 160A4:57, 59, 61
Site 964, 160A5:90
Site 965, 160A6:126-127, 129
Site 966, 160A7:157-159, 162
Site 967, 160A8:218-220, 223
Site 968, 160A9:291-292, 294
Site 969, 160A10:339-340
Site 970, 160A11:379, 382
Site 971, 160A12:418, 421
Site 972, 160A13:453-454
Site 973, 160A14:467, 469
Site 974, 161A4:57-58, 116, 168
Site 976, 161A6:183-184, 277-279
Site 977, 161A7:302
Site 979, 161A9:392
Site 982, 162A4:126
Site 983, 162A5:165
Site 984, 162A6:206
Site 985, 162A8:284
Site 986, 162A9:329-330; 162B17:242
Site 987, 162A10:378-379
Site 988, 163A3:25
Site 989, 163A4:33
Site 990, 163A5:48
Site 994, 164A6:101-104
Site 995, 164A7:177
Site 996, 164A8:244-248
Site 997, 164A9:280
Site 998, 165A3:52
Site 999, 165A4:134-136
Site 1000, 165A5:235-236
Site 1001, 165A6:296-299
Site 1002, 165A7:364
Site 1003, 166A6:74, 111
Site 1004, 166A7:155, 168
Site 1005, 166A8:174, 202
Site 1006, 166A9:236, 265
Site 1007, 166A10:293, 326
Site 1010, 167A(1)4:53, 84
Site 1011, 167A(1)5:90, 120
Site 1012, 167A(1)6:133, 155
Site 1013, 167A(1)7:159, 174
Site 1014, 167A(1)8:181, 212
Site 1015, 167A(1)9:225, 237
Site 1016, 167A(1)10:243, 274
Site 1017, 167A(1)11:289, 309

Site 1018, 167A(1)12:316, 345
Site 1019, 167A(1)13:357, 375, 380; 167B11:174
Site 1020, 167A(1)14:393, 422
Site 1021, 167A(1)15:435, 459
Site 1022, 167A(1)16:465, 485
Site 1035, 169A3:40
Site 1040, 170A4:100
Site 1041, 170A5:155-156
Site 1042, 170A6:191-192
Site 1043, 170A7:245
Site 1043, 205A1:71
Site 1044, 171A_A3:23
Site 1045, 171A_A4:41
Site 1046, 171A_A5:61
Site 1047, 171A_A6:81
Site 1048, 171A_A7:96
Site 1065, 173A4:68-69
Site 1067, 173A6:109, 113, 157-158, 160-161
Site 1069, 173A8:223-224
Site 1070, 173A9:270
Site 1071, 174A_A3:82-84, 90
Site 1072, 174A_A4:132-133, 135
Site 1073, 174A_A5:181, 191
Site 1075, 175A3:56-63
Site 1078, 175A6:148-153
Site 1080, 175A8:206-208
Site 1081, 175A9:230-238
Site 1082, 175A10:499
Site 1084, 175A12:344-347
Site 1085, 175A13:387, 389-391
Site 1086, 175A14:432-437; 16:503
Site 1088, 177A3:18-20
Site 1089, 177A4:23-24
Site 1090, 177A5:29-30
Site 1091, 177A6:19-20
Site 1092, 177A7:21-23
Site 1093, 177A8:24-25
Site 1094, 177A9:18-20
Site 1095, 178A1:34; 4:44-46, 116-118; 178B24:12
Site 1096, 178A1:37; 5:39-40, 42, 100
Site 1097, 178A1:42; 6:23, 25-26; 178B(synthesis):34
Site 1098, 178A7:30-31, 74, 77
Site 1099, 178A7:32-33, 75-76, 78
Site 1100, 178A1:44; 9:29-31, 77
Site 1101, 178A1:39; 8:26-28, 61, 63
Site 1102, 178A1:44; 9:29-31, 76
Site 1103, 178A1:44; 8:29-31, 75, 78; 178B19:16-17;
22:14
Site 1119, 181A3:33-34
Site 1120, 181A4:26
Site 1121, 181A5:28
Site 1122, 181A6:39-41
Site 1123, 181A7:53-54
Site 1124, 181A8:43-44
Site 1125, 181A9:29
Site 1126, 182A4:47, 81
Site 1127, 182A1:56; 5:32, 60
Site 1128, 182A6:43, 83-84
Site 1129, 182A1:56; 7:31
Site 1130, 182A8:36, 66-68
Site 1131, 182A1:56; 9:29

- Site 1132, 182A10:37, 67
 Site 1133, 182A11:19
 Site 1134, 182A12:32, 55
 Site 1135, 183A1:67; 3:26, 43
 Site 1136, 183A1:68; 4:37, 80
 Site 1137, 183A1:73; 5:65
 Site 1138, 183A1:78; 6:67–68, 164–165
 Site 1139, 183A1:85; 7:64–65, 174
 Site 1140, 183A1:89; 8:38–39, 91
 Site 1141, 183A1:95; 9:44–45
 Site 1142, 183A1:95; 9:44–45
 Site 1143, 184A1:54; 2:12–16
 Site 1144, 184A1:57; 2:18–20
 Site 1145, 184A1:59; 2:22–23
 Site 1146, 184A1:61; 2:24–28
 Site 1147, 184A1:63; 2:31–34
 Site 1148, 184A1:63; 2:30–34
 Site 1149, 185A1:42, 50; 4:55–56, 60; 185B8:13
 Site 1150, 186A4:70
 Site 1151, 186A5:43–44
 Site 1152, 187A3:23
 Site 1153, 187A4:16
 Site 1154, 187A5:16
 Site 1155, 187A6:34
 Site 1156, 187A7:31
 Site 1157, 187A8:49
 Site 1158, 187A9:20
 Site 1159, 187A10:20–23
 Site 1160, 187A11:34
 Site 1162, 187A13:40
 Site 1163, 187A14:27
 Site 1164, 187A15:41
 Site 1165, 188A1:53–54; 3:11, 78–80; 188B1:40; 10:15
 Site 1166, 188A1:40; 4:49; 188B8:15; 10:16
 Site 1167, 188A1:47; 5:39
 Site 1168, 189A3:58
 Site 1169, 189A4:27
 Site 1170, 189A5:61
 Site 1171, 189A6:67
 Site 1172, 189A7:55
 Site 1173, 190A4:39
 Site 1179, 191A1:37; 4:56–60, 113–114
 Site 1180, 191A5:23
 Site 1181, 191A5:24
 Site 1182, 191A5:26
 Site 1183, 192A1:42; 3:47–48
 Site 1184, 192A1:51; 4:32–37
 Site 1185, 192A1:59; 5:31–34
 Site 1186, 192A1:64; 6:35–38
 Site 1187, 192A1:70; 7:18–20
 Site 1192, 194A3:58
 Site 1193, 194A1:82, 85; 4:33
 Site 1194, 194A1:80; 5:33, 85; 194B8:10, 15
 Site 1195, 194A6:30–31
 Site 1196, 194A7:45, 116–117; 194B5:25
 Site 1197, 194A1:81; 8:27, 62
 Site 1198, 194A1:83–84; 9:27, 55
 Site 1199, 194A7:45, 116–117; 194B5:25
 Site 1200, 195A1:37
 Site 1201, 195A1:48; 4:68–69, 157
 Site 1202, 195A1:62; 5:19
 Site 1203, 197A1:32; 3:143–146
 Site 1204, 197A1:50; 4:102–104
 Site 1205, 197A1:59; 5:28–29, 89–91
 Site 1206, 197A1:69; 6:93–95
 Site 1207, 198A1:100; 3:53
 Site 1208, 198A1:105; 4:35
 Site 1209, 198A1:109; 5:37
 Site 1210, 198A1:115; 6:32
 Site 1211, 198A1:119; 7:32
 Site 1213, 198A1:126; 9:40
 Site 1215, 199A8:23
 Site 1216, 199A9:17
 Site 1217, 199A10:23
 Site 1218, 199A11:41
 Site 1219, 199A12:43
 Site 1220, 199A13:33
 Site 1221, 199A14:26
 Site 1222, 199A15:19
 Site 1223, 200A1:60; 3:54; 200B1:24
 Site 1224, 200A4:68
 Site 1232, 202A1:117; 3:17
 Site 1234, 202A1:123; 5:19
 Site 1235, 202A1:125; 6:21
 Site 1236, 202A1:127; 7:25
 Site 1237, 202A1:129; 8:31
 Site 1238, 202A1:131; 9:29
 Site 1239, 202A1:133; 10:28
 Site 1240, 202A1:136; 11:24
 Site 1241, 202A1:138; 12:25
 Site 1242, 202A1:140; 13:22
 Site 1243, 203A3:33–38
 Site 1244, 204B4:11
 Site 1245, 204A4:41; 204B4:11
 Site 1246, 204A5:23
 Site 1247, 204A6:28, 31
 Site 1248, 204A7:27
 Site 1250, 204A9:34
 Site 1251, 204A10:44–45
 Site 1252, 204A11:25
 Site 1253, 205A1:54; 4:68; 205B2:15; 4:8
 Site 1254, 205A1:65; 5:44; 205B2:15
 Site 1255, 205A1:71; 6:24
 Site 1257, 207A1:83; 4:38
 Site 1258, 207A1:84; 5:42–44
 Site 1259, 207A1:85; 6:39–40
 Site 1260, 207A1:86; 7:40–42
 Site 1261, 207A1:87; 8:39–40
 Site 1262, 208A1:64; 3:26–27; 208B1:34
 Site 1263, 208A1:68, 71; 4:28–29
 Site 1264, 208A1:68, 71; 5:23–24
 Site 1265, 208A1:74; 6:35–36
 Site 1266, 208A1:77; 7:28–29
 Site 1267, 208A1:81; 8:29
 Site 1276, 210A3:307, 312–313; 210B3:19; 8:23; 14:21
 Site 1277, 210A4:34–35; 210B9:43
 Site GUATB-03, 206A1:53–54
 Sites 914–917, 152A10:160, 162–165; 13:281, 284;
 152B3:31–36
 Sites 980–981, 162A3:87
 Sites 1008–1009, 166A11:349, 370
 Sites 1023–1025, 168A4:51

- Sites 1028–1032, 168A6:163
 Sites 1054–1055, 172A3:71–74
 Sites 1056–1059, 172A4:155–156
 Sites 1063–1064, 172A6:305–306, 308
 Southern Ocean, 114A4:73–84
 structure, 140A2:95; 168B2:14–15; 169S_A2:19;
 190A1:80
 submarine canyons, 150B15:286–287
 superimposed synthetic trace, 178B17:24
 synthetic seismograms, 188B10:1–28
 Taitao Ridge, 141A9:306
 tectonics, 133B27:394–396; 134B1:5–18; 135B2:9–21;
 141B3:31; 161B26:348–354; 204A1:52
 thrust faults, 146B(1)23:361, 415
 time and depth sections, 178B19:30
 Tonga forearc, 135B56:917
 tracks, 172A5:249–250
 Transect EG64, 163X_A7:8–10
 Transect EG65, 163X_A6:27–32
 Transect EG66, 163X_A5:9
 Transect EG68, 163X_A4:17–19
 transects, 163A1:10, 12
 transform faults, 159A1:7–10; 3:50, 53–57
 traveltime, 141A6:137; 145A3:79; 4:119; 5:193; 7:334;
 8:386
 U-reflection, 210B1:54
 unconformity correlation, 150B16:293–307
 velocity, 146B(1)21:337–348
 vs. depth, 145A6:288; 171A_B2:12; 180B9:28
 vs. lithology, 191A4:39–40
 vs. physical properties, 114A5:120; 7:293; 8:406;
 10:578
 vs. synthetic seismograms, 146A(1)4:109; 178A7:23
 vs. two-way traveltime, 180A9:162; 12:159, 162;
 194A4:90
 walkaway profiles, 146B(1)21:340–343
 Walvis Ridge, 208A1:55
 Wodejebato Guyot, 144B14:272–273
 Woodlark Basin, 180A1:35–38
See also Pasisar system; seismic-lithologic correlation;
 seismic lines; seismic reflection; seismic reflectors;
 vertical seismic profiles; Woods Hole Oceanographic Institution vertical seismic profile tool
 seismic profiles, composite, 178B17:28
 seismic profiles, depth-migrated
 basement tectonics, 149B38:610–613
 reflection, 135B21:331–365
 Site 860, 141A7:229
 seismic profiles, digital reflection, 178A4:35–36
 seismic profiles, high-resolution, 208B6:1–27
 seismic profiles, multichannel
 acquisition parameters, 178B16:23
 seismic reflectors, 180B5:6–13
 seismic profiles, reflection
 A-reflector, 123B37:684
 accretionary wedges, 146A(1)10:400–403
 Afanasiy-Nikitin seamounts, 116B23:282–283
 analog seismic data, 108A14:964–967, 1002–1003
 arc margins, 126B38:557, 559
 Atlantic Ocean E tropical, 108A2:36–38, 56; 3:107–
 109, 134; 4:225–226; 5:331–334; 6:412, 424,
 430; 7:490; 8:558–559; 9:622–623; 14:949–951,
 961–962, 968–971, 973–987
 B-reflector, 123B37:684
 Baffin Bay, 105B6:74; 7:83; 48:904
 basalts, 121A10:295–296; 12:421–422
 basement, 105B48:896–897; 116A1:8; 7:199;
 116B24:294, 295; 125B1:8; 14:276; 126A1:6–7
 Bengal Fan, 116A1:6; 4:48; 5:98, 133, 206–207; 6:158,
 166, 182, 184; 15:166; 16:204; 18:214; 25:314;
 28:346; 29:365; 31:379; 32:404, 407, 409–410
 blue reflector, 123A5:338
 bowl-shaped structures, 108A3:131, 133
 Broken Ridge, 121A1:9; 2:33; 3:63–68; 13:459;
 121B13:262; 24:469; 33:673, 677; 34:682–683;
 36:723; 37:748–752, 755–759; 44:934
 C-reflector, 123B37:684
 Cagayan Ridge, 124B4:57
 Celebes Sea, 124B4:58
 Chile margin, 141A4:34
 closely spaced reflectors, 105B48:893
 composite diagrams, 105B48:895
 conglomerate–nannofossil claystone transition,
 126A6:99
 Conical Seamount, 125A4:75–77
 crossrift profiles, 126B38:560–561
 data acquisition and processing, 102A1:5; 2:7–8, 11–
 83; 3:103, 107–112; 102B1:3–17; 2:21; 11:164;
 126A3:50; 127A3:61–63
 décollement, 131B29:366–367
 deformation, 131A2:16–18
 depth conversion, 116B25:312, 313
 dipping and truncated sequences, 121A6:153, 156;
 8:226, 254–255; 121B37:743–744
 double reflectors, 108A5:329
 echo characteristics, 105B48:898–901
 Eirik Ridge, 105B51:969, 983
 Eocene angular unconformity, 121A7:186; 9:254–255
 Eocene–Miocene basement highs, 105B48:901
 Exuma Sound analog, 101A2:31
 faults, 139B37:590
 forearcs, 126A4:51–52
 Ganges-Brahmaputra river system, 121B39:825
 gas hydrates, 131A6:250
 Gloria Drift, 105B51:973–974, 983
 Great Isaac 1, 101B27:428–433, 435
 green reflector, 123A5:338–339
 high-resolution methods, 105B32:602
 Iberia W, 149A3:35–37
 Indian Ocean NE, 116B22:263; 23:282
 integration with core and log data, 146A(1)6:281–282
 intrabasement correlation, 123B31:567, 577
 Izu-Bonin forearc, 125B14:271; 126B42:630, 634,
 636–637
 Japan Sea, 127A1:14; 128A1:13
 Kerguelen Plateau, 119A2:7; 120B(2)48:895
 Kerguelen Plateau/Broken Ridge breakup,
 120B(2)51:939
 Kerguelen sediment ridge, 119A3:45; 14:535, 550
 Kita-Yamato Trough, 127/128B(2)72:1137–1139

- Labrador Sea, 105B48:896, 906–907; 51:960, 966, 968, 972; 52:999, 1001
- Lau Basin, 135B56:909–921
- limestone, 121A8:226; 10:293
- limestone–ooze transition, 121B34:682
- lithofacies, 131B7:85
- Mariana forearc, 125B1:6
- Miocene interval, 121A7:186
- nannofossil ooze, 121A10:293, 295–296
- Ninetyeast Ridge, 121A2:33; 5:93–94, 98–100, 103–104, 106–107
- Oligocene, 126B11:417, 419
- ooze–chalk transition, 121A12:414
- orientation, 134B24:433–434
- Pacific Ocean E, 138A(1)3:43–54, 56–63; 138B24:538–539
- paleolatitude, 120B(1)7:95
- pelagic caps, 121A6:153, 185–186; 8:225–226, 233; 121B37:747
- physical properties, 139B37:585–596
- piercement structures, 105B48:896
- Pliocene, 105B51:966
- porcellanite, 121A4:79, 156
- Prydz Bay, 119B2:9
- rift basins, 126B38:569
- sediment/basalt contact, 121A2:414
- seismic line section, 105B48:896
- seismic reflectors, 105B48:896, 900–901; 51:968, 970, 980, 983, 985; 52:997; 108A3:129; 5:346; 116A4:79, 89; 5:131; 6:181–182, 185; 7:200, 203, 208; 116B32:405, 406–409; 123A5:338; 127/128B(2)72:1140–1142; 130A9:457; 10:502, 505, 507
- seismic units, 105B48:900–901
- shipboard data, 131A3:22
- Sierra Leone Rise, 108A10:744–746; 11:792–794; 12:835–836; 13:932–933; 14:950–951, 987–1001
- single channel in oceanic plateaus, 130A3:45–75; 4:77–97; 130B3:35
- Site 261, 123A2:16
- Site 736, 119A3:45; 5:124, 126–127, 154
- Site 737, 119A3:45; 6:160–161
- Site 738, 119A3:45; 7:230–233
- Site 739, 119A3:45; 119B1:19
- Site 740, 119A3:45; 9:373–374
- Site 741, 119A3:45
- Site 742, 119A3:45; 119B1:19
- Site 743, 119A3:45
- Site 744, 119A3:45
- Site 747, 120A6:91, 147; 120B(1)1:18–19; (2)47:882
- Site 748, 120A7:158; 120B(1)1:20
- Site 749, 120A8:239; 120B(1)1:20
- Site 750, 120A9:279; 120B(1)1:21
- Site 751, 120B(1)1:22
- Site 752, 121A6:114
- Site 753, 121A7:185–186, 189
- Site 754, 121A8:194
- Site 755, 121A9:240, 256–257
- Site 756, 121A10:300–302
- Site 757, 121A11:354–356, 358
- Site 758, 121A12:444–447
- Site 765, 123A2:16; 4:68
- Site 766, 123A16–17; 123B43:807
- Site 778, 125A3:43, 45
- Site 780, 125A3:45–47
- Site 781, 125A3:42–45, 48–53; 9:180; 125B16:294
- Site 782, 125A3:45, 55–57
- Site 783, 125A3:45, 58–61; 5:85
- Site 785, 125A3:45, 62–64
- Site 786, 125A3:46, 65–67; 125B35:587
- Site 787, 126A3:46–47; 10:409
- Site 788, 126A3:47; 11:417
- Site 789, 126A3:48–49; 11:417
- Site 790, 126A3:44, 46, 48–49; 6:120–130; 11:417
- Site 791, 126A7:129–130; 11:417
- Site 792, 126A10:409
- Site 793, 126A10:409; 126B39:589
- Site 794, 127A4:68, 84, 86–87, 153; 127/128B(1)7:111; 69:1079; 128A3:83
- Site 795, 127A5:181, 183–184, 241–243
- Site 796, 127A6:258, 260–261, 311–312
- Site 797, 127A7:337–338, 340–341, 409
- Site 798, 127/128B(1)23:395; 24:410; 128A4:135, 218–223
- Site 799, 127/128B(2)72:1137–1139; 128A1:23; 5:254–255, 260, 375–379
- Sites 891–892, 146A(1)9:393
- smooth-to-rough changes, 105B48:909
- stacked profiles, 105B48:905
- stratigraphic correlation, 116A5:133, 135–136
- structure, 125A3:42; 126A3:43–46; 126B38:564; 42:629; 129B31:551
- Sulu Sea, 124B12:342
- Sumisu Basin N, 126B38:572
- Sumisu Rift, 126A4:52; 126B37:557
- synrift sequences, 126A3:44, 46
- synthetic seismograms, 105B51:961–962; 120B(2)49:913; 125B35:585–586; 127/128B(2)72:1142
- tectonics, 135A(1)4:93–9
- traveltime, 136B8:100
- trench wedges, 131B6:77
- underway geophysics, 143A3:32–33
- Vema* profile 3014, 108A2:38
- volcanic ash, 121B37:744
- vs. clay mineralogy, 105B6:72–73; 20:331–333; 51:974, 980
- vs. depth, 146A(1)8:388
- vs. two-way traveltime, 146A(1)8:384–385; 10:404
- vs. vertical seismic profiles, 126A8:314; 126B39:578–579, 583–584
- vs. well-logging, 105B38:770; 119B1:10
- Yamato Basin, 127/128B(2)73:1149
- seismic profiles, refraction
- lithology, 105B48:901, 903
- Yamato Basin N, 128A3:112
- seismic profiles, vertical
- break times and depth, 180A12:212
- check shot data, 180A12:213; 180B5:3–4
- depth, 128A5:371–372; 164A7:206–207; 180A6:220; 12:160
- energy source, 128A5:342

- experimental design, 128A5:370; 164A6:135–136;
 9:305–306
 lithology, 180A1:28–29
 operations, 128A5:343
 preliminary plot, 131A6:243
 reflectors, 164B27:269–270; 204B25:14, 18, 20
 schematic diagram, 131A6:242
 seismostratigraphic units, 178A4:36–38
 Site 799, 128A5:342–343
 Site 808, 131A6:202–203
 Site 948, 156A6:167–169; 156B20:260–261
 Site 949, 156A7:246, 249–252
 Site 1109, 180A6:76–79, 219, 296–297
 Site 1115, 180A9:59–61
 Site 1118, 180A12:52–53
 spacing, 133A(1)13:536–537
 spectra, 204B25:13
 surveys, 204B24:4
 tie to two-way traveltime, 178B17:23
 two-way traveltime vs. depth, 204B25:15, 19, 21
 upper oceanic crust, 148B25:339–347
 velocity, 131B17:213; 32:411–422; 156B21:263–275;
 204B25:16
 well-logging, 156B20:259–261
 seismic profiles, water gun, 133A(1)6:182; 7:209
 seismic properties
 lava, 152B38:453–462
 peridotites, 147B19:352
 serpentinites, 195B11:1–12
 seismic recorders. *See* sonobuoy seismic recording
 seismic records, synthesis, 195A4:146
 seismic reflection
 accretionary prisms, 156A2:16–22, 24, 26–27
 acoustic basement, 165A4:133–135
 basement, 168A4:51; 173A1:8–12, 16–18; 183A6:61
 bottom-simulating reflectors, 164A4:48–49
 Celebes Sea, 124A13:382
 conjugate, 210A1:43–44
 correlation, 172A3:72; 4:143, 146; 5:245–247; 6:304–
 306; 185B8:4–8
 décollement zone, 156B23:293–302; 171A_B3:3–4, 8;
 156B23:300–301
 deformation, 190/196B1:4–5
 dip, 210B3:24
 drilling, 200B1:4
 echo sounders, 200A1:38; 3:45–48; 200B1:37–38
 geology, 195A1:15–16
 geometry, 188B14:4
 high-resolution, 165A5:234
 intravolcaniclastic, 192A4:23–24
 Layer 3, 176B5:3–4
 lithology, 155A22:686; 194B5:34
 marine gas hydrates, 164A1:5
 multichannel, 207A3:1–8
 negative polarity, 190/196B15:1–16
 Norwegian-Greenland Sea, 151A3:47–48
 physical properties, 159B22:225–240; 190/196B12:1–
 18
 predicted depths, 210A1:77
 prestack depth migration, 173A6:157–158
 profiles, 187A3:9; 5:5; 6:8; 8:9–10; 10:4–5; 11:11
 red clay province, 200A1:17–18
 reflection polarity, 146B(1)23:361–362, 366;
 149B39:625–627
 SCREECH transect 2, 210A5:4–5, 11–32; 210B3:19
 seismic facies, 166A6:110
 seismic lines, 190A4:92; 5:86
 seismic-log correlation, 157B28:473–498; 171A_B3:4–
 5
 seismic profiles, 162A6:206; 163X_A4:2–4
 seismic surveys, 170A1:9–10, 12–14
 seismic units, 162A4:126
 sequence stratigraphy, 166A2:19; 3:36–37
 Shatsky Rise, 198A11:1–21
 Site 1276 comparison with Iberia margin, 210A1:24–
 28
 Sites 1023–1025, 168A4:53
 Sites 742 and 1166 correlation, 188B8:16
 Sites 980–981, 162A3:87
 stratigraphy, 199A4:4–7
 structural geology, 156B22:280–281
 structural subdivisions, 190A2:3–5, 13
 Sulu Sea, 124A11:274–276
 summary, 184A2:1–37; 200A4:59–63
 surveys, 188B10:3–4
 synthetic seismograms, 139B37:591–592;
 143B19:305–315; 183A5:158; 7:56; 8:29
 tectonics, 207B1:4–5
 time-depth of top of cored section, 210B14:9–10
 transform faults, 159A3:49–51; 4:61
 transition zones, 210A1:7–10
 traveltime vs. lithology, 191A4:156–157
 two-way traveltime, 168A5:105; 6:164
 velocity, 164A7:206–207
 volcanic aprons, 157B1:3–9; 2:11–27
 volcanic stratigraphy, 163B1:3–16
 vs. depth, 174A_A5:184–186
 vs. synthetic seismograms, 210A3:311
 well-logging, 196A1:7, 11; 3:3, 27–28; 4:3–4
 See also seismic stratigraphy; upper opaque unit; up-
 per transparent unit
 seismic reflection, three-dimensional
 fault planes, 156A1:3–5; 2:18–22
 inversion, 190/196B12:5–6
 stratigraphy, 190A6:61; 7:54; 8:56; 9:27
 tectonics, 190A2:3, 14; 190/196B12:4–5
 vs. depth, 190A9:63
 seismic reflection coefficient
 cores, 151A6:149–150
 gas hydrates, 146B(1)9:167–168
 properties, 151A8:261; A9:305–306
 seismic stratigraphy, 151A7:206–207
 Site 799, 127/128B(2)72:1138–1141
 synthetic seismograms, 162A4:127; 9:330
 vs. depth, 141B18:248; 143A7:250; 151A5:105; 6:151;
 156B20:259; 162A6:207; 183A3:42; 4:79; 5:156–
 157; 6:162–163; 7:162–173; 8:89–90
 vs. traveltime, 157B28:486; 159B22:229, 236, 240
 vs. two-way traveltime, 151A5:106; 6:152
 well-logging, 151A5:95
 See also bottom-simulating reflectors

- seismic reflection coefficient logs
 correlation, 186A4:56–57
 downcore impedance, 204B8:8, 27
 vs. depth, 185B8:11; 207A4:76; 5:84; 6:76; 7:79; 8:75;
 188A3:171
- seismic reflection events. *See* seismic reflectors
- seismic reflection packets
 channel-levee systems, 155B2:14–15
 correlation, 155B40:631, 664
 grain size, 155B3:50–51
 lithofacies, 155B2:29–30
 lithology, 155A11:308, 310, 362–363
 stratigraphy, 155B2:30–32
- seismic reflection profiling. *See* seismic profiles
- seismic reflection surveys
 3.5-kHz experiment, 200A1:17–18, 58–59
 4-kHz drilling hole, 200B6:1–17
 seismic profiles, 197A3:46–47; 5:28–29; 6:24–25;
 197B6:1–17
 See also echo sounders; subseafloor reflections
- seismic reflector zone, landward-dipping
 geology, 190A1:7
 structural subdivisions, 190A2:5
- seismic reflectors
 accretionary wedges, 110B14:222–223; 15:225
 acoustic impedance, 138A(2)13:711–714
 age, 105A4:141–142; 194A3:71; 4:107; 5:98; 6:85;
 7:138; 8:77; 9:68
 Armorican margin, 103A5:95; 103B41:750
 Baffin Bay, 105A4:92; 105B7:90
 Barbados Ridge accretionary complex, 110A1:10;
 4:116–120; 6:315–317; 8:491; 110B3:20, 22, 25;
 14:213
 basalts, 152A13:280–281
 basement, 105A6:728; 149B38:607–608
 Bay of Biscay, 103B41:750
 boundaries, 113B3:33
 Cagayan Ridge, 124A12:335–338; 124B31:410
 carbonate platforms, 103B2:15, 17, 20; 144B14:287
 Ceara Rise, 154A3:44–49
 Celebes Sea, 124A10:179–181; 13:382
 compressional wave velocity, 105A6:719
 coring, 102B2:21, 24
 correlation, 129B29:513
 Costa Rica Rift, 111A2:24–25
 crust, 152B39:469–472
 crust/mantle boundary, 173A7:217
 dating, 113A5:108; 6:207–208, 216; 7:316–317;
 8:357–358, 385; 9:470–471; 11:631
 décollement, 110A1:10; 6:345–346
 depth, 143A6:169; 10:360–763; 149A4:110; 5:142;
 6:203; 7:258; 181A3:86
 diagenesis, 113B3:32–33; 196A1:13
 distribution of inclined sequence, 149A5:119
 dolostone, 175A21:560
 Eirik Ridge, 105A5:422
 Exuma Sound, 101A10:407, 409; 101B28:453; 29:464
 fault disruptions, 105A4:67
 frontal thrust, 146B(1)22:354–355
 Galicia Bank, 103B45:826
 Galicia margin, 103A1:7, 9, 13, 15–17; 5:88–89, 92,
 95; 8:151–154, 157, 161–162; 9:259, 267–269,
 272, 276, 278, 286–287; 10:436–437, 444–445,
 449; 12:592, 596–597, 602; 103B2:18–19, 27;
 4:37, 39, 41–42; 11:172–173; 14:226; 28:478;
 31:533–534, 536, 544–547, 550–551; 35:589;
 39:700–701, 712; 41:745, 750, 753; 45:816–817,
 824, 826
 gas hydrates, 113B3:33–35; 164B1:8; 3:30, 34–35;
 26:260; 28:273–281
 Grand Banks, 103B44:796, 802
 gravel, 161B44:574
 Greenland margin W, 105A4:135, 145
 high-amplitude and low-frequency, 104A4:207–209
 ice-shelf formation, 113B9:125
 identification, 103A9:269
 impedance, 184A2:3
 Inline 215, 190/196B15:16
 integration with site observations, 149A4:105–106
 interval velocity, 171B_A6:293–295
 intracrustal rifting, 161B44:573
 Kerguelen Plateau, 120B(2)47:884; 48:895
 Labrador Sea, 105A6:676
 limestone, 143B21:438–441
 listric fault model, 104B48:979–981, 983
 lithology, 152B1:15–16; 157B1:5–7; 162B10:164–165;
 163A1:5–13; 175A16:498, 500, 503; 188A3:67–
 68; 188B10:8–11
 location, 103A10:411–412; 12:572; 105A4:146–148;
 5:425; 6:680–684, 731–733; 110A9:538;
 110B1:3; 2:7
 Luzon Strait, 124E_A15:99
 mass accumulation rates, 157B38:628
 mass flow units, 160B37:465–465
 merged carbonate, grain size, and acoustic impedance
 vs. depth, 130A8:345
 Messinian, 160A17:515–516; 160B36:459–460
 Meteor Rise, 114B1:6–7, 9–11, 17
 mid-Pleistocene transition, 172A7:314, 317–318
 Miocene/Pliocene boundary, 161B42:538–539
 multichannel lines, 150A9:300
 Neogene, 104A4:207; 150B14:269–281
 Newfoundland/Flemish Basin, 103B43:782
 Northeast Georgia Rise, 114A5:100, 113; 114B2:26–
 27, 29, 37
 Norwegian Sea, 104A4:54–55, 179, 181, 199–204
 observations, 159A5:72–74; 6:160
 Oligocene–Miocene interval, 150X_B1:7
 origin, 188A3:67–68
 paleoceanography, 130A10:534; 138B24:544–547
 paleolatitude, 120B(1)7:95
 peridotite ridges, 103B41:750
 periplatforms, 165A5:234
 physical properties, 104A5:502
 plate tectonics, 173A1:17, 23
 sedimentary rocks, 149B18:350
 sedimentation rates, 155B3:47
 sedimentology, 113B8:113
 sediments, 152A5:50–51; 184A1:7–8; 2:1–37;
 188A1:10–11

- seismic stratigraphy, 105A5:484–487; 120A6:143;
7:225–227; 157A7:385; 159A7:225; 161B25:338;
165A3:50–51; 6:294, 348
- seismic surveys, 143A6:157–158
- seismic units, 161A6:248, 250; 161B5:72; 181A8:88
- seismograms, 138A(2)18:1046
- sequence stratigraphy, 150B5:68–69; 152A1:6–9
- Site 418, 102A3:108; 102B1:4–9
- Site 701, 114A8:405
- Site 703, 114A10:572, 579
- Site 704, 114A11:666, 668; 114B35:664
- Site 747, 120A5:82; 6:91; 120B(1)1:22
- Site 748, 120A7:158; 120B(1)1:23; (2)48:900–902
- Site 749, 120A8:240, 270–273; 120B(1)1:24
- Site 750, 120A5:82; 9:280, 329–330, 332; 120B(1)1:26
- Site 751, 120A10:340, 366
- Site 803, 130A10:163–165
- Site 804, 130A11:214–215
- Site 805, 130A7:267, 273–277
- Site 806, 130A8:337–338, 343–352
- Site 846, 138A(1)11:321
- Site 866, 143A7:244–245
- Site 869, 143A9:360
- Site 902, 150A6:111–115
- Site 903, 150A7:184–188
- Site 904, 150A8:241–243
- Site 905, 150A9:293, 296–297, 299
- Site 906, 150A10:338–344
- Sites 805–806 correlation, 130A10:519; 130B44:719
- sources, 110A6:349
- spectral modeling, 164B27:268–269
- strength, 113A9:470–471; 11:631; 12:716–717;
113B3:35
- strike-slip faults, 161B44:569–570
- strontium isotope stratigraphy, 150B6:107–112
- structures, 105A5:422; 160A14:466–467
- subbasalt, 130B2:23–31
- submarine canyons, 150B15:286–292
- Sulu Sea, 124A11:276–277
- summary, 181A6:83
- synrift magmatism, 173A1:10–11
- synthetic seismograms, 120A6:143; 120B(2)49:913;
151A5:106; 6:150, 153
- thicknesses, 105A5:422
- thrust faults, 110A7:394–402
- traveltime, depths, and ages summary, 130A7:274;
9:461; 138A(2)13:730; 14:789; 15:859; 17:1006;
18:1059; 138B24:546
- two-way traveltime, 113B3:34; 4:45; 8:113
- unconformities, 113B3:27–28; 4:44–45; 150B2:27–28;
16:293–307; 157B2:27; 161B26:348–349
- velocity, 105A5:487; 152A10:159–160
- vertical incidence profiles, 176A1:25
- volcanism, 198A11:3
- Vøring Plateau, 104A1:9, 12, 14; 4:83, 111; 7:752
- vs. age, 138B24:550
- vs. chloride, 204A3:61
- vs. chronostratigraphy, 172A6:317
- vs. depth, 105A4:136; 5:487; 6:680–681; 113A5:107–
108; 6:207–208; 8:358; 10:542–543, 550;
11:631; 150A7:162; 172A7:317
- vs. lithology, 143A7:244–245, 251
- vs. traveltime, 130A9:460; 159A5:74
- See also* Merlin reflector; seismic profiles
- seismic reflectors, acoustic, 130B44:715–718
- seismic reflectors, bottom-simulating
- Cascade accretionary prism, 146B(1)33:457–463
- causes, 167A(1)13:372
- gas hydrates, 146B(1)9:167–168, 171; 10:175–187;
25:382–383; 164B28:273–281; 167B32:352–354
- structure, 113B2:17, 22–23
- thermal structure, 146B(1)19:302–306
- seismic reflectors, color-coded
- blue, 154A3:46
- orange, 154A3:47–48
- purple, 154A3:47
- red, 154A3:45
- yellow, 154A3:46
- seismic reflectors, high-amplitude
- grain size, 155B3:50–51
- models, 155B41:664
- seismic Reflectors R0–R7
- boundary, structure, 105A5:422–425, 495–496; 6:681,
725–726, 72
- compressional wave velocity, 162A3:83
- core data, 162A8:282–283
- correlation, 162A5:160, 164–165; 6:198–199
- grain size distribution, 162B17:239–240
- mass accumulation rates, 157B38:628
- observations, 159A5:72–74
- sediments, 162A8:277; 9:321, 322, 325; 10:368, 370,
372; 162B17:240–243
- seismic stratigraphy, 132B1:3–9; 162A3:85, 87–88;
4:125–129; 6:205; 8:280; 165A3:51, 234–236
- structure, 105A1:15; 4:64–65, 68, 131, 133–139, 148–
149; 6:724–725
- synthetic seismograms, 162A6:207–208
- seismic reflectors structure
- dipping, 120B(1)7:95
- intrabasement, 103B44:798
- intrasedimentary, 104A4:205–206
- landward-dipping, 163B1:13–14
- low-frequency, 111A2:26
- mid-basin, 178A7:76
- seaward-dipping, 152A1:6–16; 152B39:470–501;
41:506–528
- strong, 104A4:203–204, 208–209
- weak, 104A4:203, 208
- seismic refraction
- air guns, 129B31:552
- crust and mantle, 134B31:549–563; 195B2:22
- ocean–continent transition, 149B47:724–725
- seismic surveys, 170A1:9–10
- seismic refraction profiles, velocity models, 209A1:82
- seismic refractors, Galicia Bank SW, 103A5:85
- seismic sections
- accretionary prisms, 146A(1)11:424–425
- buried reefs, 133A(1)1:20
- carbonate platforms, 133A(1)1:24; 8:246
- Chile triple junction, 141B20:262
- continental margin, 150B20:372–373
- continental slope, 146B(1)15:260

- correlation, 133A(1)6:201; 10:401; 15:671; 16:750;
18:808; 133B24:330, 332
- fans, 188B14:21–26
- gas hydrates, 146B(1)9:166–168, 170–173
- geotechnical properties, 150B21:378
- Iberia W, 149A3:35–37
- listric normal and thrust faults, 171A_B3:23
- lithology, 133A(1)7:238; 9:339; 10:362; 17:800
- marker reflectors, 130A10:515
- Nankai Trough, 196A1:19–21
- Ontong Java Plateau, 130A1:7; 3:48
- seismic reflectors, 133A(1)4:131–132; 134A2:24, 26
- Site 811, 133A(1)4:86
- Site 812, 133A(1)5:171–171
- Site 815, 133A(1)8:248
- Site 817, 133A(1)10:348
- Site 819, 133A(1)12:455
- Site 824, 133A(1)17:799
- Site 891, 146A(1)9:393
- Site 892, 146B(1)19:300
- Site 896, 148A3:126
- stratigraphy, 194A1:72; 194B2:14–15, 30–31
- summary characteristics, 133B24:333
- synthetic seismograms, 133B24:331; 151A8:261–262;
186A4:155–156
- temporal subdivision, 133B15:199
- two-way traveltime, 197B6:10–15
- Vancouver Island margin, 146A(1)10:407, 409
- vs. depth, 171A_A5:56
- seismic sections, analog, seismic units, 178A4:36–38
- seismic sections, digital, seismic stratigraphy, 178A9:23
- seismic sections, multichannel
 - accretionary wedges, 131B8:105
 - deformation front, 131B17:213
 - lithology, 131A6:74
 - vs. two-way traveltime, 206A4:14–21, 26–33, 38–45
- seismic sections, synthetic, wave modeling, 131B6:80–82
- seismic sequence boundaries
 - age, 166A2:20; 3:37; 166B16:168–169
 - boundary timing, 166A2:19–20; 3:25–26
 - chronostratigraphy, 166B16:168–169
 - correlation, 166A11:372
 - highstands, 166B5:46–47
 - seismic stratigraphy, 166A6:107–108, 114–115; 7:167;
8:206; 9:264–267; 10:325, 327–328; 11:371
- seismic sequences
 - carbonate stratigraphy, 166A2:19; 166B17:179–180
 - chronostratigraphy, 166A3:38
 - continental slope, 152B1:7–17
 - correlation, 166A9:265; 182A6:37–39, 86; 8:30–32,
70; 10:31–33, 69; 12:27–29, 58
 - Cretaceous, 182A4:42
 - depths, 182A6:113; 8:98; 10:87; 12:57, 80
 - geometry, 166A3:25–26
 - Greenland Margin NE, 163B1:3–16
 - lithology, 174AXS_A7:11–13
 - Pleistocene–Holocene interval, 166A11:371–372
 - schematic diagram, 182B1:20
 - sediments, 166A11:372; 178A2:14–15
 - seismic stratigraphy, 166A3:25, 37; 6:112–115; 7:166–
167; 9:264, 266–267; 10:325, 327–328;
 - 178A9:24; 178B(synthesis):6–9, 23; 16:4–6, 13;
19:9; 22:14–15
- Sites 1276 and 398 comparison, 210A1:24–28
- sketch profile of Prdyz Bay, 188A1:37
- summary, 182A1:19; 4:40–42; 5:27–28
- tectonic evolution, 204B2:1–29
- time-depth conversion, 166A6:114; 7:166–167, 169;
8:205; 9:266; 10:326
- transition zones, 210A1:7–10
- vertical seismic profiles, 178B17:23
- volcanostratigraphy, 163B1:5
- vs. age, 182A4:84
- vs. biostratigraphic hiatuses, 182A4:84; 8:70
- vs. depth, 182A4:83; 5:63–65; 8:69
- vs. lithology, 182A4:84; 5:66–68; 8:70
- See also seismic megasequences
- seismic Sequences 1–7
 - aggradational deepwater, 182A2:10; 182B1:5
 - aggradational shelf, 182A2:11–12; 182B1:6
 - deepwater carbonate lobes, 182A2:6; 182B1:5
 - deepwater drape, 182A2:14
 - Little Barrier Reef, 182A2:6–8
 - lowstand debris apron, 182A2:10
 - middle Miocene carbonates, 182A5:8
 - middle upper Eocene–lower middle Miocene interval,
182A1:4
 - middle upper Eocene–Oligocene interval, 182A1:4
 - Paleocene–middle Eocene interval, 182A1:4
 - Pliocene–Quaternary interval, 182A1:5
 - progradational carbonate shelf, 182A2:6–8; 182B1:5
 - progradational outer shelf–shelf edge–upper slope,
182A2:12–14; 182B1:6
 - progradational siliciclastic wedges, 182A2:6; 182B1:5
 - Quaternary, 182A1:30
 - sediments, 182A1:16–19, 28, 33, 36, 38–39, 42; 4:40–
41; 5:27–28; 6:37–38; 8:31–32; 10:32–33; 12:27–
29
 - upper middle Miocene, 182A1:4; 182B1:5
 - upper Miocene, 182A1:4
 - upper Miocene–lower Pliocene, 182A1:30
 - uppermost Miocene–lower Pliocene, 182A1:4
 - uppermost Quaternary, 182A1:5; 182B1:6
- seismic signature, deep sources, 200B1:6
- seismic source
 - effect of ship's hull, 148B26:349–352
 - wavelets, 210B14:9, 26
- seismic stations, location, 195A1:46
- seismic stratigraphic tool string logs
 - Site 840, 135A(1)10:550
 - vs. depth, 135A(1)8:384; 9:470–471
- seismic stratigraphy
 - accretionary prisms, 112A4:72
 - acoustic correlation, 101A9:354–355, 362; 10:406–
407, 412–413; 11:452–453, 462
 - acoustic units, 107B38:623, 626
 - Aeolian arc, 107A2:21–22
 - air gun vs. water gun results, 118B10:224
 - Amazon Fan, 155A1:13–14
 - angular unconformities, 112A4:75; 15:474
 - Apenninic margin, 107A2:19; 107B38:621
 - Aptian–Cenomanian interval, 123B31:572, 579

- Atlantic Ocean E tropical, 108A2:32–33, 48–49; 3:131, 133; 4:250; 5:354–356; 6:424; 7:499, 506
- Atlantis II Fracture Zone, 118B21:372–373
- Baffin Bay, 105B51:975–976, 978–979
- Barremian–Aptian unconformity, 123B31:572
- Barremian sequence, 123B31:571–572, 578
- basement, 107A7:319; 117A5:61; 119A7:276–277; 119B2:18, 22; 124A10:180–181; 127/128B(2):47:779
- bathymetry, 101B26:393–394, 398–399, 407
- bottom current influence, 119A14:525, 526, 530
- bottom-simulating reflectors, 112A4:73; 112B32:518–519; 525; 44:657
- brittle-ductile deformation zones, 118B26:507
- Cagayan Ridge, 124A4:44–45, 69, 83–85; 124B38:518
- Calabrian margin, 107A2:19, 20; 107B38:621
- Ceara Rise, 154A3:44–49
- Celebes Sea, 124A4:44–51, 70; 5:88; 10:179–182; 13:382–384; 124B3:43
- Cenomanian–Turonian unconformity, 123B31:574
- Cenozoic, 123B31:574–575, 581; 145B29:437–453; 182A2:1–25; 182B1:4–7, 21; 194A1:10–11, 44–47; 208B1:5
- Central Peru record (CDP-2), 112A7:110–116, 124; 9:131; 15:471–473; 17:599, 636–637, 642–643
- Chagos Bank, 115A10:758–759
- channel-levee systems, 155B2:13, 15–16, 20, 24
- channels, 117A8:171–172, 177; 9:19; 16:516
- clastic-turbidite facies, 117A9:228
- coherence between seismograms, 118B19:223–224
- compacting sand-shale sequence, 119A9:370
- composite signals, 121B33:665–668
- compressional wave velocity, 113A6:205–209, 215; 7:304; 8:353; 9:470–472; 10:544–545, 547, 550; 11:628–629, 631; 12:719; 113B3:30, 32, 35; 4:44; 19:243
- contemporary vs. paleodepositional environments, 119A12:473–474
- continental rise, 178B17:1–36
- core-log correlation, 185B8:6–8
- Cornaglia Terrace, 107A5:93, 114–117; 9:606; 10:749; 107B38:618–619, 623
- correlation, 108A6:417; 112A7:118; 131A7:276; 151A7:207–208; 155B39:596–601; 165A4:105; 5:202–204; 6:282; 188B8:1–21; 14:3–5; 194A1:75–76
- Cretaceous, 119A10:393; 123B31:574, 580
- Cretaceous–Cenozoic interval, 132B1:3, 13
- Cretaceous–Oligocene interval, 113A8:357–358
- crust, 124B24:339–343; 185B1:9
- data processing, 117A8:174–176, 181; 10:276–277; 11:343–345; 16:512–513, 521; 119B1:23–24
- De Marchi Seamount, 107A5:93, 124–125; 12:956
- deconvolution, 121B33:665–669, 678
- Demerara Rise, 207A1:48–49; 3:3–4
- deposcenters, 112A5:84, 86, 89; 117A5:58, 60–61
- deposition, 117A16:519
- depths, 182A5:90
- description, 129A1:24–26
- detached blocks, 112A7:116
- digital magnetic tape parameters, 119A3:106
- dipping sequences, 119B1:9, 18; 45:797; 121A4:72–75; 6:153, 156; 8:226, 255; 121B37:751
- discontinuous reflections, 119A11:441, 443; 119B1:11
- discordance A, 119A1:7; 5:124, 153
- distal variations, 121A4:78
- downlapping sequences, 121B37:751
- drag folding, 117A16:516
- Eocene, 112A15:475; 119B48:882; 121A1:10
- Eocene–Miocene unconformities, 119A6:218
- Eocene–Oligocene interval, 105B51:974
- erosional unconformities, 119A6:215; 123A4:226
- Exuma Sound, 101A9:354–355; 10:406–407, 409, 413; 11:451–453; 101B26:405–407, 409
- F-unconformity, 123B37:683
- flat-lying sequences, 119B48:876
- gas hydrates, 112B32:518–519, 525
- geologic variations, 119B1:7, 25
- glacial strata, 119B1:19
- Gortani Ridge, 107A2:19; 5:93; 11:878, 885–886
- Gran Canaria, 157A2:24; 157B27:450
- Great Bahama Bank, 101A5:80
- Great Isaac 1, 101B27:425–428, 433–434, 436
- heat flow, 112A11:272–273; 13:325–327; 15:472–474; 17:637–641; 19:830–832
- hiatuses, 117A9:227
- high-resolution methods, 208B6:1–27
- hummocky reflectors, 112A5:87
- impedance and lithologic correlation, 121A12:448
- Indus Fan, 117A8:160
- interbedded sediments/basalts, 127A7:408
- intersite correlation, 119A24:445–447, 450, 452; 121A4:86
- Izu-Bonin forearc, 125A4:83–88; 126B42:633, 642
- Jane Basin, 113A12:716–717
- Japan Sea, 127A1:28–29; 128A1:34
- Jean Charcot Seabeam survey, 112A9:131–137
- Kerguelen Plateau, 120B(2):47:885
- Kerguelen sediment ridge, 119A3:103–104; 14:525–526, 534; 15:548
- Kita-Yamato Trough, 127/128B(2):72:1135–1143; 128A5:245
- Labrador Sea, 105B51:970
- landward-dipping faults, 112A4:71–72
- landward-dipping reflectors, 112A17:637, 646–647
- landward-thickening sequences, 112A19:830, 832
- lava, 152B38:460–461
- Layer 3 gabbroic sequence, 118B12:245–247
- Lima Basin, 112A3:56–57; 11:202; 12:189–191, 195–196; 13:202; 20:829–832, 835–836; 112B2:19; 112B5:68–69
- lithology, 101A5:74–75, 77, 80; 107A8:441, 446; 10:776, 779; 121A10:295–296; 183A3:19–20; 4:29–30; 185A4:4–6
- lithology vs. geotechnical units, 162A3:88; 4:128; 5:166; 6:207; 8:285; 9:332; 10:380
- Little Bahama Bank, 101A6:153–154; 7:229–231; 8:283–284; 101B26:394–395, 401–402
- low-velocity layers, 119A8:336; 121A8:221, 225
- lower slopes, 112A9:133
- Madeira Abyssal Plain, 157B28:475–476
- Magnaghi-Vavilov Basin, 107B38:621

- magnetic anomalies, 121A1:7–8
 magnetic field, 101B26:394, 400
 maps, 101B26:395–396, 400–401, 403–407, 409, 410, 413–415, 419–424
 Marsili Basin, 107A2:19, 21–22, 32; 5:94–97; 6:136
 Mascarene Plateau, 115A5:272
 mass transport deposits, 150B11:192–195; 155B6:109–146
 Messinian facies, 107B38:619, 620
 Mid-Pacific Mountains, 143B31:527, 529
 midslope terraces, 112A17:645
 Miocene, 105B51:968, 970, 974, 980; 108A4:238; 112A5:78; 113A8:356–357
 Miocene/Pliocene boundary, 107B1:25
 mounds, 119A5:154–155; 6:214
 Nazareth Bank, 115A4:151–152
 noise sources, 119A8:334
 nonmarine sequences, 119A9:372; 11:445
 North Aoba Basin, 134B4:59–69
 Northeast Georgia Rise, 114B2:23, 25, 27–29
 Northwest Providence Channel, 101A12:502–503, 506; 13:536
 oceanic crust, 131A2:15–16
 oceanic plateaus, 130A10:512–520; 130B3:33–49
 Okushiri Ridge, 127A6:256–258, 307
 Oligocene–Pleistocene interval, 174A_A1:5–16
 Oligocene–Pliocene interval, 105B51:974
 Oligocene unconformity, 112A7:116
 onlap fills, 112A5:78
 onlapping sequences, 121A4:81, 83, 84, 90
 Ontong Java Plateau NE, 130A3:47
 open-hole interpretation, 131A6:188–194
 Owen Basin, 117A5:61
 Owen Ridge, 117A3:38; 10:277
 Pacific Ocean W, 129B31:554–555
 Palawan Island, 124B4:55
 paleoceanography, 130A10:534; 138B24:537–553
 Paleocene unconformity, 123B31:574
 Paleogene, 199A4:1–21; 199B1:8–9
 Paleogene–Neogene interval, 105B51:970, 972
 pelagic caps, 121A4:84–86; 6:152; 7:185–186; 8:225–226, 254; 121B37:751
 peri-Tyrrhenian basins, 107A2:31
 Peru margin, 112A3:56–57, 63, 70; 7:109–116, 118, 120–123; 15:438; 20:874, 927
 physical properties, 107A7:313–314; 8:432–433; 10:779; 126B39:579–580; 127/128B(2)72:1143; 128A4:224; 5:379
 Pisco Basin W, 112A3:56–57, 67; 18:731–734
 Pliocene, 105B51:965–966, 968
 Pliocene–Pleistocene interval, 105B51:971, 974
 porcellanite–chert–chalk–limestone transition, 121B13:268
 prerift/posrift boundary, 121A1:10–11
 prerift–synrift–posrift sequence, 107A10:779
 primary signals, 121B33:665, 667–670
 principal results, 188A1:16
 prograding downlapping wedge, 121A4:75, 79, 81–82
 Prydz Bay, 119A1:9, 11–12
 random events, 119A8:334
 reflectivity, 118B12:247–249
 regional unconformities, 123A12:231
 Salaverry Basin, 112A3:56–57, 59–62; 112B2:19
 Sardinia-Corsica margin, 107B38:617–621
 Sardinian margin, 107A2:17–19, 22; 5:93, 104–113, 118–123; 8:405, 411; 10:751, 755–756; 107B12:169–170, 180
 sea level changes, 166A1:6–8
 sediment lens, 112A5:79
 seismic intervals, 127/128B(2)72:1136
 seismic profiles, 107A2:20–21; 119A11:398; 178A5:100; 180B(synthesis):34; 207A1:61
 seismic reflection profiling, 107A20:326; 107B38:624, 627; 112A2:25; 3:45–47; 4:73–76; 7:111; 11:271; 15:469–474; 17:642–643; 112B29:482; 115A3:43–45, 47–52, 54–59, 61–63, 65–67, 69, 71–72, 74–76, 78–83; 4:163–164; 5:284–285; 6:431–432; 7:503; 8:627; 9:696; 10:768; 11:847, 876–878; 12:944–945; 13:1018; 117A2:34; 4:43; 4:58, 61; 5:52, 54–55; 6:65–67, 69, 73–115; 8:171–172, 174, 178–179, 181; 9:199, 226–228, 236, 238; 10:255–257, 277, 290–292; 11:322; 13:419–420, 422; 14:444; 15:467, 470; 16:498, 513, 515–520; 17:547, 550; 18:558, 576–577; 19:585, 587–588; 118A3:43, 46; 4:62–63; 5:81; 6:91–92; 118B10:223–225; 28:554; 119A6:159; 11:441–442; 121A5:93–94, 106–107; 9:240, 256; 11:345, 348–349; 12:417–419, 443–447; 133B24:331–342; 135A(1)5:186; 178A4:106
 seismic refraction, 112A15:471; 119B2:36, 38, 40
 seismic section thickness, 119A10:393, 395
 seismic sequences, 101A5:76–77; 107A7:317, 319–321; 107B38:621; 108A3:129; 5:345–346; 9:629; 10:753–754; 11:801; 12:848; 112A5:77–85; 7:116; 113A7:317; 116A4:75; 5:127; 6:181; 121A1:5; 121B37:743–744, 746–747, 758–759; 123A12:225–235; 15:339–342; 123B7:152, 154; 29:565; 30:589; 31:597; 41:788; 125A5:87–88, 92–93; 126A4:51–52; 8:224–225; 126B38:557; 39:575, 579–583
 seismic units, 107A6:158, 160–163; 108A4:237; 8:569, 571; 119A5:124, 154–155; 6:160, 214–216; 7:276, 280; 8:334–336, 338–340; 9:346, 369–370; 10:377, 392–393; 11:443–445, 447, 451–452; 12:473, 475; 13:500; 119B48:877, 880; 132B1:3–9
 seismostratigraphic unit correlation, 130B3:49
 Sicilian margin, 107A2:20–21; 107B38:621
 Sierra Leone Rise, 108A13:938
 siliceous component increase, 121A6:153
 single-channel-seismic (SCS) tracks, 117A10:289
 Site 255, 121A9:252, 254
 Site 504, 148A2:33
 Site 680, 112A12:277–278
 Site 681, 112A13:323–328
 Site 682, 112A14:395–397; 112B2:19
 Site 685, 112A17:636–641, 645–646; 112B2:20
 Site 688, 112A20:892, 927–928; 112B2:19
 Site 691, 113A7:305
 Site 692, 113A7:305
 Site 693, 113A8:353–356
 Site 694, 113A9:469–471

- Site 696, 113A11:628–631
Site 698, 114A4:67; 5:88, 113–114, 116–118; 114B2:26
Site 699, 114A6:190–192
Site 700, 114A7:256–257, 288–289, 299, 304
Site 701, 114A8:364, 405–407, 411
Site 702, 114A9:487, 509; 114B1:17
Site 703, 114A10:550, 553, 572–573, 580–581
Site 704, 114A11:622, 625, 664, 666, 668, 681;
114B1:18–19; 36:674–675, 677, 683
Site 708, 115A6:422
Site 709, 115A7:489
Site 710, 115A8:613
Site 711, 115A9:680
Site 714, 115A11:860
Site 715, 115A12:937–938
Site 716, 115A13:1016
Site 721, 117A9:235
Site 722, 117A3:39; 10:289
Site 728, 117A16:511–519
Site 730, 117A18:575–578
Site 736, 119A3:90; 5:153–155; 119B46:828
Site 737, 119A3:91–92
Site 738, 119A3:93; 7:276–279; 13:501
Site 739, 119A3:94; 8:333–338
Site 740, 119A3:95
Site 741, 119A3:96
Site 742, 119A3:97–99
Site 743, 119A3:100–101
Site 744, 119A3:102; 13:501
Site 747, 120A6:143, 150
Site 748, 120A7:225–227, 229–231
Site 749, 120A8:270–273
Site 750, 120A9:329–330, 332
Site 751, 120A10:366
Site 752, 121A6:151–156, 165–166; 7:188, 235; 9:257;
121B18:398; 33:668–669; 37:745
Site 753, 121A6:165, 185; 7:185–188, 235; 9:257;
121B18:398; 33:668–669; 37:745
Site 754, 121A6:165; 7:188; 8:224–226, 235–236;
9:257; 121B18:398; 33:668–669; 37:745
Site 755, 121A6:165; 7:188; 8:235; 9:252, 254–255,
257; 121B18:398; 33:668–669; 37:745
Site 756, 121A10:291–296, 299–302
Site 757, 121A11:344–345, 347–350, 357
Site 758, 121A12:414, 416–423
Site 765, 123A4:248
Site 781, 125B16:295
Site 787, 126A5:65; 126B39:576–577
Site 792, 126B39:577–581
Site 793, 126A9:318; 126B39:581–583
Site 794, 127A4:73, 142–143
Site 795, 127A5:174, 233–238
Site 796, 127A6:251, 307–314
Site 797, 127A7:325, 399–410
Site 798, 128A1:34; 4:125; 5:192–194
Site 799, 127/128B(2)72:1135–1143; 128A1:34;
5:343–353
Site 800, 129A2:75–80
Site 801, 129A3:152–156
Site 802, 129A4:229–235
Site 803, 130A5:155–165
Site 804, 130A6:207–215
Site 805, 130A7:266–270, 273–277
Site 806, 130A8:335–339, 343–347
Site 807, 130A9:444, 446–448, 457
Site 808, 131A6:201–203
Site 811, 133A(1)4:111, 114
Site 812, 133A(1)5:165–168
Site 813, 133A(1)6:195–196
Site 814, 133A(1)7:226–228
Site 815, 133A(1)8:284–292
Site 816, 133A(1)9:324–325
Site 817, 133A(1)10:380, 382–383
Site 818, 133A(1)11:441
Site 819, 133A(1)12:479–481
Site 821, 133A(1)14:592
Site 822, 133A(1)15:649–651
Site 823, 133A(1)16:725, 729–732
Site 824, 133A(1)17:788–789
Site 826, 133A(1)18:809–810
Site 827, 134A7:98–101
Site 829, 134A9:182–183
Site 832, 134A12:393–394
Site 834, 135A(1)4:93–95
Site 836, 135A(1)6:252; 7:291, 293
Site 838, 135A(1)8:341–342
Site 839, 135A(1)9:401, 403
Site 840, 135A(1)10:497–498
Site 841, 135A(1)11:579
Site 844, 138A(1)9:162–163
Site 846, 138A(1)11:311–313
Site 847, 138A(1)12:371–372
Site 848, 138A(2)13:711–712
Site 849, 138A(2)14:762–763
Site 850, 138A(2)15:848–849
Site 851, 138A(2)16:930–931
Site 852, 138A(2)17:1002–1003, 1005
Site 853, 138A(2)18:1045–1046
Site 865, 143A2:17–18; 6:157–158
Site 866, 143A2:22; 7:243–245
Site 869, 143A2:26; 9:343, 346–348
Site 871, 144A3:85–86
Site 872, 144A4:138
Site 873, 144A5:198
Site 874, 144A6:244
Site 877, 144A8:309–310
Site 878, 144A10:396–397
Site 879, 144A11:435
Site 888, 146A(1)4:57
Site 889, 146A(1)5:130–131
Site 890, 146A(1)5:130–131
Site 891, 146A(1)6:242–245
Site 892, 146A(1)7:305
Site 902, 150A6:111–115
Site 903, 150A7:183–189
Site 904, 150A8:241–243
Site 906, 150A9:295–298; 10:338–344
Site 907, 151A5:95–96
Site 908, 151A6:149–153
Site 909, 151A7:205–208, 210
Site 910, 151A8:261–263
Site 911, 151A9:304–307

- Site 953, 157A7:372–375
 Site 982, 162A4:124–129
 Site 983, 162A5:160, 162–165
 Site 984, 162A6:204–208
 Site 985, 162A8:279–280, 282–283
 Site 986, 162A9:320–325
 Site 987, 162A10:368, 370, 372
 Site 998, 165A3:50–51
 Site 999, 165A4:132–136
 Site 1000, 165A5:232, 234–236
 Site 1001, 165A6:293–295
 Site 1002, 165A7:362
 Site 1003, 166A6:106–113
 Site 1004, 166A7:166–167
 Site 1005, 166A8:202–205
 Site 1006, 166A9:260, 262–265
 Site 1007, 166A10:324–328
 Site 1071, 174A_A3:81–88
 Site 1072, 174A_A4:131–135
 Site 1073, 174A_A5:178–182
 Site 1095, 178A4:33–38; 178B17:5–7
 Site 1096, 178A5:31–34; 178B17:5–7
 Site 1097, 178A6:18–20
 Site 1098, 178A7:22–26
 Site 1099, 178A7:22–26
 Site 1100, 178A9:22–25
 Site 1101, 178A8:20–22; 178B17:5–7
 Site 1102, 178A9:22–25
 Site 1103, 178A9:22–25
 Site 1126, 182A4:39–42
 Site 1127, 182A5:26–28
 Site 1128, 182A6:36–39
 Site 1129, 182A5:26–28; 7:28
 Site 1130, 182A8:30–32
 Site 1131, 182A5:26–28; 9:26
 Site 1132, 182A10:31–33
 Site 1134, 182A12:26–29
 Site 1135, 183A3:18–20
 Site 1136, 183A4:29–30
 Site 1137, 183A5:52–54
 Site 1138, 183A6:59–61
 Site 1139, 183A7:54–56
 Site 1140, 183A8:28–29
 Site 1143, 184A2:4–5
 Site 1144, 184A2:5–6
 Site 1145, 184A2:6–7
 Site 1146, 184A2:7–8
 Site 1147, 184A2:8–9
 Site 1148, 184A2:8–9
 Site 1173, 190A4:34–35, 92
 Site 1174, 190A5:35, 85–86
 Site 1175, 190A6:24–25, 61
 Site 1176, 190A7:21, 54
 Site 1177, 190A8:25
 Site 1178, 190A9:27, 63
 Site 1179, 191A4:8–9
 Site 1192, 194A3:23–25
 Site 1193, 194A4:27–30
 Site 1194, 194A5:27–30
 Site 1195, 194A6:23–27
 Site 1196, 194A7:40–41
 Site 1197, 194A8:22–24
 Site 1198, 194A9:22–25
 Site 1199, 194A7:40–41
 site survey, 121A11:344–345
 Sites 255 and 755 correlation, 121A9:252, 254
 Sites 721 and 722 correlation, 117A9:226–227
 Sites 723 and 728 correlation, 117A16:512
 Sites 788–789, 126A5:99
 Sites 790–791, 126A7:129–130
 Sites 875–876, 144A7:284
 Sites 914–917, 152A10:159–164; 152B3:29–36
 Sites 980–981, 162A3:85, 87–88
 Sites 1008–1009, 166A11:369–372
 slump deposits, 108A8:573
 source signals, 178A5:31
 source-receiver geometry, 121B33:663–665
 stacked composite signals, 121B33:672
 Straits of Florida, 101B26:399–401, 403–405, 408–409; 27:428–430
 stratigraphic sequences, 121A1:76
 structural features, 112A5:78–80; 7:110, 118; 112B3:61; 5:61–62; 119A12:446; 119B1:17–18
 submarine slide surfaces, 117B6:153; 11:344
 subsurface levee/channel complexes, 117A8:171
 Sulu Sea, 124A4:44–45, 52–62; 5:88, 90–92; 11:197, 199, 276–279
 summary, 129A3:159; 4:234–235; 182A1:25, 28, 33, 36–38, 41–42; 184A2:1–37
 surface channels, 117A8:171
 synclinal morphology, 117A11:340, 342
 syndepositional uplifts, 117A5:55
 synthetic composite signal, 121B33:671
 synthetic seismograms, 107A2:160–161, 166; 7:319–320; 8:444–447; 10:780–781; 118B12:245–248; 121A4:75, 79, 81; 6:151, 153, 161–162; 8:221, 225, 232–233; 178A5:32
 synthetic vs. observed seismic-reflection traces, 119A6:214; 7:274, 277; 8:332; 11:439–442
 system geometry, 119A3:106
 tectonic-stratigraphic correlation, 123A4:338
 tectonics, 112A14:396; 149B39:617–633; 175A3:52–53; 6:147–148; 8:204–205; 9:228–229; 12:343; 13:389; 14:431
 time-depth functions, 178A5:31–32
 topographic high, 117A16:518–519
 Tortonian faulting and subsidence, 107B1:22
 transform faults, 159A1:9–10
 transverse ridges, 118B10:219
 travelttime, 157A6:138
 travelttime/core depth relationship, 117A11:345–346
 Trujillo Basin, 112A3:56–57, 66; 16:559–561, 571; 112B2:20
 turbidite-chalk sequence, 117A18:577–578
 turbidites, 124B32:442–444; 157B38:620–621
 two-way travelttime, 138B24:551–552
 Tyrrhenian Sea, 107A2:16, 18; 5:93, 98–103; 6:291, 296–297; 107B38:618
 unconformities, 107B1:25–26; 112A7:110, 118; 15:472, 475; 116A4:75; 5:118; 6:181
 Valanginian–Hauterivian interval, 123B31:567, 570–571, 577–579

- Vavilov Basin, 107A2:19; 107B38:621
 volcanic ash, 128A4:122, 153–155; 5:344–351, 379
 volcanic basement, 165B13:219–220
 vs. acoustic impedance, 184A2:16, 21, 29, 35
 vs. depth, 151A7:209; 8:260; 9:306
 vs. lithology, 107A10:779; 107B38:628; 113B4:44, 46;
 118B10:224; 120B(2)48:899–903; 121A4:79;
 129A2:77–80; 3:154–156; 4:231–235
 vs. lithostratigraphy, 107A6:165; 7:319; 8:441, 444–
 446; 107B12:171, 181; 38:625; 108A2:49; 4:237;
 5:346; 9:643; 10:760; 11:807; 12:848, 856;
 116A4:75; 5:120–122; 6:181–182; 117A8:177–
 178; 9:227; 118B12:246; 119A5:156; 11:444,
 451; 13:501; 121A6:165, 188; 8:235, 257;
 121B33:668–669; 37:745; 123A4:248, 341–342,
 344; 123B31:565–566; 126A6:103; 7:129–130,
 132, 135, 137; 8:226; 9:319; 126B39:576–585;
 127A4:143, 155; 5:174, 234–238, 243; 6:251,
 312–313; 7:325, 403–408, 410; 127/
 128B(2)72:1140–1143; 128A4:125, 193–194,
 224; 5:351–353, 379; 129B31:555; 131A6:201–
 202; 133A(1)9:325; 16:731–732; 18:809–810;
 144A3:97; 4:144; 5:199; 6:248; 7:285
 vs. physical properties, 118A6:163; 121A10:303;
 12:418–419
 vs. synthetic seismograms, 130B3:46
 vs. two-way traveltime, 151A6:152
 vs. velocity, 107B38:625, 628
 vs. well-logging, 126B39:579–580, 582–583, 586–587,
 590–591; 138A(1)10:236, 239–240
 weakly laminated units, 121A4:75, 81
 well-logging, 105B51:962; 119B6:126–128; 14:288;
 121A12:366–367; 128A4:224; 5:351–353
 Yamato Basin, 127A4:83–84, 143
 Yaquina Basin, 112A3:56–57, 64–65; 15:475;
 112B2:20
See also acoustic stratigraphy; log-seismic correlation;
 seismic profiles, vertical seismic profiles (VSP);
 seismic reflectors
 seismic stratigraphy, “layer-cake,” lithology, 130A3:50–
 52
 seismic structure
 deep crust and mantle, 195B2:3
 islands, 157A2:14
 Layer 2, 148B28:369–370
 shallow crust, 200B7:1–21
 volcanic aprons, 157B2:11–27
 seismic studies
 deformation, 209A1:4
 experiments, 179A5:10–12
 gabbros, 179A4:65–67, 160–164
 spectra, 179A5:22
 seismic surfaces
 correlation, 174A_A5:180, 182, 187–188
 lithology, 174A_A5:157, 159–160
 photograph, 174A_A5:158
 sequence boundaries, 174A_A3:95–96
 sonic data, 174A_A5:184–187
 vs. depth, 174A_A5:188–189
 seismic surveys
 age control, 143B31:516
 Australia NE, 133B58:821–824, 826–828, 846–850
 basement, 130B2:23–31; 210A4:11–12
 basins, 178A1:47
 Ceara Rise, 154A3:39–52
 Cenozoic sediments, 145B29:438–452
 cruise EW9903, 206A4:1–49
 distribution, 133A(1)1:10
 frequency vs. power spectral density, 207A3:6
 gas hydrates, 146B(1)9:163–174; 164B26:253–264;
 204A1:4–9
 geology, 169A1:12
 Hydrocell-95 and Hydrocell-96 surveys, 168B2:9–19
 maps, 182A4:80; 10:66; 12:54, 56
 multichannel data, 133A(1)11:421
 oceanic crust, 102B11:155–180
 pre-cruise reflection surveys, 127A4:142; 5:233; 6:307;
 7:399; 128A4:192; 5:343–344
 ROUNDABOUT cruise 11 survey, 130A8:340
 SCREECH transect 2, 210A5:1–36
 seismic reflectors, 142A2:35–36
 Site 807, 130A9:373
 structure, 134A10:263–267; 163X_A1:6–8;
 169S_A2:17
 systems, 164A3:43–46
 tectonics, 139B1:7–8
 track charts, 133A(1)4:82–86; 5:138–139; 6:179–180;
 7:205–206; 8:248, 251–252; 9:305–306; 10:347,
 354–355; 11:422–423; 12:458–459; 187A3:22;
 5:15; 6:33; 7:32; 8:48; 10:19; 11:33; 13:39;
 14:26; 15:40; 203A3:31; 203B1:12
 velocity vs. two-way traveltime, 129A3:158
 years 1970–1978, 133A(1)1:9
 years 1985 and 1987, 133A(1)1:12
 seismic thickness, crust, 176A1:8
 seismic traces, structure, 200B7:13–14
 seismic tracks
 multichannel, 206A4:10, 34, 46
 Woodlark Basin, 180A1:39
 seismic units
 acoustic basement, 165A4:134–135; 165B13:222–224
 age, 149B39:624
 Aptian debris flows, 149B45:693
 core data, 162A8:280, 282–283
 correlation, 161B4:67; 162A4:127–129; 5:162–165;
 162B17:238; 178A4:36–38; 6:19–20; 188B8:3–5;
 204B2:6, 8; 207A3:3–4
 deformation, 159B11:106
 depth to base, 178A4:173
 isopach maps, 162A4:90; 204B2:26
 lithology, 157B28:476–478; 165A4:202–204;
 165B12:208–214; 178A4:36–37; 5:33–34; 6:19–
 20; 7:24–26; 8:21–22
 mass accumulation rates, 157B28:495; 38:628–629
 Messinian, 161A6:247–248
 Neogene, 150B14:269–281
 Pliocene–Pleistocene interval, 161A6:247; 162B6:85–
 88; 5:164–165
 reflections, 207A3:3–4
 sediments, 161B5:71–73; 162A3:85, 87–88; 4:125–
 129; 8:280; 9:290, 321–323, 325; 10:368, 370,
 372

- seismic reflectors, 157B2:21–22; 28:496; 162A4:126;
6:206; 165A5:235–236; 6:295; 178B16:1–7;
181A8:88
- seismic stratigraphy, 149B39:618–626; 162A4:125–
126; 165A3:51; 188B8:14; 204B2:4–7, 20
- Serravallian, 161A6:248
- Serravallian–Langhian interval, 161A6:248, 250
- Site 986, 162B17:240–243
- summary, 181A6:83; 7:112
- synthetic seismograms, 165B13:222–224
- Tortonian, 161A6:248
- turbidite thickness, 157B38:622
- two-way traveltime, 178A5:144
- unconformities, 162A6:205
- volcanic ash deposits, 165A3:104
- volumes, 157B28:495
- See also* acoustic units; lithoseismic units; rough hori-
zon “B;” seismostratigraphic units; smooth hori-
zon “B;” well-log units
- seismic velocity
- air gun vs. water gun sources, 123B32:584–585
- Atlantis Bank, 118B28:553–554
- basalts, 129B28:504; 139B38:597–612; 163B3:29–35
- description, 129A1:24–26
- elastic properties, 123B24:490
- Galicia margin W, 103A8:148–151; 9:254–255, 258–
259
- Little Bahama Bank, 101B16:238
- lower crust and upper mantle, 153B25:437–454
- mantle, 209A1:85
- Meteor Rise, 114B1:17
- Northeast Georgia Rise, 114B2:23
- Pacific Ocean W, 129B31:554–555
- sediments, 129B31:555
- Site 800, 129A2:75–80
- Site 801, 129A3:152–156
- Site 802, 129A4:229–235
- slant stacking, 123B34:626, 628–629
- structure, 123B24:483–485; 156B21:263–275
- t-p* analyses, 123B34:625
- vs. confining pressure, 158B23:323–325
- vs. lithology, 123B34:634–635; 129A2:77–80; 3:154–
156; 4:231–235; 129B31:555
- vs. porosity, 158B23:313–327
- vs. pressure, 123B24:485–487
- X-T* to *t-p* mapping, 123B34:626, 628
- See also* compressional wave velocity; shear wave ve-
locity; ultrasonic data; velocity
- seismic waves
- amplitude scaling, 148B25:342
- models, 131B6:75
- propagation, 152B38:460–461
- See also* compressional wave velocity
- seismic while drilling
- Site 1105, 179A4:65–67
- Site 1107, 179A5:10–12
- seismic zones
- heat flow, 202B1:5
- seismic data, 208B6:11
- seismicity
- deformation, 141A3:30
- during last century, 145B36:551–552, 554
- forearc basins, 186B1:2–3
- geology, 190A1:3–4
- geophysical surveys, 180A2:4–5
- mantle, 195B2:4–7
- maps, 149B1:5; 186A1:25; 4:157
- plate tectonics, 149B1:4
- subduction zones, 170A1:7–9; 186A1:5–6
- thrust zones, 186B1:15
- volcanism, 193A1:5
- vs. depth, 146A(1)10:400
- seismicity, intraplate, Indian Ocean, 179A5:18
- seismites, sediments, 161B6:80
- seismogenic zones, subduction zones, 205A1:5–6;
205B1:13–14
- seismograms
- oceanic crust, 148B25:340
- sediments, 155A11:307
- seismic facies, 155A20:621
- Site 931, 155A7:161, 163
- Site 944, 155A20:627
- stacks vs. depth, 164A7:208
- synthetic boreholes, 155A12:360, 362
- time-depth relationship, 146A(1)4:98
- traveltime, 156A6:170
- vs. depth, 155A7:166
- vs. traveltime, 155A9:233; 11:311; 12:372
- seismograms, synthetic
- amplitude vs. depth, 168B3:26–29
- boreholes, 154A4:122–123; 159A8:291; 159B22:234,
237, 240
- calculation, 139B37:591; 208B6:3–4
- comparisons, 151A6:153; 7:210; 8:262; 9:307;
157B1:3–9; 208B6:5; 210A3:311
- compressional wave velocity, 199A11:36–37
- correlation, 176B5:12–13; 185B8:4–8; 208B6:18
- data processing, 200B7:17–22
- décollement, 156A6:164; 156B20:260; 21:272, 274
- density and velocity data, 154A4:134; 157B34:486
- depth vs. time, 176B5:34–35
- digital sonic tool, 120B(2)49:907
- gas hydrates, 141B18:246–247; 204B24:24, 26–27, 29,
31–32, 34, 36–37
- lithology, 135B21:331–365; 183A3:19–20; 4:29; 5:53–
54; 6:60; 8:28–29; 188B10:22–23
- logging-while-drilling, 190/196B17:14–15
- Northeast Providence Channel, 101B28:447–450
- opal-A/opal-CT transition, 127/128B(2)73:1146–1148
- Pacific Ocean E, 138B24:539–540, 542–543
- peridotites, 147B25:435
- physical properties, 130B3:36–40
- plotted on seismic line, 198A3:115
- properties, 151A8:261, 306
- reflection coefficient, 130A8:343; 162A4:127; 6:207;
9:330; 180B5:5; 204B24:4
- sediments, 157A7:371–372; 168A6:181; 170A3:81–83;
4:146; 7:243–245; 188A3:65–67; 207A6:36
- seismic-core correlation, 162A6:208; 9:323–324;
210B14:9–10, 28–29
- seismic-log correlation, 174A_A4:141; 5:187

- seismic profiles, 165B12:205–217, 222; 172A3:74–75;
188A3:168; 4:40–41; 188B10:1–28
- seismic reflectors, 120A6:143; 120B(2)49:913;
151A5:106; 6:150–152; 183A5:158; 207A4:34–
35; 5:39, 85
- seismic sections, 133B44:650–652, 654
- Site 747, 120A6:143
- Site 750, 120A9:329
- Site 786, 125B35:585–587
- Site 792, 126A8:308
- Site 794, 127A4:143, 154
- Site 798, 128A4:184, 214
- Site 799, 127/128B(2)72:1138–1140, 1142
- Site 800, 129A2:74–75
- Site 801, 129A3:152
- Site 802, 129A4:227
- Site 803, 130A5:159–164
- Site 805, 130A7:267–268
- Site 807, 130A9:460
- Site 846, 138A(1)11:322–323
- Site 847, 138A(1)12:383
- Site 889, 146A(1)5:211–212
- Site 902, 150A6:110–111
- Site 903, 150A7:183
- Site 905, 150A9:295
- Site 906, 150A10:338
- sonic logs, 146A(1)5:213; 6:281
- source wavelets, 210A3:110–111
- Southern Kerguelen Plateau, 120B(2)48:897–899
- stratigraphy, 134B4:61–64
- structure, 143B19:305–315
- traveltime, 188A4:95
- unconformities, 150B16:295–298
- velocity, 120B(2)49:910; 138A(2)13:711–714;
198A3:44; 199A11:86; 12:39, 93–94
- velocity, density, and impedance data, 130A8:344;
138A(1)9:181
- vs. depth, 141B18:248; 146A(1)6:282; 156A5:76;
6:166; 159A5:123; 159B22:227–229; 168A6:201;
168B3:33; 171A_A3:37; 4:54; 5:75; 6:91; 7:106;
174A_A5:189; 183A3:42; 4:79; 5:156–157;
6:162–163; 7:162–173; 8:89–90; 186A4:153–
154; 188B10:19–21, 24; 198A3:114; 200B7:15;
208B6:14–17
- vs. field record, 127/128B(2)72:1142; 130A7:274;
8:342; 10:517; 138A(1)9:180; 10:254; (2)13:729;
16:957; 17:1017; 18:1059
- vs. seismic profiles, 138A(1)10:239–240
- vs. traveltime, 152A9:150; 157A7:382; 159B22:229–
230, 232, 236, 238, 240; 172A3:75; 194A3:59;
4:91; 5:86; 6:68; 7:118; 200B1:36; 7:16;
207A4:77; 7:37–38, 80; 8:76
- wave traces, 188A3:170
- well-logging, 150A6:113; 7:185; 8:241; 10:339;
151A5:95–96; 152A9:149; 159A5:122–123;
159B22:227–229; 171A_A3:35–36; 4:52; 5:68,
71; 6:90; 7:101–102; 176B5:38; 196A3:27–28,
71; 4:26–27, 63
- See also* amplitude logs; seismograms
- seismograms, synthetic, normal-incidence, 136B8:103
- seismographs. *See* World Wide Standard Seismograph
Network
- seismometers
- boreholes, 136B14:161–164; 186A3:8–10, 30–32
- data, 191B1:7–8
- emplacement, 191A4:44–45
- instruments, 191A3:6–8, 31–48
- sediments, 186A1:15–16
- Site 798, 127/128B(2)86:1368–1369
- Site 799, 127/128B(1)42:724–725
- See also* borehole seismic observatories; borehole seis-
mometers; broadband borehole seismometers;
ocean bottom seismometers
- seismostratigraphic units
- analog seismic section, 178A4:36–38
- tectonics, 175A3:53; 6:147–148
- See also* seismic units
- seismostratigraphy. *See* seismic stratigraphy
- seismotectonics, forearc basins, 186B1:2–3
- Selaginallales, sporomorphs, 183B3:7–8
- Selandian
- biostratigraphy, 181A8:18; 189B3:8; 5:33; 210A3:86
- correlation, 171B_B9:14
- magnetostratigraphy, 171B_A5:199; 171B_B9:10
- Selandian, middle, lithology, 192A1:22–24
- selenite
- Messinian, 161B43:544–546
- See also* gypsum
- selenium
- Cretaceous/Tertiary boundary, 121B19:420
- element correlations, 158B27:378–381, 384–385
- galena, 193B3:3
- mineral separates, 158B2:33, 37, 39; 27:370–376
- Paleocene/Eocene boundary, 199B16:3
- postoxic conditions, 157B32:567
- sulfides, 158B1:19–20, 22; 193B10:4
- vs. cobalt, 158B28:398
- vs. depth, 139B11:229–250; 158B4:54, 56, 58, 60, 62;
27:374–376; 160B16:201
- selenium/aluminum ratio, vs. depth, 157B32:568
- selenium isotopes
- lithology, 185B1:12
- vs. depth, 185B1:27
- self-focusing resistivity logs, vs. depth, 178B19:27
- Selli Event
- isotopes, 143B6:101, 103
- nannofossils, 198B7:6
- oceanic anoxic events, 192A3:14; 207A1:5
- unconformities, 132B1:12
- selvage
- alteration, 169A3:82–84; 169B9:5; 187A12:8–9
- basement, 161B44:565–568
- hydrothermal events, 193B1:25
- orthopyroxenes, 176B10:13–14
- petrography, 129B18:348
- photograph, 158A7:86, 103, 105, 108, 120, 130;
8:156, 11:217–218; 158B15:198–200; 18:248;
169A3:92, 107; 193B1:57; 9:11; 209A3:70
- photomicrograph, 193B1:56; 9:15–16
- pyrophyllite, 193B1:17, 47
- quartz, 193B9:4–7

- textures, 158B15:194–195
- selvage, illitic, geochemistry, 193B1:26–27
- selvage, silica, photograph, 187A1:40; 8:39
- semblance technique
data, 102A3:115–121; 102B4:54–61
Southwest Indian Ridge, 118B14:266
windows, 102B4:54–55, 57–58
- semibrittle deformation. *See* deformation, semibrittle
- semidesert environment, Quaternary, 161B36:465
- semidikes
petrology, 148B8:103
See also dike complexes
- semifusinite, abundance, 180B10:7, 9
- Senonian
calcareous nannofossils, 159B26:321–322
lithology, 174AX_A1:30–32
transform faults, 159A1:12
- sense of shear
amphibole vein linings, 118B26:499
indicators, 118B24:419–420, 423
- sensitivity analysis, geochemical cycles, 205B6:12
- sensors, tiltmeters, 186A3:11, 33, 50
- sepiolite
distribution, 107B20:324; 125B7:117
formation, 107B20:325; 117B8:183
Formation MicroScanner imagery, 160B47:619
mineral associations, 123B2:69, 79
paleoenvironment, 159A6:175–176
provenance, 107B20:325; 160B19:238
sedimentation, 161B2:31
Site 779, 125B19:355
Site 786, 125A14:318; 125B7:129
sources, 123A7:151–152
X-ray diffraction data, 159A6:168; 159B15:147
See also loughlinite
- sequencing surveys, microbial community, 201B2:1–19
- Sequoia* pollen, vs. depth, 167B32:360
- sericite
breccia, 173A6:131–132; 7:193
Celebes Sea, 124A13:365
clasts, 173A7:191; 9:282–283
clay matrix, 119B3:50
hydrothermal alteration, 209A6:12–13
lava, 197A3:15
lithology, 180A5:8–9; 197A4:11–19
meta-anorthosite, 173A6:131
metadiabase, 180A7:14–15; 8:17
metasediments, 173A8:246–249
mylonites, 180A11:6
petrography, 134A10:276
photomicrograph, 187A12:19; 209A6:67–68, 72, 76
sediments, 177B13:1–10
- sericitization
deformation, 173A9:289
diabases, 180A7:14
meta-anorthosite clasts, 173A7:191
metadiabase, 180A8:18
petrology, 180A11:5
photomicrograph, 180A10:24
sandstone, 146B(1)29:426
- sericitization, alkaline, plagioclase, 141A8:274
- serine, pore water, 201B12:3, 7
- serpentine-brucite assemblage, phase equilibria, 209A6:17–18
- serpentine flakes, photomicrograph, 195A3:72–74
- serpentine flows
deformation, 125A11:261–263
rheology, 125A8:166–167
Site 779, 125A7:119
structural features, 125A15:368; 125B18:340
- serpentine matrix, photograph, 209A5:108
- serpentine mud
comparison with serpentinized peridotite, 195B4:6–7
Coryell-Masuda diagram, 195B4:25
fluid-mobile elements, 195B4:8, 32
geochemistry, 195B4:1–49
halogens, 195B5:1–18
origin, 195B4:9
shearing, 195A3:55
- serpentine mud volcano, convergent plate margins, 195A1:2–14
- serpentine/sediment contact
magnetic properties, 125A11:265; 12:291, 293
Site 783, 125A5:85–86
- serpentine sediments, geochemistry, 147B26:448
- serpentine-stevensite series, alteration, 137/140B18:213
- serpentine veins. *See* veins, serpentine
- serpentines
alkaline basalts, 144B28:487
alteration, 135B44:709; 147A3:69, 71; 4:137–138; 176B1:4–5; 209A8:3
aluminum, 125B18:331–334
authigenic minerals, 149B31:532
basement, 131A6:155; 173A1:13
breccia matrix, 173B1:3–5
carbonate enrichment, 125A12:281
classification, 125A2:24
clasts, 173A7:189–190
clay, 180B17:6
color variations, 125A9:151–152
composition, 103B14:227–228, 230; 147B14:264; 15:300; 176B1:10
cross-fiber foliation, 209A3:112
deformation, 125A6:106–107; 8:166; 125B7:8; 147B14:264; 153A3:95–97
dehydration temperature, 125B20:370
electron microprobe data, 137/140B18:208–209; 149B32:550; 209B2:1–13
electron microscopy, 160B34:443–444
emplacement, 125B1:10; 36:611
fault gouge, 125B36:611; 180A1:13; 11:4; 180B3:3–4
foliation dip, 209A3:110–111
forearc terrane, 125B1:9–10
Galicia margin W, 103A1:10, 12; 8:129, 131, 133–135, 137–140, 158, 160
geology, 195A1:3–4
hydrogen, 103B14:230–231
hydrothermal alteration, 179A4:43–44; 179B(synthesis):8; 209A5:11–12; 6:11, 14; 9:7–11; 209B1:8–11
hydrothermal veins, 153A3:79–80, 86; 153B30:524

- intercalated pelagic sediment, 125B19:358; 36:609–610; 38:652
lava, 134A8:153
lithology, 149B45:688; 180B6:9; 195A3:12–13; 210A4:8
magnesium, 125B18:331–334
magnetic properties, 125A6:108; 7:130
massive sulfides, 139B18:377
matrix geochemistry, 125A12:281
mesh texture, 153B3:38–39
mineralogy, 125B19:354–355, 358–359; 26:439–440; 147B14:261; 15:298–299
mud, 195A3:18–20
octahedral cation total, 176B1:12
origin and evolution, 125B18:338, 340
oxygen, 103B14:230–231; 15:236–237
oxygen isotopes, 149B32:544–546, 552; 153B20:382–385; 26:466
photograph, 147A4:126; 149A4:62–63, 80, 92; 6:174, 176; 149B22:403; 153A3:58, 63, 70, 81, 83, 87–88, 92–93, 96–100, 105; 153B3:43, 45–49, 51, 53, 55–56; 20:384; 173A7:190; 9:281; 195A3:69–70; 209A3:121–122; 5:109–110; 9:61–62, 65; 10:90
photomicrograph, 195A3:72–74, 89; 209A1:89; 3:61, 78–79, 81, 99, 109; 5:109; 6:75–76; 7:64; 10:95
physical properties, 125A12:293
pore water chemistry, 125A11:260
recrystallization, 153B3:39–42
rheology, 125B19:354, 359
sea-bottom occurrence, 103B14:232
secondary minerals, 137/140B15:173, 183; 149A4:80
serpentinization, 149B32:544; 153B20:382; 173A7:192–193; 9:280–282; 209A7:7–10
shear zones, 209A6:23–24
silica metasomatism, 209A3:18–20
sill zoning, 210A3:67
silt-sized material, 125B36:605
Site 778, 125A6:101
Site 779, 125A7:117–119
Site 779, 125A7:119–120
Site 780, 125A8:151–152; 15:372
Site 784, 125A12:276
stable isotopes, 147B14:272–274, 277–278
structural formulas, 103B14:229
tablets, 125A8:164–165
talc-bearing composition, 125B26:435
tension gashes, 149B22:404–405
tochilinite, 173B2:1–9
ultramafic rocks, 125A6:102; 125B26:436
veins, 103B16:243, 245; 147A4:142–143; 173A7:203; 209A3:92; 5:13–19, 80, 87, 92, 97; 6:65, 71
vs. depth, 140A2:66; 173B1:7, 11; 195A3:76–78
X-ray diffraction data, 209A3:73; 5:78–79; 6:63; 7:60, 63
See also alpha-serpentine; antigorite; berthierine; breccia; chrysotile; clasts; clay; claystone-serpentine transition; deweylite; diapirism; garnierite; greenalite; hydrotalcite-pyroaurite group; lizardite; magnesium-serpentine; magnesium-talc; mud; picrolite; seamounts; sediments; talc-serpentine series
serpentines, phacoidal
 deformation, 125A11:261–263
 magnetic properties, 125B33:567, 576–577
 rheology, 125A11:264; 125B19:352
 Site 778, 125A6:113; 125B18:328
 Torishima Forearc Seamount, 125B19:354; 36:609
serpentines, rotated, Site 732, 118A3:55
serpentines, silty clay
 photograph, 195A3:68
 photomicrograph, 195A3:72–74
serpentines, unconsolidated
 deformation, 125A7:127–129
 geochemistry, 125A8:158
serpentinite clasts. *See* clasts, serpentinite
serpentinite fragments
 photomicrograph, 180A10:25; 180B7:53–54; 8:41
 volcaniclastics, 180A7:16; 180B7:7, 19–20; 8:6
serpentinite grains, detrital
 photograph, 210A4:24
 photomicrograph, 210B9:53, 55
serpentinite ridges
 Cretaceous, 149B39:627
 See also peridotite ridges
serpentinite seamounts
 synthesis, 195B1:1–30
 See also seamounts
serpentinites
 antigorite formation, 106/109A8:212–213; 125B27:453
 basement mineralogy, 173A7:190
 breccia, 149B36:584
 chrysotile formation, 106/109A8:212
 classification, 118A1:10–11; 125A2:24
 clasts, 149A6:164–166; 173A7:191–192; 9:282; 195A3:60–63
 composition, 106/109B5:50; 149A4:81–83; 195A3:102; 195B1:9–13
 cores, 147A4:114
 deformation, 125A12:290; 125B36:611; 153A3:97–98
 diapirism, 125B36:611; 147A1:13; 177A1:5
 evolution, 153B4:72–74
 flow morphology, 125B20:371
 foliation, 118A3:54
 fracture zones, 125A1:11
 geochemistry, 149B30:519–527; 32:541–552; 195A3:20–21; 195B1:15–16
 halogens, 195B6:8–10
 hydrothermal alteration, 209A5:12; 7:7–10
 lithology, 149A6:167–175; 180A5:8–9; 10:11–12; 180B6:10
 mafic components, 125B36:604
 magnetic properties, 125A7:130; 149A4:75; 153B32:553; 173A7:183, 185; 210A1:23–24
 microbreccia, 173A9:293
 Mid-Atlantic Ridge, 106/109A8:206–207
 origin, 106/109B9:112
 peridotites, 149A4:75–83
 petrography, 134B16:338–342; 161B3:41

- photograph, 149A4:92; 6:166–167, 174–175, 187;
 153B1:11–12, 15; 20:385; 23:427; 195A3:96,
 140–142; 209A1:87; 3:117
 photomicrograph, 173A7:192; 9:282; 180A1:62; 5:48,
 51; 6:98; 195A3:98; 209A5:109
 physical properties, 125A1:11; 6:109; 12:293;
 153B25:440–442
 rheology, 125B20:363
 seafloor weathering, 149B31:529–540, 553–558
 second-generation chrysotile, 106/109A8:213
 sediment provenance, 180B6:20–24
 seismic properties, 195B11:1–12
 semibrittle shear zones, 209A6:24–25
 serpentinization, 106/109A8:211–212; 173A9:280–
 282
 shear wave velocity, 149B24:426–429
 silica metasomatism, 209A3:18–20
 Site 732, 118A3:48
 Site 780, 125A8:151–152; 125B19:349
 slow-spreading ridges, 125A2:11
 tectonic setting, 153B1:5–21
 textures, 106/109A8:211–212; 106/109B9:103
 ultramafics, 209A3:11
 X-ray diffraction data, 173A7:194, 196; 9:285;
 195A3:14–15, 75
See also desautelsite; greenalite; shear zones, serpen-
 tinite
 serpentinites, altered
 photograph, 209A3:77
 photomicrograph, 209A3:77, 80
 serpentinites, sheared
 harzburgites and dunites, 209A5:23
 photograph, 153A3:99
 serpentinization
 alteration, 147B15:304–305; 149B30:519–527;
 209A3:27–28
 basement, 149A4:108–112; 173A1:11–12
 bladed-sheaf textures, 125A8:165
 bulk rock and mineral chemistry, 153B10:199–205
 chloride uptake, 125A8:160–162
 compression in Miocene, 149B41:654–656
 deformation, 173A7:202–203; 9:290
 diabases, 153B19:372
 dislocation structures, 147B19:351–352
 dunites, 195A3:18; 209A6:64
 electron microprobe data, 209B2:1–13
 fabric, 149B36:583
 felted-laths, 125A8:165
 forearc mantles, 125B24:402
 geology, 190A1:4
 harzburgites, 125A7:121; 195A3:17; 209A3:6
 hydration, 153B22:412
 hydrothermal alteration, 209A5:12–20; 6:12–14; 9:8–
 11; 209B1:9–10
 hydrous fluids, 149B32:546–548
 in situ processes, 125B19:359
 isotopes, 147B14:277
 Izu-Bonin forearc, 125A5:90
 lithology, 153B10:186–198; 209A7:2–4; 9:5–7
 magnetic anomalies, 210B1:17–19
 magnetic fabric, 153B23:422–423
 major element redistribution, 125B27:456
 mineral chemistry, 209B4:4–5
 origin, 149A4:82
 oxygen isotopes, 147B16:312; 153B20:381–388
 paleomagnetism, 147B24:411
 peridotites, 149A4:79–80; 149B22:397–424;
 153B2:23–34; 3:35–59; 173A7:189–190; 9:293;
 195A1:11–15; 209A1:49
 petrography, 147A1:11–12
 petrology, 147A4:114–122; 147B29:484–485
 phase equilibria, 209A6:17–18
 photograph, 149A4:79; 149B21:379, 395; 153A3:51;
 153B3:40–41; 209A3:108; 210A4:26
 photomicrograph, 209A3:81; 5:89; 6:70, 76
 porosity, 147B25:424–426
 reaction conditions, 147B14:282–283
 rift valleys, 147A1:9
 seismic properties, 147B25:426; 195B11:3–5
 stable isotopes, 147B14:255–291
 subsidence, 149B39:628–629
 sulfur, 147B5:99
 tectonics, 195A3:53–54
 textures, 125A8:164–165; 11:262–264
 Torishima Forearc Seamount, 125B1:8
 trace elements, 125B28:490–491
 ultramafics, 118B9:209; 125A7:133; 125B26:431;
 209A3:11
 veins, 195A3:138–139; 209A3:17
 vs. compressional wave velocity, 147B29:488–489
 vs. loss on ignition, 125A7:125; 12:281
 vs. silica, 125A7:125
 See also harzburgites; olivines; peridotites
 serpentinization, multistage, deformation, 209A5:18–19
 serpentinization, syndeformational, hydrothermal alter-
 ation, 209A6:17
 serpentinization, whole-rock, anastomosing fabric,
 153B3:38–39
 serpentinized fraction
 vs. density, 153B25:447
 vs. velocity, 153B25:447
 serpentinized peridotites. *See* peridotites, serpentinized
 serpulids
 biogenic components, 161B6:78–80
 ghost structure, 133B56:793
 lithology, 166A11:354; 182A5:7; 6:5; 10:5–6, 11
 Miocene, 133B29:456
 photograph, 161B6:79; 166B4:355
 Serravallian
 basement, 161B44:573
 biostratigraphy, 151B14:257, 263, 273; 189B5:41
 correlation, 161B44:560
 deformation, 161B25:332–334
 geochronology, 161B21:299
 magnetostratigraphy, 207A8:21
 sediments, 161B5:70–73; 44:562
 seismic units, 161A6:248
 turbidites, 166B5:48
 volcanics, 161A1:11; 161B44:574
 See also Langhian–Serravallian interval
 Serravallian/Tortonian boundary, sedimentation rates,
 189B10:12, 19

- setae, micrograph, 178B18:15–16
settling, hemipelagic, lithology, 190A8:6
SFL. *See* spherically focused logs
shadow pressures, fibrous quartz, 180A11:25
shale
 Albian, 103A1:13; 103B2:15
 Albian–Cenomanian, 103A1:10–11; 9:272, 286
 Cretaceous, 103A9:277; 103B35:598
 Galicia margin W, 103A1:9
 Jeanne d’Arc Basin, 103B44:792–793
 Le Danois Bank, 103A7:118
 Ortegual Spur, 103A7:111
 transform faults, 159A1:10
 schist protoliths, 161B20:282–283
 thin sections, 198B16:19
 See also black shale; oil shale; pelites
shale, carbonaceous, glaciotectonic origin, 119B48:877
shale, hemipelagic, composition, 190A1:3
shale, highly sheared scaly, composition, 190A1:3
shale, laminated
 Aptian, 143B12:185
 photograph, 161A5:146
shale, organic-rich
 photomicrograph, 198B16:21
 sediments, 189A3:52
shale composite, geochemistry, 210B8:59
shale fraction
 porosity, 190/196B11:6–7
 vs. depth, 190/196B11:20
shallow faults. *See* faults, shallow
shallow environment, pore water, 181A3:23–24
shallow marine environment, Mesozoic, 129B11:223
shallow marine sedimentation. *See* sedimentation, shallow-water
shallow resistivity logs
 lithology, 130B35:589, 595, 600
 silicon yield comparison, 138A(2)15:875
 vs. compressional wave velocity, 183A8:95
 vs. depth, 131A6:238; 138A(2)15:875; 144B38:646;
 40:666; 146A(1)4:105; 5:207; 6:280; 181A3:65;
 7:105, 111; 8:82, 87; 9:53; 182A4:75–76; 5:55;
 6:79; 7:61; 8:62; 9:53; 10:63; 12:51; 183A7:175–
 178; 8:94; 189A5:105; 193A3:256; 194A6:64;
 7:105, 107; 9:53; 195A4:153; 197A3:131;
 199A11:81–83; 12:86; 204A4:90; 6:62; 10:83;
 11:48, 51; 205A1:55–56; 4:71–72, 163;
 205B9:22; 209A10:147
shallow spherically focused current logs, vs. depth,
 180A6:182–185; 8:99–100; 9:131–134; 12:132–
 136; 191A4:117
shallow water, currents, 181A1:5–6
shallow-water environment
 biogeography, 144B50:887–893
 Cretaceous, 144B10:211–213
 foraminifers, 144B20:401–410
 lithofacies model, 144B14:275–278, 281–283
 paleoenvironment, 192A6:14–15
 Pigafetta Basin, 129B5:146–148
 stratigraphic synthesis, 144B49:873–885
 subaerial exposure, 133B34:509
 Vanuatu, 134A11:326
shaly coal. *See* coal, shaly
Shannon/Weaver diversity
 planktonic foraminifers, 164B34:351, 353
 vs. depth, 164B34:357
Shannon index, vs. depth, 183B5:30
shape
 gas hydrates, 204B21:1–11
 pebbles, 178B11:5
shape parameter, magnetic susceptibility
 Site 1116, 180A10:53
 vs. depth, 180A5:78; 12:112; 180B21:5
shards. *See* glass shards
shark teeth
 lithology, 166A11:351; 174AXS_A4:14; 194A3:6
 photograph, 144A5:158
sheaf quench texture. *See* textures, sheaf-quench
sheaf spherulitic texture. *See* textures, sheaf spherulitic
shear
 Lamont-Doherty dipole shear tool, 164A7:215
 scanning electron microscopy, 171A_B1:4, 12
 slumps, 159B2:22
 transform faults, 159A1:11; 9:297–299
 See also sense of shear
shear, brittle, photograph, 205A1:69
shear bands
 basalts, 206A3:76
 brecciation, 131A7:277
 clays, 159B2:16
 dewatering, 170B4:4–5
 distribution, 131A6:113, 127, 130–133, 137, 141
 photograph, 134A9:219; 149A4:92; 159A7:240;
 180A7:40; 11:24
 quartz gabbro, 180B3:5–6
 Site 778, 125A7:107
 structures, 180A11:7–8
 See also deformation bands
shear faults. *See* faults, shear
shear folds. *See* folds, shear
shear fractures. *See* fractures, shear
shear planes, triaxial shear strength, 186B17:5
shear relay zones, alteration, 187A13:9
shear sense. *See* sense of shear
shear strain
 Atlantis Bank, 118A6:104
 displacements, 156B4:75
 lithology, 118A6:107
 textural types, 118A6:103
shear strength
 Atlantic Ocean E tropical, 108A2:48, 55; 3:127–128,
 130–131, 133; 4:236, 245, 249; 5:344, 347–349,
 353; 6:423, 426, 429; 7:499–501, 505; 8:567–
 570; 9:636–639, 641–642; 108B23:403
 Barbados Ridge, 110A1:23; 4:109, 112; 7:426–427;
 9:530–531, 537; 110B18:283–284
 barrier functions, 108A5:328
 Bengal Fan, 116A4:72–74, 85–86; 5:117, 128–129;
 6:173, 176–177, 179
 Broken Ridge, 121A2:58; 6:143, 148–149, 183; 8:219–
 221, 227; 9:252; 13:495
 Cagayan Ridge, 124A12:334–335, 337–338
 Celebes Sea, 124A10:165, 167

Chagos Bank, 115A10:757, 762, 765
 clasts, 195A3:43
 consolidation, 127/128B(2)71:1124–1125
 Cornaglia Terrace, 107A9:603, 617, 622
 correlation, 204B8:7
 Costa Rica Rift, 111A4:276–281, 285–286, 289;
 111B20:235–236
 data, 113A12:713–714
 De Marchi Seamount, 107A12:964, 966
 diamictites, 119B8:154–155
 discrete measurements, 171B_A3:90; 4:156; 5:228;
 6:307; 7:345
 Exuma Sound, 101A9:353, 358–359, 361; 10:405,
 409–411; 11:451, 458–460
 Galicia margin W, 103A2:35; 8:148; 9:254, 260–266,
 268; 10:434, 437–443
 geotechnical units, 135B7:111–112
 Gortani Ridge, 107A11:893–894, 897, 899
 Indus Fan, 117A8:170, 176
 Kerguelen sediment ridge, 119A2:38; 14:520, 522–
 524; 15:547–548
 Labrador Sea, 105B51:792–793
 Lima Basin, 112A11:188, 194; 19:829
 Lingayen Gulf, 124E_A13:80–81, 87–88
 lithology, 112B41:629; 185A4:41
 Little Bahama Bank, 101A6:139, 146–149; 7:227, 232–
 235; 8:282, 291–294
 Mariana Basin E, 124E_A18:130, 132–133
 Marsili Basin, 107A6:154, 158
 Mascarene Plateau, 115A5:270, 278–280
 Nazareth Bank, 115A4:150–151, 161–162
 negative pore pressures, 119B8:155–156
 Ninetyeast Ridge, 121A2:58; 10:288, 293–294, 340,
 342, 344, 350; 12:404, 435
 Northwest Providence Channel, 101A12:500; 13:541
 Norwegian Sea, 104A4:176–179, 180–183, 185
 Oman margin, 117A2:26; 12:339, 402; 16:478, 510,
 518; 18:575
 Owen Ridge, 117A2:26; 9:233; 10:276; 19:612
 parameters in sediments, 141B33:411
 peak vs. depth, 171B_A3:90; 4:156; 5:229; 6:307;
 7:346; 172A6:297
 pelagic muds, 195A4:39
 Peru margin, 112A2:41
 phacoidal serpentine, 125B20:363
 Pisco Basin W, 112A18:729–730
 Prydz Bay, 119A2:38; 9:365; 10:428; 12:469–470;
 119B8:145–146, 148, 156, 158
 repressurized sediments, 204B26:7
 Salaverry Basin, 112A11:270, 276; 13:326
 Sardinian margin, 107A8:430–432; 10:770, 773–774
 sediment microfabrics, 120B(1)13:184
 sediments, 133A(1)4:109; 5:158, 163; 6:194–196, 200;
 7:221, 224–225, 231; 8:272, 277; 9:321; 10:372;
 11:438; 12:473; 13:531; 14:588; 136A4:57–58;
 138A(1)9:156; 10:231; 11:306; 12:360;
 (2)13:704; 14:756; 15:844; 16:924, 926; 17:998;
 18:1045; 19:1085; 146B(2)13:194; 151A5:94–95;
 6:139, 142; 7:197–198, 201–202; 8:247–249,
 251; 9:294–295, 298–299; 10:337, 340; 11:373,
 378; 154A6:253; 8:368–369; 155A6:108–109;

7:145–146, 154–155; 8:195; 9:220, 223; 12:352;
 13:400–401; 14:427; 15:454, 459; 16:481–482,
 486; 18:559, 562, 19:585, 587; 20:614, 618–619;
 21:652–653; 22:676–677, 680; 156A6:156–158;
 7:244; 157A4:80–81; 6:160, 165; 7:374; 8:421,
 427; 9:464, 469; 10:529, 537; 164B40:422–423;
 165A4:186, 190; 5:267–269; 6:335; 166A6:97–
 98; 7:164–165; 8:195; 9:256; 10:320; 11:365–
 367; 172A4:133–134; 5:235; 6:292; 174A_A3:80;
 4:131; 5:178; 180A6:65–66; 7:24, 88; 9:50, 219–
 223; 181A3:26; 4:21–22; 5:23; 6:32–33; 7:43;
 8:27; 9:23; 10:27–28; 11:15–16; 12:23;
 190A4:26, 74; 7:18, 43; 9:24–26, 55; 195A5:13;
 204A3:28, 128; 4:22, 126–127; 5:66; 10:24, 115;
 204B12:1–148
 seismic stratigraphy, 107A2:20–21; 107B38:621
 shear modulus vs. depth, 115B42:775; 137/
 140B24:283
 Site 680, 112B43:649
 Site 681, 112B43:649
 Site 682, 112A14:393
 Site 685, 112A17:634, 639–640
 Site 688, 112A20:924–926
 Site 689, 113A5:103–104
 Site 690, 113A6:204
 Site 693, 113A8:351–352
 Site 695, 113A10:541
 Site 696, 113A11:626
 Site 698, 114A5:112, 116
 Site 699, 114A6:186
 Site 700, 114A7:289
 Site 701, 114A8:401–402
 Site 702, 114A9:505
 Site 703, 114A10:576
 Site 704, 114A11:670
 Site 709, 115A7:484, 498
 Site 710, 115A8:611, 622
 Site 711, 115A9:680, 692
 Site 714, 115A11:860, 872–873
 Site 715, 115A12:936, 939
 Site 736, 119A2:38; 5:145, 148–149, 153; 6:197
 Site 737, 119A2:38; 6:195, 197, 199, 202–203
 Site 738, 119A2:38; 7:264, 267–268
 Site 744, 119A2:38; 27:495, 499
 Site 747, 120A6:123
 Site 749, 120A8:264
 Site 751, 120A10:362
 Site 765, 123A4:169, 177; 123B25:494, 496
 Site 766, 123A5:313–314; 123B25:496
 Site 784, 125A12:293
 Site 790, 126A7:195, 199
 Site 791, 126A7:199, 200, 207
 Site 792, 126A8:279, 285
 Site 793, 126A9:379, 386, 388
 Site 798, 128A4:182, 207, 211
 Site 799, 128A5:327, 353, 360
 Site 804, 130A6:202
 Site 806, 130A8:326–327
 Site 807, 130A9:426–428
 Site 827, 134A7:120–121, 129
 Site 828, 134A8:163

- Site 829, 134A9:221–222
Site 830, 134A10:286
Site 831, 134A11:354
Site 832, 134A12:430–431, 450
Site 833, 134A13:517, 530
Southern Ocean, 114B35:661, 667
split-core measurements, 151A5:90
Straits of Florida, 101A5:70–71
stress, 103A9:233
Sulu Sea, 124A11:256–257
Tiburon Rise N, 110A5:245; 110B18:285
Torvane, 132A4:93
Trujillo Basin, 112A16:557, 569, 570
vane shear data, 154A7:320–321
vs. density, 204B8:22
vs. depth, 110A6:342; 9:537; 113A5:106; 6:212; 8:355;
9:467–468; 10:543–544; 11:627; 12:716, 718;
113B17:214, 216–217; 130A9:425;
133A(1)9:327; 10:386; 11:439; 12:489; 13:541;
14:597; 15:660; 16:734; 134A7:130; 8:173;
9:236; 10:300; 12:451; 13:530; 138A(1)9:172;
10:245; 11:314; (2)13:723; 14:789; 15:868;
16:946; 17:1011; 18:1057; 19:1091; 145A3:73;
4:118; 5:177, 179; 6:272; 7:329–330; 8:379;
146A(1)4:93; 5:195; 7:352; 146B(1)15:262–264;
151A5:94, 96; 6:143; 7:199; 8:250, 256; 9:299;
10:339; 154A6:260–261; 7:323; 156A6:161;
157A4:84, 86; 5:133; 6:164; 7:375; 8:428; 9:467;
10:535; 159A6:199; 8:289; 160A4:84; 5:123;
7:198; 8:262; 9:319; 10:372; 11:403; 12:443;
13:463; 14:489; 160B48:637; 164A5:94–96;
7:205; 8:274; 9:304; 164B40:425; 165A3:90–91;
4:190; 5:270; 6:335–336; 166A6:99; 7:166;
8:195; 10:257; 10:321; 11:366, 368; 168A4:89,
91, 93; 5:149, 151; 6:187, 189, 191; 170A7:243;
172A4:147; 5:239; 174A_B7:12; 180A9:127;
181A3:62; 4:45; 5:51; 6:82; 7:103; 182A4:73;
6:75; 8:58; 9:48; 10:59; 11:33; 12:49; 185A4:132,
187; 188A5:76; 189A4:45; 204A3:77, 81; 4:77,
81; 5:14, 41; 10:70; 204B8:17–19
vs. porosity, 204B8:22
vs. sediment fabric and composition, 160B49:659
vs. velocity, 204B8:23
vs. vertical effective stress, 113B17:214, 216–218, 220
Wykeham-Farrance data, 144A3:88; 4:140; 5:195
Yaquina Basin, 112A15:466, 470
See also stress
shear strength, drained
normal faults, 160B49:650
sediments, 160B49:657, 659
shear strength, maximum, 182A7:58
shear strength, mean peak, 182A5:52
shear strength, normalized
sediments, 146B(1)16:278
vs. depth, 172A4:147; 188A4:86; 5:77
shear strength, normalized undrained modulus, vs. axial
strain, 204B12:49–67
shear strength, peak, vs. depth, 130A8:326; 149A5:140;
191A4:112; 195A3:129; 4:148; 5:36
shear strength, residual/peak ratio, 155A10:265; 13:406;
16:487; 17:535; 18:562
shear strength, triaxial
data, 204B26:19
sedimentary rocks, 186B17:1–19
sediments, 186B17:1–19; 204B12:8–10
shear strength, undrained
comparison with gamma ray attenuation bulk den-
sity, 189A3:107; 5:103
cores, 149A5:137, 140; 6:196; 7:251
fault splays, 146B(1)23:364–365
measurements, 131A6:164
normal faults, 160B49:649–656
normalization with respect to effective overburden
pressure, 188A3:153
peak strength vs. depth, 149A6:196; 7:251
sediments, 131A6:204; 131B21:271; 146A(1)5:194;
6:276; 152A6:68–70; 7:86; 154A4:104–105, 111;
5:195; 7:309, 313; 155A6:116; 8:195–197;
10:262, 264; 11:300–301; 12:359–360; 13:406;
15:430–431; 17:522, 533; 157A5:130; 7:362–
363; 159A5:114–115; 6:197, 199; 7:246, 249;
8:287, 289; 162A3:82–83; 4:120; 5:163; 6:197;
7:249; 8:282; 9:320; 10:374–375; 164A5:91–93;
6:133; 7:201; 8:269; 9:304; 169S_B1:28, 32;
171B_A3:80; 4:149; 5:215–216; 6:293; 7:334–
336, 338; 172A3:69; 4:145–146; 5:238; 6:296–
297; 182A4:35, 108; 5:88; 6:32, 111; 7:25, 85;
8:96; 9:81; 10:85; 11:50; 12:78; 186A4:44, 201;
188A3:59–60, 185; 4:35–36, 107; 5:28–29, 93;
189A3:165; 4:62; 5:51, 163; 6:56, 171; 7:48, 146;
204B12:104, 106, 108, 110, 112, 114, 116, 118,
120, 122, 124
Site 888, 146A(1)4:90–91
Site 889, 146A(1)5:197
Site 891, 146A(1)6:277
Site 892, 146A(1)7:349, 353
Site 916, 152A8:103
vane shear data, 154A4:124–125; 5:204–206; 6:268–
269; 8:392–393
vs. depth, 135A(1)5:236–237; 6:287; 138A(1)12:371;
152A6:70–71; 154A4:121; 8:396; 155A6:117;
7:155; 8:197; 9:224; 10:265; 11:302; 12:360;
13:406; 14:431; 15:460; 16:487; 18:535, 562;
19:587; 20:619; 21:653; 22:681; 159A5:116;
162A3:82–83; 4:120–121; 5:164; 6:198; 7:250–
251; 8:282; 9:322; 10:376; 169S_A2:38, 46;
170A3:90; 4:148; 5:186; 172A3:70; 5:238;
174A_A3:78–79; 4:129; 5:179; 180A6:174; 7:6;
186A4:137; 188A3:152; 4:85; 189A3:107; 6:115;
7:94; 190A4:74
shear strength, undrained/overburden stress ratio,
182A6:75
shear strength, undrained peak, 190A6:51; 7:43
shear strength, undrained vane
Site 834, 135A(1)4:153
Site 835, 135A(1)5:228
Site 836, 135A(1)6:276
Site 837, 135A(1)7:326–327
Site 838, 135A(1)8:375, 377
Site 839, 135A(1)9:453–454
Site 840, 135A(1)10:547
Site 841, 135A(1)11:653–654

- vs. depth, 135A(1)4:162; 7:334; 8:380; 9:460; 11:666;
175A3:79, 85; 4:105, 112; 5:138; 6:170, 175;
7:196–197; 8:218, 220; 9:261, 269; 10:301, 309;
11:329–330, 336; 12:378, 380, 382; 13:414, 424–
425
- shear strength, vane
sediments, 132A4:90, 94–95; 138A(2)18:1057;
144A12:447–448; 160A4:72, 83; 5:118, 122;
6:139; 7:191, 197; 8:254, 261; 9:314; 10:371–
372; 11:397, 402; 12:442–443; 13:460, 463;
14:487, 489; 160B48:630, 636–638, 640;
165A3:88; 170A3:83–84, 89; 4:147–148; 5:182,
186; 7:245–246; 172A3:67–68; 180A6:291–294;
189A3:47; 4:23; 191A4:39, 155
- Site 803, 130A5:142–143
Site 805, 130A7:256
Site 807, 130A9:420, 428
Site 811, 133A(1)4:122
Site 812, 133A(1)5:165
Site 815, 133A(1)8:285
Site 816, 133A(1)9:332
Site 817, 133A(1)10:393
Site 818, 133A(1)11:447
Site 819, 133A(1)12:494
Site 822, 133A(1)15:658
Site 823, 133A(1)16:717
Site 824, 133A(1)17:792
Site 825, 133A(1)4:126
Site 881, 145A3:68, 71
Site 883, 145A5:154–155, 162, 164–176
Site 884, 145A6:243–244, 250, 252–264, 266–271
Site 887, 145A8:357–359, 376–377
Sites 885–886, 145A7:315–316, 326–327
- vs. composite depth, 145B36:549, 553
vs. depth, 130A7:257; 132A4:94, 100; 133A(1)13:548;
14:602; 136A4:61; 144A3:83; 4:143; 5:194;
12:448; 145B35:529, 531, 533, 535; 156A7:249;
160B49:650, 657
- well-logging, 156A6:161
- shear strength/effective overburden stress ratio,
110A4:113; 5:244; 126B36:546–547; 127/
128B(2)71:1125–1126; 146A(1)5:195; 7:352;
170A3:90; 4:148; 5:186; 7:243; 154A4:121; 5:203;
7:323; 8:396; 155B6:140; 171B_A3:90; 4:156;
5:229; 6:308; 7:346; 181A5:51; 6:82
- shear strength/overburden pressure ratio, 204B8:25
- shear stress, effective, vs. axial strain, 204B26:17
- shear stress, normalized
vs. axial strain, 204B12:49–67
vs. normalized mean stress, 204B12:49–65
- shear stress, vs. mean stress, 204B12:50–66
- shear structures. *See* structures, shear
- shear surfaces, electron micrograph, 170B3:24
- shear wave velocity
anisotropic media, 102A3:123
basalts, 139B38:598–600; 142B7:54; 163B3:31–35
caliper logs, 176B5:41
cores, 137/140B24:276–278, 280–283
crust, 176B5:8
data, 102B4:60–61; 7:97, 101–103, 105–106, 112,
11:158; 106/109B20:244–246; 176B5:42–69
fabric, 147B19:353
“fast” formations, 102A3:115
fractures, 205B13:7
gabbros, 147B25:421–423
gas hydrates, 164B26:255–257
igneous rocks, 147B25:436–439; 176B2:2–4, 7–11, 19
massive sulfides, 139B45:722; 158B23:325
oceanic crust, 144B40:665–671; 176B5:14–15
peridotites, 153B25:441–442
processing, 190/196B16:4
sea-surface reflections, 156B21:270–271
sediments, 135B48:789–791; 143B18:290–300;
156A6:156, 158–159; 7:238, 244–245
seismic Horizon A, 204B1:32
serpentinite clasts, 195B11:1–12
splitting anisotropy, 118B11:236, 241
synthetic seismograms, 176B5:34–35
tectonics, 123B24:487–489
trough-ridge structure, 116B24:298–301, 306–309
velocity logs, 204B22:12–13
vs. azimuth, 149B24:427–428
vs. bulk density, 176B5:29; 183A5:166
vs. compressional wave velocity, 137/140B24:282;
147B25:440; 152B38:459; 153B25:454;
158B23:324; 176B2:14; 195B11:10
vs. confining pressure, 148B33:413; 163B3:33
vs. depth, 137A2:32; 144B38:646; 156A6:152; 7:245;
164A7:217; 171A_A5:56; 176B5:10–12, 27;
200B1:33; 205B13:17
vs. dry bulk density, 137A2:33
vs. porosity, 176B5:28
waveforms, 102A3:118
See also compressional wave velocity/shear wave ve-
locity ratio; compressional wave velocity/trans-
verse wave velocity ratio logs
- shear wave velocity logs, 144B40:669; 183A5:160;
189A3:110; 5:106; 7:97; 190A4:81; 193A3:256;
4:217; 197A3:131; 200A4:149; 200B1:30;
202A11:48; 12:67; 205A4:164; 209A10:148
- shear wave velocity slowness logs
vs. compressional wave velocity slowness logs, 190/
196B16:15
vs. depth, 190/196B16:13–14
- shear waves, splitting, 147B25:426, 434
- shear zones
alteration, 147A4:133; 149B22:404–405; 176A3:38;
187A13:8–9
Atlantis Bank, 118B8:159
backscattered electron images, 153B7:138–141
basement, 149A7:238
bedding, 159B2:16; 180A8:26
boreholes, 161B24:327
breccia, 134B10:236
brown amphibole veins, 209A5:19–20
chilled margins, 140A2:103–104
clays, 159B1:6
comparison with radiolarian zonation, 156B2:34, 36
Conical Seamount, 125B19:347; 36:605
Costa Rica, 170A1:7
cristobalite, 180A6:143
décollement zone, 156B22:288–289

- deformation, 134B23:421; 141A7:200–201;
 147B13:242–243; 153A3:97–98; 153B6:105;
 156B4:72–73; 160A7:182; 209A5:20; 9:16–17;
 210A3:71–73
- diamict, 178A6:17–18; 9:18–19
- dip orientation, 118B23:414
- discontinuities, 176B10:18–21
- distribution, 131B9:126, 129, 131–132
- domains, 190A5:12
- evolution, 161B44:573
- extension tectonics, 159B10:96–97
- faults, 159B1:7–8; 161B26:351
- foliation, 118B24:425
- forearc rocks, 134A4:51–52
- formation in solidifying pluton, 118B26:487
- Formation MicroScanner imagery, 180B24:7
- gabbros, 153B4:71–74; 179A4:56; 179B(synthesis):35;
 209A3:9
- gneisses, 161B20:284
- hydrothermal veins, 153A4:162–163
- igneous contacts, 176A3:55–58; 205A4:36
- intersection massif, 153B4:64–69
- iron-titanium oxides, 153B7:123–141
- layer contacts, 179A4:51
- lithology, 159A7:231; 170A6:197–198; 173A4:84–85;
 180A8:15; 183A5:45; 209A3:4
- magnetic properties, 134B27:478–480; 176B11:53;
 179A2:6
- magnetite, 176A3:23
- mantle, 173A1:17, 19
- metamorphism, 153B22:401–404
- microstructures, 146B(1)12:207–208
- morphology of late-magmatic shear, 118B26:497
- oceanic crust, 176B5:14–15; 8:12; 9:21–22
- orientation, 209A3:31–32
- overpressure, 160B50:668–669
- peridotites, 149B22:407–409
- photomicrograph, 134A9:216–217; 146A(1)7:330–333;
 146B(1)12:214; 13:226–227, 229, 231;
 149A6:185–186; 153A3:96; 4:128, 161, 166;
 5:188, 190, 203, 205–206; 6:223–224, 234, 238,
 244, 250; 153B1:12, 15; 4:70; 5:79; 8:149; 9:158,
 165, 167; 159A7:240–241; 159B2:21;
 160A5:109; 7:184–185; 9:309; 161A8:368;
 170A6:201; 176A3:187; 179A4:130, 144;
 183A9:71; 187A13:32, 38; 205A5:47–48;
 209A5:115; 10:104; 210A3:136
- photomicrograph, 147B14:291; 160B48:638; 49:658;
 161B20:285; 176A3:190–191; 179A4:143;
 180A11:27; 209A6:73–74, 87
- plate spreading geometry, 209B1:13–15
- Pliocene–Pleistocene interval, 180A3:5–6
- porphyroclasts, 153A5:206
- quinones, 205B8:22
- schistose mat serpentine, 209A5:23
- sedimentary wedges, 170A4:112–113
- sediments, 205A5:20
- seismic models, 131B6:77
- serpentinites, 153B1:16; 3:44, 47
- Site 786, 125A14:330; 125B14:265
- Site 787, 126A5:69
- Site 799, 128A5:270
- Site 892, 146A(1)7:328–330
- structures, 146B(1)13:218; 156A6:114–127;
 159A7:239–240; 8:278–279; 159B2:17;
 160A14:484; 180A8:23–26
- tectonics, 134A9:206, 208–211; 179B(synthesis):6
- thickness vs. depth, 156A6:126; 156B22:285
- troctolites and gabbros, 147B14:267–268
- ultracataclasite, 187A13:12
- vs. depth, 156A7:214
- See also* sense of shear
- shear zones, anastomosing, photomicrograph, 209A5:90
- shear zones, brecciated, photograph, 183A7:110
- shear zones, brittle
- deformation, 147B20:362, 364
- dip vs. depth, 209A10:107
- orientation, 209A5:27
- photograph, 209A5:142
- photomicrograph, 209A5:122
- stereo plots, 205A5:69; 209A5:132, 143–144; 6:101
- thickness, 209A5:147
- shear zones, brittle-ductile
- permeability, 118B26:443–444
- recovery and boundaries, 209A6:78
- shear zones, cataclastic
- dip, 209A3:115–116
- gabbros, 147A1:11
- igneous rocks, 209A3:26
- mid-crustal levels, 147B28:472
- photograph, 147A3:75
- serpentinite breccia, 149B35:572
- stereo plots, 209A3:135; 9:81
- thickness, strikes and dips, and depths, 147A3:82
- shear zones, conjugate, basement tectonics, 149B38:614
- shear zones, conjugate brittle
- photograph, 205A4:127
- stereographic plot, 205A4:129
- shear zones, crystal-plastic, peridotites, 153A3:95
- shear zones, discrete, strain, 153B9:157–159
- shear zones, ductile
- dip orientation, 118B24:428
- lithology, 210A3:24
- metamorphism, 173A6:155–156
- mineralogy, 153B5:78–93
- ocean–continent transition, 149B47:718
- photograph, 209A3:104; 210A3:170, 261
- structures, 125A7:128; 12:288, 290; 125B30:523, 527–
 529, 531; 209B1:12–15
- shear zones, gabbroic
- geochemistry, 153B6:99–121
- photomicrograph, 209A5:99
- shear zones, mylonitic
- alteration, 209A3:11–12
- Atlantis Bank, 118B24:416
- foliation, 118B23:411; 24:418; 423, 425
- hydrous fluid pathways, 118B24:427–428
- lower structural domain, 118B24:426
- middle structural domain, 118B24:425
- photograph, 153B7:125, 137–141
- structures, 209B1:12–15
- upper structural domain, 118B24:423

- shear zones, normal, foliation and lineation, 118B23:413
- shear zones, retrograde, gabbros, 176A1:18–22
- shear zones, reverse
 mylonites, 209A3:33
 photograph, 176A3:192
- shear zones, schistose, mineralization, 135B20:319
- shear zones, semibrittle
 gabbros, 209A10:19
 metamorphic facies, 209A6:23–24
 photomicrograph, 209A6:96
- shear zones, serpentine, photomicrograph, 209A5:109
- shear zones, serpentinite, vs. depth, 153A3:101–102
- shear zones, single-strand, structure, 146B(1)13:218–219
- shear zones, synsedimentary, photograph, 210A3:148
- shear zones, talc-bearing, genesis, 209A5:20
- shear zones, ultracataclastic, photograph, 147A3:79
- sheared clays. *See* clays, sheared
- sheared contacts
 alteration, 147B20:366
 lithology, 176A3:15–16
- shearing
 harzburgites, 195A3:17
 mica schist, 180A7:12
 serpentine mud, 195A3:55
- shearing, dextral, photograph, 186A5:89
- sheet drape geometry, seismic units, 178A7:24
- sheet flows
 basement, 165A8:392–393
 Cagayan Ridge, 124A11:255–256; 14:403
 diabasic basalt, 128A3:86
 lava flows, 183A8:15
 lithology, 206A1:27–28; 3:53
 mineralogy, 121A12:392–393
 Ninetyeast Ridge, 121A12:391–393; 121B28:526
 petrology, 135B52:837
 photograph, 206A1:73, 75; 3:164, 168
 Sulu Sea, 124A11:255, 261–263, 274
 thickness, 192B1:4
- sheet lobes, volcanology, 197A3:18
- sheet silicates. *See* phyllosilicates
- sheets, photograph, 183A6:108
- shelf basins, tectonics, 184A1:4
- shelf-edge environment
 lithology, 181A3:9–11
 sediments, 182A1:28–30; 7:11
 seismic sections, 188B14:23
- shelf environment
 biostratigraphy, 182A1:29; 9:13; 188A5:14–15, 19
 Coniacian–Eocene interval, 159B12:118
 deposition, 188B2:11–12; 204A4:10–11
 Holocene, 133B22:303–313
 Lima Basin, 112A5:79–80, 88
 lithology, 159A7:232–233; 162A9:298, 302–303;
 174AX_A1:18–22, 32–35; 174AXS_A2:22–23,
 25–26; 5:22–23; 183A4:6; 182A8:9–10
 middle–upper Eocene, 189A1:52
 Neogene, 188A4:19–20
 Paleocene–Eocene interval, 150X_B23:305–315
 paleoenvironment, 159A6:175–176; 159B11:105
 sedimentation, 133B23:315–325
 Site 748, 120B(1)8:107; (2)48:900
- See also* outer shelf; paleoenvironment; sedimentation
- shelf escarpments, middle Miocene, 182A1:4
- shelf facies, well-logging, 194A7:35–36
- shelf sediments. *See* sediments, shelf
- shelf topsets, deposition, 178A1:3; 2:4–5
- shelf transects, sediments, 178A1:13–15
- shelf water, Neoglacial, 178B34:7
- shell beds
 Lima Basin S, 112A19:807, 813
 Pisco Basin W, 112A18:711, 721; 112B19:329
 Salaverry Basin, 112A12:252, 254–255
 Site 680, 112B19:329
 Site 688, 112B19:329–330
 Trujillo Basin, 112B19:329
- shell fragments
 amino acids, 174AXS_A7:27–29
 Cenomanian–Coniacian interval, 159B12:116–117
 cumulative percentages, 174AXS_A3:73–77
 lithology, 155A17:508–509; 160B45:579; 161A9:393–
 397; 164A8:246; 169S_A2:21; 172A4:84, 91;
 174A_A3:45, 56–57; 4:104–111; 174AXS_A1:19–
 20, 22–23, 27; 2:19–23, 26; 3:18–19, 22–34;
 5:22–25, 29–30, 33–34, 39–42; 6:26–27, 34–35,
 38, 45; 7:13–18, 22–23; 175A3:56; 6:150; 7:179;
 13:395; 180A6:25; 9:12–13, 19; 12:13, 17–20;
 180B6:5–6; 181A3:6–8; 182A10:11; 183A3:5–6;
 5:5–6; 6:7–8; 7:7–8; 8:5–6; 184A6:5; 189A3:13,
 15; 5:14–15; 7:16–18; 202A5:5–8; 207A4:9
 occurrence, 174AXS_A3:80–83
 photograph, 155A17:511; 161A6:192; 164A8:252;
 172A4:87; 174A_A4:113; 178A7:41; 180A6:88,
 108–112; 9:75, 78–79; 12:77, 80; 183A4:41;
 5:69; 6:77; 189A6:82; 190A9:32; 194A5:50;
 198A1:114; 201A10:36; 207A5:49, 52
 photomicrograph, 159A6:171; 160B32:405; 33:426;
 37:473, 475; 38:506; 173B6:8; 180A12:81, 83
 sandstone, 112A20:889
 sedimentation, 180A1:4
 sediments, 164A8:247; 169S_A2:60
 Site 765, 123A4:94, 102–103
 strontium, 150X_B25:351
 strontium isotopes, 174AXS_A6:104
 textures, 174A_B3:4, 9
 turbidites, 173B6:3
 vs. depth, 151A8:236
See also ammonites; aragonite shell; belemnites
- shell fragments, calcitic, lithology, 159A6:163
- shell fragments, comminuted, Oman margin, 117A3:351
- shell fragments, mollusk
 lithology, 174AX_A1:22, 26, 28–30, 32
 photograph, 151A8:235
- shell fragments, pteropod-rich, photograph, 175A4:91
- shell hash
 lithology, 150X_A1:19
 Ninetyeast Ridge, 121A15:521, 523
- shell lags, photograph, 207A5:54
- Shewanella benthica*, cultivation, 201B3:5
- Shewanella* spp.
 cultured isolates, 201B1:16; 2:9; 3:6
 microbial populations, 187B6:8; 201B3:7–9
- shield volcanoes, lava, 157A2:13, 20

- ship hull, seismic sources, 148B26:349–352
 ship systems, hardware, 132A5:135–137
 shipboard geophysics, deformation, 209A1:4–5
 shoaling
 carbonate compensation depth, 208A1:4–5; 208B1:20
 Neogene, 165B2:29
 Paleocene/Eocene Thermal Maximum, 198B8:1–36
 sedimentation, 144A7:285
 shock deformation. *See* deformation, shock
 shock metamorphism, Cretaceous/Tertiary boundary, 145B28:432
 shore scleroscope method, hardness, 137/140B31:347
 shoreface environment, lithology, 174AXS_A3:17, 29–33; 5:40; 6:22–23, 34, 44–46, 52; 7:17, 22–23, 46, 48–49, 51
 shoreface/foreshore environment, 174AXS_A3:17, 28
 shorelines
 cyclical changes, 133B7:94
 See also changes of level; eustatism; regressions; sea level changes; transgressions
 short events. *See* cryptochrons
 shortening
 parallel to strike, 131B8:106
 perpendicular to strike, 131B8:106
 plate convergence vector, 131B29:372
 strain, 160B40:521–522
 shoshonites
 geochemistry, 134B19:387
 lamprophyre, 180A7:15–16
 mantle, 180B1:6
 mesostasis, 180A7:13–14
 pyroclastics, 161B12:151–152
 volcanic ash, 134B21:409, 411–412
 shrinkage. *See* volume shrinkage
 shrinkage cracks
 lithology, 174A_A3:55
 scanning electron backscattered images, 187B7:21
 Sulu Sea, 124A10:222
 shrubs
 pollen, 167B20:240–244
 See also trees and shrubs
 shrubs/herbs ratio, vs. age, 167B20:242–243
 Sicilian, calcareous plankton, 160B12:155–165
 siderite
 alteration, 144B28:479–480, 484–487; 183A7:44–47
 associated with magnetic susceptibility, 161A7:309
 authigenesis, 172A5:226
 authigenic carbonates, 151B24:419, 421, 434; 164B30:303–306; 184B13:1–15
 breccia, 161A6:217
 burrows, 151B24:417–418
 cryptocrystalline, 210A3:51
 deposition, 210A3:62
 diagenesis, 150B11:206–207; 17:317–319; 155B30:498–501, 672; 164A6:149; 9:314; 164B13:139–146
 Galicia margin W, 103A9:236
 Labrador Sea, 105B10:141
 lamination, 150B11:212
 lithology, 150A6:72–74; 10:316–317; 155A13:391; 159A7:232; 164A9:283, 285–286; 170A4:104; 172A4:91; 174A_A3:56–58; 4:111, 113–115; 5:163; 174AXS_A6:43–46; 177A4:6–7; 183A6:8–9; 189A6:18
 magnetic properties, 159B19:194; 161A7:316
 manganoan, 151B24:422–425
 methanogenesis, 174A_B(synthesis):9
 mineralization, 159B2:17
 Mossbauer parameters, 127/128B(1)43:741
 nodules, 150A8:211–214; 188B15:4–7
 paleoenvironment, 174AX_A1:29
 peak intensity vs. depth, 174A_A3:59; 4:116; 5:163
 photograph, 151B24:434; 152A8:94; 159B20:195; 174A_A4:114; 183A7:140, 142–145, 147–148; 210A3:231
 photomicrograph, 150B17:328; 183A7:116
 rock magnetism, 161A7:322
 sediments, 155A14:424; 164A7:183–184; 172B2:4–6
 shallowest occurrence, 128A5:273
 volcanic rocks, 183B17:2
 siderite concretions. *See* concretions, siderite
 siderite nodules. *See* nodules, siderite
 siderite rhombs. *See* rhombs, siderite
 siderite veins. *See* veins, siderite
 sideritization
 lithofacies, 150X_B2:20
 Site 748, 120A7:174, 228; 120B(1)8:99–100; 9:119, 126
 Site 750, 120B(1)8:103
 Site 765, 123B3:79
 Site 799, 127/128B(1)34:611–612; 128A5:260, 272, 275–276, 289
 volcanic ash, 131A6:173–184
 vs. depth, 150A6:74; 7:146; 8:214; 151B24:421, 423, 425; 164A6:112; 7:182; 9:286; 164B30:308; 183A7:139
 weathering, 152B9:117
 X-ray diffraction data, 159A6:163; 164A6:112; 198B16:5; 204A10:50
 X-ray fluorescence data, 161A6:237–238
 See also alteration; diagenesis; nodules; manganosiderite
 sideromelane
 alteration, 124B13:188; 157B12:150; 24:412
 basalts, 197A3:19–20
 composition, 157B15:260; 16:284–285; 25:421–428
 definition, 125B40:675
 deposition, 157B16:279–282
 fractal dimensions, 157B13:196
 occurrence, 126B9:140–141; 129B5:148
 particles, 157B13:193
 petrography, 129B18:348; 157A7:351, 353–355; 10:521; 195A4:16
 photograph, 152B8:112; 157B12:176–180
 photomicrograph, 129B5:152; 157B13:199–200; 16:291
 Site 783, 125B40:679
 ternary diagrams, 157B13:190
 vitroclasts, 157B16:270–271
 volcanic ash, 151B17:315
 volcaniclastics, 157B13:187
 volcanism, 157A2:23

- vs. depth, 157B13:191
- sideromelane clasts. *See* clasts, sideromelane
- side-scan imagery
 - backscatter, 158A2:16–18
 - deep-towed, 204B3:16
 - diapirs, 164A5:67
 - intersection massif, 153B4:64–69
 - Limalok Guyot, 144A3:48; 144B33:570
 - Lo-En Guyot, 144A3:112; 144B33:571
 - Site 873, 144A5:152
 - Site 874, 144A6:213, 215
 - Wodejebato Guyot, 144B33:572
- Sidufjall Subchron
 - biohorizons, 167B1:21
 - correlation, 145B34:497
 - magnetostratigraphy, 135A(1)10:531–533; 11:615–619; 138B38:781; 167A(1)15:442; 173B11:13; 181A7:28; 194A4:18–19
 - Oman margin S, 117B5:132; 7:175
 - sediments, 202A8:21; 202B4:14–15
 - Site 704, 114B25:461
 - Site 745, 119B46:818
 - Site 852, 138A(2)17:990–993
 - Site 853, 138A(2)18:1038–1041
 - timescales, 138B6:87
 - vs. gamma ray attenuation density, 138A(1)6:88
- sieve texture. *See* textures, sieve
- sigma values
 - lithology, 112B11:180; 120B(2)43:834
 - neutron absorption cross section, 148B30:389–394
 - Site 689, 113B54:966, 970
 - Site 696, 113B54:966, 970
 - Site 795, 127/128B(1)30:543
- sigma values (lignin concentration), vs. depth, 201B4:19
- signal conditioning, strainmeters, 186A3:8
- signal/noise ratio, mantle, 195B2:5
- silcrete, weathering, 120B(1)8:104
- silica
 - Albian–Turonian, 210B8:7–8
 - alteration, 168B10:128; 183A7:153; 187A5:4; 10:3–4; 187B1:7–8; 5:10–11; 193A3:69; 4:47–48; 193B1:14–15, 19; 200A3:31; 206A3:66, 71; 209B1:9
 - amphibolites, 173A6:133
 - apatite, 176B9:13
 - authigenesis, 172A3:63; 4:125–126; 5:225–226, 228; 198B16:4–5
 - backarc vs. forearc sites, 126B32:498–500
 - basalts, 134A9:199–200; 152B30:363, 365–366; 40:491; 158B17:217; 163B7:70; 168A5:123; 169A3:95; 183A5:34–35; 192A7:8; 195B8:8; 196A3:32, 96
 - basement, 126A9:369; 128A3:98; 183A6:48; 7:132; 8:18; 9:26–27; 200B2:3
 - bentonites, 123B4:110
 - biogenic opal, 178B23:8–9
 - biogenic vs. nonbiogenic sources, 121B13:264, 267
 - black shale, 207A4:26; 5:29
 - breccia, 158A7:79–81
 - bulk rock and mineral chemistry, 153B10:199–205
 - Cagayan Ridge, 124A12:314, 328; 14:403; 124B29:389
 - calcium-magnesium oxide, 125B9:149–150
 - Campanian–Maastrichtian interval, 121A13:467
 - Cape Basin N, 175A20:552
 - carbon dioxide reduction zone, 188A3:46
 - carbonate content, 121B24:475
 - Celebes Sea, 124A10:155, 174–176, 183; 13:365–366, 368
 - Chagos Bank, 115A10:750–751
 - chemical reactions, 150X_B24:338–339
 - chert and precipitation, 119A7:254
 - clasts, 158B17:217; 195B4:7–84
 - clay, 123A4:158; 158B20:280–282; 169B6:6, 23
 - clinoptilolite and diagenesis, 119B11:218
 - composition, 106/109B12:149
 - concretions, 115B37:689
 - core vs. log measurements, 126B40:593, 597
 - Cretaceous, 121A12:402
 - crystallization, 185B10:1–11
 - dacite lava, 193B2:8
 - dark–light cycles, 127/128B(1)32:569
 - deep-sea sediments, 185B7:5
 - deposition, 138B1:11–13; 145B14:219–230; 175B(synthesis):44–45
 - diagenesis, 115B37:689; 119B18:364; 121A13:498, 500; 121B13:265–267; 27:521; 40:786; 123A4:149–150, 152; 123B2:70; 41:786; 124B14:206–207, 214–215; 36:499; 127A1:23; 5:190; 7:347; 127/128B(1)1:3–31; 3:49–56; 6:85; 36:646; 39:682, 688; 40:701; (2)79:1263, 1267; 80:1281–1282; 81:1305–1307; 128A4:149–150; 5:278–281; 129B3:89; 130A10:528; 136B6:82–83; 150X_B3:27–28, 30; 157B38:630; 160B33:427; 161A5:149; 167B32:350; 174A_A3:74; 180A9:43–44; 181A3:23–24; 4:14; 5:14; 6:20; 186B9:7; 196A1:13; 205A4:21; 207A7:29; 208A6:54
 - diatoms, 127A7:362–363; 154B33:483–490
 - dilution, 123B8:169, 177, 187
 - discontinuities, 119A6:187
 - discriminant diagrams, 200A1:63
 - dissolution, 117A10:282; 127/128B(1)20:350; 162A3:79; 5:158; 174A_A3:73–74; 175A8:213–214; 10:295; 17:511–512; 175B(synthesis):44–45
 - electron microprobe data, 148B14:210; 39:487
 - element correlations, 158B27:378–382
 - epidote, 176B9:12
 - eruption explosivity and content, 121B14:287
 - experimental liquids, 152B30:366
 - extraction curve, 167B14:204
 - Factor 1, 188B7:27
 - ferromanganese crusts, 144B44:751–753
 - fine-grained sediments, 210B8:14
 - fluid geochemistry, 158A7:124; 8:168–169; 9:173
 - formation, 119B11:219; 127/128B(1)3:52–54
 - frequency distribution, 135A(1)10:514
 - gabbros, 176B6:16; 8:3–14; 179A4:45–47; 179B(synthesis):9, 14; 205A4:33; 209A3:140; 6:30
 - garnet-biotite gneiss, 183A5:37
 - geochemical logs, 118A6:174, 178; 118B15:276, 278; 137/140B30:345–346; 154A5:217

geochemistry, 151A13:411–412; 152A8:99; 158B3:46–70
 glass shards, 126B33:512; 180B8:18
 glauconite, 120B(1)9:120
 granites, 161A6:216
 harzburgites, 153A3:74
 high-resolution profile, 119B20:398; 157B36:609–612
 hyaloclastite, 206A3:70
 hydrothermal circulation, 139B20:399; 169A1:11
 hydrothermal clays, 158B17:217
 hydrothermal fields, 158A1:8–10; 158B1:7, 11, 21–22; 3:42–46; 27:370–380
 hydrothermal reactions, 209A9:11
 hydrothermal units, 185A3:13, 29–31
 igneous rocks, 135A(1)4:149–151; 163X_A4:13; 7:5; 209A5:35–39
 ignited sediments, 138A(2)15:846–847
 interpillow material, 185A3:116
 intersite correlation, 117A1:500
 iron-rich liquids, 118B4:97
 Japan Sea, 127/128B(2)78:1235–1237, 1239–1241
 Juan de Fuca Ridge Middle Valley, 139B16:344–347; 17:359–367; 22:435; 44:713
 Kerguelen sediment ridge, 119A14:517, 544
 lateral flow, 160A9:311, 313
 lava flows, 121B32:615, 629; 152B28:341; 197A3:21
 Lima Basin, 112A11:184, 186; 19:823
 limestone, 143B13:211, 213, 221; 144A7:275; 8:302
 lithification, 121B13:261–269
 lithology, 183A4:19; 5:17; 7:39; 185B1:11; 196A3:18; 207B8:4–7; 210A3:33, 53
 lower Campanian–upper Paleocene, 210B8:10
 mafic and ultramafic rocks, 153B10:187–189, 198
 magmas, 183A7:40
 magmatic structures, 176A3:60
 major oxide correlation in tephra layers, 121B14:287
 marginal basins, 180B6:21
 Mascarene Plateau, 115A5:236, 260
 massive sulfides, 139B18:377
 melting regime, 187B1:14–15
 metamorphic rocks, 161B28:375
 metasedimentary rocks, 152B10:135
 metasomatism, 209A3:18–20
 micas, 176B9:11
 mineral separates, 158B3:28–29; 7:94
 mineralogy, 121B13:261–262; 27:521–522
 Miocene, 115B25:485; 119B11:218
 mud, 155A9:218, 296–297, 521
 nannofossil clay, 184B12:1–25
 natrolite, 176B9:13
 Nazareth Bank, 115A4:144–145
 Neogene, 145B16:254–255
 North Atlantic Deep Water, 113B9:127–128
 Norwegian Sea, 104A4:106
 Oman margin, 117A11:361; 12:389, 403–404; 13:432; 14:459, 462; 15:480; 16:521; 18:578–579
 opal, 119B11:217; 175B4:1–16; 21:8–10
 opal-CT, 110A5:220
 organic matter, 160A8:247; 9:310–311; 10:363; 175A20:550
 Owen Ridge, 117A10:281–282

Pacific Ocean W, 124B31:414–415; 35:474–475
 palygorskite sediments, 123B41:785–786
 percent change from protolith, 137/140B17:203
 peridotites, 209A3:34; 6:28; 7:21
 phase dissolution rate, 126B34:525, 528
 photograph, 141B8:113; 150X_B3:47; 158A7:80–81; 10:191; 187A5:14; 10:12–13; 12:39; 193A4:69; 206A3:218, 232, 242, 244
 photomicrograph, 185A4:83–84; 187A1:39; 6:31; 12:33; 193A6:17; 206A3:279
 physical properties, 121A6:139; 121B27:521–522
 Pisco Basin W, 112A18:727, 734
 pore water, 116A4:60, 67; 5:108–109; 6:167, 170; 119B18:372; 19:386; 121B13:266; 14:277; 127/128B(2)79:1266; 131A6:163–165, 167–168; 131B32:399; 133A(1)5:155–156; 7:216; 9:316, 318–319; 11:432; 13:524; 15:634; 16:709; 17:783; 134A7:114; 8:157–158; 9:204; 10:279–280; 11:347; 12:417; 135A(1)4:127; 5:216; 9:432; 136A4:55–56; 5:71; 138A(1)10:228; 11:299; 12:356; 143A6:136; 9:331; 144A3:68; 5:179; 6:232; 8:302; 146B(2)25:331; 149A5:136; 6:191; 7:244; 150A7:173; 8:235; 9:291; 10:334; 151A7:181–182; 8:240; 9:286; 10:333; 11:366–367; 154A5:185; 6:249; 7:302, 304; 8:355, 359; 9:436; 155A7:141; 8:191, 193; 9:217; 10:261; 11:295; 12:349; 13:398; 15:450; 16:478; 17:520; 18:558; 20:611; 156A6:150; 157A4:78; 5:125; 6:155–156; 7:358; 8:417–418; 9:459; 10:523; 157B36:609–612; 159A5:111–112; 6:195; 7:245; 8:285–286; 160A4:67; 5:110; 7:187–188; 11:391; 161A4:89; 6:236; 7:321–322; 9:405, 408; 162A3:76; 4:115–116; 6:193; 7:247; 8:276; 9:310, 312; 10:362; 164A6:129; 8:264–265; 9:300–301; 165A3:76; 4:168–169; 5:260; 6:320; 166A6:94–95; 7:162; 8:190–191; 9:252, 254, 267; 10:313–316; 167B32:343; 168A4:83–84; 5:136; 169A4:171–175; 5:218–219; 6:279; 170A3:74–75; 4:134; 5:175–176; 6:205; 7:237; 171B_A3:77; 4:144; 5:208–210; 6:263–280, 286–287; 7:334; 172A6:286–288; 174A_A3:73; 4:123; 5:171; 175A3:73; 4:101; 5:130; 6:164; 7:189–190; 8:213–214; 9:257; 10:295, 297; 11:326; 12:370; 13:409–410; 14:445; 15:472–473; 177A3:12; 4:16; 9:13; 178A4:22–23; 5:19; 6:14; 7:16; 180A1:25; 5:31–33; 6:54–56, 58; 7:21; 8:31; 9:40; 12:38–39; 181A3:22; 4:19; 5:20; 6:30; 7:38–39; 8:31; 9:20–21; 182A1:24; 5:19; 6:28; 7:21; 8:24; 9:19; 10:24; 11:14; 12:20; 184A1:31–32; 4:21–22; 5:19; 6:14–15; 7:19; 8:8–9; 9:23; 188A4:30; 5:24; 189A3:44–45, 161; 4:22, 60; 5:47, 158; 6:53, 166; 7:44–45, 140; 190A4:17–18, 64; 5:22, 70; 6:16; 7:13; 8:17, 44; 195A3:33, 35–37; 198A3:36; 4:27; 5:28–29; 6:26; 7:24; 8:22–23; 9:30; 199A8:15–16; 9:10; 10:16; 11:25; 12:26; 13:21–22; 14:18; 15:12; 202A3:13; 4:15; 5:13; 6:14; 7:18; 8:23; 9:19; 10:17–18; 11:15; 12:15–16; 13:14; 205A4:47; 5:32; 6:17; 206A3:39; 207A5:26; 6:32; 8:28
 porosity, 114B35:661–662
 precipitation, 114B37:696–697, 699; 127A5:174

- productivity, 121A13:464; 121B44:931; 138B24:546–547; 29:633–635; 30:644–645; 36:763
- profiles across microbially processed glass, 148B13:200
- pumice layers, 126B33:514, 516; 34:525
- quartz gabbros, 180A11:6
- radiolarians and silicoflagellates, 123B2:70; 41:786; 160B11:144–145
- rare earths, 127/128B(1)39:682
- recrystallization, 138A(2)13:699
- refractive indexes, 135A(1)5:199; 6:258
- relative position, 163X_A1:16
- removal rates in Japan Sea, 127/128B(1)26:447
- reversed weathering, 113A9:485
- rhyodacites, 193A6:8
- rock-water reaction zone, 188A3:46
- Salaverry Basin, 112A12:255, 267, 270, 322
- Sardinian margin, 107A10:785; 107B15:237
- saturation level, 115B31:595
- seawater, 165B19:294; 175B(synthesis):59
- sediment supply, 115B37:690
- sedimentation, 177B(synthesis):6; 183B7:9–10
- sediments, 125B7:124; 139A7:318, 328; 149A4:99; 150B20:363–364; 151A7:184; 8:241, 243; 9:286–287; 10:334; 11:368; 152A11:237; 12:270, 272; 156A7:235; 162B14:200; 166A11:364; 167A(1)4:75; 5:104; 6:144; 7:166; 8:193; 9:232; 10:261; 11:295; 12:328; 13:368; 14:406; 15:447; 16:475; 167B25:284–288; 169S_B1:40; 170A4:140–141; 5:177–178; 6:206; 172B5:4–5, 22; 180B6:6, 10, 15; 182A4:30–31; 184B19:6; 190A9:18; 205A4:23; 5:17; 6:10; 206A3:42
- sepiolite-palygorskite formation, 123B2:69
- serpentine sediments, 125B18:334
- shear strength, 119A6:197
- silicification front, 127A5:205
- sills, 210A3:68
- sinks, 126B34:521–522
- Site 682, 112A14:374, 389
- Site 685, 112A17:628
- Site 688, 112A20:910, 912–913
- Site 690, 113A6:231
- Site 693, 113A8:376–377
- Site 696, 113A11:649–650
- Site 698, 114A5:108–109
- Site 699, 114A6:174; 114B37:692–693, 695
- Site 700, 114A7:278
- Site 701, 114A8:389; 114B40:741, 743–745
- Site 702, 114A9:499, 501
- Site 703, 114A10:567
- Site 704, 114A11:648–649
- Site 708, 115A6:416
- Site 709, 115A7:481
- Site 710, 115A8:609
- Site 711, 115A9:674–675; 115B38:701
- Site 714, 115A11:858
- Site 731, 117A19:618
- Site 736, 119A5:137–139, 156
- Site 737, 119A6:186
- Site 738, 119A7:255–256; 119B16:301
- Site 739, 119A8:312
- Site 740, 119A9:362
- Site 741, 119A10:385
- Site 742, 119A11:418
- Site 743, 119A12:466, 475
- Site 744, 119A13:491
- Site 747, 120A6:118
- Site 748, 120A7:209; 120B(1)8:102, 119
- Site 749, 120A8:262
- Site 750, 120A9:313
- Site 751, 120A10:357
- Site 765, 123A4:148, 161
- Site 766, 123A5:304
- Site 779, 125A7:126
- Site 783, 125A11:260
- Site 787, 126A5:88
- Site 793, 126A9:378
- Site 794, 127A4:108–109; 127/128B(1)39:682
- Site 795, 127A5:205; 127/128B(1)39:683
- Site 796, 127A6:280
- Site 797, 127A7:362–363, 369; 127/128B(1)39:688
- Site 798, 127/128B(1)42:722; 128A4:174–175, 184
- Site 799, 127/128B(1)2:36, 46; 34:611, 722; 128A5:318, 320–321, 332
- Site 855, 139A5:116, 129, 139
- Site 856, 139A6:191, 196, 223, 225
- Site 857, 139A7:339, 355
- Site 858, 139A8:477, 515–518
- Sites 849 and 850 comparison, 138A(2)15:854
- Sites 856–858, 139B11:228–250
- skeletons, 191A4:15
- smectite authigenesis, 125B7:128
- sources, 121B13:262; 125B7:128, 130; 127/128B(1)9:148
- Southern Ocean, 114B31:593; 35:664–665
- standard deviation, 186B9:20
- stratigraphy, 123A4:152; 158A7:67–68
- sulfate reduction zone, 188A3:45
- Sulu Sea, 124A7:103; 11:239, 265
- tektites, 150B13:248–250, 253–258
- temperature of diagenesis, 123B2:70; 127/128B(1)1:3
- tephra, 126B5:71; 186B9:8–9, 16–17; 205A4:25
- textures, 141B8:106–107
- tholeiitic basalts, 203A3:13
- thomsonite, 176B9:13
- titanium hydrogarnet, 206B9:2–6
- transitions, 127/128B(1)3:53
- troctolites, 209A10:23
- Trujillo Basin, 112A16:553
- Turonian–uppermost Santonian, 210B8:9
- upper Paleocene–middle Eocene, 210B8:12
- veins, 176B9:15–16, 33–34; 193A3:59–65
- velocity and percentage, 118B12:247, 249
- volcanic ash, 120B(1)11:153; 123B4:103; 125B15:279, 291–292; 126B3:60; 127/128B(2)87:1380–1385; 131A6:172; 131B14:178, 180–182; 151B17:314; 165A4:180, 183; 165B19:295; 180A9:43; 201B19:11
- volcanic glass, 124B35:468–469; 125B8:136; 135A(1)1:17; 135B3:27; 141B27:338, 342; 201B19:10

- volcanic rocks, 152B28:342; 161B27:364–369;
183A7:40–42
- volcaniclastics, 135A(1)11:596–597; 157A7:354–355
- volcanism, 165A8:390
- vs. age, 135B3:32; 52:834–839; 53:850; 145B23:357;
44:664; 152B6:71; 154A9:439; 184B12:19–20;
19:19
- vs. alkalis, 151B17:319; 18:342; 19:356; 161B23:146;
27:366; 178B22:17; 183A1:58, 71, 98; 192A1:39,
45; 3:108; 4:83; 5:70; 6:72; 7:34
- vs. alteration, 148B4:49
- vs. aluminum oxide, 135B3:40; 4:59, 64; 139B11:225;
151A8:243; 180B6:14, 36; 8:18; 186B15:21;
193B2:21; 200A1:63; 3:107; 209A10:114;
210A3:251; 210B8:31
- vs. aluminum oxide/titanium oxide ratio, 183A7:137
- vs. amorphous silica-clays, 135B43:698
- vs. barium/zirconium ratio, 152B27:320–321; 28:343
- vs. calcium carbonate, 123A4:158
- vs. calcium oxide, 134B18:370; 135B4:59, 64; 6:97;
156B28:350; 157B12:150; 15:240–245;
180B8:18; 193B2:21; 195B4:26; 198B17:19
- vs. chromium, 209A5:156
- vs. depth, 113A5:129–130; 6:237; 8:380; 9:486;
10:561–562; 11:650–652; 12:736–737;
114B11:651; 37:687; 119B18:363; 131A6:128–
138; 133A(1)9:318; 13:526; 15:635; 17:784;
134A7:113; 8:160; 9:207; 10:282; 12:422;
13:506; 134B8:113; 117–118, 124–126; 18:368;
135A(1)4:108, 128; 5:200; 7:304, 320; 8:369;
9:417, 449; 10:516, 539; 11:598, 629; 135B4:66,
68, 70; 6:96; 136B6:78–79, 82–83; 137A2:37;
137/140B7:91; 13:145; 138A(1)9:160; 10:234;
11:300; 12:362; (2)13:711; 14:776, 779; 15:857;
16:937; 17:999; 18:1048; 19:1085; 140A2:88;
143A9:333; 144A3:73; 4:130; 5:182;
144B39:660; 146A(1)4:86; 5:189; 6:270; 7:345–
346; 147B26:449; 148A2:60, 62; 3:157;
148B4:48; 10:136; 34:422; 39:484; 149A4:100;
5:136; 6:193; 7:245; 149B23:422–423; 27:482;
150A6:103; 7:172; 8:236; 9:290; 10:333;
150X_B24:331–332, 335; 151A5:82; 6:130–131;
151B19:358; 152A11:239; 12:272; 152B2:24;
5:56; 34:423; 154A4:103; 5:184; 6:256; 7:305;
8:381; 155A6:112, 149, 192–193, 219, 261, 296,
354, 402, 426, 456, 481, 528, 558, 585, 615,
651, 677; 156A6:149; 7:240; 156B1:24; 157A1:9;
4:79; 5:125; 6:157; 7:365; 8:419; 9:460; 10:526;
157B15:251; 36:610–611; 158B4:53, 57, 59, 61;
27:374–376; 159A5:110; 6:195; 7:245; 8:286;
160A5:115; 7:190; 8:253; 9:312; 10:367; 11:394–
396; 161A4:94; 5:153; 6:260; 7:333; 8:387;
9:412; 162B14:204; 164A6:131; 7:203; 8:271;
9:303; 164B23:233; 165A3:76; 4:169; 5:261;
6:320; 7:372; 8:397; 165B19:295–296; 166A6:94;
7:163; 8:189; 9:253; 10:314; 11:363;
167A(1)4:79–80; 5:110–111; 6:148; 7:170; 8:204;
9:232; 10:265; 11:302; 12:339; 13:371; 14:414;
15:447, 456; 16:480; 167B25:285; 32:352, 360;
169A3:97, 116; 4:177; 5:220; 6:280; 170A3:80,
83; 4:134, 140; 5:178; 6:207, 210; 7:238;
171A_A5:58, 74; 171B_A3:84; 4:147; 5:217;
6:296; 7:341; 172A3:62; 4:137; 5:227–228;
6:286–287; 174A_A3:75; 4:126; 5:173;
175A3:79; 4:107; 5:134; 6:170; 7:192; 8:216;
9:260; 10:300; 11:331; 12:371; 13:416; 14:450;
15:479; 17:512; 20:550; 176B(synthesis):60;
6:34; 177A3:33; 4:48; 5:51; 6:43; 7:34; 8:50;
9:41; 178A4:77; 5:70; 6:49; 7:52–53; 8:47;
180A1:49; 5:84; 6:131, 164; 9:117; 12:121;
180B6:34; 181A3:54; 4:40; 5:46; 6:73; 7:93–95;
8:75; 9:49; 182A5:45; 6:69; 7:49; 8:53; 9:43;
10:54; 11:31; 12:45; 183A4:59; 6:133; 7:134,
139; 8:65; 9:92; 184A1:67; 4:59; 5:57; 6:38; 7:56;
8:23; 9:68; 185A4:115, 121; 185B1:26;
188A3:125; 4:77; 5:66; 189A3:93, 97; 4:41; 5:92;
6:108; 7:84; 190A4:64; 5:70; 6:46; 7:38; 8:44;
193A3:223; 4:191, 193; 195A3:117; 4:134;
196A1:22; 198A3:95; 4:66; 5:67; 6:60; 7:56;
8:54; 199A1:66; 8:35; 9:26; 10:39; 11:64; 12:69;
13:53; 14:38; 15:30; 200B1:26; 2:13; 202A3:36;
4:48; 5:42; 6:47; 7:55; 8:67; 9:63; 11:53; 12:63;
13:51; 205A1:62; 4:70, 82, 147; 5:58; 206A1:81;
3:148, 152, 194, 255; 207A4:58; 5:68; 6:67; 7:63;
8:59; 208A3:57; 210B8:44
- vs. distance from Southeast Indian Ridge, 187B5:23
- vs. europium/europium ratio, 193B2:24
- vs. fluorine, 157B23:409
- vs. gabbro magnetic susceptibility, 176B11:20
- vs. iron, 158B19:263; 176B4:20, 42
- vs. iron oxide, 134B18:370; 135B3:38; 4:59, 64; 6:97;
148B11:156; 156B28:350; 179B2:50; 180B8:18;
193B2:21; 200B3:25
- vs. iron oxide/magnesium oxide ratio, 121A10:279;
12:400; 125B9:162; 134B19:387; 21:409;
135B6:97; 141B27:344; 145B44:664; 180A12:95;
200B2:16
- vs. kaolinite, 156B1:30
- vs. liquidus temperature, 176B8:21
- vs. lithium, 128A4:185
- vs. loss on ignition, 136B11:140; 148B10:139;
149B29:502; 169A3:98
- vs. magnesium, 137A2:43; 137/140B13:146;
148A2:55; 169A4:172
- vs. magnesium + iron, 209B2:6, 8–9
- vs. magnesium number, 139B6:87; 147B1:10;
148A2:59; 3:151; 153A4:147; 5:194; 6:239;
153B9:175–176; 183A8:64; 209A1:88, 103, 118;
10:114
- vs. magnesium oxide, 123A4:159; 125B12:217;
134B18:370; 135B4:59, 64; 26:479; 136B4:61;
137/140B4:45; 5:54; 139B11:225; 144B29:503;
148B3:31, 34; 151B17:317, 319, 322, 344;
152B5:61; 8:100; 156B28:350; 157B16:282–283;
22:384; 162B16:228; 163B9:102, 106; 180B8:18;
183A4:57; 5:118; 7:133, 137; 187B1:35; 2:20;
193B2:21; 195B4:19, 26; 200A1:65; 3:108;
200B1:43; 2:10; 206A1:88; 3:199; 209A5:148,
154; 6:102; 7:93; 9:84; 209B2:9
- vs. major oxides, 134B19:384–385; 141B4:55;
145B23:370; 148B13:197–199; 150B13:257;
151A5:81; 151B17:324–327, 343; 19:357;

- 152B2:23; 5:62; 8:102; 157A7:362; 157B13:192;
18:324–325; 161B27:366; 162B16:229;
165A3:84; 4:183; 168B14:171; 180B8:18;
183A7:41, 137; 200B3:23; 201B19:27, 29;
209A3:137; 5:154; 210A3:68, 251
- vs. microfossils, 114A7:279
- vs. neodymium isotopes, 152B29:355
- vs. Oman margin preservation, 117A16:500–501
- vs. phosphorus oxide/titanium oxide, 157B22:385
- vs. physical properties, 119A13:499
- vs. potash, 126B31:470
- vs. potassium oxide, 134A11:345; 12:416; 13:503;
134B9:161; 19:387; 21:408; 135A(1)8:372;
135B3:33; 4:60, 65; 6:97; 52:836; 139B11:225;
141B4:53; 12:175–176; 145B44:664;
156B28:350; 161B23:146, 153; 27:366;
163X_A8:27; 180B8:18; 183A7:137; 201B19:25–
26, 28; 203A3:15; 203B2:25; 205A5:61
- vs. potassium oxide/titanium oxide, 157B22:385;
162B16:230
- vs. radiolarians, 189A6:108
- vs. reagent volume, 199A6:13
- vs. scandium, 163B7:68
- vs. silica, 126B31:471
- vs. sodium oxide, 135B3:27; 152B7:88–89;
156B28:350; 180B8:18; 186B9:26
- vs. sodium oxide + potassium oxide, 134A10:278;
136B4:60; 142B11:85; 144B28:480–481; 29:503;
145B44:664; 151A5:80; 152B8:99; 157B18:323;
22:385; 25:426; 162B16:223; 183A1:58, 71, 80,
88, 98; 4:56; 5:117; 6:132; 7:39, 130; 8:63; 9:91;
183B1:41; 9:39; 15:5, 13; 192A1:39, 45; 3:108;
4:83; 193A6:24; 193B2:20; 195A4:111;
197A1:38, 63, 72, 84, 93; 3:93, 142; 4:67; 5:67;
6:69; 197B1:37; 201B19:25–26, 28; 203A3:49;
203B2:14; 205B9:23; 209B4:18; 210A3:69, 252
- vs. sodium oxide/potassium oxide ratio, 152B2:26
- vs. sponge spicules, 189A3:81
- vs. strontium, 123A4:158; 163B7:68
- vs. strontium/zirconium ratio, 152B28:343
- vs. sulfur, 157B23:409
- vs. temperature, 137/140B12:135
- vs. titanium oxide, 134B18:370; 135B3:38; 4:59, 64;
6:97; 148B10:138; 152B27:319; 180B8:18;
183A7:40, 137; 207B8:20; 209A5:156; 210B8:38
- vs. titanium/zirconium ratio, 193B2:22
- vs. total alkalis, 123B4:100; 141B12:175–176;
143A6:153; 7:229; 143B15:253
- vs. trace elements, 125B12:224
- vs. volume magnetic susceptibility, 135A(1)8:353
- vs. water content, 140A2:90; 158B19:264; 209A6:106;
10:114
- vs. zirconium, 123A4:195; 135B4:67; 139B11:225;
157B12:168, 171; 207B8:20
- vs. zirconium/titanium oxide ratio, 193B1:65
- weathering, 120B(1)8:104
- well-logging, 123B35:641; 126B34:526–527; 43:657
- X-ray diffraction data, 121B13:261–262, 264;
128A5:292
- X-ray fluorescence data, 127/128B(2)65:1025–1029,
1031–1035; 128A5:281; 152B35:426
- Yaquina Basin, 112A15:464, 467
- zoning, 158B28:397
- See also* aluminum oxide/silica ratio; aluminum/silica
ratio; calcium/(calcium + silica ratio); calcium
oxide-magnesium oxide-aluminum oxide-silica
diagram; calcium oxide/silica ratio; carbonate/
silica cycles; chalcedony; chert; chertification;
coesite; cristobalite; fluoride/silica ratio; hydro-
gen/(silicon + calcium) ratio; iron oxide/silica
ratio; iron/(silicon + calcium) ratio; jasperoids;
lepispheres; manganese/silica ratio; mass accu-
mulation rates; opal; opal-A; opal-CT; opal/silica
ratio; paleoproductivity; phosphate/silica ratio;
potassium oxide/silica ratio; productivity;
quartz; silicon/(silicon + calcium) ratio; sodium
oxide/(silica + 14.15) ratio; sodium oxide/silica
ratio; titanium oxide/silica ratio; trydimitite
- silica, amorphous
- alteration, 183A9:31–32
- diagenesis, 139B7:109–110; 16:341–349
- hydrothermal mounds, 158B27:368–369
- lithology, 183A6:5; 7:4–5
- petrology, 158B1:9–11, 14
- photograph, 158A8:150, 180
- sediments, 172B5:4
- vs. depth, 183A5:128–129, 138–139; 6:140
- zoning, 139B17:355–358
- See also* opal-A
- silica, aqueous
- Kerguelen Sediment Ridge, 119B18:371
- pore water, 119B18:366–367, 369; 19:381, 384–385
- solute diffusion inhibition, 119B19:387–388
- silica, authigenic
- Broken Ridge, 121B13:264, 267
- lack of silica, 119B3:52
- Lima Basin C, 112A11:168
- prerift vs. postrift burial depth, 121B13:261, 266
- Southern Ocean, 119B11:218–219
- silica, biogenic
- abundance, 128A4:150; 5:259
- alteration, 186B14:9
- amount extracted, 199A6:19
- biostratigraphy, 151B12:214; 35:641–642;
155B21:370–371
- burial, 199B22:9; 23:2–5
- carbonate content, 115A8:606
- clinoptilolite formation, 115B37:688
- correlation with color, 167B29:329
- Cretaceous vs. Paleogene interval, 121B24:477
- cyclicality, 127/128B(1)26:439; 33:584; 129B32:593;
172B5:6
- density effects, 117B12:249, 252
- deposition, 198A9:15
- diagenesis, 127/128B(2)79:1263, 1267; 166B9:106–
107; 185A4:27–28; 188B1:18–19
- dissolution, 128A5:320–321; 175A7:189–190;
178A7:16; 8:14
- Eocene sediments, 199B21:9–10
- fluxes, 119A4:114
- fragmentation degree, 127/128B(1)31:549
- geochemistry, 138A(2)13:700; 15:837

- glacial-interglacial variations, 127/128B(1)33:591
 Japan Sea, 127/128B(2)78:1239–1241
 Jurassic–Lower Cretaceous, 129B32:588–589, 608
 lithology, 138A(1)11:275, 280; 151A5:65–69; 6:119–
 122; 11:357–359; 165A4:142; 171B_A7:324–325;
 172A6:255–258; 184A6:5; 201A7:9; 8:9–10, 13
 magnetic susceptibility, 115A8:603
 mass accumulation rates, 128A4:122, 158;
 129B32:598, 602, 605; 145A3:87, 89; 5:133–134;
 192A3:17–18; 199B20:26; 206A3:45, 153
 Miocene–Pliocene interval, 188B9:1–16
 mixture with quartz, 172B5:20
 monsoonal upwelling, 117B5:138
 normative analysis vs. sodium carbonate, 199A6:16
 Oligocene carbonate correlation, 119B48:884
 Oman margin N, 117A13:424
 organic carbon, 117B12:248–249
 Owen Ridge, 117A10:258; 117B12:240
 paleoenvironment, 151A13:418–419
 Paleogene, 151B5:83
 physical properties, 121B13:264–265; 172B(over-
 view):4
 pore water, 165A8:397; 178A9:15
 preservation, 121B13:267
 productivity, 127/128B(1)39:694
 profiles, 157B36:609–612
 rare earths, 127/128B(1)39:692
 reflectors, 178A2:19–20
 scanning electron micrograph, 172B5:18
 sedimentation, 138B1:14–16; 177B(synthesis):8
 sediments, 138B28:617; 146A(1)5:144, 148;
 172A6:288; 178B1:1–7; 13:1–10; 199B23:10–12
 Site 701, 114A8:377–378, 412
 Site 704, 114A11:634, 637, 684, 687; 114B23:415,
 419; 36:673–674
 Site 714, 115A11:851
 Site 737, 119A6:173
 Site 800, 129B2:40
 Site 801, 129B2:41
 Site 802, 129B2:42
 sources, 121B13:261; 136B5:71–72
 time series, 167B32:360–361
 titanium/aluminum ratio, 205B3:4
 vs. age, 167B14:206; 172B5:19; 178B25:17; 188B9:9;
 199B21:23; 206B2:22
 vs. alkalis, 126B2:12, 40; 3:60, 62, 72; 132B5:63
 vs. carbonate production, 117A19:595
 vs. depth, 138A(2)13:713; 15:858; 151B29:487;
 167B32:371; 172B5:13, 17; 178B1:5–6;
 184A9:51; 188B9:8; 198A3:60; 4:40; 8:34;
 199B23:8–9; 24:15; 202A6:30; 206A1:66; 3:151
 vs. grain size, 177B13:6
 vs. impedance correlation, 114B36:683
 well-logging, 171A_A3:29
 X-ray diffraction data, 128A4:151; 172B5:21
 X-ray fluorescence data, 128A5:281
See also opal, biogenic
- silica, cryptocrystalline
 alteration, 187A4:4; 8:7–8; 9:5–7; 11:7–10; 12:8–9;
 14:4–5; 15:8–9
 lithology, 173A6:127–129; 187A13:7; 190A4:8; 5:9
 photograph, 187A1:34, 37
 photomicrograph, 187A12:23–24
- silica, detrital
 Site 800, 129B2:40
 Site 801, 129B2:41
 Site 802, 129B2:42
- silica, dissolved
 Japan Sea, 127/128B(1)20:350–351
 Labrador Sea, 105B10:141
 pore water, 102A3:143–144; 129B3:96; 130A8:324;
 12:549; 131B31:392; 135A(1)8:366; 201A1:34;
 6:17; 7:17; 8:17; 9:14; 10:15; 11:13; 12:14
 sediments, 130A7:251
 Site 803, 130A5:133
 Site 804, 130A2:20
 vs. age, 130A10:533; 12:550
 vs. depth, 169S_A2:56, 59; 170A7:217; 201A6:44;
 7:48; 8:37; 9:38; 10:40; 11:49; 12:34
 vs. porosity, 180A6:165
- silica, excess, 127/128B(2)78:1240–1244, 1253
- silica, gray
 deposits, 158A8:145
 photograph, 158A8:148
- silica, green, alteration, 193A3:38–39
- silica, hydrothermal
 Site 800, 129B2:40
 Site 801, 129B2:41
 Site 802, 129B2:42
- silica, microcrystalline, lithology, 193A6:5
- silica, opaline
 alteration, 193A3:38
 carbonate-free and bulk samples, 105B11:159
 coarse fraction, 105B11:159
 diagenesis, 105B11:160–163
 distribution and composition, 105B11:158–159
 Eocene/Oligocene boundary, 105B11:163–164;
 115B25:482–483
 Labrador Sea, 105B11:158
 lithology, 210A3:24
 Mascarene Plateau, 115B25:473, 484
 mass accumulation rates, 105B11:159, 161, 163–164
 opal-A and opal-CT, 105B11:160, 162–163, 168–169
 organism groups, 105B11:167
 origin, 105B11:163–164
 Peru margin, 112B30:493
 Site 680, 112B30:493
 Site 708, 115B25:484
 Site 709, 115B25:484
 Site 710, 115B25:484
 Site 711, 115B25:484
 ternary diagram, 184B12:17
 vs. depth, 146A(1)5:151
 well-logging, 171A_A3:29
 X-ray diffraction data, 105B11:162
- silica, total
 concentration, 129B2:57
 diagenesis, 129B3:82
 dissolution, 129B32:602
 lithology, 129B2:41–42
 mass accumulation rates, 129B32:599
 phases, 129B3:82

- pore water, 129B14:270–275
 siliceous deposits, 129B2:42
 Site 800, 129B2:40
 Site 801, 129B2:41
 Site 802, 129B2:42
 sources, 129B3:91
 volcanoclastic samples, 129B5:144
 vs. depth, 129A2:60
 yield in decimal fraction, 129B6:153
 silica, treated with potassium hydroxide, vs. silica treated with sodium carbonate, 199A6:14
 silica, treated with sodium carbonate, vs. silica treated with potassium hydroxide, 199A6:14
 silica, whole-rock
 vs. whole-rock iron oxide, 179B(synthesis):70
 vs. whole-rock magnesium number, 179B(synthesis):70
 silica budget, global marine distribution, 177A1:9
 silica/calcium oxide ratio
 tephra, 186B9:10
 vs. depth, 144A8:303
 silica/chloride ratio
 sediments, 182A4:31
 volcanic ash sequences, 125B15:289
 vs. depth, 146A(1)5:190; 182A8:54
 silica-chlorite alteration, lithology, 193A4:10–23
 silica-clay alteration
 photograph, 193A4:137, 185
 photomicrograph, 193A4:123
 silica corrosion zone, productivity, 175B18:11
 silica diagenesis
 photograph, 201A6:41
 X-ray diffraction data, 201A6:39
 silica hypothesis, sectional preservation; 130A10:521
 silica logs
 basalts, 144A9:320
 diatom vs. clay content, 127/128B(2)89:1417
 Site 794, 127/128B(2)89:1416, 1420–1421
 Site 796, 127/128B(2)89:1416, 1423
 Site 797, 127/128B(2)89:1417, 1426–1427
 Site 798, 127/128B(2)88:1401–1402
 Site 799, 127/128B(2)88:1404, 1408–1409; 128A5:364
 smoothed, vs. depth, 138A(2)15:872
 vs. depth, 138A(1)10:250; 11:316; 12:380; (2)15:875; 16:950, 952; 17:1012; 141A6:136; 143A9:356; 144A3:95; 5:197; 6:247; 10:390–391; 146A(1)6:287; 150A10:342–343; 160A8:285–287; 165B11:195
 vs. neutron porosity, 138A(2)17:1015
 See also aluminum/silicon ratio logs
 silica/magnesium oxide ratio
 Bonin-Mariana region, 125B9:149–150; 12:217
 bulk rock and mineral chemistry, 153B10:205–208
 Site 765, 123A4:159
 Site 782, 125A10:208
 volcanic ash, 125B15:288; 38:630–632
 vs. aluminum oxide/silica ratio, 153A3:75; 153B10:213; 209A9:20, 89
 vs. depth, 153B10:212
 vs. lanthanum/ytterbium ratio, 153B10:232
 vs. magnesium number, 153B10:210
 silica/phosphorus ratio, sediments, 175B21:10
 silica starvation, sedimentation, 192A3:18
 silica switch
 Miocene cessation, 145B38:589–590
 sediments, 154B30:460
 silica/zirconium ratio, vs. depth, 139A6:228
 silicate expansion, Matuyama opal maximum, 175A17:527
 silicate melts, high-temperature microscopic veins, 176B4:12–13
 silicate weathering, carbon dioxide, 183B7:10–11
 silicates
 alteration, 111B3:28–30; 127A4:110–111; 153B30:523; 189A7:45; 209A5:15
 analogy to lava lakes, 118B2:30
 Atlantis Bank, 118B4:108–111
 basalt fractionation, 115B7:81
 biogenic opal, 117B30:504
 Broken Ridge, 121A2:42
 composition, 137/140B1:3–17; 179B2:53–55
 diagenesis, 112A14:374; 15:449
 electron microprobe data, 106/109B4:30; 147B27:456
 framework grains, 126B9:140
 grain size variations, 118B2:25
 green color bands, 130B26:458–459
 image-analysis micrograph, 147B2:43
 Indus Fan, 117A8:180
 intragranular diffusion rates, 118B26:486
 iron oxyhydroxide coatings, 199B14:3–4
 lava flows, 197A4:15–16; 6:12–13
 massive sulfides, 139B18:377
 mineral chemistry, 142B1:4–5; 176B10:1–60
 mineral composition, 118B2:24; 26:473
 modal abundances, 118B26:465; 147B2:24; 176A3:17–18
 Ninetyeast Ridge, 121A2:42
 nucleation rate and grain size variation, 118B2:30
 Owen Ridge, 117A9:231, 233
 oxidation, 172B2:4–6
 pore water, 116B13:146, 151; 34:422–423; 117B30:504; 145A3:53; 4:98; 5:152–153; 6:240; 7:313; 8:353; 178A4:22–23
 postcumulus homogenization, 118B2:29
 pyroxenes, 118B4:92–93
 recrystallized gabbro, 118B22:406–407
 refractory, 137/140B12:131–139
 subsurface waters, 175A17:528
 trace elements, 118B1:5–6, 12
 vs. alteration, 137/140B6:67
 vs. depth, 145A3:64; 4:105; 5:156; 6:244; 7:321; 8:361; 152A8:102; 11:239; 12:272; 155A12:343; 13:393; 14:418; 15:448; 16:474; 17:520; 18:548; 19:578; 20:606; 22:670; 189A3:67
 See also aluminosilicates; chevkinite; cordierite; iddingsite; ilvaite; kyanite; lawsonite; monticellite; nepheline; phyllosilicates; pumpellyite; sanidine; scapolite; sheet silicates; silica; sillimanite; sodalite; staurolite; stilbite; titanite; tourmaline; vesuvianite; zircon
 silicates, secondary, hydrothermal veins, 153B30:524–525

- siliceous allochems
 vs. depth, 149A5:125; 6:156; 7:221
See also sponge spicules
- siliceous cement. *See* cements, siliceous
- siliceous composition, sediments, 151B36:655
- siliceous deposits, biogenic
 geochemical characteristics, 129B2:31–79
 Jurassic–lower Tertiary interval, 129B2:31
 lithology, 129B2:32, 42
 sedimentological characteristics, 129B2:31–79
- siliceous microflora, cold water characteristics,
 119B6:112
- siliceous microfossils
 abundance, 155A6:106; 7:139–140; 8:186; 9:213;
 10:256; 11:288; 12:344–345; 13:395; 14:419;
 15:449; 16:475; 17:521; 18:549; 19:579; 20:607;
 21:646; 22:671
 biostratigraphy, 124A12:315; 13:352; 14:405;
 141B30:373–377; 144A3:58, 64; 4:125; 5:176;
 8:299; 10:361; 11:445; 146B(1)24:369–374;
 155A6:98–99; 7:137; 8:186; 9:212; 10:254;
 11:291; 12:343; 13:395; 14:421; 15:447; 16:473;
 17:517–518; 18:550; 19:579; 20:606; 21:648;
 22:669; 191A1:15; 199A9:6; 210A1:16
 clay, 187A7:10
 deep-sea sediments, 185B7:4–5
 depth and concentration, 175B11:26–28
 dissolution, 121B13:264
 lithology, 171B_A4:99–101; 5:175, 179–181; 6:246;
 7:323; 185A4:11–12; 188A3:13–14; 190A5:7–8;
 192A3:6; 4:5; 6:5–6; 198A7:9–10; 201A6:8–11;
 202A7:8–10; 204A7:3–4; 207A4:6–7; 6:10
 mass accumulation rates, 185A3:9
 Neogene, 144A3:71; 144B3:61–85; 198B1:17
 Oligocene–Miocene interval, 192A3:18
 percentage vs. depth, 174A_A3:60; 5:164
 photograph, 146A(1)7:314; 157A4:66; 5:118
 photomicrograph, 185A4:83–84
 preservation, 121B13:262–264
 Quaternary, 155B21:369–370
 sediments, 175B11:4–5
 upwelling, 175A1:15
 vs. depth, 144A4:126; 184A5:41, 45; 6:33; 189A3:67,
 81; 202A7:41; 8:45
- siliceous Pacific paradigm, biogeography, 198B7:15–16
- siliceous rocks
 alteration, 135B40:653–663
 Cretaceous, 198B17:1–45
 petromagnetics, 141B4:51–57
See also felsic rocks
- siliceous rocks, diagenetic
 lithology, 129B3:81–117
 scanning electron microscopy, 129B3:90
 volcanic-related rocks, 129B3:89
- silicic acid, opal, 160B28:358–359
- silicic composition, volcanics, 151B17:316–317, 319,
 323, 338–343; 152B5:57–64
- silicic volcanic rocks. *See* volcanic rocks, silicic
- siliciclastic switch, sedimentation, 150B6:110–111
- siliciclastic wedges
 sediments, 182A1:33–37
- stratigraphy, 182A2:6
 summary, 182A1:28–30
- siliciclastics
 accumulation, 178B3:4–7
 bulk mineralogy, 189B11:3–6
 carbonate platforms, 194A1:50–54
 clay mineralogy, 189A5:18–19
 climate reversals, 178B34:4–5
 Cretaceous, 123A4:104–105
 cyclicity, 154B7:138–140; 20:309–315; 36:508–509
 deglaciation, 178B34:4
 deposition, 159B11:106; 161B7:95–96; 166A9:242–
 243; 167A(1)7:161; 189A1:30–32; 202A8:13–14
 diagenetic dolomite, 201B13:5–8
 diffusion, 189A5:49
 drift deposits, 188A1:4
 environment, 170A4:104
 Eocene–Oligocene transition, 189B1:13, 29
 foraminifers, 159B31:393
 grain size, 184B19:8–9
 histograms, 186A4:77
 lithology, 149A4:52; 7:220, 222; 151A5:66; 6:121–
 122; 7:227–230; 152A7:76; 155A18:542–545;
 159A6:168–170; 7:232–233; 8:267–270;
 161A6:196; 7:307–308; 162A7:231; 9:298;
 167A(1)4:55–57; 5:87, 89, 92; 6:132–135;
 10:245–247; 15:438; 168A4:57; 171B_A4:114–
 116; 6:259–260, 262; 172A4:84; 173A8:234;
 177A8:7–8; 180A6:23; 7:10–11; 182A4:6–8, 10–
 12; 12:7; 183A7:8; 184A6:5–6; 186A1:9, 13;
 4:19–21; 5:12–13; 188A3:11–16; 189A1:32–33;
 3:11–15; 5:13–15; 7:18–19; 189B1:21; 194A5:7;
 7:10, 12; 8:5–9; 201A7:8–10; 9:7–9, 11; 10:10–
 12; 11:9–11; 202A4:6–8; 6:6–9; 7:6–10; 9:7–11;
 10:6–10; 11:6–10; 13:6–9; 210A3:33–34, 42, 49–
 50
 Maastrichtian–Paleogene interval, 189B10:3
 major elements, 170A5:180; 6:209
 Messinian, 161B43:545
 Neogene, 133A(1)15:651, 653
 Paleocene–Eocene interval, 182A1:4
 paleoenvironment, 133B15:189–202; 189A1:22; 3:19–
 21
 paleomagnetism, 159B21:205
 petrography, 160B45:580
 photograph, 159B13:123; 172A4:84; 172B7:18;
 189A6:76
 photomicrograph, 160B45:593; 180A5:58; 210A3:182
 Pleistocene, 184B19:4–5
 Pliocene, 180B(synthesis):10–12
 postrift sedimentation, 210B1:28–31
 provenance, 168B5:56–59; 210B2:4–5
 regional scale, 189A1:43–44, 58–59
 review, 189B1:4
 rift-to-drift models, 210B2:10–11
 rifting, 149B39:627; 159B12:115–116; 210B1:6
 sediment transport, 101B14:203
 sedimentary interval, 166A10:304–305
 sedimentary organic matter, 202A1:23–24
 sedimentary structures, 139B7:106–107; 159B2:14

- sedimentation, 141B31:395; 150B11:219–220;
150X_B12:156–158; 27:368–370; 159B11:104,
108; 166A9:267; 172A5:174, 176–178
- sediments, 141A9:315; 145B20:309–313;
146B(2)22:301; 167B22:255–261; 177A1:9, 20;
177B13:1–10
- submarine fans, 101B19:264–265
- tectonic controls, 150X_B1:4
- thermal history, 159B5:45
- total organic and inorganic carbon, 201B8:3–4
- trace elements, 170A5:181; 6:209
- transform faults, 159A9:301, 305–306
- transport, 161B7:94–95
- turbidites, 173B6:7
- upper Eocene, 189B1:11
- vs. age, 145B20:295–300
- vs. depth, 133B25:358; 162A7:239; 180B7:30–35, 39–
42; 186A4:78; 5:52; 186B16:10; 202A4:32; 5:29;
6:30; 7:41; 8:45; 9:46; 10:46; 11:38; 12:48; 13:37
- See also* biosiliceous fragments; telaginite
- siliciclastics, bulk, 177A4:27; 5:34; 6:23; 7:25; 8:29; 9:27
- siliciclastics, nonclay, 202A13:37
- silicification
alteration, 169A3:84, 87; 169B10:12; 183A7:45–47;
193A3:41–51; 4:28–41
- basalts and clasts, 158B19:257, 263–264
- Celebes Sea, 124A10:155, 157
- deep copper zone, 169A3:77
- diagenesis, 180A9:44
- foraminifers, 130B8:104
- geochemistry, 158B19:270–273
- hydrothermal alteration, 158A11:219; 193B1:16–18
- hydrothermal fields, 158A1:10, 12
- lithology, 163X_A6:8; 165A3:60, 147; 169A3:52;
182A1:9–10, 26; 183A4:12; 192A6:5–6;
193A4:11–23; 206A1:23; 210A3:35
- Mariana Basin E, 124E_A18:123
- nannofossils, 174AXS_A1:36
- petrology, 158A10:193, 194–199
- photograph, 158A11:218; 158B18:249–253;
169A3:88; 183A7:83–84; 185A3:81; 192A3:71,
73, 76; 6:42–43; 193A3:110, 151, 157, 208;
4:76–77
- photomicrograph, 160B32:405; 183A6:101;
185A4:83–84; 193A3:129, 147–148, 158, 165,
196, 205–206
- preservation, 162B1:14
- sediments, 192A3:18–21
- seismic stratigraphy, 165A4:203–204
- Site 699, 114B37:696–697, 702
- Site 748, 120A7:217–218
- Sulu Sea, 124A11:239
- veins, 169A3:76
- volcaniclastics, 183A7:43
- See also* chertification
- silicification, basal, Cretaceous, 129B32:585
- silicification, differential
boundaries, 129B3:90
- degree, 129B36:692
- Formation MicroScanner imagery, 129B32:591
- hydrothermal alteration, 139B8:127–128
- Jurassic–Lower Cretaceous interval, 129B36:674
- lithology, 129B3:81–82, 97, 117
- Lower Cretaceous, 129B36:686
- middle Tithonian, 129B32:591
- Milankovitch cycles, 129B32:592
- photomicrograph, 129B3:108–110
- radiolarians, 129B30:545
- radiolarite, 129B32:587
- relative abundance, 129B36:688–689
- Tithonian, 129B32:592
- Valanginian, 129B32:596
- silicification, poikiloblastic
lithology, 193A4:24–25, 28–29
- photomicrograph, 193A4:125–126
- silicification fronts, silica content, 127A5:205
- silicoflagellates
abundance, 104A4:133–134; 5:472, 482–483; 6:628,
635–636; 104B28:502–511, 514–515, 530, 538–
539; 30:550–551, 554–555, 560; 113A8:364–
365; 10:547; 11:638; 12:725; 113B42:731–739;
138B8:132–133, 136–145; 181A7:142–149;
8:112–115; 183B11:17–19
- age, 104B28:504–511, 514–515; 29:531; 30:550–551,
554–557, 560; 113B52:927, 933
- biostratigraphy, 104B30:549–554; 108A7:495; 9:628;
108B34:552–553; 41:723; 52:926, 928, 930, 932,
934; 113A5:110–111; 6:217–218; 8:366; 11:633–
635; 138B8:129–162; 141B16:223–233;
145B41:639–643; 151A5:70–71; 6:123; 10:328;
11:362; 151B5:630; 6:101–124; 159A5:92; 8:273;
162A3:70; 4:111–112; 5:153–154; 6:188–189;
7:240; 8:268–269; 9:304; 10:357; 162B5:63–81;
177A4:13; 181A7:21–22; 8:20; 9:14–15;
183A8:12; 183B11:1–20; 185B4:1–18;
189A3:30–31; 4:14–15; 5:29–30; 6:35–36; 7:31–
32; 199B10:1–9
- Cenozoic, 141B30:373–377
- continental rise, 152B13:191–199
- dating, 113B27:427–428; 42:730
- diatomite, 112B10:166
- distribution, 104B30:550–551, 554–555; 177A3:55–
56; 5:83–88; 6:67–72; 7:60–71; 8:88–92; 9:63–
64; 185B4:16; 189A3:143–144
- evolution, 104B30:559–561; 31:561–562
- geomagnetic polarity pattern, 113B52:921, 923–924
- geomagnetic timescale, 113B52:917
- hiatuses, 113B42:731–732
- Lima Basin, 112A11:174–175; 19:816–817;
112B10:159–160, 165
- lithology, 167A(1)11:289; 170A3:53; 4:106; 172A3:38;
6:255–258; 175A4:89; 177A1:20–22; 181A5:5–6;
182A12:5; 183A5:4, 13; 184A6:5; 7:6; 186A5:13;
189A4:7; 190A6:6; 191A4:11–12; 198A8:8;
202A9:8–11; 13:6–9; 204A3:4–8
- marine signal, 175B11:9–10
- mass accumulation rates, 175B11:21, 24
- methods, 104A5:472; 6:628; 104B30:543–545
- Miocene–Pleistocene, 112A17:616; 183B1:23–24
- Miocene/Pliocene boundary, 112B10:164
- Norwegian Sea, 104B28:497–516, 510–513, 516, 528–
532; 29:527–540, 530–540; 30:543–585

- occurrence, 104A4:146–147; 32:629; 104B39:786;
112A12:262; 127/128B(2)77:1220; 177A4:71–
79; 207B4:1–11
- Oligocene/Miocene boundary, 112A20:899
- Oligocene–Miocene interval, 159B36:493–508
- Oligocene–Quaternary interval, 119B51:933–934
- paleoenvironment, 104A4:120; 5:472–473;
104B29:532–540; 32:629; 113B42:743, 746–747
- Paleogene, 152B19:249–250; 199B1:7–8; 9:1–29
- paleotemperature, 104B30:561
- Peru margin, 112A2:34
- photomicrograph, 183B11:20
- phylogeny, 113B27:430–432
- Pisco Basin W, 112A18:719; 112B10:165
- Pleistocene, 177A9:10
- Pliocene–Quaternary interval, 185B1:10
- possible occurrences, 113B27:429–430
- preservation, 104A5:472; 104B32:628
- Quaternary, 160B11:137–154
- relative abundance, 189A4:53; 5:136–139; 6:145–149;
7:121–124
- reworked taxa, 112A20:899; 112B10:164–165
- sample preparation, 104B28:497
- sediments, 116A4:51–52, 54; 6:163; 119B7:139;
175B11:7–8
- Site 680, 112A12:261–262; 112B10:160–161
- Site 681, 112A13:314; 112B10:161
- Site 682, 112A14:379; 112B10:161–163
- Site 685, 112A17:615–617; 112B10:164–165
- Site 688, 112A20:898–899; 112B10:165–166
- Site 747, 120B(2)42:813
- Site 748, 120A7:193–194; 120B(2)42:814
- Site 749, 120A8:254; 120B(2)42:816
- Site 750, 120A9:305
- Site 751, 120B(1)13:202–204; (2)42:816
- Site 758, 121B8:192–193
- Site 798, 127/128B(1)14:241–244; 128A4:162
- Site 799, 127/128B(1)14:241, 246–247; 128A5:305
- skeletal morphology, 113B42:735, 738–740, 742
- stratigraphy, 112A16:542; 20:899; 113B42:743–747
- summary, 104A4:120, 142–144; 5:472; 7:756–762;
104B30:554–559, 562–563, 565
- systematic paleontology, 104B28:510–513, 516, 565–
573; 160B11:142–143; 183B11:5–11
- Trujillo Basin, 112A16:541–542; 112B10:164
- variability, 113B42:740–741, 743
- vs. age, 175B11:20
- vs. depth, 144B3:66–67; 178B13:12; 186A4:82;
202A4:33; 9:46; 10:46; 11:38; 12:48; 13:38
- Yaquina Basin, 112A15:452–455; 112B10:163–164
- zonation, 104A4:118–120, 148–152; 104B28:497–498,
504–511, 514–515; 30:545–549, 556–558;
39:802; 112B10:157, 163; 120B(2)42:811;
57:1035; 127/128B(1)14:237, 239–241;
(2)77:1225–1226; 183B11:3–5; 199B9:3–6
- See also* actiniscidians
- silicon
- alteration, 115B8:88; 193B1:47
- amphiboles, 153B5:97
- basalts, 195B8:7; 210B9:16
- basement, 126B28:434, 437
- bulk sediments, 199A8:17; 9:11; 10:17; 11:26; 12:26–
27; 13:22; 14:19
- Celebes Sea, 124A10:178–179; 13:376–377
- diagenesis, 150X_B3:28, 35
- diffusion, 168B10:131
- dissolution, 209B5:6–10, 19
- enrichment geochemistry, 158B27:377
- ferromanganese micronodules, 199B14:4
- geochemical logs, 114A11:697–700; 117B29:490
- gouge, 161B25:333
- hydrothermal sediments, 199B15:3
- immobility, 169A3:99
- Indian Ocean W equatorial, 115B34:634
- inorganic sediments, 154B36:509–516
- jasperoids, 193B9:5–7
- manganese deposits, 126B7:122–123
- mass balance, 169A3:98
- measured spectra, 129B34:636
- microorganisms, 168B14:170–171
- mobility, 183B15:9–10
- modern surface sediments, 138B42:824–826
- Oman margin N, 117B23:416
- opal-CT/quartz transition 127A6:307
- oxygen isotopes, 117B24:436
- Paleocene/Eocene boundary, 199A1:84; 13:23;
199B16:3
- peridotites, 153B29:518
- phyllosilicates, 129B17:339, 342–343; 158B18:242
- pore water, 115B34:630–631, 643–644; 135B42:680–
688; 208A3:21; 4:20; 5:15; 6:24; 7:22; 8:23–24
- provenance of major elements, 160B17:213
- sediments, 138B19:459; 171B_B4:4–5; 195A4:36
- sheet silicate formation, 119B16:313
- shipboard vs. shore-based digestion, 206B3:14
- shore-based flux vs. shore-based microwave acid di-
gestion, 206B3:12–13
- siliceous deposits, 129B2:41
- Sulu Sea, 124A11:220
- ultramafic rocks, 118A1:13
- volcanic rocks, 183B17:2
- vs. age, 199A1:67; 7:13
- vs. aluminum, 135B43:700; 154B36:517; 195B8:17
- vs. depth, 129A2:59; 3:126; 4:208; 133A(1)4:104; 137/
140B14:160; 139B43:690; 141A8:281; 10:406;
148B5:60; 34:425; 162A3:80–81; 4:119; 5:162;
6:196; 7:248; 8:281; 9:318; 10:374; 168A4:83;
5:145; 6:182; 171B_B4:8; 193B1:66; 195B10:7;
199A8:36; 9:27; 10:40; 11:65; 12:70; 13:54, 56;
14:39, 41; 199B15:6; 16:7; 205A5:84; 206B3:15;
208A4:58; 5:48; 6:67; 7:57; 8:56
- vs. iron, 147B15:307
- vs. iron/(iron + magnesium) ratio, 137/140B13:149;
14:159; 18:210; 152B10:142; 158B18:242
- vs. magnesium, 139B20:402
- vs. magnesium/(magnesium + iron) ratio, 148B6:80
- vs. magnesium number, 137/140B20:238
- vs. sodium, 157B12:166
- vs. subbottom depth, 141A6:120; 7:217
- vs. titanium, 143B15:248–249
- well-logging, 117A19:623; 126A13:206
- X-ray fluorescence data, 117B29:484–485, 487

- See also* aluminum/(silicon + aluminum) ratio; aluminum/silicon ratio; aluminum/silicon ratio; hydrogen/(silicon + calcium) ratio; iron + silicon; iron/silicon ratio; iron/silicon ratio; magnesium-calcium-silicon-oxygen-hydrogen system; silica; silicates
- silicon, dissolved, amount through time, 209B5:27, 29–30, 36
- silicon, inductively coupled plasma–atomic emission spectroscopy, 199A7:12
- silicon + aluminum + magnesium + iron system, 129B17:320–321
- silicon/aluminum ratio
- biogenic opal effect, 117B23:417
 - inorganic sediments, 154B36:515–516
 - nannofossil clay, 184B12:5
 - Oman margin N, 117B23:416; 24:432, 442
 - Oman margin vs. Owen Ridge sites, 117B24:437
 - Owen Ridge, 117B23:416–417; 24:432, 434, 440
 - Pigafetta Basin, 129B1:16
 - quartz effect, 117B23:417
 - secondary minerals, 142B9:71–72
 - sediments, 181B9:2
 - spectral analysis, 154B36:522, 524, 526
 - tuff, 129B4:127
 - vs. age, 181B1:28; 9:5; 184B12:20
 - vs. depth, 129B1:17; 139B12:301; 154B36:519–521, 523, 525; 157B31:555; 38:630–631; 160B17:210–212
 - vs. opal variations, 117B20:349
 - weathered basalt, 152B9:119, 121
 - zeolites, 152B34:419–420
- silicon dioxide
- volcanic rocks, 183B17:2
 - vs. depth, 183B17:2, 5
- silicon + iron + manganese system
- samples, 129B2:63
 - sediments, 129B2:55, 62
 - vs. depth, 155A7:160; 12:364
- silicon/iron ratio
- jasperoids, 193B9:7
 - weathered basalt, 152B9:119, 121
- silicon logs
- lithology, 185A4:46
 - vs. depth, 148A3:173; 185A4:140–141
 - vs. iron logs, 148A3:172
- silicon/magnesium ratio, vs. aluminum/silicon ratio, 153B14:300
- silicon/(silicon + calcium) ratio
- vs. depth, 160A8:271
 - See also* lithology logs
- silicon/(silicon + calcium) ratio logs, 165A3:93, 104; 4:193
- silicon/titanium ratio, vs. age, 199A1:70
- silicon yield. *See* silica logs
- sillimanite
- basement/sediment contact, 161A6:215, 220
 - gneisses, 161B19:266–267; 20:283–284
 - heavy minerals, 174A_B6:6, 9–11
 - photograph, 161A6:228, 238, 240
 - photomicrograph, 161A6:239, 241, 243–245, 247; 161B19:276–277, 279; 20:286; 23:313
- Sardinian margin, 107B2:33
- schists, 161B19:264–265; 20:282–283; 23:312–314
- textures, 161A6:224
- thermobarometry, 161B20:288, 290
- See also* fibrolite
- sillimanite needles
- quartz grains, 119B3:56
 - sandstone, 119B3:50–51
- sills
- age, 205B1:15–16
 - alkali basalts, 143A2:28
 - alkalic diabase, 129B18:345–346
 - alteration, 124B20:277–278; 139B8:116–117; 34:567; 198A9:17; 210A3:56–57, 68
 - ancient oceanic crust, 129B32:574
 - argon isotopes, 198B1:4
 - basalts, 127/128B(2)50:819; 135A(1)11:630–631
 - basement, 198A9:5–6
 - basins, 146B(2)23:322–323
 - bathymetry, 128A1:20, 35
 - Cagayan Ridge, 124A12:339
 - Celebes Sea, 124A13:368–369; 124B20:275
 - complexes, 180B(synthesis):6
 - composition, 152A11:229; 169A5:212–214; 169B10:8; 175B11:3–4
 - cores, 129B2:33; 210A1:72
 - correlation, 210A3:112–113
 - Cretaceous, 129B18:345–359
 - crustal heterogeneity, 127/128B(2)70:1113–1114
 - crystallization, 127/128B(2)53:864–865
 - demagnetization, 127/128B(2)59:938; 134B26:471
 - density and porosity, 124B6:88; 169B7:5–6
 - diabases, 128A3:86; 129B17:309; 180A6:37–38
 - downhole measurements, 124A11:273–274
 - emplacement, 127/128B(2)56:894, 927, 938; 129B18:349; 139A6:196; 205B9:12–13
 - flows, 152A11:227
 - fractures, 124B8:112–114
 - geochemistry, 134B20:397–399; 152B28:341, 343; 198B1:36; 210A3:330; 210B1:21–23
 - geology, 169S_A2:13–14
 - hydrothermal circulation, 169A1:10
 - impedance, 124B37:509
 - injection, 134B9:164–165
 - intrusions, 127/128B(2)50:829–830; 128A3:95; 139B43:679–693; 169A3:101
 - Japan Sea, 127/128B(1)16:299–300; 22:365
 - Juan de Fuca Ridge Middle Valley, 139B1:4–5, 101
 - laccoliths, 169A6:256
 - lava, 163A3:28
 - lithology, 129B2:33; 146A(2)2:32; 198A9:17–18; 210A1:15, 30–31
 - low-potassium zone, 124B6:84
 - lower sill complex, 210A3:69–70
 - magnetization, 210B15:9–10
 - margins, 139A7:335–337
 - mass balance, 169A3:96, 98–99
 - Messinian, 161B43:547–548
 - Mindoro Strait/Pacific Intermediate Water, 124A7:102

- neutron porosity logs, 124B6:89
- oceanic crust, 170A1:7
- paleoinclination, 198B20:4–5
- petrography, 169A3:90–93
- petrology, 124B19:254; 134B19:375–392; 139B6:84–97; 143A6:139–141, 143; 210A3:65–70
- photograph, 169A3:106; 175A6:155; 7:181; 198A9:60; 210A3:242
- photomicrograph, 168A5:122
- pore water, 205A4:47–48
- post-late Miocene, 135B38:628–633; 55:897
- seismic reflectors, 139B36:593
- seismic velocity, 139B38:597–612
- Site 794, 127/128B(2)51:837–838, 849; 58:906, 927; 83:1339
- Site 797, 127/128B(2)51:837–838, 850; 58:907–908
- Site 800, 129A2:65
- Site 857, 139A7:346–347
- stratigraphy, 185A1:9–10
- suites, 127/128B(2)52:853–855
- Sulu Sea, 124A11:255, 260–261, 263–265, 279
- tectonic shallowing, 124B28:376–377; 125B30:406
- thermomagnetic behavior, 134B28:499
- thickness, 192B1:4
- velocity, 169B7:7
- vesicularity, 135B37:615–623
- vs. depth, 175B1:8
- well-logging, 139B36:577
- zoning, 210A3:66–67
- sills, basaltic
 - classification, 125B16:304–306
 - clinopyroxene-olivine-plagioclase phyric rocks, 123A5:316
 - composition, 134B2:37; 35:617
 - geochemistry, 134A13:504
 - hydrothermal alteration, 198B1:3–4
 - Japan Sea, 127/128B(2)50:819
 - lithology, 134A13:495; 143A6:123–124
 - magnetization, 139B2:32
 - petrography, 125B16:299
 - petrology, 134A13:501–502
 - photograph, 134A13:498; 139A6:255
 - physical properties, 123A5:326
 - rare earths, 143B15:252
 - seismic structure, 139B1:7–8
 - Site 758, 121B29:549
 - Site 766, 123A5:316–318; 123B4:203
 - stratigraphy, 143B15:253
- sills, basaltic andesite, lithology, 135B16:248–249
- sills, diabasic
 - Leg 129, 129B31:551
 - lithology, 129A2:44; 210A1:14
 - mid-Cretaceous, 129B31:568; 32:572
 - photograph, 168A5:118
 - physical properties, 129B27:485
 - Site 800, 129B2:32
- sills, gabbro
 - geochemistry, 205A4:174–175
 - lithology, 205A4:26–28
- sills, mafic
 - composition, 139A6:232–238
 - remanence, 139B30:519–534
- sills, magnesium oxide
 - Juan de Fuca Ridge, 139B6:95
 - vs. depth, 139A5:139; 6:223, 225, 227; 7:357; 8:515–518; 139B11:228–250; 12:301; 17:359–367
 - vs. silica, 139B11:225
 - vs. sodium oxide, 139B6:96
- sills, massive alkalic diabase, chemistry, 129B17:305–343
- sills, plagioclase-phyric, photograph, 134A13:502
- sills/flows ratio, Aptian, 129B31:559–560
- sills/sediment contacts
 - petrology, 210A3:65–66
 - photograph, 210A3:242, 244–245, 254
 - photomicrograph, 210A3:254
 - velocity, 210A3:104, 294
- silt
 - abundance, 160B19:241
 - Baffin Bay, 105B1:8; 3:41, 43
 - Bengal Fan, 116A4:48; 5:93; 6:158
 - Berriasian–Valanginian interval, 103B8:128–130
 - Cenozoic, 134B1:7–8
 - clastic sulfides, 169A3:59
 - clay mineralogy, 204B11:1–19
 - color, 113A10:537
 - color reflectance, 167A(1)12:342
 - compaction, 155B27:453
 - composition, 110B4:53; 113A9:457; 146A(1)6:248, 253–254; 169S_A2:14
 - cross-laminations, 110A5:220
 - cumulative percentages, 174AXS_A3:73–77
 - current activity and deposition, 119A28:514, 542
 - dating, 110A6:350; 7:436; 9:544; 110B2:8; 113A8:33; 12:713–714
 - deposition, 166A3:33–34; 167A(1)9:226
 - electron microprobe data, 155B7:149
 - fraction in cores, 149A5:123
 - Galicia margin W, 103A8:129–133; 9:222–223, 231
 - gas hydrates, 204B10:4–6
 - glaciomarine sediments, 163X_A8:3
 - grain size, 110B4:56; 19:295, 299, 303; 119B10:191, 193; 174A_B4:1–18
 - impacts, 178B9:2
 - Kerguelen sediment ridge, 119A14:513
 - laminations, 112A11:169; 113A9:463; 172A5:174, 176–178
 - Le Danois Bank, 103A7:118
 - lithofacies, 146B(2)27:349; 155A4:80, 82–84; 155B40:615, 620; 161B4:59, 62–64
 - lithology, 103A10:423; 133A(1)14:574; 149A4:47–58; 5:118–124; 6:152–155; 7:218–220; 8:264, 268; 150X_B2:16, 18; 18:255; 151A11:353, 356; 152A11:194–196, 198; 12:261–264; 155A6:92–93; 7:127–130, 163; 9:204–207; 10:246–248, 266; 11:277–278, 280–281; 12:330, 332; 14:412–415; 15:443–445; 16:466–467, 470; 18:541, 544–545, 564; 19:595, 599–603; 21:637–638, 641, 643, 645; 22:661–663; 157A6:138, 147; 7:329–333; 9:448; 160A9:296; 14:469–471; 160B34:438–439, 441; 36:454; 161A4:59–64; 9:393–397; 162A3:55, 58; 6:178, 181, 184; 7:227, 231; 8:261, 263; 9:296, 298; 10:353, 355–

- 356; 163X_A4:5-6; 164A5:69-72, 74-75, 78-79;
166A8:178; 9:238-239; 10:296; 167A(1)4:55;
12:318-320; 13:357-359; 16:465, 467-468;
168A4:57; 5:109-111; 169A4:164-167;
169S_A2:21-22; 170A3:53; 5:158-159, 161-162;
171A_A7:100; 171B_A4:112; 172A4:84-92;
5:164-165, 168, 170-174; 174A_A4:111-113;
5:160; 174AX_A1:26; 174AXS_A1:19; 3:28-33;
4:14-28; 178A1:6-7; 5:6-9; 6:4-5; 7:35, 39;
178B25:4-6; 180A6:11-12, 16-17, 23; 7:7, 9-10;
8:4; 180B6:9-10; 181A1:21-23; 6:6-9; 182A1:22;
186A1:9; 4:22; 5:8-9; 188A3:15-16; 188B1:4;
194A5:5; 7:13; 9:5-8; 197A4:6; 201A9:7-11;
202A6:6-9; 3:4-8; 204A4:4-11; 5:3-4; 6:4-8;
7:4-6; 9:5-7; 206A3:23-26
- location, 113A9:456, 459, 462
- logarithmic plots, 180B9:26
- major elements, 167B25:288-289
- Messinian, 160B36:455
- mineralogy, 177B13:1-10
- Miocene, 162A8:267
- nannofossils, 168B4:44-45
- oblique stratification, 110A5:221
- Ortegal Spur, 103A7:111
- paleoenvironment, 174AXS_A4:10-12
- paleomagnetism, 134B25:448
- percentage, 168B6:69-71
- petrography, 160B45:577-578
- photograph, 149A4:85; 152A11:199; 152B9:128;
155A5:83-84, 98-100; 7:133-134; 8:181; 9:209-
210; 10:250, 253; 11:279; 12:331, 338, 13:390-
392; 14:416-417; 15:444, 446; 16:469-473;
18:544; 19:577; 20:601; 21:643; 157A5:117;
10:510; 160A9:298; 12:424, 430; 13:455;
161A7:313-314; 8:361, 364-366; 162A9:302;
169A5:211; 170A3:55; 7:223; 172A4:84-85; 89-
90, 92; 5:166-167, 175; 6:256; 172B7:14, 18, 26;
174A_A5:159; 178A8:36; 178B18:10; 181A3:43;
183A5:80; 187A15:30; 188A3:98; 194A5:50;
197A4:42; 205A5:50; 6:30; 210A1:66
- photomicrograph, 161B8:107; 178B18:11-12;
187A15:32; 194A4:41
- Pleistocene, 180A1:10
- populations, 178B24:25-26
- pore water, 150X_B25:343-354
- redeposition, 205A6:9
- reflectance, 155A23:697-700
- sediment drifts, 172A:7-8
- sedimentary structures, 172B7:4-12
- sedimentation, 152A13:281-282; 155A10:265-266
- sediments, 174AXS_A5:72-76; 6:86-90; 177A1:9, 20-
22
- seismic units, 188B8:6-10
- Site 685, 112A17:600, 611
- Site 699, 114B33:612
- Site 701, 114B33:614
- Site 796, 127A6:261-264
- Site 799, 127/128B(1)2:43; 128A5:256, 264
- size, 113A12:712
- smear slides, 188A3:16-17
- textures, 110B15:244; 150X_B24:317-341;
174A_B3:4, 9
- thickness vs. depth, 168A5:110; 6:168; 181A6:53
- Tiburon Rise N, 110A5:216, 218
- Tithonian, 103B4:41
- turbidites, 119B12:231; 14:285; 180B9:5-9
- turbidity currents, 155B4:57, 59-61
- volume ratio, 167B25:296
- vs. age, 195B3:26
- vs. biogenic silica, 177B13:6
- vs. carbonate content, 149B45:692
- vs. core recovery, 149A5:124
- vs. corrected depth, 167B22:260
- vs. depth, 110A4:126; 113A8:337; 146A(1)7:323;
146B(1)1:10-17; (2)22:302; 150A7:143;
152B4:42; 156B27:341; 161A8:360; 167B25:290;
168B6:69, 73, 75-76, 78, 80-81, 83-84;
178A4:49; 5:56; 8:30; 178B25:19-25; 182B7:7-
10; 8:11-16; 9:12; 186A4:78; 188A5:54;
202A8:45; 204A3:45-47; 4:36-40, 42, 51; 5:22;
6:29-30; 7:26; 8:37; 9:32-33, 35; 10:40-43;
11:23-24, 26; 204B10:11-18; 11:13-15;
206A3:123
- vs. siliceous microfossils, 114B33:616-624
- well-logging, 173A3:51-61
- X-ray diffraction data, 186A4:86
- See also* clay/silt ratio; sand/silt ratio
- silt, aragonitic clayey, lithology, 164A8:246
- silt, bioclastic, photograph, 166A9:240
- silt, biosiliceous, photograph, 151A6:121
- silt, burrowed sandy, lithology, 174AXS_A4:12
- silt, calcareous
- lithology, 161A6:188-189; 180A6:8-9; 8:13-14; 9:8;
180B6:9
- mass flow units, 160B37:468
- photograph, 146A(1)7:320; 160B36:456; 180A6:87
- Sardinian margin, 107A10:762
- well-logging, 173A3:51-61
- silt, calcareous clayey, Oman margin N, 117A12:388,
400; 117B11:225
- silt, clay-rich, lithology, 201A10:8-10
- silt, clay diatom nannofossil, 167A(1)13:357-359
- silt, clayey
- Baffin Bay, 105B1:9
- Bengal Fan, 116B31:381
- cores, 167B25:278-280
- grain size, 141A6:86; 146A(1)4:67, 69
- hydraulic conductivity, 146B(1)17:287-289
- Labrador Sea, 105B4:56
- laminations, 119A8:301
- lithofacies, 169A3:54-56
- lithology, 141A6:81-84; 7:164-165; 8:246; 9:306-309;
10:349-350, 352-353; 146A(1)4:60-61; 5:136-
137, 140-141, 144; 6:247; 7:308-309, 314-315;
(2)2:22, 24; 150A6:69-75; 151A5:60-66; 6:118-
122; 7:166-171; 8:227-230; 9:275-277; 10:322-
326; 11:356-357; 152A7:76-77; 12:261-264;
162A5:146, 149, 152; 6:181, 184; 167A(1)5:87;
9:225-227; 10:288-291; 168A6:167-169;
170A5:158-159, 161-162; 174A_A3:43-45;
4:104-111; 174AX_A1:30, 32; 174AXS_A2:18,

- 20–22, 31–33; 3:18–19, 26–28; 6:25–26, 32–34;
7:18–19; 178A8:3–9; 180A6:8, 14, 16; 180B6:10;
186A5:8–9; 188A4:10–11; 190A4:6–7; 5:7–8;
6:4–6; 7:5; 9:7–9; 195A5:7–8; 204A3:7–8
- origin, 119A12:475
- paleoenvironment, 174AXS_A4:10–12
- petrography, 185B7:4–5; 187A12:6
- photograph, 141A10:352–353, 355; 146A(1)4:64;
5:140, 142–143; 7:316; 151A5:64–65;
152B9:127; 155A6:102; 164A5:74;
167A(1)9:227; 172B7:14; 178A8:33; 180A6:92
- physical properties, 119A9:365
- Pleistocene, 131A6:82
- Prydz Bay, 119A9:372, 374, 381; 12:462
- recovery from cores, 146A(1)6:252
- Site 704, 114B33:625
- Site 784, 125A12:275
- vs. depth, 146B(1)20:320–321
- silt, clayey radiolarian ashy, 136A4:39
- silt, clayey zeolitic, 185A4:14–15
- silt, crystal-lithic
lithology, 157A10:507
petrography, 157A7:351, 353–355
- silt, detriticarbonate
Baffin Bay, 105B4:55–56
Labrador Sea, 105B4:61
- silt, diatom-bearing, 201A8:9–10
- silt, diatom-rich
index properties, 117A12:400–401
lithology, 201A10:8–10
Oman margin, 117A4:47–48
photograph, 201A10:35
- silt, diatomaceous clayey
Site 724, 117A12:388–400
Site 725, 117A13:434
stratigraphic occurrence, 117A12:391
- silt, disorganized, lithofacies, 155B40:614
- silt, foraminiferal
lithology, 165A3:54; 5:239, 242
Site 685, 112A17:600
- silt, glaciomarine, lithology, 152A9:113–114
- silt, glauconitic
Broken Ridge, 121B37:747
Cretaceous, 121A4:89
lithology, 150X_B2:20; 174AXS_A1:23; 4:14; 6:30
Site 685, 112A17:604
- silt, graded
lithology, 178A8:3–4
photograph, 155A12:328; 178A8:32
- silt, gypsiferous, Sardinian margin, 107A8:448;
107B14:227
- silt, infiltrated, photograph, 194A7:71
- silt, interbedded, lithofacies, 150B11:205–206
- silt, laminated
lithology, 178A4:5–8, 11–13
photograph, 150A8:216
- silt, lignitic, lithology, 174AXS_A4:28; 5:42
- silt, massive, photograph, 152A11:197
- silt, micaceous
lithology, 174AX_A1:28–30, 32; 174AXS_A1:24–25;
4:13–14; 6:29–30
- photograph, 188A4:61
- silt, micritic, lithology, 161A6:189, 191
- silt, middle neritic, photograph, 174AXS_A6:77
- silt, muddy, Lima Basin S, 112A19:806
- silt, nannofossil-rich clayey
depositional environment, 126A8:244
photomicrograph, 164A5:80
Site 790, 126A7:144–145
Site 792, 126A8:228
Site 793, 126A9:323
- silt, nodular, lithology, 184A6:6
- silt, organized, lithofacies, 155B40:614–615
- silt, palagonitic, photomicrograph, 205A6:29
- silt, peaty clayey, lithology, 174AXS_A6:21–22
- silt, phosphatic, lithology, 194A8:4
- silt, phosphatic-glauconitic
diagenesis, 112A16:533
Trujillo Basin, 112A16:532–533
- silt, quartz
lithology, 152A11:198, 202; 159A8:261–264, 266–
267; 182A10:11; 184A5:6–9
photograph, 171B_A5:179, 182; 194A7:72
photomicrograph, 194A4:51
- silt, quartz-foraminifer-lithic, 157A9:445
- silt, quartzo-feldspathic
lithology, 167A(1)14:393, 395; 181A3:5–6; 4:4–5; 8:8
photomicrograph, 210B2:23
Pisco Basin W, 112A18:709
- silt, quartzose, lithology, 152A11:196
- silt, radiolarian, lithology, 198A3:14
- silt, sandy
Bengal Fan, 116B31:379
composition, 201A1:34
lithology, 135A(1)7:295–301; 139A5:109–110;
152A6:60–62; 7:76–77; 10:168–170; 11:204;
160A12:423–424, 427–428; 161A8:357–358,
361; 168A5:109–111; 170A4:104; 174A_A3:43–
45, 56–57; 4:104–111; 174AXS_A1:23; 3:23–25,
31–33; 4:13–25; 5:19–20; 6:35–38, 42–46;
186A4:15–16; 188A4:9–14; 5:9; 202A3:6–9;
204A7:5–6
petrography, 168B5:54–56
photograph, 141A7:167–168; 8:246, 249; 9:311;
152A7:77; 156A6:104; 160A9:300; 161A7:310;
8:361; 170A7:221; 172A6:259
Salaverry Basin, 112A12:255; 13:308
sedimentation, 141B31:380–388
- silt, serpentine
pore water, 125B21:375
Site 780, 125B19:349
- silt, siliciclastic
Atlantic Ocean E tropical, 108B15:244
carbonate, 107B14:226
cross-laminations, 105B4:58, 63
grain size, 108B15:253, 256
mass accumulation rates, 108B15:249, 254–255
- silt, sortable, vs. biogenic silica, 177B13:6
- silt, terrigenous
abundance vs. depth, 141A7:169
grain-size, 119B11:217
lithology, 123B2:64; 133A(1)15:623

- Neogene, 145B16:247–256
sediments, 177A1:21
- silt, turbiditic, lithology, 169A3:52
- silt, vadose, photomicrograph, 194A7:53
- silt, vitric
deposition, 126A9:326–327
felsic and mafic components, 126A8:228–229
lithology, 126A7:164; 126B14:213; 135A(1)6:256;
8:350–351; 9:410–413; 10:501–503; 11:585, 589
Miocene, 135B11:164
petrography, 157A10:520–521
pumiceous sand, 126A7:159
Site 781, 125A9:180, 182
Site 790, 126A7:140–141, 144, 157
Site 791, 126A7:147–148, 161
Site 793, 126A9:325
X-ray diffraction data, 126A7:148, 150
- silt, volcanic
lithology, 134A7:102–104; 8:145; 9:186, 193; 10:266,
271; 12:400, 404; 13:490; 135A(1)5:196–197;
9:415–416; 152A8:93; 9:114; 183A5:15–16
photograph, 134A10:272
photomicrograph, 205A6:29
- silt, volcanic glass-rich, X-ray diffraction data, 204A3:53
- silt, volcanoclastic
lithology, 152A11:196; 180A5:7; 9:7, 11; 200A3:11
photograph, 151A8:231; 152A11:207–208; 180A6:91,
93; 210B9:47
- silt clasts. *See* clasts, silt
- silt/clay ratio, cyclic processes, 178B25:7
- silt fraction, siliciclastics, 184B19:8–9
- silt grains, lithology, 188A3:13–14
- silt laminae
ice-rafted debris, 178B10:5–8
lithology, 178A4:4–13; 5:6–7, 11–12; 8:3–9;
178B25:4–5, 8; 188A3:15–16, 19–21; 5:8–11
photograph, 177A4:30; 178A4:53; 5:49–50; 6:34;
8:31–32; 188A3:90, 95; 5:50
postglacial sediments, 178B18:5
- silt layers
lithology, 186A5:15
location, 161A9:398
number, 186A5:101
photograph, 204A8:39
vs. depth, 186A5:51
- silt matrix
lithology, 180A12:22
photomicrograph, 180A12:85
- silt partings, photograph, 188B12:12
- silt patches, vs. depth, 186A5:51
- silt pods, photograph, 177A4:30
- silt/sand ratio
textures, 155B4:53–78
vs. age, 195B3:23
- silt/(silt + clay) ratio, vs. depth, 202A3:25; 4:32; 6:30
- siltite
photomicrograph, 180B8:41
See also calc-siltite, ferruginous
- siltstone
Albian, 159B12:117
alteration, 180A1:6
Asturian slope, 103A7:111
basement, 183A1:17–19
bedding, 159A6:186
carbonates, 143B37:588; 194A1:50–54
Celebes Sea, 124A10:128, 132–134, 137
clasts, 160B46:598
Coniacian–Eocene interval, 159B12:118
correlation, 135B22:367–368
décollement structures, 159B3:28
deformation bands, 141A6:105–106
deposition, 119A9:356; 126B4:87; 41:612;
129B12:231; 189A1:7
diagenesis, 150X_B3:33; 205A6:10
fluid inclusions, 210B5:1–21
geologic history, 188A1:8–9; 207A1:4
graded beds, 126B4:80
grain size, 117B10:217, 219
internal structures, 126A5:72–73
Jurassic–Cretaceous interval, 103A7:107
laminations, 117B10:215; 119B3:49
lithofacies, 135B12:175–178; 155B40:641; 169A3:54–
56; 178A1:14–15
lithology, 105A4:87; 127/128B(2)78:1233; 129B5:138;
130A5:109; 134A4:47; 7:102–106; 10:266;
12:406; 13:490–493; 135A(1)5:197–198;
139A7:298–300; 8:449–454; 141A7:165, 167,
169–170; 149A4:52–59; 5:124–126; 6:155–175;
7:220–223; 149B45:687–688; 150A9:267;
155A17:508–509; 159A6:170–174; 163A5:52;
167A(1)5:92; 169A5:210; 6:265; 169B9:5, 20;
170A5:158–159; 6:161–162, 195; 171A_A3:27;
171B_A6:258; 173A4:74–77; 178A4:9, 11;
180A6:21–22, 28; 8:5–6, 9; 9:14, 19–22; 10:5, 7;
12:5, 10–12, 16–17; 180B6:7–8, 11–13, 15–16;
182A4:10; 181A1:21–23; 6:9; 183A5:16, 41;
186A4:17–18; 196A1:9; 4:15; 197A6:5;
210A1:14; 3:45
mottled zones, 119B3:46–47, 53
mud breccia, 160A1:11–14
mud domes, 160A18:522–524
Owen Ridge, 117B11:224
Paleocene, 189A6:19–21
paleomagnetism, 143B27:405–418
petrography, 119B3:50–52; 160B45:578; 161B3:42;
173A9:270; 200A3:15–16
photograph, 134A13:496–497; 141A7:169;
143A9:358; 149A4:59, 63; 155A12:336, 517;
157A4:70; 157B12:175; 159A3:60; 5:82; 6:207;
8:99; 9:304; 159B2:21; 7:69–70; 160A11:390;
161A8:373, 375; 169A3:58, 61, 73–74, 76, 80–
81, 88, 109; 170A:161, 163; 180A5:55; 6:105,
113; 8:47, 54, 58; 9:88; 10:27; 12:58; 183A5:83,
131; 210A3:185, 210–211
photomicrograph, 169A3:79; 180A6:102; 9:92;
180B10:33–34; 183A5:84–85; 194A6:38;
195A4:85; 205A5:51; 6:29; 210A3:226
physical properties, 129B29:508–517
Pliocene, 180A1:16
post-Valanginian, 129B36:686
preglacial sedimentary basin fillings, 163X_A8:5

- remanent magnetization, 134B27:486–490; 28:496–497
- rifting, 159B12:115–116
- sedimentary structures, 119A9:353–354; 127/128B(2)78:1233
- sedimentation, 180A1:4
- seismic stratigraphy, 119A10:393
- Site 741, 119A10:381
- Site 742, 119A11:410
- Site 748, 120A7:173, 228; 120B(1)8:99–100, 133
- Site 750, 120A9:294; 120B(1)8:100
- source, 173A6:155–156
- stratigraphy, 197A1:14–15
- structures, 159B2:16; 180A8:21–22
- Sulu Sea, 124A11:208–210
- terrigenous sedimentation, 180A1:10
- thermal history, 159B6:57–58; 10:97–98
- tilting, 159B9:87, 89–90
- turbidites, 173B6:1–11
- unconformities, 159B2:16; 180B(synthesis):9
- volcaniclastics, 152B9:122; 180A1:9
- volcanism, 157A2:22
- vs. depth, 171A_B3:22
- well-logging, 173A3:51–61
- X-ray diffraction data, 126A9:342
- See also* pebbles
- siltstone, black
 - lithology, 123A5:299, 301, 313
 - photograph, 159B7:67
- siltstone, brecciated volcanic, lithology, 183A5:29
- siltstone, burrowed, photograph, 210A3:165
- siltstone, calcareous
 - lithology, 160B37:469; 161A8:359–360, 362; 173A6:110, 112–114; 7:173; 180A9:15–16, 25; 180B6:8; 197A5:6; 207A6:8–9; 210A3:33–34, 41
 - photograph, 159A8:281; 160A14:477; 207A6:51; 210A3:204, 244
- Pliocene deposition, 107B38:655
- proportions, 173A6:119
- well-logging, 173A3:51–61
- siltstone, calcareous sandy
 - lithology, 173A7:168–170, 173; 8:228–234
 - photograph, 173A7:170–173; 8:230–231
- siltstone, calcite-cemented, lithology, 159A8:266–267
- siltstone, carbonaceous
 - lithology, 188A4:13
 - Site 797, 127A7:345–346
- siltstone, cemented, photograph, 146A(1)7:332
- siltstone, clay-rich, lithology, 180A5:15–16
- siltstone, clayey
 - clay mineralogy, 117B10:218
 - deformation, 125A8:154
 - deposition, 117B10:219
 - grain size, 117B10:217
 - lithology, 123A4:91, 93–94, 103; 123B4:92, 94; 141A6:82–84; 7:167, 169–170; 8:248, 251; 149A4:58–59; 159A7:228–231; 170A5:158–159, 161–162; 171B_A6:258–259; 180A5:14–15; 6:18–19, 25, 27–28; 9:16, 23; 12:5–6, 8, 10, 13–14; 180B6:10–13, 15; 182A1:17; 6:8–9; 186A4:17–19; 189A3:14–15; 5:13–14; 6:14, 17–19; 7:12–13; 190A4:7; 5:8–9; 8:5–9; 9:6–9; 196A1:9; 4:15; 207A4:9
- Oligocene, 189B1:16
- photograph, 141A10:352; 149A6:160–161; 159A7:231–232; 8:270; 180A5:59, 61; 9:81; 10:40; 12:59–60, 67, 71, 76; 200A3:76
- possible eolian origin, 117B10:218
- Prydz Bay, 119A10:385, 405
- Site 788, 126A6:109
- siltstone, contorted, lithology, 134A12:407
- siltstone, crystal-lithic volcanic, 157A8:403, 405; 157B12:156; 183A5:6–8, 13–27, 32
- siltstone, deformed, photograph, 210A3:179
- siltstone, diatom clayey, Site 795, 127A5:187
- siltstone, dolomitic, lithology, 157A8:402
- siltstone, foraminiferal, lithology, 161A8:358–359, 362
- siltstone, glauconitic
 - bulk mineralogy, 189B11:3
 - Eocene–Oligocene transition, 189B1:14
 - lithology, 123A5:308–309; 123B4:101; 39:752
 - photograph, 189A3:76; 7:67
 - upper Eocene, 189B1:12
- siltstone, glauconitic diatomaceous clayey, 189A7:13–14
- siltstone, glauconitic sandy, 189A6:14
- siltstone, graded
 - lithology, 180A5:10–18; 12:8–9, 13–14; 210A3:37, 41–42
 - photograph, 180A12:59; 210A3:190, 195
- siltstone, greenish or grayish clayey, 180A12:8
- siltstone, hydrofractured, photomicrograph, 131B7:99
- siltstone, laminated
 - photograph, 149A4:85; 159A7:232, 240–241; 159B13:126; 170A6:201; 210A3:193, 208, 212, 262
 - Site 739, 119B6:127
- siltstone, lenticular, photograph, 210A1:69; 3:216
- siltstone, lithic, lithology, 157A7:333–338
- siltstone, lithic-crystal vitric, 126A5:75
- siltstone, lithified, photograph, 205A6:34
- siltstone, massive, photograph, 180A12:66
- siltstone, metamorphosed
 - igneous provinces, 163X_A1:3
 - lithology, 152A9:115–116
 - Site 739, 119B7:138
 - See also* metasiltstone
- siltstone, muddy
 - lithology, 210A3:34
 - Turonian–uppermost Santonian, 210B8:9
- siltstone, nannofossil
 - lithology, 171B_A4:105; 189A3:13
 - photograph, 171B_A4:111
- siltstone, normal-graded, photograph, 180A12:61
- siltstone, organic clayey, lithology, 189A3:14
- siltstone, quartz, photograph, 159A7:230
- siltstone, quartzose, photograph, 149A6:177
- siltstone, radiolarian
 - Cretaceous, 130A9:382
 - graded bedding, 130A9:396
 - photograph, 143A9:317
- siltstone, ripple-laminated
 - lithology, 131A6:85

- Pleistocene, 131A6:87
turbidites, 131A6:95; 131B3:37
- siltstone, sandy
lithology, 141A10:354–356, 358; 159A7:228–231;
170A5:158–159, 161–162; 180A9:16, 25;
180B6:7; 182A6:8; 197A5:6
photograph, 141A10:359; 159A7:232; 173A6:117;
180A9:91; 210A3:207
photomicrograph, 180A9:77; 195A4:91; 210A3:223–
224
Site 737, 119A6:168
Site 766, 123A5:284, 286; 123B4:94
temperature calibration, 141B20:264
- siltstone, sandy clayey
lithology, 183A6:8–9
photograph, 183A6:77–78
- siltstone, sandy quartz, lithology, 159A8:266–267
- siltstone, sideritic, lithology, 159A6:170–173
- siltstone, siliceous, Site 799, 127/128B(1)2:39–40
- siltstone, subarkosic plant-bearing, 119B7:135, 137
- siltstone, tuffaceous, photomicrograph, 210A3:175
- siltstone, tuffaceous clayey, lithology, 128A3:68, 89–90
- siltstone, vitric
deformation, 125A12:285
graded beds, 126A9:331–333
lithology, 135A(1)6:255; 8:352; 10:501–503, 507;
11:589–590; 197A3:14
Miocene, 126A10:407
Site 787, 126A5:75
Site 788, 126A6:109, 112
Site 792, 126A8:229, 235
Site 793, 126A9:332
- siltstone, volcanic, lithology, 135A(1)11:591, 593–595
- siltstone, volcanic calcareous, 135B20:315, 317
- siltstone, volcanic sandy, 134A9:193
- siltstone, volcanoclastic
composition, 143A2:29
lithology, 135B6:87–92; 143A9:306–308; 157A4:68;
180A5:8–9; 9:11, 13; 197A3:14
petrophysics, 143B18:303
photograph, 200A3:75
Site 766, 123B4:101
- siltstone, volcanoclastic sandy
lithology, 200A3:11
photograph, 200A3:64–65
- siltstone clasts. *See* clasts, siltstone
- siltstone–claystone couplets
color, 173A6:137–138
lithology, 180A9:16
photomicrograph, 180A12:64
Site 742, 119A11:405; 119B48:881
- silty clay. *See* clay, silty
- silty claystone. *See* claystone, silty
- silty sandstone. *See* sandstone, silty
- silver
element correlations, 158B27:384
galena, 193B3:3
hydrothermal fields, 158A1:9–10; 158B27:370–373;
28:395
mineral separates, 158B2:31, 33, 36, 39
Site 798, 127/128B(2)86:1368–1369
- sphalerite, 158B1:13
- sulfides, 128A1:21; 158A7:93–94, 97–98; 8:156, 158–
160; 9:172; 10:189–191; 158B3:44
vs. depth, 139B17:359–367; 158A7:129; 8:160;
10:195; 158B4:53, 57, 59, 61
- similarity coefficients, geochemistry, 152B7:87–89
- similarity index, *Scyphosphaera*, 161B17:246–247
- simple pahoehoe lava
internal structure, 197A5:12–13, 45
volcanology, 197A3:17–18
- simulation
magnetic intensity change, 160A15:502
models, 148B9:111–118; 199A3:5–9
numerical, 139B42:669–674
- Sinemurian, rifting phases, 210B1:6
- single-domain behavior, magnetism, 178B14:3;
183B13:16
- sinker bars, operations, 124E_A10:63
- sinkholes
carbonates, 143B29:461–462, 464, 466
meteoric diagenesis, 144B48:865
See also karstification
- sinuosity, channels, 155A3:25–26
- Siphocampe* + *Artostrobos*, 183B5:30
- siphoninids
Mascarene Plateau, 115A11:855
Pleistocene, 133B26:371–374
Site 821, 133B26:371–374
- SIRM. *See* remanent magnetization, saturation isother-
mal
- site geophysics
Juan de Fuca Ridge, 168A6:161–212
Site 800, 129A2:75–80
Site 801, 129A3:152
Site 802, 129A4:227–229
Site 811, 133A(1)4:80–84
Site 813, 133A(1)6:178–180
Site 814, 133A(1)7:204–206
Site 815, 133A(1)8:249–253
Site 816, 133A(1)9:303–305
Site 817, 133A(1)10:350–351
Site 818, 133A(1)11:419–422
Site 819, 133A(1)12:456–459
Site 820, 133A(1)13:511–512
Site 821, 133A(1)14:572–573
Site 822, 133A(1)15:617–619
Site 823, 133A(1)16:683, 685
Site 824, 133A(1)17:773–775
Site 865, 143A6:117–120
Site 866, 143A7:186, 188–190
Site 869, 143A9:303–305
Site 870, 143A10:377
Site 898, 149A5:116–118
Site 899, 149A6:151
Site 900, 149A7:213–214
Site 959, 159A5:72–74
Site 960, 159A6:160–161
Site 961, 159A7:224–225
Site 962, 159A8:260–261
Site 963, 160A4:58
Site 964, 160A5:89–90

- Site 965, 160A6:128–129
 Site 966, 160A7:159–160
 Site 967, 160A8:219–220
 Site 968, 160A9:293
 Site 969, 160A10:338
 Site 970, 160A11:380–381
 Site 971, 160A12:420
 Site 972, 160A13:452
 Site 973, 160A14:468
 Site 975, 161A5:154
 Site 976, 161A6:246–250
 Site 1075, 175A3:52–55
 Site 1076, 175A4:89
 Site 1077, 175A5:117
 Site 1078, 175A6:146–149
 Site 1079, 175A7:149
 Site 1080, 175A8:202–205
 Site 1081, 175A9:228–230
 Site 1082, 175A10:230
 Site 1083, 175A11:230–231
 Site 1084, 175A12:343
 Site 1085, 175A13:388–390
 Site 1086, 175A14:430–432
 Site 1087, 175A15:432–433
 Site 1149, 185A4:2–6
 Site 1152, 187A3:8–9
 Site 1153, 187A4:5
 Site 1154, 187A5:5
 Site 1155, 187A6:8
 Site 1156, 187A7:9
 Site 1158, 187A9:7
 Site 1159, 187A10:4–5
 Site 1160, 187A11:11
 Site 1161, 187A12:10
 Site 1162, 187A13:12
 Site 1163, 187A14:6
 Site 1164, 187A15:10
 Site 1165, 188A3:10–11
 Site 1179, 191A4:7–9
 Site 1180, 191A5:3
 Site 1181, 191A5:3
 Site 1182, 191A5:4–5
 Sites 1054–1055, 172A3:68–75
 Sites 1056–1059, 172A4:135, 138, 143, 146
 Sites 1060–1062, 172A5:245–247
 Sites 1063–1064, 172A6:304–306
- sitosterol
 sapropels, 160B21:266–267
See also beta-sitosterol
- size sorting
 clasts, 160B45:583
 coccoliths, 130B11:179–229
 planktonic foraminifers, 130B8:103, 107
- sjogrenite mineral group
 Conical Seamount, 125B36:600
 serpentinite muds, 125B26:438
 Site 778, 125B19:354–355
 Torishima Forearc Seamount, 125B19:359
- skarn, hydrothermal veins, 153B30:524
- skeletal debris
 lithology, 149A4:50; 182A1:39; 12:7
- sandstone, 180B7:8–10
 sediments, 149A5:119
 textures, 201B14:7–11
 volcanoclastic sand, 180B7:8
 vs. depth, 182B9:13
See also shell fragments
- skewness
 grain size, 178B24:23
 lithology, 134B5:80
 sediments, 149B40:747; 178B12:21–22, 27–28, 33–34
 vs. age, 178B12:10, 14; 25:18
 vs. depth, 149B12:289; 168B6:69, 73, 75–76, 78, 80–81, 83–84; 204B11:13–15
- Skiff Bank, 183B17:1
- Skolithos
 lithology, 149A5:124; 154A4:61; 161A8:357–358, 361; 167A(1)10:246–247; 174A_A5:160; 181A5:5; 7:8–9, 11; 8:5–6, 9; 9:5–7; 194A3:6; 201A7:8, 10; 206A3:23–26
 Pacific Ocean E, 138B10:178–180, 184–185, 187
 photograph, 177A5:35; 201A7:41
 sediments, 116B2:16–17, 19; 119B33:637, 641
 Site 844, 138A(1)9:126–127
 Site 845, 138A(1)10:199, 210
 Site 846, 138A(1)11:281, 284
 Site 849, 138A(2)14:759
 Site 851, 138A(2)16:902, 913
 Site 852, 138A(2)17:975
 Site 853, 138A(2)18:1029, 1034
 Site 854, 138A(2)19:1068
See also ichnofossils
- Skolithos?, photograph, 161A8:360
- slab-derived flux, plate movement, 135B28:510–512, 515–517
- slab/mantle interface, elemental recycling, 195B4:10
- slate, lithology, 173A4:75, 77; 8:238, 240–241
- slate fragments
 photomicrograph, 190/196B3:25
 vs. age, 195B3:24
- slickenfibers, photographs, 153B1:15
- slickenlines
 faults, 131B8:103–122
 microfaults, 148A2:70
 orientation by paleomagnetism, 131B8:108
 photograph, 149A4:86
 vs. depth, 205A5:64
- slickensides
 alteration, 183A9:31, 33–35
 barite veins, 159B2:14
 basalts, 163B4:37–38
 basement, 183A7:17–18
 clays, 159B1:6
 deformation, 160A8:242
 deposition, 171B_A6:262
 distribution, 131A6:129, 141–143, 145–147
 faults, 148B18:268; 159A6:187; 159B1:5–8
 kinematics, 134B23:421
 lava flows, 163A5:55
 lineation, 134B24:432; 159B1:6; 180A8:72
 lithology, 163X_A5:5; 173A4:197; 6:127–129; 183A7:5; 187A13:7; 194A4:10

- magmatic structures, 176A3:60
- paleoecology, 180A1:11
- photograph, 134A12:431; 13:516; 173A6:149
- plunge vs. fault dips, 180A5:70; 6:144; 8:73; 9:97; 10:47; 12:99
- scanning electron microscopy, 190/196B7:21, 27
- sediments, 159A5:98–100; 190A7:8; 9:10; 190/196B7:7
- stereonet projections, 131A6:141–143, 145–147
- structures, 159A7:240–241; 180A5:20–23; 6:40–43; 8:21–22; 9:30–31; 12:30
- Sulu Sea, 124A11:223
- tuffaceous clayey siltstone, 128A3:90
- vs. depth, 205A5:64
- slide deposits
 - lithology, 135B7:112–114; 52:833–834
 - Miocene, 133B27:393–394
 - Pleistocene, 131A6:86
- slide scars
 - carbon-14 age, 164B32:325–327
 - deformation, 164B1:6
 - photograph, 164B32:327
- slide structures, turbidites, 149B12:287
- sliding, permeability, 190/196B10:6
- sliding planes, structures, 180A12:28–29
- slip fiber, *See* veins, slip-fiber
- slip planes, structures, 180A5:20–23
- slip rates, faults, 180B(synthesis):18
- slope-apron facies, lithology, 190A5:7; 190/196B3:5–6
- slope-basin facies
 - clay mineralogy, 204B7:5
 - lithology, 131B27:334, 336–337; 190A6:8; 7:5–6; 190/196B4:3–5
- slope biotopes, benthic foraminifers, 150X_B19:270
- slope deposits, lithology, 181A3:9–11
- slope environment
 - bryozoans, 182A6:10
 - evolution, 133B51:757–759
 - Holocene, 133B22:303–313
 - lithology, 182A10:12
 - paleoenvironment, 192A6:14–15; 7:6
 - rhythmic bedding, 133A(1)12:462
 - sedimentation, 131B27:334–335; 133B42:625–632
 - vs. depth, 131A6:114
 - See also* middle slope environment
- slope environment, lower, 134B30:538–539
- slope environment, middle, 182B9:1–15
- slope environment, middle upper, 182A1:37–38
- slope environment, upper, 182A1:16–19; 9:8; 182B7:1–21; 8:1–24
- slope failures
 - lithology, 135B52:833–834
 - sedimentation, 135B7:116
 - serpentinite breccia, 149B35:574
 - submarine canyons, 150B15:291–292
- slope foresets, deposition, 178A1:3; 2:4–5
- slope stability, gas hydrates, 204A1:10
- slope swells, seismic profiles, 134B1:15–16
- slope to prism transition facies, 190A6:6–8; 7:5–6
- slowness analysis
 - logging-while-drilling, 190/196B17:4–5, 10
 - vs. depth, 178B19:23
- slug tests, permeability, 148B27:354–355
- slump deformation. *See* deformation, slump
- slump deposits
 - age-dating, 108A8:573; 9:633
 - Atlantic Ocean E, 108A3:106, 114, 133; 7:501; 9:620; 108B5:75; 8:557
 - Bathonian–middle Callovian interval, 129B32:584
 - Bengal Fan source, 116B4:36–38, 40; 116B5:55
 - carbonates, 208A1:5
 - composite depths, 108A8:572
 - Cornaglia Terrace, 107A9:609
 - De Marchi Seamount, 107B38:643, 659
 - depositional history, 108A9:629
 - depths and age ranges, 157B20:352–353, 355
 - lithology, 107A8:422; 130A6:186; 133A(1)16:686; 135A(1)8:355; 149A6:158; 149B45:690–691; 150A7:135–140; 8:219, 318; 150B11:203, 205, 209–210; 154A5:157; 7:283, 285; 8:342–343; 9:421–422; 157A10:511–514; 172A4:84–92; 182A1:17, 19–20; 4:11–12; 5:7–8; 8:6–7; 11:4; 12:4–5
 - location, 154A9:428–430
 - magnetic properties, 126A5:84
 - manganese content, 115B36:672–673
 - Marsili Basin, 107A6:145
 - Meteor Rise, 114B2:29
 - Miocene, 150B11:220–221
 - Miocene–Pleistocene interval, 133B27:379–445
 - pelagic deposition, 108A2:74
 - photograph, 129B6:156; 150A9:266–267; 10:319; 154A4:70; 6:239; 157A10:512; 172A4:89; 182A4:51; 8:40; 11:22
 - provenance, 157B20:343–360; 27:459–460, 462–463
 - redeposition, 154A9:426–427
 - Sardinian margin, 107B12:179; 38:651
 - sedimentation rates, 108A10:750
 - seismic units, 108A8:573
 - Sierra Leone Rise, 108A12:837–838
 - silty clay, 150B11:195–199
 - Site 709, 115A7:465
 - Site 710, 115A8:589, 595–596
 - stratigraphic distribution, 116B4:36–39, 40
 - synsedimentary structure, 107B38:665
 - total organic carbon, 108B21:379
 - vs. depth, 150A7:162
- slump faults. *See* faults, slump
- slump folds. *See* folds, slump
- slump scars
 - Atlantis II Fracture Zone, 118A3:48; 118B21:371
 - Broken Ridge, 121A4:81, 84
 - seismic reflection, 188B14:4, 9
- slump/slide unit, lithology, 160A8:220–222
- slump structures
 - carbonates, 151B24:419
 - Cenozoic, 151A13:411
 - lithology, 151A11:359–360
 - photograph, 149A6:160–161
 - sedimentary instability, 159B10:95
 - turbidites, 149B12:287
- slumped bedding. *See* bedding, slumped

slumping

Benue Trough, 159B10:99
Broken Ridge, 121B37:746
Cagayan Ridge, 124A12:305, 339
carbonate compensation depth, 192A5:7
carbonate slopes, 101B19:273
chalk, 133A(1)8:257
claystone, 159A6:188
compositional banding, 127/128B(2)75:1176
consolidation, 127/128B(2)71:1125
décollement structures, 159B3:29
deposition, 160A6:130–132; 161B7:95–96;
171B_A6:262
diamictite, 119B6:112, 132
dip, 159B3:8
dolomite, 201B13:8–9
Eocene, 159B11:106
evidence, 135A(1)5:201
extent and magnitude, 127A6:268
Exuma Sound, 101A1:7–8
faults, 127/128B(2)75:1176; 169B10:21–22
gas hydrates, 164B1:9
geochronology, 164B32:325–327
Indus Fan, 117A5:52
Japan Sea, 128A1:14
lithology, 129B6:155–156, 160–161; 133A(1)12:462;
16:686, 688; 151A7:170; 155A10:249; 11:281;
20:599; 157A8:403, 405–407; 161A5:118–120,
128; 7:309; 162A10:355–356; 164A8:246–249;
171B_A4:101, 116; 6:253, 256–257; 173A4:71–
74; 7:173; 8:234–236; 174A_A4:104–111;
177A4:8; 180A12:7; 197A4:9; 201A10:9–10;
204A3:9–10
Little Bahama Bank, 101A1:7–8
mass transport deposits, 174A_B(synthesis):8
New Hebrides island arc, 134B2:25–26, 29
Okushiri Ridge, 127A6:268
Oman margin, 117A5:58; 18:561, 563–565
opal-A/opal-CT transition, 127A6:268
orientation, 134A12:419–420; 13:508–519;
134B24:433–434, 436–437
Owen Ridge, 117B10:215
periplatform environment, 133A(1)10:357, 359
photograph, 151A7:170; 155A16:469; 20:600;
157A7:335; 161A7:322; 162A3:66; 166A10:302;
169A3:60; 171B_A3:56; 4:114–115; 6:252–253;
173A4:76; 174A_A4:112; 5:160; 180A9:87;
192A5:39; 197A4:42
Prydz Bay, 119A8:301; 12:468–469
reconstruction, 161A7:322
sandstone, 159A5:101
sedimentary interval, 166A10:304–305
seismic profiling, 101B19:266; 117A5:55; 16:517–518
seismic reflectors, 131A2:18; 171B_A6:294
shear, 159B2:22
Site 721, 117A3:39
Site 798, 127/128B(2)75:1175
Site 799, 127/128B(2)75:1175–1176, 1189;
128A5:259, 355
soft sediments, 161A4:80–81
Straits of Florida, 101A1:8

structural data, 160A4:63; 6:136
submarine slumps, 129B5:146
Sulu Sea, 124A11:277
surface patterns, 174A_A4:143–144
tephra layer, 121B14:2776
tilting, 159B1:9
transform faults, 159A9:302
volcanic ash, 128A4:153–154; 5:285; 130B25:429
volcaniclastics, 157B14:215–216
volcanism, 157A2:24; 157B9:110
well logs, 157A9:466
See also debris flows; microslumps
slumping, synsedimentary, lithology, 192A4:8
slumps
lithology, 178A7:5–6; 184A4:9; 9:11; 189A3:12;
198A9:11; 207A5:8
magnetostratigraphy, 207A7:19
photograph, 194A9:30; 198A9:48
sedimentation, 188A1:10–11
sediments, 207A4:7–10
upper Miocene, 207B1:10–11
slurries, contamination, 201A11:101
smear slides
blue tuff, 127/128B(1)8:119
coring, 180A6:119–120
dark-light cycles, 127/128B(1)33:584–588
diagenetic origin, 127/128B(2)78:1238
diamict, 178A9:16–17
distribution, 200B4:20–25
glacial-interglacial variation, 127/128B(1)33:588
Japan Sea sediments, 127/128B(2)78:1235–1244
Japanese Islands, 127/128B(1)33:595
lithology, 160A12:427; 175A3:56; 4:89, 91; 178A4:9;
188A3:16–17; 4:14–15; 5:12; 195A4:14; 5:7–8
photomicrograph, 164A5:75
sandstone cement, 127/128B(1)9:135
sediments, 169S_A2:24; 177A3:22; 205A4:21–22;
5:14–15
Site 797, 127/128B(1)33:592
Site 798, 127/128B(1)24:411, 416, 418
Site 907, 162A7:239; 4:1163–1165
Site 963, 160A19:951
Site 964, 160A19:953–954
Site 965, 160A19:955
Site 966, 160A19:957–959
Site 967, 160A19:960–964
Site 968, 160A19:965–966
Site 969, 160A19:967
Site 970, 160A19:969–970
Site 971, 160A19:971–972
Site 974, 161A4:949–952
Site 975, 161A5:953–956
Site 976, 161A6:957–962
Site 977, 161A7:964–973
Site 978, 161A9:974–979
Site 979, 161A9:980–987
Site 1003, 166A6:831–834
Site 1004, 166A7:835
Site 1005, 166A8:836–837
Site 1006, 166A9:838–841
Site 1007, 166A10:842–843

- Site 1008, 166A11:844
 Site 1009, 166A11:845–846
 Site 1039, 170A3:54
 Site 1040, 170A4:105
 Site 1041, 170A5:160
 Site 1042, 170A6:196
 Site 1043, 170A7:222
 Sites 980–981, 162A4:1147–1148
 volcanic glass alteration, 127/128B(2)87:1375
 volcanoclastics, 136B7:86–87
 vs. depth, 160A5:96; 8:228; 9:297; 10:342; 11:385;
 202A3:25; 206A3:123
 vs. illite, 127/128B(2)78:1245
 vs. magnesium, 127/128B(2)78:1250
smectite
 abundance, 104B2:32–34; 107A6:142; 110B6:88–89,
 92–94; 111A3:125; 113A6:194–195; 113B5:54;
 156B1:14; 160B19:241–242
 alteration, 121A10:275; 13:472; 124A10:190–191;
 11:196–197; 129B19:362, 367; 135A(1)10:517;
 11:596–597; 136B11:134–135; 147A3:68–70;
 148A2:45–53; 148B12:172–173; 163A4:41–42;
 169A3:81–82; 176A1:16; 3:138; 176A3:139, 141;
 176B1:4–5; 6:3–7; 183A6:52; 183B15:6–9;
 185A3:25–26, 29–31; 187A3:7–8; 5:4; 6:5–6;
 7:5–8; 9:5–7; 11:10; 187B1:7–8; 192A4:17
 aluminum-iron-magnesium diagrams, 161B2:32
 amphibolite gneiss, 179A4:9
 authigenic minerals, 149B31:531–532
 autochthonous vs. allochthonous origin, 105B6:79
 basalts, 102B3:35; 4:50; 169A5:213; 6:271; 192A6:17
 bentonitic claystones, 123B4:99
 botryoidal overgrowths, 106/109A6:168
 breccia, 193A4:41–44
 Cagayan Ridge, 124A12:309–311, 330; 30:402–403;
 36:492
 carbon/oxygen ratio, 164B21:205–206
 cataclastic deformation, 147A3:74–76
 cation exchange capacity, 111B12:141
 celadonites, 104B20:406–408
 Celebes Sea, 124A10:137–139, 175, 183; 13:356, 377;
 36:491
 cements, 105B10:154
 Cenomanian/Turonian boundary event (CTBE),
 103B35:591
 cerium deficiency, 125B7:128–130
 change to illite, 162A9:310, 362
 chemical composition, 124B36:498; 129B17:334–337;
 156B1:21, 25; 176B1:10
 chemically weathered volcanics, 119B10:198
 clasts, 173A9:284
 clay, 110B7:99, 104–107; 180B17:20; 190/196B6:7–14
 climatic variation, 119B10:202
 color variation, 129B17:323
 composition, 110B6:96; 7:96, 104–109; 129B5:142
 contourite facies, 105B6:80
 Costa Rica Rift, 111A3:124
 Cretaceous, 103B35:597–598; 123A4:99
 Cretaceous/Tertiary boundary, 165A8:394
 crystallinity, 125B7:129; 175A3:56–57
 dating, 110B6:88–89, 92–94; 113A5:99; 6:197; 8:344;
 10:539; 11:623; 113B5:55, 57, 59, 61–63
 dehydration, 156B25:317; 190A1:8; 190/196B5:6–7;
 204B13:7–8
 deltaic sediments, 152B9:119
 derivation, 123B1:47
 dewatering, 110B13:201
 diabases, 129B18:346
 diagenesis, 101B11:174; 107B15:242; 150X_B4:53–54;
 180A9:42; 180B6:19
 dolostone origin, 107B10:147
 drift deposits, 178B8:7–16
 dust, 130B28:474–477, 480–485, 489–490
 electron microprobe data, 148B8:107
 electron microscopy, 160B34:443–444
 Eocene, 104B3:51, 53; 150B9:156, 158
 fault planes, 180A6:41
 flood basalts, 163B2:25–26
 folds, 107B19:315
 Formation MicroScanner imagery, 160B47:619
 gamma ray logs, 102B3:44
 geochemistry, 105B7:95; 107B11:160; 19:314;
 158B20:280–281; 169B6:5–6, 14, 17;
 171B_A6:287; 193B8:5
 glacial-interglacial cycles, 107A6:142–144; 178B8:10–
 12
 grain size distribution, 162B17:239–240
 green clay, 184B15:4
 hemipelagic mud, 131B2:22, 24–29
 high-resolution image, 147B13:246
 Holocene, 104B3:51
 honeycomb textures, 123B4:108–109
 hydrothermal alteration, 157B26:436; 179A4:43–44;
 179B(synthesis):8; 192A1:19–21, 25–26; 3:31–
 32; 209A5:15
 igneous provinces, 192B1:6
 illitization, 123B2:68; 41:785, 789
 interlayer cation composition, 156B10:140–141;
 176B1:11
 interlayer water, 129B16:299
 iowaite, 125B17:315
 iron/aluminum and titanium/aluminum, 105B7:97
 Izu-Bonin forearc, 126B6:102
 Kerguelen sediment ridge, 119B13:244
 lava, 121B32:629
 light absorption spectroscopy, 199A5:5–6, 18; 8:19;
 9:13, 45; 10:19, 62; 11:29, 118–120; 12:30, 121–
 123; 13:26, 88–89; 14:21–22, 63; 15:14, 54
 lining fractures, 118B27:546
 lithology, 104A4:74, 75; 129B14:269; 134B5:83–84;
 149A5:120, 222; 152A6:60–62; 11:202;
 160A9:295; 160B34:438; 162A8:263; 9:298;
 165A4:142, 144; 5:244; 6:297, 299; 7:347;
 169A4:167–168; 171A_A4:45; 175A3:56–57;
 4:91; 5:119; 6:152; 7:179; 8:206; 9:233; 177A5:7;
 180A10:5–6; 12:10, 22; 180B6:8–16; 184A7:9;
 187A3:5–6; 189A5:17–19, 71; 190A4:9; 5:9;
 192A1:16; 210A3:30, 33
 low density, 171A_B3:6
 low-temperature alteration, 105B12:181; 176A3:37;
 192B6:4–5

- lower sill complex, 210A3:69
 lowermost samples, 105B8:105–106
 Marsili Basin, 107B19:312, 319
 matrix, 160B46:599
 metamorphic minerals, 153B31:536
 microfabrics, 185B9:7
 mineralogy, 105B8:104; 107B20:323–324; 129B3:117;
 152B34:420–422
 mineralogy-porosity inversion, 156B16:224–225
 Miocene, 104B3:51, 53, 55
 mixed minerals, 182B14:3
 morphological types, 107B19:314; 126B6:105
 mudstone, 190/196B6:8–9, 25
 nannofossil clay, 184B14:2
 negative illite correlation, 119B10:194, 199
 nontronites, 105B8:104
 normalized formula, 161B2:30–31
 Norwegian Sea, 104A4:93–94, 98, 101; 104B2:29–31;
 3:42, 55; 24:440–442
 nucleation sites, 129B17:307
 occurrence, 102B3:45, 46
 oceanic crust, 102B3:44
 octahedral cation total, 176B1:12
 Oligocene, 104B3:51, 53
 Oman margin S, 117B8:193
 origin, 101B11:173; 104A4:103, 105; 105B7:96–97;
 8:104; 107B20:325; 125B7:124, 128;
 160B45:586–587
 Owen Ridge, 117B8:187
 oxygen isotopes, 107A6:143–144
 Pacific Ocean W, 124B31:412–414, 423–425, 427–428
 paleoclimatology, 184B19:7; 22:3–4; 189A1:34–35
 paleoenvironment, 189A3:15–17
 Paleogene climate indicator, 113B53:951
 peak development, 119B10:199
 peak intensities, 155A9:212; 10:255; 11:287
 peak-resolution data, 105B6:79
 Pearson correlation coefficients, 152B4:43–46
 permeability, 102B3:43
 petrography, 129B17:307–308
 petrology, 158B18:240–241
 photograph, 150X_B4:57; 153A4:154, 156–157;
 6:243; 158A8:162, 199; 165A6:328, 346;
 176A3:146; 179A4:147–149; 183A6:100;
 187A1:40; 8:39; 192A3:116; 5:78, 94; 198A9:67
 photomicrograph, 157B12:149; 169A6:271;
 173A9:283; 176B9:66; 185A1:47; 3:117; 4:107;
 187A1:32, 37, 39; 3:15; 5:12; 6:16, 23; 7:18, 25–
 26; 8:35; 9:18; 11:21, 25, 32; 13:35; 187B5:16–
 17; 191A4:107–108; 192A1:54; 3:115–116, 128;
 4:57, 76–77, 95; 5:77, 79–81, 85, 88, 93;
 198A9:65
 Pigafetta Basin, 129B2:80
 pillow basalt, 187A4:3
 plasticity and water content, 119B8:150
 Pleistocene, 104B3:55
 pole projections, 131B4:50
 pore water, 165A8:396–398
 porosity, 110B7:99, 104, 106–107; 164B41:434
 principal component analysis, 104B2:34–37
 provenance, 105B7:95; 117B8:183, 185, 192–193;
 9:198, 202; 118B7:147; 123A4:99–100; 7:151;
 160B19:238
 Prydz Bay, 119B6:86
 pyroclastic sequences, 124B13:187–188
 recrystallization, 110B13:201–202
 reflectance, 184B22:9; 199A5:13; 199B11:9
 relative abundance, 168B5:60; 190/196B6:5
 resistivity logs, 171A_A3:29
 sand, 168B5:55–56
 Sardinian margin, 107B11:159, 161, 165–166
 scanning electron microscopy, 110B16:255
 seamounts, 195B1:6
 seawater reactions with basement, 165B19:294
 secondary minerals, 148A3:141; 206B8:2–3
 secondary production, 126B6:105
 sedimentary regimes, 195B3:9
 sedimentation, 161B2:29–31
 sediments, 129B14:274; 131B26:317–318; 28:347–
 348; 31:391–392; 150X_B4:50, 53; 152B4:44–48;
 155A6:104; 7:137; 8:185; 155B9:179–191;
 156A7:206–213, 216–217, 220; 161B2:24;
 162B17:237; 167B25:282–284; 174A_B(synthe-
 sis):8–9; 175B11:3–4; 178A4:22; 177B13:1–10;
 181B1:26–27; 3:5–6, 20–21; 184B19:5;
 188B13:11–12; 190/196B7:10; 195A1:22;
 204B7:4–5; 11:4–8; 205A4:22; 5:19
 silica and formation, 125B7:129
 siliciclastics, 133B30:462–470
 sill zoning, 210A3:67
 Site 699, 114B37:688–689, 698
 Site 722, 117A9:282
 Site 747, 120A6:135
 Site 748, 120A7:174, 224
 Site 749, 120A8:268
 Site 750, 120A9:321–323
 Site 765, 123B9:192
 Site 780, 125B7:119
 Site 792, 126A8:242
 Site 793, 126A22:338, 340; 126B27:417
 Site 801, 129B2:36; 14:273
 slope-apron facies, 190/196B4:5–6
 spectroscopy, 206B12:1–13
 structural formula, 104B3:43
 sulfides, 169A3:71, 76
 Sulu Sea, 124A11:217–218, 235, 255, 261–262, 269;
 124B13:183–186; 36:492
 swelling and thermal destruction, 105B8:105–106
 tektites, 150B13:247–248, 252
 temperature, 113A5:98
 tephra, 205A4:23
 terrigenous component, 105B10:146–147;
 175B23:10–11; 189B11:4–5
 textures, 131B4:49
 thermal diagenesis, 159B6:57–63
 thermodynamic parameters, 126B34:521
 transition to illite, 131B28:351–352
 transmission electron microscopy, 113B18:231–232,
 235; 129B1:29–30
 tuffs, 129B4:127
 turbidites, 108B18:320; 168A4:57–59; 5:111–112

- types, 190/196B6:6–7
 Tyrrhenian Sea, 107B19:321
 upper Eocene, 189B1:11
 veins, 136B10:124; 148B17:255; 18:269–270, 273–274; 156A7:225; 163A3:28; 169A5:216–217; 176A3:44; 176B9:6–7, 14; 192A5:17; 6:19; 200A4:39–40
 vesicles, 135A(1)5:229
 visible and near-infrared spectroscopy, 199B11:18
 volcanic ash, 124B14:211; 131A6:173–184; 131B14:176–177; 165A3:82
 volcanoclastics, 123B4:108; 134B9:133–144
 volcanogenic origin, 123B1:17
 vs. age, 167B18:232; 175B23:37; 178B8:27; 181B3:10; 184B19:18; 189B11:9–12; 131A6:118; 131B28:348; 136B5:69; 140A2:66; 150A8:220; 152B4:42; 156A6:102–103, 105–114; 156B1:15–16, 20–21; 23:299; 160B18:221, 223; 161B2:29; 164B21:207–208; 167B25:284; 168A5:113; 169B6:14–17; 178B(synthesis):38; 8:23–24, 26; 181B1:100; 184A5:40; 6:31; 7:44; 9:60; 184B14:5–6; 188B13:34; 189A3:77; 6:22–25, 88; 7:69; 190/196B4:22–23; 5:16, 18; 6:20–22; 192A3:122; 199A1:58; 8:39; 9:30; 10:43; 11:69; 12:75; 13:60; 14:45; 15:35; 199B24:15; 204B7:12–14; 11:13–16; 205A5:63; 206B12:12–13
 vs. oxygen isotopes, 119B10:199–200
 vs. Pliocene–Holocene illite, 119B13:249
 water depth, 113A5:99
 weathering, 120B(1)8:103–104; 188B13:15
 X-ray diffraction data, 104B20:399; 106/109A4:73; 6:170; 125B7:117–120; 129B1:12–15; 156A3:35; 156B16:222; 159A5:77; 6:168; 7:228; 159B15:145, 147; 168B10:123; 175A10:281–282; 185A4:92; 186A4:88; 188A5:12–13; 190/196B4:20; 5:6; 198B16:5; 200A4:38–39, 116, 119–120; 202A11:45; 208A6:51; 210A3:237
 X-ray fluorescence data, 161A6:238
See also clay; ferrismectite; hectorite; illite-smectite-chlorite; kaolinite/(kaolinite + smectite) ratio; nontronite; saponite; spherules; veins
 smectite, amorphous, lithology, 105B12:174
 smectite, authigenic
 lithology, 101B11:177; 105B10:145–146; 11:162
 origin, 105B12:180
 smectite, brown
 alteration, 192A7:9
 brown halos, 192A6:18
 normal gray basalt, 192A6:19
 photograph, 192A7:41
 photomicrograph, 192A4:89–90, 92, 96; 6:71, 79; 7:30, 39–40, 42–44
 smectite, cryptocrystalline, glassy rims, 168B10:126, 134
 smectite, detrital, ternary diagrams, 168B5:62–63
 smectite, dioctahedral, formation, 105B7:92; 123B4:108
 smectite, glauconitic, neof ormation, 159B43:599
 smectite, green, Ninetyeast Ridge, 121A15:52
 smectite, magnesium-rich
 glassy rims, 168B10:126
 hydrothermal alteration, 169A6:259
 massive sulfides, 169A6:270
 scanning electron microscopy, 129B1:28; 4:134
 smectite, opaque, lithology, 107B19:311
 smectite, predicted, vs. depth, 206A3:158
 smectite, secondary
 Sulu Sea, 124B14:215
 vs. depth, 176A3:135
 smectite, transparent, lithology, 107B19:315
 smectite, trioctahedral, diagenesis, 105B7:96
 smectite, vein-forming, X-ray diffraction data, 176A3:144, 163, 163
 smectite, zoned, photomicrograph, 192A4:87–88
 smectite-chlorite mixed minerals
 alteration, 137/140B14:157; 147A3:68–69; 168A4:72
 composition, 180B17:6
 deformation, 147B13:241
 electron microprobe data, 137/140B18:210–211
 geochemistry, 169B6:7; 206B7:2–3
 geothermometry, 137/140B15:178–179
 green clay, 184B15:4, 14
 mineral chemistry, 129B17:321; 152B34:420–422
 petrology, 158B18:240–241
 photograph, 158B18:247
 secondary minerals, 137/140B15:172–173, 180–181; 148B6:77, 82
 sediments, 155B9:191
 siliciclastics, 133B30:462–470
 stable isotopes, 147B13:246
 veins, 148B18:269–270; 34:426
 vs. depth, 169B6:15, 17
 See also alietite; corrensite; mixed-layer clay minerals
 smectite/chlorite ratio
 chemical composition, 137/140B13:149; 176B1:10
 hydrothermal alteration, 209A10:14–17
 photomicrograph, 209A7:66, 68; 10:91
 smectite/(illite + chlorite) ratio
 paleoclimatology, 184B19:7
 reflectance, 184B22:9
 sediments, 184B19:5
 vs. age, 184B19:18
 vs. depth, 175A3:65; 4:91; 5:119
 smectite-illite mixed minerals
 detrital sediments, 123B2:64
 diagenesis, 123B2:66–68
 homogenization, 131B28:350–351
 lithology, 150X_B2:16
 origin, 123B41:785
 photograph, 150X_B4:57
 sediments, 131B28:347–348; 143B12:177, 179–180; 150X_B4:50, 53–54, 60–63; 156B1:10, 22
 siliciclastics, 133B30:462–470
 Site 765, 123B2:58–59, 73–74
 Site 766, 123B41:780
 structural formulas, 123B2:67
 turbidites, 168A5:112
 vs. depth, 156B1:22
 X-ray diffraction data, 172B5:21
 See also clay mineralogy
 smectite/illite ratio, normalized formula, 161B2:31
 smectite/kaolinite ratio
 Cenozoic, 133B30:469

- sediments, 160B19:235, 242–244
smectite/palygorskite ratio
 chemical vs. physical weathering, 117B8:187–188
 Indus Fan, 117B8:186
smectite province, continental shelf, 178B8:8–9
smectite/quartz ratio, vs. depth, 184B14:7
smectite/saponite mixture, basalts, 191A4:33–35
smectite spherules. *See* spherules, smectite
smokers. *See* black smokers
smooth horizon “B”
 acoustic basement, 165A4:133
 See also rough horizon “B”
snails, buccinid, hydrothermal fields, 158A1:9
snowball texture. *See* textures, snowball
snowstone
 photograph, 194A7:61
 See also dolostone
SOBO. *See* Son of Bermuda Oblique Seismic Experiment
sodalite
 photomicrograph, 180B8:42
 volcaniclastics, 180B8:8
 See also hauyne
sodium
 alteration, 186B14:9; 187B5:9; 193A3:69; 193B1:19
 amphiboles, 176B4:11; 180B3:8–9
 basalts, 195A4:22–23
 basement, 126B28:434, 437; 185A4:29–30
 boninites, 125B38:637, 641
 brine aquifers, 207A8:28–29
 calcic amphibole veins, 147B10:194
 calcium carbonate, 115B35:655
 carbon dioxide reduction zone, 188A3:46
 chemical gradient, 119B18:359
 clay mineralogy, 169B6:79
 clinopyroxenes, 176B10:12
 comparison with sodium/chloride ratio, 189A6:104
 depletion in pore water, 129B14:270
 diabases, 180B1:4–5
 equivalent fraction, 168B7:87–94
 evaporites, 160A8:247, 249; 9:311; 10:366–367
 expulsion, 166B17:190–191
 fluid flow, 166A9:254; 168A5:137–138
 gabbros, 176B8:3–4
 geochemical indicators, 151A13:412
 geochemistry, 166B17:194
 glass inclusions, 126B11:173, 175
 hydrothermal component, 169A6:281; 199B15:3
 interlayer cation composition, 156B10:140–141
 lava flows, 197A3:21
 mantle, 158B17:225; 187A1:13–14
 mass balance, 169A3:98
 metasedimentary rocks, 152B10:135
 mineral chemistry, 153B12:271; 179B2:10–12
 mobility, 183B15:9–10
 obsidian, 152B7:87
 orthopyroxenes, 176B10:14
 Pacific Ocean W, 124B31:414–416
 pillow basalts, 187A4:7
 pore water, 116B13:146, 151; 119B18:372; 19:380;
 50:929–931; 129A4:207; 129B14:269–275;
 131A6:163, 165; 131B31:389–390;
 133A(1)8:266–267; 16:708; 134A7:112–114;
 8:156–157; 10:279; 11:347; 12:416; 13:506–507;
 135A(1)9:432; 135B42:680–688; 150A10:330–
 331; 151A7:182; 8:239–240; 9:285–286; 10:332–
 333; 11:366–367; 155A6:106; 7:141; 8:192;
 9:217; 10:260; 11:296; 12:349; 13:399; 14:424;
 15:452; 16:478; 17:521; 18:558; 19:584; 20:612;
 22:675; 156A6:149–150; 157A7:356–358; 8:417;
 9:458–459; 10:523; 160A7:186–187; 11:391–
 392; 14:485; 161A6:235; 7:321; 9:405;
 162A3:76, 81; 4:116; 5:157–158; 6:193; 7:247;
 8:275; 9:310; 164A5:89; 8:264–265; 165A3:73–
 74; 5:259; 6:317; 166A6:91, 93; 7:161; 9:251;
 10:312–316; 167B32:343; 168A5:135–136;
 169A3:113–117; 5:218; 6:274–281; 170A3:73;
 4:131, 133; 5:173; 6:203; 7:235; 171B_A3:77;
 4:143; 6:285–287; 7:334; 173A4:90; 175A3:73;
 4:101; 5:130; 6:165; 7:190; 8:214; 9:257; 10:297;
 11:326; 12:370–371; 13:410; 14:445; 15:473;
 177A3:12; 6:13; 8:16; 180A5:31; 6:54, 58; 7:21;
 9:39; 12:37; 181A3:23; 4:18; 5:21; 6:28; 7:40;
 8:30; 182A1:18, 24, 27, 32, 35; 7:20, 22; 9:19–
 21; 12:20; 184B13:4; 186A5:26; 186B14:5–6;
 188A4:30; 5:24; 189A3:42–43, 161; 4:20, 60;
 5:46, 158; 6:50–51, 166; 7:43–44, 140;
 190A4:17; 5:22, 70; 6:16; 7:12–13, 15; 8:16, 44;
 193B4:4; 194A9:17; 195A3:30–33; 4:34–36;
 195B9:3–4; 198A8:21; 9:30; 199A9:10; 13:21;
 14:18; 15:12; 202A4:14; 5:12; 6:13; 7:17; 8:23;
 9:18; 10:17; 11:14–15; 12:15; 13:13; 204A8:13;
 205A4:46; 5:29; 6:15; 206A3:37–38; 208A3:20;
 4:18; 5:14; 6:22; 7:21; 8:22
 porphyroclasts, 180B3:9
 secondary minerals, 180B3:7–8
 sediments, 130A7:250; 131B31:391–392; 149A4:100;
 151A7:181; 152B2:20, 23; 156A7:232–234;
 157A4:78; 166A11:364; 166B14:147–151;
 17:186–188; 167A(1)4:74; 5:104; 6:143–144;
 8:193; 9:230; 10:260; 11:295; 12:328; 13:368;
 14:405; 15:447; 16:473; 169B10:19; 169S_B1:40;
 186A1:13; 4:39; 192B4:1–6; 195A4:36;
 206A3:42; 208A5:16
 shipboard vs. laboratory results, 125B9:149
 shipboard vs. shore-based digestion, 206B3:14
 shore-based flux vs. shore-based microwave acid di-
 gestion, 206B3:12–13
 siliceous rocks, 198B17:29
 Site 779, 125A7:126–127
 Site 780, 125A8:159
 Site 784, 125A12:284
 Site 792, 126A8:270
 strontium and periplatform sediments, 115B35:654
 sulfides, 158B2:37, 39; 3:45
 Sulu Sea, 124A11:264
 veins, 176B9:34–35
 vertical distribution gradient, 119B18:363, 367;
 19:380–381, 385, 388, 391
 volcanics, 131A6:172; 180A9:43; 183B17:2; 185A4:29
 volcaniclastics, 126B31:470
 vs. aluminum, 153B12:271

- vs. chloride, 150X_B25:350; 160A8:254; 9:313;
161A8:387, 161B33:427–429; 162A4:119; 5:162;
6:196; 169A6:279
- vs. chromium number, 149B21:394
- vs. depth, 126B34:520; 129A2:60; 3:125;
133A(1)16:711; 15:643; 134A7:113; 8:160;
9:207; 10:282; 12:422, 424; 13:506–507;
134B8:113, 117–118, 124–126; 135A(1)4:128;
5:220; 7:320; 8:369; 10:539; 11:629; 137A2:37;
137/140B13:145; 148B9:112; 150A7:172, 333;
150X_B24:334; 25:348; 152A8:102; 11:238;
12:272; 152B2:24; 25:299; 154A4:103; 5:184;
6:256; 7:305; 8:381; 155A7:149; 8:192; 9:219;
10:261; 11:296; 12:354; 13:402; 14:426; 15:456;
16:481; 17:528; 18:558; 19:585; 20:615, 651;
22:677; 156A6:149; 7:240; 156B13:179, 181;
157A7:365; 8:419; 9:460; 10:526; 160A5:114;
7:190; 8:254; 9:314; 10:367; 11:393–395;
12:437; 14:486; 161A4:93; 5:153; 6:260; 7:333;
8:387; 9:412; 161B33:425–427; 162A3:80–81;
4:119; 5:162; 6:196; 7:248; 8:281; 9:318; 10:374;
164A8:271; 165A3:74; 5:259; 7:372; 166A6:94;
7:163; 8:189; 9:253; 10:314; 11:363;
166B14:152; 17:181–185, 189–190; 168A4:83;
5:144; 6:181; 169A3:116–117; 4:177; 5:220;
6:276–278, 280, 282; 171B_A4:147; 5:217;
6:296; 7:341; 171B_B4:8; 175A3:79; 4:107;
5:134; 6:170; 7:192; 8:216; 9:260; 10:300;
11:331; 12:371; 13:416; 14:450; 15:479;
177A3:33; 5:51; 6:43; 7:34; 8:50; 9:41;
180A5:83; 6:163; 9:115; 12:119; 181A3:54; 4:40;
5:46; 6:73; 7:93–94; 8:75; 9:49; 182A4:64; 6:68;
7:48; 9:42; 12:44; 185A4:116; 186A4:129; 5:74;
186B14:18–19; 188A3:126; 4:78; 5:66;
189A3:92; 4:37; 5:91; 6:104; 7:83; 190A4:64;
5:70; 6:46; 7:38; 8:44; 194A9:44; 195A1:55;
3:114; 4:133; 195B2:25; 9:7; 10:5; 198A3:33–34,
93; 4:25; 5:27; 6:24; 7:23, 53; 8:50; 199B15:5;
204A3:60; 4:62; 5:29; 6:40; 7:37; 8:49; 9:47;
10:53; 205A4:144; 5:82; 206A3:147; 206B3:15;
207A4:57; 5:67; 6:66; 7:62; 8:58; 208A3:57;
4:58; 5:48; 6:67; 7:57; 8:56
- vs. iron, 130B1:16
- vs. magnesium, 137A2:43; 137/140B13:146, 151;
148B9:112; 185A4:118
- vs. magnesium number, 153B31:538; 179B2:38
- vs. porosity, 166B17:192
- vs. silicon, 157B12:166
- vs. titanium, 149B21:394; 153B12:270
- vs. volcanic ash, 177B(synthesis):47
- vs. zirconium, 197A3:94
- See also barium/sodium ratio; calcium/(calcium + so-
dium) ratio; calcium-sodium-potassium system;
calcium/sodium ratio; cesium/sodium ratio; po-
tassium/(calcium + sodium) ratio; potassium/so-
dium ratio
- sodium, dissolved
 - pore water, 201B11:2–3
 - vs. depth, 201B11:9–14
- sodium, normalized, vs. depth, 166A6:95
- sodium/aluminum ratio
 - Site 794, 127/128B(2)78:1249
 - Site 795, 127/128B(1)39:683
 - Site 798, 127/128B(1)39:682
- sodium atomic emission, vs. charge balance, 134A7:114
- sodium bromide, borehole spike, 148A2:56–57
- sodium/(calcium + sodium) ratio, vs. aluminum/(silicon
+ aluminum) ratio, 153B31:544–545
- sodium carbonate, radiolarian ooze, 199A6:1–21
- sodium carbonate digestion, 199A6:11–12
- sodium charge balance, vs. atomic emission, 134A7:114
- sodium chloride. See chloride
- sodium/chloride ratio
 - brines, 207A6:32
 - fluid flow, 166A9:254
 - interlayer cation composition, 156B10:140
 - pore water, 127/128B(2)79:1274; 131A6:167;
131B14:181–183; 31:392; 150X_B25:348;
152B25:299–300; 161A8:378, 161B33:425;
162A7:247; 9:310; 166A8:190–192; 169A5:218,
278; 170A4:131, 133; 5:173; 6:203; 7:235;
195A3:30–33; 205A5:29; 207A5:30
 - salts, 164A5:89–90; 8:266
 - seawater-peridotite interaction, 195B4:6
 - sediments, 152A11:236; 169S_B1:40
 - vs. calcium, 152B25:298
 - vs. chloride, 164A5:93
 - vs. depth, 133A(1)16:711; 152A11:239; 12:272;
152B25:300; 156A6:149; 7:240; 156B25:313;
160A14:486; 160B44:572; 162A7:248; 9:318;
164A8:273; 166A9:253; 166B17:191; 168A4:83;
5:145; 6:182; 169A3:115, 117; 4:177; 5:220;
6:280, 282; 169S_A2:55, 58; 170A3:79; 4:133;
5:176; 6:207; 7:237; 182A4:32, 66; 6:66; 7:20–
22, 48, 53; 9:20–21, 42; 10:55; 12:44;
189A6:104; 190A7:38; 195A1:45; 3:114;
195B10:5; 205A4:144; 206A3:147; 207A6:68;
8:60
 - vs. sodium, 189A6:104
- sodium chloride-water system, 147B11:223–224
- sodium/ferric iron ratio, sediments, 152B2:20
- sodium-montmorillonite mixed minerals
 - Site 765, 123B4:99–100
 - X-ray diffraction data, 156A3:34
- sodium number
 - igneous rocks, 176B3:3–5
 - vs. calcium number, 176B3:8
 - vs. depth, 176B3:9
 - vs. magnesium number, 176B3:8
 - vs. scandium, 176B3:11
 - vs. titanium oxide, 176B3:10
 - vs. vanadium/scandium ratio, 176B3:10
- sodium oxide
 - AFM diagram, 153B10:210
 - Albian–Turonian interval, 210B8:7
 - alteration, 121B32:615; 168B10:128; 183A7:153;
193A3:69, 71; 4:47–48; 200A3:31–32
 - amphiboles, 118B3:56
 - apatite, 176B9:13
 - Atlantis Bank, 118B6:135

- basalts, 118B4:86–87; 121B29:567; 123A4:204;
163X_A8:9–11; 169A3:95; 187A6:10–11; 10:5–6;
11:12–13; 13:14; 15:11; 195A4:22–23; 195B8:8;
196A3:32, 96
- basement, 183A6:47; 7:132; 8:18; 9:27
- clay minerals, 169B6:6, 23
- clinopyroxene, 153B10:231–236
- dacite lava, 193B2:8
- diabases, 118B26:478; 153B10:223; 168A5:123;
180A6:36; 209A7:23
- electron microprobe data, 148B14:210
- experimental liquids, 152B30:366
- fine-grained sediments, 210B8:14
- gabbros, 118B26:478; 153B17:337–338; 28:495;
170A3:78; 176B6:18; 8:4–1; 205A4:34; 209A6:30
- garnet-biotite gneiss, 183A5:37
- glass shards, 186B9:6
- granites, 161A6:216
- igneous rocks, 176A1:17–18
- Labrador Sea, 105B8:103–104
- lava flows, 197A3:21; 5:16; 6:14
- liquid composition, 153B10:235
- lithology, 183A7:39
- mafic and ultramafic rocks, 153B10:184–185, 187
- mantle sources, 209A1:81
- melting, 153B10:231–234; 187B1:14–15
- metadiabase, 180A8:18
- mineral separates, 158B2:29; 7:94
- natrolite, 176B9:13
- olivines, 187B2:5
- percent change from protolith, 137/140B17:203
- peridotites, 209A7:22
- phenocrysts, 163X_A5:6
- pillow basalts, 187A5:7
- profiles across microbially processed glass,
148B13:200
- quartz gabbros, 180A11:6
- sediments, 151A7:184; 8:243; 9:287; 10:333–334;
11:367–368; 155A11:297; 167B25:284–288;
172B5:22; 180B6:5, 9–10, 15; 184B19:6;
205A4:24
- sills, 210A3:68
- sinks, 126B34:521–522
- Site 792, 126A8:266
- solar radiation seasonal variations, 117A1:7–8
- standard deviation, 186B9:20
- sulfides and sediments, 158B3:43
- tektites, 150B13:248–250, 253–258
- tephra, 186B9:16–17
- thomsonite, 176B9:13
- volcanics, 125B8:136; 200B2:13; 201B19:10–11;
203B2:4–8
- vs. age, 184B19:19
- vs. alteration, 137/140B6:70; 148B4:49
- vs. aluminum oxide, 157B12:165; 15:236–239;
158B19:263; 180B6:14–18, 36, 41; 210B8:27
- vs. calcium oxide, 157B12:150; 15:240–245
- vs. chromium number, 153B11:260
- vs. depth, 148A2:60, 62; 3:157; 148B2:14; 4:48;
10:136; 34:422; 39:484; 151B19:358;
152B34:423; 167B25:285; 169A3:97; 170A4:140;
176B6:43; 180A6:131; 180B6:34; 183A8:65;
9:92; 193A3:223; 4:191, 193; 195A4:110;
197A1:40; 200B1:26; 2:13; 205A4:84, 114; 5:59;
206A1:82; 3:152, 195; 210B8:49
- vs. iron oxide, 153B10:184–185, 188
- vs. iron oxide/magnesium oxide ratio, 153B10:218,
235; 180A12:95
- vs. latitude, 158B17:220
- vs. loss on ignition, 136B11:140; 148B10:139;
169A3:98
- vs. magnesium number, 118B3:51, 65; 137/
140B11:126; 148A2:59; 3:151; 153A4:147;
5:194; 6:239; 153B5:95; 10:218; 11:254; 13:279;
17:339; 163X_A8:29; 168A4:71; 5:125, 139;
176B10:39, 41; 179B(synthesis):85; 183A8:64
- vs. magnesium oxide, 121A12:401; 135B24:405;
25:442–444, 29:523; 137/140B4:45; 148B3:23,
30–31, 34–35; 153B19:366; 157B16:282–283;
22:384; 158B17:224; 163B9:102, 106; 183A9:94;
187A3:24; 4:17; 5:17; 6:36; 7:33; 8:51; 9:21;
10:24; 11:35; 12:41; 13:41; 14:28; 15:42;
187B2:20; 197A1:73; 5:68; 6:70; 200B2:10;
206A1:88; 3:199; 209A7:97
- vs. potassium oxide, 148B3:30
- vs. silica, 134A10:278; 134B19:384; 136B4:60;
151A5:81; 151B19:357; 152B2:23; 7:88–89;
156B28:350; 157A7:362; 157B13:192; 186B9:26;
201B19:27, 29
- vs. strontium, 148B5:66; 205A4:119
- vs. strontium isotopes, 148B10:144
- vs. titanium oxide, 125B38:641, 644; 148B3:30;
10:138
- vs. total iron, 152B27:321–322
- vs. water content, 125B8:137; 158B19:264
- vs. wollastonite, 137/140B15:169
- vs. zirconium, 123A9:195; 134A11:346; 12:417;
157B12:168, 171
- websterite, 153B16:323
- X-ray fluorescence data, 152B35:426
- See also calcium oxide/(calcium oxide + sodium ox-
ide) ratio; calcium oxide/sodium oxide ratio;
calcium oxide-sodium oxide system
- sodium oxide, fractionation-corrected, vs. fractionation-
corrected iron oxide, 187B1:37
- sodium oxide/aluminum oxide ratio
- mud, 155A12:350
- sediments, 155A7:141; 16:478
- vs. depth, 131B35:441; 155A7:150; 185A4:123
- sodium oxide/iron oxide ratio
- vs. depth, 152B2:25
- vs. potassium oxide/calcium oxide ratio, 152B2:26
- sodium oxide/magnesium oxide ratio, 126B27:423
- sodium oxide/potassium oxide ratio
- Mariana forearc, 125B24:406
- vs. potassium oxide-sodium oxide, 161B12:152
- vs. silica, 152B2:26
- volcanic ash, 165A3:82
- sodium oxide-potassium oxide series
- alkalis-iron-magnesium diagram, 205B9:24
- vs. biostratigraphic age, 157B18:325
- vs. depth, 157B15:251

- vs. silica, 145B23:370; 44:664; 151A5:80; 157B18:323;
22:385; 25:426; 162B16:223; 165A3:84;
178B22:17; 183A1:58, 71, 80, 88, 98; 4:56;
5:117; 6:132; 7:39, 130; 8:63; 9:91; 183B1:41;
15:5, 13; 9:39; 192A1:39, 45; 3:108; 193A6:24;
193B2:20; 195A4:111; 197A1:38, 63, 72, 84;
3:93-94, 142; 4:67; 5:67; 6:69; 197B1:37;
201B19:25-26, 28; 203A3:49; 203B2:14;
205B9:23; 210A3:69, 252
- vs. sodium oxide/potassium oxide ratio, 161B12:152
- sodium oxide/(silica + 14.15) ratio, 167B25:289
- sodium oxide/silica ratio, volcanic ash, 125B15:288
- sodium oxide/titanium oxide ratio, Site 786, 125B9:151
- sodium polytungstate, heavy minerals, 150X_B7:75-79
- sodium-potassium system
- amphiboles, 153B5:97
 - vs. aluminum, 147B15:304; 149B26:463; 32:544;
153B13:390, 394; 176B4:11, 20, 37, 41
 - vs. calcium-magnesium system, 134B8:127
 - vs. chlorine, 137/140B14:160
 - vs. silica, 209B4:18
 - vs. silicon, 157B12:166
- sodium-rich rims, photomicrograph, 195A4:106
- sodium/strontium ratio, pore water, 150X_B25:348
- sodium/titanium ratio, vs. aluminum/titanium ratio,
137/140B5:56
- soft-sediment deformation
- Albian, 159B2:17
 - Australian margin NE, 133A(1)15:622
 - carbonate compensation depth, 192A5:6-7
 - clastic sediments, 157B17:297
 - Cretaceous, 159B10:98
 - deposition, 178A9:8-9
 - environment, 204A7:7
 - Kerguelen Plateau-Prydz Bay region, 119A11:411-412
 - lithofacies, 150B11:205-206
 - lithology, 134A12:405; 135A(1)10:510-512;
155A10:247; 17:508-509; 20:599; 157A8:405;
9:443-444; 10:507; 161A4:59-64; 164A5:75, 77-
78, 94-96; 8:246-249; 171B_A4:112; 173A4:86;
174A_A5:158-160; 177A4:7; 178A9:7;
180A12:6, 9, 12, 15-18, 28-30; 181A4:4-5;
182A1:39; 8:6-7; 12:4-5; 183A3:4-5; 188A3:11-
12; 4:13; 190A9:7; 195A3:11-12; 204A4:6; 9:6-
7; 11:4-7; 210A3:24-25, 29-30, 33-34, 43, 45
 - mass transport deposits, 150B11:195-210
 - massive sulfides, 169A3:64
 - ooze, 133A(1)10:351
 - photograph, 150A8:216; 150B11:211; 155A6:98;
10:250-251; 157A8:406; 9:446; 157B17:312;
159A7:241; 159B2:21; 161A5:145; 8:367, 373;
169A3:58-62; 171B_A4:115; 5:185, 187;
173A4:87; 7:172; 177A4:35-37; 180A9:87;
182A4:51; 8:40; 11:22; 184A9:57; 194A9:30;
198A9:48; 201A11:46; 210A3:135-138, 156,
170, 205, 216, 219
 - sandstone, 159A5:101; 6:187-188
 - sediments, 159A7:240-241; 159B2:16
 - seismic reflectors, 171B_A6:294
 - structural domains, 149A4:83-88; 180A9:30-31
 - structure, 159A8:281
 - transform faults, 159A9:302
 - volcaniclastics, 135A(1)11:593
 - vs. depth, 177A4:33
 - X-ray imaging, 210B6:5
 - See also* sedimentary structures
- soggy phone-book texture. *See* textures, soggy phone-
book
- soil mechanics, sediments, 131B21:267
- soils
- basement, 197A5:10-11
 - clasts, 158B18:243-244
 - formed during interglacials, 127/128B(1)23:403
 - photograph, 134A11:334; 152A9:129, 132;
152B9:127-128; 197A1:78; 5:40, 44
 - volcaniclastics, 152B9:121-124
 - See also* pedogenesis; Plinthic Acrothox; terra rosa;
Torvane soil-test data
- solar radiation
- evolution, 184A1:4-7
 - paleoclimatology, 169S_A2:15
- sole marks, lithology, 180A12:8
- solid residues, smear slides, 199A6:17
- solid solution
- carbonate veins, 156B5:85-87
 - melts, 176B8:8-9
 - metamorphism, 161B18:257-258
 - mineral chemistry, 129B17:314
 - photomicrograph, 195A4:90
- solidification. *See* crystallization
- solubility
- dissolution, 166B9:106
 - opal-A, 178A8:14
 - sulfur, 135B36:610-611
- solution cavities
- diagenesis, 160B33:425, 427
 - photomicrograph, 160B37:475
- solution features
- packstone, 133A(1)5:148
 - Site 750, 120A9:291
- solution porosity. *See* porosity, solution
- solution seams
- photograph, 166A10:303; 182A10:42; 189A7:64
 - sedimentary interval, 166A10:305
 - See also* pressure solution seams
- Son of Bermuda Oblique Seismic Experiment,
102A3:151-152
- sonar, side-scan, surveys, 155A18:540; 169A6:257
- sonar imagery
- site surveys, 136A3:30
 - tectonics, 135B23:373-382
 - See also* IZANAGI acoustic side-scan sonar
- sonar surveys. *See* television/sonar systems
- sonic caliper logs
- summary, 131A6:234
 - vs. depth, 131A6:238
- sonic core monitor (SCM), Site 799, 128A5:253, 255
- sonic induction tool, methods, 102A3:103
- sonic logs
- gabbros, 179A4:64
 - lithology, 123B33:603-604
 - logged intervals vs. interval slowness, 129B29:516

- sediments, 129B29:512–513
- seismic layers, 148B25:346
- Site 735, 176A3:89
- Site 747, 120A6:138–139
- Site 750, 120A9:325
- Site 765, 123A4:218, 222; 123B34:633–634
- Site 766, 123A5:334
- Site 792, 126A8:289
- Site 793, 126A9:389
- seismic-log correlation, 174A_A4:138–141; 5:184–187
- short spacing vs. long spacing, 171B_A4:168; 6:312
- vertical seismic profiling, 123B32:589–591, 600; 34:634–635
- vs. depth, 168A6:198
- See also* acoustic anisotropy; gamma ray-density-porosity logs; resistivity-sonic-gamma ray logs; velocity logs
- sonic logs, multichannel (MCS)
 - analysis, 102B4:54–57
 - Atlantis Bank, 118B14:264, 266
 - data, 102B4:50, 52–54; 11:159, 161, 168, 177
 - digital waveforms, 118A6:213; 9:180–182
 - fracture zones, 118A9:206
 - operations, 118A6:178, 180–182
 - semblance velocity logs, 118A9:181–182; 118B28:555–556
 - tools, 102A3:95, 97, 103, 106, 113–115, 149; 102B11:162
 - vs. compressional and shear velocity, 118A6:181, 184
 - vs. long-spaced sonic (LSS) tools, 118A6:178, 181
- sonic tools, digital, 120B(2)49:907
- sonic tools, seismic properties, 152B38:455–456
- sonic traveltime logs, 181A3:66; 7:106, 111; 8:83
- sonic velocity
 - vs. depth, 151A6:141
 - See also* compressional wave velocity; velocity
- sonic velocity logs
 - igneous rocks, 209A10:40
 - lithology, 200A4:53
 - measurements, 193A3:94; 4:61
 - reprocessing, 190/196B16:1–15
 - sediments, 190A4:32–33, 83–84
 - vs. depth, 151A7:206; 8:259; 9:303; 156A6:163; 180A8:101–102; 182A4:75–76; 5:55; 6:79; 7:61; 8:62–63; 9:53; 10:63; 12:51; 201A11:84; 202A10:63; 12:67
 - See also* acoustic logs; velocity; velocity logs
- sonic velocity tool
 - schematic diagram, 178B19:19
 - transmitter/receiver spacing, 178B19:31
- sonic waveforms, well-logging, 149A6:200
- sonic waves. *See* monopole sonic waveforms
- sonobuoy seismic recording
 - calculated vs. observed values, 119B2:29–30
 - curved refraction arrivals, 119A8:292; 11:398, 400
 - deployment sites, 119B2:28
 - equipment and parameters, 119A3:107
 - exact normal moveout, 123B34:628–631
 - noise levels, 119A10:378
 - operations, 123A4:75–76
 - procedures, 119A3:45–46
 - ray-trace model, 119B2:28–43
 - refraction arrivals, 119A10:378–379
 - secondary reflections, 119A10:378
 - Site 736, 119A5:125–126
 - Site 737, 119A8:160–162
 - Site 738, 119A12:230–233
 - Site 739, 119A8:291–294
 - Site 740, 119A9:347–348
 - Site 741, 119A10:378–380
 - Site 742, 119A11:398–430
 - Site 745, 119A14:506–509
 - Site 765, 123A2:17, 20, 23, 25
 - Site 766, 123A2:20, 23–24
 - Sites 739 and 742 correlation, 119B2:31
 - t-p* analyses, 123B34:626
 - top-down modeling, 119B2:29–30, 33
 - vertical seismic profiling, 123B34:634–635
 - wide-angle reflections, 119A11:398
 - X-T* to *t-p* mapping, 123B34:626–628
- soot. *See* black soot
- soritids
 - microbioclastic matrix, 133B21:292–293, 297–298
 - photomicrograph, 194A7:76
 - Pleistocene, 133B26:371–374
 - Site 821, 133B21:292–293, 297–298; 26:371–374
- Sorolian coccolith stage, biohorizons, 167B1:23
- sorting
 - Cagayan Ridge, 124A12:306
 - glauconite sand, 120B(1)9:117
 - lithology, 134B5:80
 - mudstone, 178A9:7–8
 - reflectance, 178B21:3
 - sedimentation, 178A9:9
 - sediments, 135B7:110; 157B16:274; 178B12:21–22, 27–28, 33–34
 - volcanic ash, 120B(1)10:138
 - vs. age, 167B18:230; 178B12, 14:10; 25:18
 - vs. depth, 149B12:289; 161B7:90–92; 183A5:86
- sorting, current, lithology, 188A3:14
- sorting coefficient
 - vs. depth, 168B6:69, 73–84
 - volcanic ash, 151B17:315
- sorting index, vs. depth, 133B13:176
- sorting mean, vs. graphic mean of clastics, 157B17:303
- sound velocimeters, digital, 144A4:138
- soupy texture. *See* textures, soupy
- source areas
 - hyaloclastite tuffs, 157B12:166–168
 - kerogen, 157B35:599–601
 - volcaniclastics, 157B13:194–195
- source beds, palynomorphs, 188B2:10–11
- source rocks
 - geochemistry, 159A5:108; 6:192; 7:243; 8:284
 - hydrocarbons, 151A7:187–189; 12:388, 395
 - oil seeps, 135B41:675
- source signals, seismic models, 178A7:22
- sources, mantle, 152B41:522–528
- South African Goldmine Euryarchaetal group, 201B2:4
- Southern Oscillation. *See* El Niño–Southern Oscillation
- spalling
 - boreholes, 135B18:287

- drilling, 129B5:140, 145
- spar. *See* microspar; sparite
- spar cement. *See* calcite spar cement; cements, spar sparite
- lithology, 164A8:246–247
- mid-Cretaceous, 207B2:7
- photograph, 173A9:274
- photomicrograph, 160B33:425–426; 164A8:255; 198B16:22
- See also* biosparite; oo-oncosparite; oopelsparite; oo-sparite; peloosparite; pelsparite
- sparite cement. *See* cements, sparite
- sparite/micrite boundary, geometry, 173A8:238
- spathite, vs. depth, 113B6:75
- Spearman rank-order correlation coefficients, 134B33:588
- speciation rates
 - planktonic foraminifers, 130B10:152; 154B1:12
 - See also* pseudospeciation
- species diversity
 - diatoms, 172B8:6
 - nannoflora, 164B33:339
 - planktonic foraminifers, 130B10:143–149; 161B15:200, 206; 164B34:351, 353
 - vs. depth, 161B15:200, 206
- species turnover rates, planktonic foraminifers, 130B12:235, 241
- specific conductance, vs. depth, 150X_B24:335
- specific storage
 - clasts, 195A3:44
 - Manheim squeezer, 195A6:1–15
- specific surface
 - vs. depth, 165B10:186
 - vs. insoluble residue, 165B10:186
- SPECMAP logs
 - correlation, 172A7:318
 - Labrador Sea, 105B34:656
 - vs. depth, 172A6:303
- SPECMAP timescale
 - correlation, 150A7:162, 230–231
 - oxygen isotopes vs. age, 182B15:10
 - vs. depth, 150A7:162; 150B7:117
 - See also* timescales
- spectra, horizontal component, frequency, 203A1:24
- spectra, vertical component, frequency, 203A1:23
- spectra plots, grain size, 178B24:15
- spectral analysis
 - benthic foraminifers, 175B19:19
 - carbonates, 154B19:289
 - color, 188A3:52–53
 - cyclostratigraphy, 129B30:529–547; 154B5:102; 18:274; 22:344
 - discrete Fourier transform, 114B29:555–556, 562
 - light absorption spectroscopy, 199A5:20
 - lithology, 129B30:534
 - Lomb-Scargle periodogram, 114B29:556–564
 - magnetic susceptibility, 130A11:545–547
 - maximum entropy estimation, 114B29:560–563
 - Oligocene/Miocene boundary, 154B36:522
 - physical properties, 154B7:140–142; 178B32:6
 - power spectra, 154B7:138; 12:196
 - sedimentation rates, 129B30:543
 - seismic studies, 164A4:45; 179A5:22
 - short-term data, 114B30:579–580
 - techniques, 114A10:555–564
 - vs. depth, 179B1:15
 - Walsh transform, 114B29:556, 562
 - See also* Blackman-Tukey spectral analysis; cross-spectral analysis
- spectral cyclicity
 - gamma ray logs, 129B30:538–539
 - vs. Formation MicroScanner imagery, 129B30:539–540
- spectral data, shore-based, sediments, 164B31:313–324
- spectral gamma ray data, 134A11:360; 152A9:128
- spectral modeling, reflectors, 164B27:268–269
- Spectrex laser particle counter, 190/196B8:3–7, 21–22
- spectrograms
 - broadband seismometers, 200B5:3–4, 14–19
 - three-dimensional, 129B30:535–537
- spectrometry
 - magnetism, 158B25:345
 - plasma–emission inductively coupled, 152B26:307–311
 - plasma–mass, inductively coupled, 152B26:307–311
- spectrophotometry
 - brightness, 188B13:9–11
 - diffuse reflectance, 188B7:7–12
- spectroscopy. *See* calibration; light absorption spectroscopy
- spectroscopy, Fourier transform infrared (FTIR), 125B8:131, 135–136
- spectroscopy, light absorption
 - instrumentation, 199A5:12
 - lithology, 199A8:57
 - mineralogy, 199A5:1–20
- spectroscopy, nuclear magnetic resonance, 164B2:17–18
- spectroscopy, Raman, 164B2:18, 20
- spectroscopy, reflectance, 199B11:1–23
- spectroscopy, visible and near-infrared
 - basalts, 206A3:90
 - hydration indicator, 206B12:1–13
 - sediments, 206A3:49; 206B1:5
- speleothems. *See* spathite
- spessartine, garnet composition, 161B19:268
- Sphaerocarpaceae, sporomorphs, 183B3:7
- sphaerosiderite
 - lithology, 174AXS_A5:42
 - sediments, 174AXS_A4:49–50; 6:47–48, 86–90
 - See also* microsphaerosiderite
- Sphagnaceae, sporomorphs, 183B3:7
- sphalerite
 - alteration, 111A3:63; 147A3:71
 - composition, 158B28:395; 193B1:6; 3:18
 - electron microprobe data, 106/109B13:171
 - gabbros, 176B7:5–7
 - geochemistry, 158B1:13; 169A3:100–101
 - hydrothermal circulation, 169A1:11
 - hydrothermal fields, 158A1:7; 158B1:9–13, 21; 15:194; 27:368–369; 28:394–395
 - igneous rocks, 209B3:5
 - lead isotopes, 158B8:105–108

- lithology, 169A4:167–168; 193A4:15–41; 194A8:7–9
magnetic separates, 106/109A5:155
mineralization, 158A8:144
oxide-rich ferrogabbros, 118A6:125
petrography, 193A3:57
photograph, 158A7:74, 115, 123; 8:147–151; 10:181, 189;
11:214; 158B15:197–199; 169A3:69–72, 76, 81, 100
photomicrograph, 169B5:17–19; 193A1:73; 4:152–
157, 163
Snake Pit hydrothermal area, 106/109A5:149
stratigraphy, 158A8:142–144
sulfides, 106/109B12:155, 161–162; 13:170–171;
169A3:59–67, 71, 76; 169B5:5–6; 9:4–9, 16;
10:13–14; 193A4:36, 39–40; 193B1:22–23; 10:5–
7
veins, 153B30:524; 169A3:76; 193B3:3
vs. depth, 169B5:15; 193A4:117
X-ray diffraction data, 106/109A5:150–154
- sphalerite, heterogenous, composition, 169A3:68–69
sphalerite, subhedral iron-rich, 193A3:181
sphalerite, zoned, photomicrograph, 193A4:164
sphalerite disease, photomicrograph, 193A4:157
sphalerite-pyrrhotite-pyrite-magnetite system,
169A3:69–71
- sphene. *See* titanite
- sphenoliths
abundance, 113B37:621–623; 130B11:189–196;
160B8:103
biogeography, 183B4:17
preservation, 135B17:276
Site 799, 128A5:307, 309
“*Sphenolithus* problem,” biostratigraphy, 195A4:25
- spherasters, Site 795, 127/128B(1)30:543
- spheres, photomicrograph, 185A4:83
- spherically focused resistivity logs (SFL)
methods, 102A3:95, 97, 109, 113; 133B46:687–694
vs. depth, 151A6:149; 171B_A5:234; 6:313; 183A8:92;
200A1:56; 4:147; 201A9:58; 10:62; 202A9:68;
10:63; 12:67; 204A3:94; 4:93; 9:71; 10:86; 11:50
vs. Formation MicroScanner imagery, 202A12:72
vs. neutron lithodensity porosity, 180B25:110
vs. photoelectric effect logs, 180B25:110
See also Schlumberger logs
- spherically focused shallow resistivity logs,
174A_A4:144–149; 5:184
- sphericity, pebbles, 178B11:5, 14
- spheroids
bacterial habitation, 193A3:225
photomicrograph, 173A9:288; 193A3:131–132
- spherules
impact deposits, 177B4:1–9
interpillow material, 185A3:25
lithology, 171B_A3:53–54; 174AX_A1:26;
174AXS_A1:21–22; 207A6:7; 7:8
photograph, 171B_A3:56; 6:252; 207A7:45
photomicrograph, 129B3:100–104
- spherules, calcite, photomicrograph, 192A6:80
- spherules, glass
Cretaceous/Tertiary boundary, 174AXS_A(summary):12–13
shocked minerals, 174AXS_A(summary):33
- spherules, goyazite, 121B25:491–492
- spherules, kaolinite, 121B25:490
- spherules, smectite, 121B25:491–492
- spherulites
alteration, 187A1:9–10; 7:7–8; 13:8; 192A4:18; 5:64
basalts, 192A5:12–13; 6:16–17; 7:7–8
groundmass, 106/109A8:216
gypsum, 107B13:206
lava, 152B33:412
lithology, 187A3:5–6; 10:3; 13:3–7; 14:3–4; 193A3:23–
24; 4:20; 200A3:10; 209A7:4
macroscopic description, 192A7:7
petrography, 168B10:120–121; 200A4:30–36
petrology, 187A1:7
photograph, 187A1:34; 8:17; 10:8, 17; 12:20, 29; 14:9;
15:18; 192A5:40, 44–49; 7:26–28; 193A4:136
photomicrograph, 187A4:9; 5:12; 6:22; 12:35; 13:16,
31; 192A5:77; 6:80; 7:29; 193A3:113, 147, 164;
4:106–109; 193B8:13; 195A4:84, 89, 107;
200A3:98; 4:106–108
pillow basalts, 187A4:3
upper alteration zone, 192A5:16
See also calcite spherules; celadonite spheres; lithoph-
ysae; microspherulites; rosettes/spherulites
- spherulites, “bowtie” plagioclase, 200A3:87
- spherulitic bands, basement units, 183A6:23, 36
- spherulitic textures. *See* textures, spherulitic
- spherulitic zone, alteration, 187A10:3
- spicules
calcareous sand, 133A(1)7:208
lithology, 152A6:57–62
Miocene, 133A(1)10:354
photograph, 205A4:77
photomicrograph, 198A3:74; 205A4:78
tunicates, 133B28:447–453
vs. depth, 161A9:399
See also Pyuridae; sponge spicules
- spiculite, clayey, lithology, 171B_A5:181–183
- spider diagrams, basaltic glass, 135B52:839–840
- spillover
turbidites, 155B4:60, 245
See also overspills
- spinel facies
diabases, 153B19:375
melting, 153B10:234–235; 173A7:215
- spinel grains
clasts, 180B8:6
lithology, 180B6:9
volcaniclastic sand, 180B7:6
- spinel harzburgite. *See* harzburgites, spinel
- spinel inclusions. *See* inclusions, spinel
- spinel lherzolites
partial melting, 158B17:220–225, 228–229
photograph, 153A3:60
sources, 152B28:344
spreading centers, 209B1:5–6
- spinel microphenocrysts. *See* microphenocrysts, spinel
- spinel phenocrysts. *See* phenocrysts, spinel
- spinel shape, dunites and harzburgites, 209A9:52–53

spinel

alteration, 147A4:132–133; 147B6:113; 148B12:173;
173A7:192–193; 193A3:50; 6:6; 209A8:3
aluminum, 106/109B4:38
backscattered electron image, 147B8:160; 9:186
basalts, 115B10:107; 135B32:559–562; 195B8:6–7, 16
chemical composition, 103B16:242–243; 17:256–257;
106/109B3:20–21; 4:31–36; 5:50; 8:90–91, 95;
125B27:464; 127/128B(2)51:840–842;
134B16:344–347; 135B27:490–491; 149B10:461;
153B11:259; 157B22:381, 392–394
chromium-aluminum-magnesium-iron, 147B6:119,
124; 209B4:14
chromium/aluminum ratio, 107B3:45
chromium number, 153B12:273; 14:299; 209B4:4, 6
chromium number vs. magnesium number,
153B13:281; 14:299; 16:325
clasts, 173A9:283–284
color, 106/109A8:210
composition, 147B14:263; 163B11:129–130;
209B4:19, 21
crystal chemical model, 127/128B(2)51:840–841
crystal-plastic fabric, 153A3:95
crystallization, 111A3:59; 135B34:585–594
deformation, 209B1:12–15
diabases, 140A2:152; 153B10:227
distribution, 118A6:122–123
dunites, 209A3:7
electron microprobe data, 106/109B4:30; 148B8:105;
149B32:552; 195B8:24; 209B2:1–13
fabric, 209A6:22
foliation, 153B2:30; 209A3:1320–1333; 5:32; 6:19
Galicia margin W, 103B16:247
harzburgites, 147B16:117; 153B12:267–269; 209A3:6;
7:14–15
hydrothermal alteration, 209B4:3–4
igneous rocks, 127/128B(2)51:840
iron, 106/109B4:36, 38–39
iron/(iron + magnesium) ratio vs. chromium/(chromium + aluminum) ratio, 153B29:516
lithology, 123B10:207–208; 209A5:5; 6:3–10; 7:5–6;
9:3–7; 10:7–10; 210A4:7
mafic and ultramafic rocks, 153B10:184–185, 189
magmatic oxygen fugacity, 127/128B(2)51:842–844
magnesium, 106/109B3:21, 25; 4:38
magnesium number, 127/128B(2)51:840–842;
153B11:260; 12:272
major oxides, 149B21:385
mantle sources, 209A1:81
marbles, 161B23:313–314
metagabbro clasts, 173A7:191
mid-ocean-ridge basalt, 187B2:4
mineral chemistry, 147B14:261; 152B33:407, 415;
161B19:272; 180B8:10; 200B3:7–8; 209B4:4–5
mineral-liquid disequilibrium, 127/128B(2)51:844
mineralization, 193B3:4
modal analyses, 147B6:110
occurrence log, 148A2:113; 3:186
ophiolites, 179A4:13
orthopyroxene, 209A3:7–8
oxygen isotopes, 153B26:466

peridotites, 125B27:455; 30:522; 149A4:79;
153A3:52–58; 153B14:298; 195A1:12; 195B1:10
petrography, 125B10:173; 137/140B3:36; 147A4:126;
193A3:55
phenocrysts, 140A2:54; 163X_A6:23
photograph, 147A3:69; 148A2:41; 149A4:80;
149B21:388, 417; 153A3:64; 153B11:248;
23:427; 30:527; 209A6:82, 92; 209B4:12
photomicrograph, 127/128B(2)51:847; 161A6:245;
173A7:192; 193A3:168, 190–193; 209A3:65–69,
78; 5:58, 68; 6:56–57, 81; 7:59; 9:42–43, 47–50,
55, 74; 209B1:27
placer sands, 157B12:149
plutonic rocks and ultramafics, 153B11:256–260
relict magmatic phase, 127/128B(2)51:838
secondary minerals, 168A5:128
serpentinized peridotites, 173A7:192–193
silicon, 106/109B4:40
Site 748, 120A7:222
size, 106/109B5:50, 52
sources, 118B26:447
texture, 209A9:5, 54
troctolites and gabbros, 147B14:267
Tyrrhenian Sea, 107B3:42, 43; 5:83
ultramafic rocks, 147B14:261; 149B21:381–382
vs. depth, 209B4:5, 20
zoning, 103B17:260–261, 266; 127/128B(2)51:840, 844
See also harzburgites; hercynite; jacobsite; ulvospinel

spinel, chrome
background alteration, 148A2:48
backscattered electron images, 163B11:121–124
color and size, 159B14:135
composition, 147B9:175; 148B11:153–154;
155B7:152, 166; 163B11:119–134
electron microprobe transects, 147B9:179–180
inclusions, 157B22:380
melt migration, 147B8:157–172
mineral chemistry, 147B7:142; 8:160–166; 9:174–179;
153B26:464–465; 29:511, 515; 159B14:134–135
origin of chromitite, 147B7:145
peridotites, 153B13:279–280
petrology, 147A4:114–122
photograph, 147B7:154–155; 8:171, 172; 159B15:139
provenance, 159B14:135
sandstone, 159B14:133–139
sediments, 147B27:452
serpentinites, 149B31:530, 532–534
troctolites, 147B6:123–124; 7:153
vs. depth, 147B4:78

spinel, magnesioferrite, composition, 145B28:430–432
spinel, red-brown, photomicrograph, 209A8:9
spinel, relict, photograph, 173A7:190
spinel, skeletal, composition, 115B10:105
spinel, subhedral, occurrence, 115B10:105
spinel, vermicular
photomicrograph, 209A5:70, 145; 6:69, 81
textures, 209A5:32
Spiniferites bejuii, sketch, 159B24:265
Spiniferites sp. G., sketch, 159B24:266

spiracles
basement, 183A6:45

photograph, 183A6:119–121
 spirasters, Site 795, 127/128B(1)30:543
 splice tie points
 Aptian–Albian interval, 171B_A3:78
 composite depths, 160A5:113; 7:189, 253, 366, 485;
 178B5:9–10, 30; 198B15:1, 21, 25
 composite section, 181A3:105; 4:70; 6:138; 7:171;
 8:129; 9:90; 207B14:27–29
 correlation, 186B8:23; 207B14:24–25
 data, 178A4:168; 5:91, 140–141; 7:110; 178B6:1–15
 depth corrections, 199B12:20
 mapping pairs, 198B15:18–19, 22–23, 26
 paleomagnetism, 154A9:431 178A5:106–118; 7:83–
 94, 95–102
 physical properties, 178A4:26–27
 Site 907, 162A7:234
 Site 925, 154A4:86
 Site 926, 154A5:179
 Site 927, 154A6:253
 Site 928, 154A7:300
 Site 929, 154A8:362
 Site 974, 161A4:83
 Site 975, 161A5:145
 Site 976, 161A6:222
 Site 980, 162A3:61
 Site 981, 162A3:61
 Site 982, 162A4:101
 Site 983, 162A5:149
 Site 984, 162A6:181
 Site 985, 162A8:263
 Site 987, 162A10:355
 Site 1010, 167A(1)4:76
 Site 1011, 167A(1)5:108
 Site 1012, 167A(1)6:145
 Site 1013, 167A(1)7:168
 Site 1014, 167A(1)8:202
 Site 1015, 167A(1)9:231
 Site 1016, 167A(1)10:262
 Site 1018, 167A(1)12:337
 Site 1019, 167A(1)13:368
 Site 1020, 167A(1)14:412
 Site 1021, 167A(1)15:453
 Site 1022, 167A(1)16:478
 Site 1051, 171B_A5:207
 Site 1052, 171B_A6:288
 Site 1053, 171B_A7:337
 Site 1063, 172A6:270
 Site 1089, 177A4:62; 177B9:22
 Site 1090, 177A5:66
 Site 1091, 177A6:56
 Site 1092, 177A7:44
 Site 1093, 177A8:72
 Site 1094, 177A9:54
 Site 1126, 182A4:94
 Site 1128, 182A6:98
 Site 1130, 182A8:83
 Site 1131, 182A9:65
 Site 1132, 182A11:39
 Site 1134, 182A12:66
 Site 1143, 184A4:6–7, 85
 Site 1144, 184A5:78

Site 1145, 184A6:52
 Site 1146, 184A7:78–79
 Site 1147, 184A8:34
 Site 1148, 184A9:92
 Site 1168, 189A3:153
 Site 1170, 189A5:149
 Site 1171, 189A6:158
 Site 1172, 189A7:133
 Site 1209, 198A5:90
 Site 1210, 198A6:78
 Site 1211, 198A7:73
 Site 1212, 198A8:72
 Site 1215, 199A8:49
 Site 1217, 199A10:53
 Site 1218, 199A11:104
 Site 1219, 199A12:109
 Site 1220, 199A13:78
 Site 1221, 199A14:55
 Site 1222, 199A15:47
 Site 1232, 202A3:39
 Site 1233, 202A4:4–5
 Site 1234, 202A5:48
 Site 1235, 202A6:56
 Site 1236, 202A7:4, 60
 Site 1237, 202A8:77
 Site 1238, 202A9:80
 Site 1239, 202A10:73
 Site 1240, 202A11:62
 Site 1241, 202A12:78
 Site 1242, 202A13:58
 Site 1257, 207A4:21, 96
 Site 1258, 207A5:22–23, 101
 Site 1259, 207A6:26, 95
 Site 1260, 207A7:23, 96
 Site 1261, 207A8:22, 88
 Site 1262, 208A3:63
 Site 1263, 208A4:72
 Site 1264, 208A5:57
 Site 1265, 208A6:90
 Site 1266, 208A7:65
 Site 1267, 208A8:63
 Sites 1054–1055, 172A3:49
 Sites 1056–1059, 172A4:106–107
 Sites 1060–1062, 172A5:191–192
 stable isotopes, 167B8:142
 stratigraphy, 175A3:76; 4:105; 5:133; 6:168; 7:191;
 8:214; 9:259; 10:296; 11:329; 12:369; 13:413;
 14:448; 15:476; 175B20:10
 summary, 172A3:52
 vs. depth, 177A4:41; 202A3:22; 5:4
Spiroclypeus facies, assemblages, 133B4:58, 60
 sponge spicules
 abundance, 113B54:964–965; 114B33:618, 621, 624,
 640–641, 643–646; 127/128B(1)20:344–349
 acanthostrongyles, 112B11:180
 accessory component, 188B4:10, 16
 amphioxes, 112B11:177
 amphistrongyles, 112B11:180
 amphityles, 112B11:177
 anatriaenes, 112B11:180

- biostratigraphy, 164A5:81–82; 175A13:404;
189A3:30–31; 4:14–15; 5:29–30; 6:35–36; 7:31–
32
- Cenozoic, 134B14:309
- classes, 112A20:895
- clusters, 112B11:176
- comparison with silica, 189A3:81
- continental rise, 152B13:191–199
- distribution, 177A3:55–56; 5:83–88; 6:67–72; 7:60–71;
8:88–92; 9:63–64; 188B6:23–24; 189A7:121–124
- Leg 127, 127/128B(1)16:292
- lithology, 162A4:106; 164A9:284; 165A4:142;
166A8:178; 10:295–296; 11:351–352;
167A(1)4:56; 6:132–135; 170A3:53; 4:103–104,
106; 6:195; 171A_A3:27; 171B_A3:51–54; 6:246;
7:323; 172A3:38; 4:91; 5:164–165, 168, 170–
174; 174A_A3:58; 175A4:89; 177A1:20–22;
178A7:6–10; 180B6:10; 7:9–10; 12:6, 14;
180B6:5–6, 8; 181A5:5–6; 182A1:10, 39; 4:5–6,
8–9, 11; 5:4–7; 6:6–7; 8:4–9; 9:5–8; 10:5–6; 11:3–
6; 12:4–7; 182B9:4–7; 184A5:8–9; 6:4; 7:6;
186A1:9; 4:18–19; 5:13; 189A4:7; 6:12–15;
192A3:6; 198A8:8; 201A11:8–10; 12:7–11;
202A6:6; 12:6–10; 204A3:4–8; 4:5–11; 11:4;
210A3:22–25
- low density, 171A_B3:6
- lower Miocene, 129B3:93
- Mascarene Plateau, 115A5:244
- megascleres, 112B11:176
- Miocene, 101B10:160–162; 160B33:42
- monaxons, 112B11:176
- occurrence, 177A4:71–79
- Oligocene, 101B10:161
- orthostyles, 112B11:180
- paleoecology, 101B10:162–163
- photograph, 171B_A5:188; 186A5:56; 202A13:39
- photomicrograph, 160B33:424; 173A8:233;
188A3:93; 210A3:133
- Pleistocene, 177A9:10
- pore water, 175A13:410
- Quaternary, 180B13:1–8
- relative abundance, 189A4:53; 5:136–139; 6:145–149
- sediment matrix, 112B11:176
- sediments, 175B11:4; 189A5:68–69
- silica, 154B33:485
- siliceous allochems, 149A5:125; 6:156; 7:221
- Site 685, 112B11:175–178
- Site 688, 112A20:898–899; 112B11:175–178, 180
- Site 698, 114B15:303
- Site 699, 114B15:303
- Site 700, 114B15:303
- Site 701, 114B15:303
- Site 702, 114B15:303
- Site 703, 114B15:303
- Site 717, 116A4:54; 116B21:247
- Site 730, 117A18:567
- Site 748, 120B(2)43:833–835
- Site 794, 127/128B(1)20:344
- Site 795, 127/128B(1)16:304; 20:345; 30:541–543
- Site 797, 127A7:343; 127/128B(1)16:303; 20:345
- Site 799, 128A5:260
- smear slides, 188A3:16–17; 4:14–15
- taxonomy, 112B11:178
- tetraxons, 112B11:176
- tripods, 112B11:180
- tylostrongyles, 112B11:177–178
- tylostyles, 112B11:177
- upper Quaternary, 155B21:369
- volcanic sand, 136B4:55
- vs. depth, 178B13:12; 186A4:82; 5:52; 189A3:81, 97;
6:75, 77–78; 7:61, 65; 189B9:18; 202A10:46;
11:38; 12:48; 13:38
- See also* Acanthostyles; Acanthoxeas; Acanth-
strongyles; *Calthrops*; diancistrans; discorhabds;
forceps; Isochelae; macroscleres; microscleres;
monaxons; oxea; oxyasters; *Rhaxella* sponge
spicules; spherasters; spicules; spirasters;
strongyles; Tetraxons
- sponge spicules, chaetiid, photograph, 173A8:238
- sponge vs. spicule classification, 101B10:159–160
- sponges
- amino acid composition, 136B35:537
- floatstone, 103B6:64–65, 69–71, 78–79; 8:107
- lithistids, 103B8:108, 110
- lithology, 191A4:11–12
- micropackstone, 103B6:64
- mudstone, 103B6:71; 8:107
- packstone, 103B6:71
- photograph, 167A(1)12:320
- Site 639, 103B6:82, 90; 11:191–192
- Site 799, 127/128B(1)2:35, 45
- See also* calcisponges; chaetetids; discorhabds;
oxyasters; *Sagarites?*; spherasters; spirasters; tet-
ractines
- sponges, calcareous, occurrence, 103B6:60
- spongodiscids, Site 795, 127/128B(1)30:542
- spontaneous potential logs, vs. depth, 200A1:56; 4:147
- sporangia, kerogen, 183B3:5–6
- spores
- abundance, 104B32:639, 668; 113B36:604;
155A6:108, 145
- age, 104B32:639; 113B29:452; 36:596–597; 189B3:6–7
- Antrim, 104B33:669
- Aptian–Albian interval, 129B11:226
- backscattered scanning electron microscopy, 127/
128B(1)31:554–556
- biostratigraphy, 129B11:222; 175A13:404; 189A3:32–
33; 7:34
- Cenozoic, 152B16:221–231
- Cretaceous, 103B23:419–428
- Cretaceous–Paleocene interval, 159B24:253–276
- depth and recovery, 159B25:283
- distribution, 103B23:420–423; 35:609–610;
129B11:225; 188B2:9–10; 3:5–8; 189A4:55;
5:141
- Faeroe Islands, 104B33:668
- formation and recycling, 127/128B(1)31:550–551
- Isle of Mull, 104B34:668–669
- lithology, 104A4:149
- London Basin, 104B33:670
- marine signal, 175B11:9
- Mesozoic, 188B3:11

- microfossils, 104A4:146; 104B33:664–665
- Neogene, 133B10:120; 178B28:1–22
- new taxa, 133B10:124–125
- photomicrograph, 133B10:125; 178B28:19–20
- pteridophytes, 133B9:110
- resting-spore laminae, 127/128B(1)31:549–551
- sediments, 164B5:52
- Site 641, 103B35:607, 610–612; 38:692
- Site 643, 104B32:632–633, 637
- Site 750, 120B(2)17:257
- Spitsbergen, 104B33:669
- taxonomic list, 113B36:601; 129B11:227; 178B28:6–7
- vegetation, 151B15:289–296
- vs. depth, 113B29:453; 151B15:295; 178B28:13
- See also Chaetoceros*; palynomorphs; pollen; Sporangia; sporomorphs
- spores, monolete, Site 720, 117B16:287
- spores, resting, diatoms, 151B29:485–488
- spores, trilete, Site 720, 117B16:286
- sporinite
 - coal, 180B10:10–11
 - dispersed organic matter, 180B10:10
 - organic matter, 164B5:55
 - photomicrograph, 180B10:30
 - Sites 798–799, 127/128B(1)38:670
- sporomorphs
 - photomicrograph, 183B3:33–37, 39
 - quantitative analysis, 183B3:26
 - zonation, 183B3:13, 26, 29
- spreading axis, Norwegian-Greenland Sea, 151A1:6–9
- spreading cells
 - bathymetry, 153A1:10–11
 - See also* seafloor spreading
- spreading centers
 - basalts, 192B1:5–7; 203B2:8–9
 - deformation, 190/196B1:3
 - geophysical surveys, 180A2:4–5
 - hydrothermal circulation, 158A1:5–14
 - hydrothermal roots, 147B10:207
 - hydrothermal systems, 147B10:189–212
 - massive sulfides, 169A1:7–16; 169B10:3
 - mid-ocean ridges, 153A1:5
 - tectonics, 170B7:1–10; 191A1:5
 - thermal history, 159B7:65–66
 - transform faults, 159A1:11
 - volcanism, 193A1:4–5
 - See also* seafloor spreading
- spreading centers, slow, rift valleys, 179A4:6–8
- spreading rates
 - igneous rocks, 209B1:30
 - mantle upwelling, 209A1:7–8
 - metamorphism, 147B10:202
 - paleomagnetism, 171B_A1:8–9
 - plate tectonics, 209B1:14–15
 - seafloor spreading, 152B41:512
 - See also* spreading ridges, slow
- spreading ridge propagation, crust, 147A1:13
- spreading ridges
 - crustal processes, 147A1:9–13
 - environment, 159B8:77
 - fractionation, 153B11:261–263
 - lower oceanic crust, 176B(synthesis):18–22, 25–26; 10:25–27
 - magma chambers, 176B(synthesis):4–6
 - shear zones, 176A1:5
 - structure, 176B(narrative):9–11
 - thermal pulses, 159B1:10
 - See also* seafloor spreading
- spreading ridges, slow
 - characteristic features, 118B21:361
 - crust, 209A1:6
 - lithology and transform edge effect, 118B21:360
 - ophiolite formation, 118B26:509
 - plutonic crust heterogeneity, 118B26:473
- spreiten
 - lithology, 155A13:388; 18:544; 171B_A6:256
 - photograph, 155A14:417; 15:443; 18:546; 160A4:68; 171B_A6:255; 178A5:55
 - See also* burrows
- spruce
 - vs. age, 167B20:242–243
 - vs. depth, 167B17:220–222
- spumellarians
 - opal replacement, 103B32:549
 - Quaternary, 134B14:315
 - vs. depth, 183B5:30; 199B24:15
 - Zone RP15, 199B24:7–8
- squalene derivatives
 - sediments, 172B1:2
 - Site 799, 127/128B(1)35:627, 632
- Sr-87/Sr-86. *See* strontium-87/strontium-86 ratio
- SSZ. *See* suprasubduction zones
- stable Cretaceous pole, paleolatitude, 171B_B9:13
- stable isotope excursions, Cenozoic, 208B1:1–55
- stable isotope stratigraphy
 - Oligocene, 199B17:3–4
 - Paleocene/Eocene Thermal Maximum, 208B1:12–13
 - sediments, 184B2:1–29; 3:1–8; 4:1–8; 5:1–12
- stable isotopes
 - alteration, 147B14:255–291; 148B5:57–69; 206B1:8
 - anhydrite and sulfides, 158B6:85–90
 - apatite, 129B7:176; 151B33:583–591
 - aragonite, 125A2:12; 4:75
 - authigenic carbonates, 164B29:289–294; 30:303–306
 - Baffin Bay, 105B30:563–564, 568
 - Bengal Fan, 116B5:51–54
 - benthic foraminifers, 130B24:411–421; 154B16:239–253; 19:288–297; 30:451–461; 165B17:262–263; 174AX_A1:41; 181B10:1–20; 189B9:4–5; 199B21:29; 202B4:1–69; 208A1:56, 58
 - biochronology, 160B13:167–180
 - biohorizons, 208B1:46
 - Brunhes/Matuyama boundary, 108B12:170
 - carbonate chimney, 125A1:12; 4:75, 77
 - carbonate crash, 206B4:5–6
 - carbonates, 107B10:145; 115B35:650–653; 154B14:209–210; 24:367–373; 160B35:448–450; 164B13:139–146; 165B17:254; 166A2:20; 166B13:142; 182B12:1–11; 15:1–13; 188B15:4–7; 207B7:1–9
 - Cenozoic, 207A1:64
 - Cibicidoides* spp., 130B15:276

- clay composition, 116B5:51–53
color bands, 130B27:454, 457–458, 460–462
cool-water bryozoans, 182B13:1–29
cool-water carbonates, 182B11:1–14
Cornaglia Terrace, 107B26:407
correlation, 108B11:164
Cretaceous/Paleocene boundary, 120B(2)54:962
diabases, 137/140B8:99–106
diagenesis, 150B17:313–328; 188B1:20; 192B2:1–15
diagenetic carbonate, 133B33:491; 150B10:175
early Oligocene glacial maximum, 208A1:61;
208B1:50
Eocene, 108B16:281
Eocene–Oligocene transition, 199A1:6
fine fraction, 199B17:3–4, 11–12
foraminifers, 105B9:127–129; 33:643–652; 34:63;
35:691; 115B31:592–593, 595–597; 130B16:282,
318–332; 18:326–332; 133B16:208–209;
151B28:469–482; 152B18:243–248; 154B18:271;
29:441–449; 159B40:542–547; 165B4:88–93;
178B20:1–10; 188B13:11; 198B12:1–19;
202B1:11, 19–24, 48–49; 207B6:1–23
Fourier spectrum, 130B23:407
gas ratios, 131B15:194
Gauss/Matuyama boundary, 114B23:415–419
glacial–interglacial cycles, 107B26:413
Incertae sedis forma A, 160B10:132
isotope stratigraphy, 155B16:281–303
Labrador Sea, 105B30:565–570; 35:690–691, 694
limestone, 130B14:259–268
long-term trends, 107B24:390–395
lower Oligocene, 182B14:4
lower Quaternary, 175B21:5–6
magnetic susceptibility, 175A22:563
mass transport deposits, 155B19:335–351
methane, 164B8:79–85
micas and chlorite composition, 116B5:51
mineral separates and veins, 147B14:276
Miocene, 105B35:691; 116B5:47
Miocene–Pleistocene interval, 116B5:47
Neogene interval, 177B(synthesis):3
Neoglacial, 178B34:7
occurrence, 127/128B(1)36:635–650
oceanic anoxic events, 207A1:62
Oligocene/Miocene boundary, 199B19:1–13
Oligocene–Miocene interval, 108B16:281–282
Oligocene paleoceanography, 199B17:1–12
ooze, 160B2:17–18
organic matter, 188B16:1–11; 201B4:5
oxygen isotope Oi-1 interval, 182B14:17
paleoceanography, 165B18:275–283; 167B7:129–150
Paleocene/Eocene boundary, 199B1:19
Paleocene–Eocene interval, 150X_B23:305–315
Paleocene/Eocene Thermal Maximum, 198B1:45;
198B8:4–32
paleoclimatology, 167B21:250
Paleogene, 198B1:40
pelagic sediment, 125B13:246–247
Pleistocene–Holocene interval, 116B5:47
Pliocene, 105B35:691; 107B26:409–411; 17:255–268;
108B11:165; 154B20:304–305; 21:319–330
Pliocene/Pleistocene boundary, 107B24:395–396
Pliocene–Pleistocene interval, 202B11:1–19
pore water, 107B10:145; 134B8:116; 164B12:129–137;
174A_B2:1–11; 195B7:1–12
Prydz Bay, 119A4:114–115
quartz, 116B5:51
regional variations, 125B13:258–259
remineralization, 155B30:502–503
sapropels, 160B2:35; 26:309–331; 161B38:491
Sardinian margin, 107B26:407; 27:423
scatter plots, 130B19:338–339
sedimentation, 130B44:715–716; 155B17:305–333
sediments, 130B15:274–275; 160B1:3–8, 13–15;
166A3:34; 175B18:8–10; 178B7:5–11; 205B1:21–
23
serpentine, 147B14:272–274, 277–278
sheeted dikes, 137/140B14:155–166
Sierra Leone Rise, 108B11:160–162; 16:279–286
Site 716, 115B30:580
Site 744, 119A4:114–115
Site 747, 120B(2)45:855, 859
Southern Ocean, 114B27:482
stratigraphy, 130B17:310–312, 337; 151B26:445–454;
171B_B5:1–14
stylolites, 130B26:446–448
subducting pelagic sections, 205B4:1–18
sulfate, 107B1:23; 160B29:365–373; 201B1:9–10
temperature of formation, 118B9:211
turbidites, 157B34:584–587
ultramafic rocks, 147B14:272–274, 277–278
upper Oligocene, 202B1:5
upper Pleistocene, 172B9:1–14
upper Quaternary, 175B12:1–22
veins, 136B11:139, 143; 149B33:557
vs. age, 152B18:247
vs. depth, 152B18:246; 208A1:60
vs. multisensor track data, 162B18:251–253
See also carbon isotopes; deuterium; deuterium/hy-
drogen ratio; hydrogen isotopes; isotope stratig-
raphy; nitrogen isotopes; oxygen isotopes;
strontium isotopes; sulfur isotopes
stable isotopes, high-resolution, 199B18:1–12
stable remanent magnetic vector (SRMV)
Atlantis Bank, 118B23:409–411
declination, 118B23:411–414
dikes, 137/140B23:266–269
stability zone
calcium carbonate, 168B8:95–103
gas hydrates, 164A9:317
stadials, aluminosilicates, 172B(overview):4
stadials/interstadials
aluminum oxide/titanium oxide, 172B(overview):4
potassium oxide/aluminum oxide, 172B(overview):4
stain bands
igneous units, 200A4:29
photomicrograph, 200A3:101
staining
microbial activity, 148B14:210–211
photograph, 192A3:55
See also color staining
standard deviation, grain size, 178B24:23

- standard materials, X-ray diffraction data, 156A3:30–33
 standard mean ocean water, 149B33:555
 standard reference materials, geochemistry, 158B19:275
 standpipe vibration, instruments, 191A5:16
 stanols
 sapropels, 160B21:266–267
 sediments, 175B5:8–9
 stanols/sterols ratio, sapropels, 160B21:267
 stanones, oceanic anoxic events, 198A9:29
 starting-plume head, igneous provinces, 192B1:3–4
 starting plumes, melting, 192B1:9
 statistical analysis
 geochemistry, 158B27:376–381
 grain size, 178B24:18–27
 planktonic foraminifers, 161B14:190–194
 well-logging, 159B16:157–170
 See also bivariate plots; Cantor dust method; correlation coefficients; Kleiner-Hartigan diagrams; Kolmogorov-Smirnov test; least-squares-fit mixing models; linear correlation; linear regression analysis; multivariate analysis; negative sum error; principal component analysis; Q-mode cluster analysis data; Q-mode principal component analysis; regression analysis models; STRATCOR program
 staurolite
 composition, 155B7:151–152, 166
 heavy minerals, 150X_B7:75–79; 174A_B6:6, 9–11
 mineral chemistry, 161B19:271
 photomicrograph, 161A6:244; 161B19:276–277; 20:285–287
 pressure-temperature conditions, 161B44:566–567
 schists, 161B19:265–266; 20:282–283
 textures, 161A6:223
 thermobarometry, 161B20:288, 290
 stearic acid, sediments, 157B21:368
 steinkerns, petrography, 161B3:42
 stenone, organic-rich sediments, 198A9:104
 Stephanolithiaceae, photomicrograph, 198B7:68–69
 steradienes
 biomarkers, 207A10:6
 sapropels, 160B23:287, 289
 sediments, 175B10:10
 steranes
 biomarkers, 151B23:412; 207A10:6
 chromatograms, 119B22:408–409; 172B1:5–6; 175B10:29; 207A10:18
 Kita-Yamato Trough, 127/128B(1)38:669
 sediments, 135B41:672–673; 150B18:337; 157B21:367, 369; 167B12:188; 172B1:2
 sources, 207A10:9
 See also methylsteranes
 steranes, triaromatic, oil seeps, 135B41:674–676
 steratriens, sediments, 175B10:10
 sterenes
 biomarkers, 151B23:412; 207A10:6
 chromatograms, 207A10:18
 sediments, 157B21:367, 369; 175B10:10; 198A9:104
 sterenes, desmethyl, sapropels, 160B23:287, 289
 sterenes, four-methyl
 chromatograms, 160B23:287
 sapropels, 160B23:287, 289
 stereoisomers, mass spectra, 157B21:371
 steroids
 Atlantic Ocean E, 108B20:352, 354
 biomarkers, 198A9:105
 chromatograms, 175B10:27
 oceanic anoxic events, 198A3:29–30
 sediments, 150B18:337; 155B34:543–545, 548; 175B10:8–10, 33
 Tyrrhenian Sea, 107B34:569
 See also cholestane; ketones, steroidal/hopanoidal; propionate
 steroids, C-ring monoaromatic, sediments, 167B12:188
 sterol esters, sediments, 175B5:5–6
 sterol ethers
 biomarkers, 198A9:105
 sediments, 175B5:5–6; 10:10
 sterols
 carbon number, 161B30:400
 chromatograms, 155B34:546–547, 549; 160B22:278
 lithofacies, 155B34:551; 40:613–615
 nomenclature, 161B30:398
 organic-rich layers, 161B30:393, 396–397
 photograph, 155A10:248
 sapropels, 160B21:266–268; 22:276–279
 sediments, 157B21:367; 161B30:400; 162B15:213; 175B5:8–9; 10:8–10
 structure, 160B22:283
 vs. age, 162B15:213
 vs. depth, 150B18:336
 vs. organic carbon, 160B22:279
 See also beta-sitosterol; brassicasterol; campesterol; cholesterol; 4-desmethyl sterols; dinosterol; stanols/sterols ratio
 sterols, desmethyl, sapropels, 160B23:287, 289
 sterols, four-methyl, sapropels, 160B21:266; 23:287, 289
 sterones, oceanic anoxic events, 198A9:29
 steryl esters, chromatograms, 175B5:18
 stevensite. *See* serpentine–stevensite series
 stiffness modulus
 sediments, 131B21:264
 triaxial shear strength, 186B17:6
 vs. depth, 186B17:14
 stigmaterol, sapropels, 160B21:266–267
 stilbite
 alteration, 163A4:42; 183B15:7–8; 205A4:33
 occurrence, 120B(1)4:64, 66
 photomicrograph, 205A1:61; 4:113
 stability, 126B34:521
 thermodynamic parameters, 126B34:524–525
 volcanic ash alteration, 128A5:288
 X-ray diffraction data, 205A4:112
 stilpnomelane, basalts, 169A5:213
 stochastic processes. *See* Markov chain analysis
 stockwork zones
 alteration, 193B1:21
 basement, 158B19:255–276
 chimneys, 193A1:25; 193B1:7
 mineralization, 158A10:178
 petrology, 158A8:163
 photograph, 193A1:52; 3:106; 4:69

- photomicrograph, 193A4:104–105; 193B8:10
stratigraphy, 158A1:11–13; 7:68
structure, 158B28:393
sulfides, 158A7:103–104; 158B11:130–132; 18:232–254; 19:269–270; 21:285–295; 22:298–301; 193B1:28; 10:5–7
sulfur isotopes, 158B5:71–84
with Trans-Atlantic Geotraverse, 158B28:389–415
stockwork zones, seafloor, 158B28:406–407, 412
Stoneley wave energy estimated loss, 205B13:18–20
Stoneley waves
fracture density, 205B13:1–22
permeability, 205B13:6–9
structure, 102A3:97, 115, 116, 118; 102B4:49, 52–54, 56, 57, 61
velocity, 193A3:256; 205A4:164; 205B1:48; 13:18–19
well-logging, 149A6:200
storm action, environment, 194B5:16
storm beds, photograph, 174A_A3:54
storm deposits, lithology, 174AX_A1:22, 24
STRATAFORM, Cenozoic, 174A_A1:10–11
STRATCOR program, modeling, 123B40:760–762
strain
crustal thinning, 180B(synthesis):18–19
data, 190/196B10:15
difference functions, 127/128B(2)67:1054, 1056–1057
hardening, 131B7:93
localization, 137/140B19:219–229; 153B9:157–159; 209A3:30; 5:26
magnetic susceptibility, 156B6:103–104
permeability, 190/196B10:1–16
photomicrograph, 179A4:133, 144
principal orientation, 123B24:472, 474–475, 478–481
rate vs. viscosity, 183B14:16
seamounts, 160B51:688–689
sediments, 174A_B7:5
shallow sediments, 194B7:1–28
shortening, 160B40:521–522
temperature correlation, 123B24:476
troctolites and gabbros, 147B14:268
veins, 179A4:55
vs. depth, 149B19:357; 160B40:521–523
vs. stress, 186B17:16–19
vs. uniaxial stress, 165B10:181
vs. vertical consolidation stress, 204B12:48, 50, 52, 54, 56, 58, 60, 62, 64, 66
See also expansion; stress
strain, axial
vs. effective shear stress, 204B26:17
vs. internal friction angle, 204B12:49–67
vs. normalized pore pressure, 204B12:49–67
vs. normalized shear stress, 204B12:49–67
vs. normalized undrained modulus, 204B12:49–67
vs. pore pressure change, 204B26:17
strain, compactional, carbonate veins, 156B5:88–90
strain, ductile
clay-rich sediments, 131B11:141–155
gabbros, 153B5:77–98
strain, elastic, available for cracking, 118B26:506
strain, finite, vs. subgrain boundary density, 153B2:25
strain, triaxial
Fry and PODI determination, 131B4:49
geometry and orientation, 131B4:45–46
lithology, 131B4:53–54
permeability, 131B7:92
principal axes, 131B11:148–149
rotation, 131B11:147
sediments, 131A6:173–174
smectite, 131B4:52
vs. depth, 131B4:56
strain, vertical
vs. differential stress, 149B20:368
vs. effective mean stress, 149B20:368
vs. effective stress, 149B21:365
vs. effective vertical stress, 149B20:368
vs. vertical consolidation stress, 204B12:31–48
strain, volume, apparent, vs. depth, 149B19:358
strain bands, photomicrograph, 197A1:62; 5:54
strain discontinuity, décollement zone, 190A1:29
strain lamellae, photomicrograph, 197A5:49
strain localization, crystal-plastic deformation, 179A4:53–54
strain rates, lithosphere, 149B40:644
strainmeter interface, instruments, 186A3:14–15
strainmeters
boreholes, 186A3:5–8, 26–29
sediments, 186A1:15–16
“Strangelove” ocean, Maastrichtian, 174AXS_A(summary):13, 32
stratification
horizontal layers, 129B6:156
lithology, 135A(1)10:509–512; 190A9:6–9
Pliocene, 202B12:1–51
stratal disruption, 170A4:109–113; 170B3:4–6; 128A4:142
volcaniclastics, 157B4:43–44
water column, 184B11:89
See also cross stratification
stratification, inclined, photograph, 172A5:174
stratified diamict facies, lithofacies, 178A6:6
stratigraphic controls, gas hydrates, 204A1:9
stratigraphic discontinuities
biostratigraphy, 174A_A3:64–65; 4:119–120; 5:168
log-core correlation, 174A_A4:141–143, 146–151
seismic mapping, 174A_A3:86–88, 95–96; 4:134–135, 141–143
stratigraphic events, biocalcareous, 178B26:4–5, 21
stratigraphic height, relative
vs. barium/zirconium ratio, 163B7:71
vs. magnesium number, 163B7:69
stratigraphic intervals
biostratigraphy, 161B35:443, 447, 449, 454; 178B7:37, 38, 40; 200B4:3–8
carbon isotopes, 161B38:485
climate, 178B7:11–13
organic carbon and carbonate, 159A5:102–103
oxygen isotopes, 161B38:483–485
stratigraphic isotope stages
carbon isotopes, 154B21:328
foraminifers, 151B28:471, 472, 474
paleoenvironment, 151B28:477–479, 481

stratigraphic layers, 165A6:346–347
 stratigraphic markers, diatoms, 167B3:66
 stratigraphic sequence analysis, vs. depth, 177A1:53
 stratigraphic sequence boundaries
 Cenozoic, 174A_A3:95–96; 4:133–135
 depth prediction, 174A_A3:84–86; 4:133–135;
 174A_B(synthesis):2–5, 10–11
 lithology, 174AX_A1:26, 30, 32, 35, 42;
 174AXS_A1:18–29; 2:16–33; 3:18–34, 39–42;
 5:26–35, 40–42, 64; 6:20–48; 7:10–23, 55
 nannofossils, 174A_B(synthesis):9
 photograph, 174AXS_A2:56–58; 189A6:87
 structural mapping, 174A_A3:86
 stratigraphic sequences
 Bass River Site, 174AX_A1:15–35
 biofacies, 150X_B14:169–186
 biostratigraphy, 150X_B11:129–145; 174AXS_A5:45
 calibration of outer shelf to upper slope, 174A_A5:182
 Cenozoic, 150B5:65–95; 174AXS_A(summary):6–10;
 182A1:4–5
 channel-levee systems, 155B41:660–662
 coastal plains, 150X_B27:361–373
 correlation, 150B11:210–217
 debris flows, 150B11:225–226
 deposition, 150X_B12:153
 Eocene, 150X_B16:207–242; 17:233–238; 18:249, 251,
 253, 255
 glacioeustatic changes, 150X_B1:3–4
 lithofacies, 150B10:171–187; 150X_B1:8; 160B43:554
 lithology, 150B22:385–409; 174AX_A1:22, 24;
 174AXS_A1:17–18, 26; 5:27–28; 6:23, 25, 26
 mass transport deposits, 150B11:189–228
 Millville Site, 174AXS_A5:16–42
 Miocene, 150X_B11:142–144; 20:277–285
 Miocene–Oligocene interval, 150B20:361–376
 Neogene, 182B3:41
 Ocean View Site, 174AXS_A2:15–33, 48–53
 Oligocene, 150X_B8:82–85; 14:187–206
 Oligocene–Miocene interval, 150X_B1:7; 12:147–159
 Oligocene–Pleistocene interval, 174A_A1:5–16
 Paleocene, 150X_B19:267–275
 physical properties, 174A_A3:81–88
 planktonic foraminifers, 150B28:455–460
 sedimentation, 150B12:237
 sediments, 152A5:50–51
 seismic surfaces, 174A_A5:180, 182
 spectral gamma ray logs, 150B23:411–422
 stratigraphy, 174AXS_A1:2; 2:3
 strontium-isotope stratigraphy, 150B6:107–112
 unconformities, 150B16:297
 vs. depth, 150X_B6:69–70; 27:367; 174AXS_A(sum-
 mary):31–32
 See also sedimentary sequences; seismic sequences
 stratigraphic range chart, calcareous nannofossils,
 198B3:7–9; 6:29–40; 7:48–52
 stratigraphic units
 age, 169S_A2:26
 correlation, 189A1:82
 summary, 190A4:106
 stratigraphy
 accretionary prisms, 131A1:13

age models, 202B4:15–17
 Australia NE, 133B19:266–267
 basalts, 152B31:376–380; 163X_A8:12
 basement, 185A3:10–14, 71–76; 4:21–23, 93–95
 Bass River Site, 174AX_A1:5–43
 calcareous nannofossil events, 168A4:77; 5:140; 6:175
 Campanian–upper Quaternary interval, 129B4:121
 carbon isotopes, 185B6:1–17
 carbonates, 154B12:190; 194A1:5–6, 65
 Cenozoic, 131B3:37; 28:344; 182A1:3–5; 184A1:50
 chemical stratigraphy, 147A3:90–91
 composite section, 169S_B1:27–28, 31; 183A1:69–70,
 74, 79, 86, 90, 96–97; 3:27; 4:38; 5:66–68; 7:66–
 67; 8:40; 9:46–47; 183B3:25; 4:30–31; 8:13
 correlation, 151A13:417; 155B39:595–609;
 163X_A8:12–13; 172A5:188–201; 192A1:72;
 194A1:69–71; 199B2:1–41; 202A1:9–11, 115;
 202B1:11–13, 44–45
 critical events, 210A1:17–19
 drifts, 152B1:14–17; 3:29–36
 epoch boundaries, 206A3:341
 Eratosthenes Seamount, 160B52:703
 evolution, 198A1:108; 4:38
 framework along strike, 190A1:9
 gamma ray time series, 186B15:40
 graphical summary, 188A3:109–111
 hydrothermal fields, 158A1:11–13; 158B1:14–17
 igneous rocks, 205B9:7
 intercalibration, 199A1:17–18
 intrusions, 176B10:20–21
 Jurassic basement, 185A1:16–19
 Jurassic–Lower Cretaceous interval, 129B30:530–532;
 36:676–677
 lithology, 129B3:82, 84; 150X_A1:3–13; 175A18:536–
 537; 209A3:4–5
 magnetic polarity, 178A4:29
 marine isotope stages, 202B1:11–13
 marine sedimentation, 181A1:10
 mass flow deposits, 160B37:466–469
 metasedimentary rocks, 152B10:129–131
 minerals, 129B1:13, 21
 Miocene–Pleistocene interval, 177B(synthesis):, 3–5
 modeling on Northwest Australian shelf,
 123B37:687–693, 697, 711–713
 Neogene, 167B32:363–368
 ophiolites, 179A4:11–13
 oxygen isotopes, 133B12:165–173
 Paleogene, 199B1:5–9
 physical properties, 167B32:367–368
 Pliocene–Pleistocene interval, 188B13:1–38
 principal results, 189A1:14–30
 Quaternary cycles, 133B15:189–194
 reflectance, 175A23:569–577
 revised magnetobiostratigraphy, 133B49:739–740
 sapropels, 160A2:24, 27–28; 160B3:31–33
 sea level changes, 166A2:14–18
 sea-surface temperature, 162B12:180–181
 sections, 192B1:15
 sedimentation, 167B10:162–182; 201B15:4–5;
 210A1:12–13
 sediments, 168B5:52–54; 185A1:9–10

- seismic reflectors, 180B5:6–9
 seismic sections, 194A1:72
 series/subseries boundaries, 104A2:37; 104B39:786–789
 Site 801, 129B36:675
 Site 957, 158A7:67–68
 Site 1090, 177B(synthesis):4–5
 stable isotopes, 151B26:445–454; 154B14:210–211; 29:441–449; 30:451–461; 167B7:129–140; 171B_B5:1–14; 184B3:1–8
 strontium isotopes, 133B33:489–498; 192B3:1–19
 summary, 163X_A1:17; 171B_A7:354; 174AXS_A4:39–42; 5:57–63; 6:66–72; 7:39; 179B(synthesis):1–125; 181A1:46; 181B1:88, 105; 190A1:26–27
 TAG areas, 158A8:142–144; 10:177–178; 11:210–212
 tectonics, 191A4:3
 tephra, 152B5:55–56; 181A7:13
 turbidite facies, 155B5:108
 volcanic ash, 151B17:314, 335; 152B8:95–113
 volcanic rocks, 152B28:337–341, 343
 volcanism, 152B39:467–468; 40:483–484; 41:506–510, 522; 163X_A8:13–16
 vs. depth, 135A(1)4:133–134
 well-logging, 201A6:33–34; 208A4:23–25
See also acoustic stratigraphy; age; allostratigraphic packages; aminostratigraphy; biostratigraphy; chemostratigraphy; chronostratigraphy; continental succession; cyclostratigraphy; dating; geotechnical stratigraphy; isotope stratigraphy; lithostratigraphy; magnetostratigraphy; molecular stratigraphy; oceanic succession; oxygen isotope stratigraphy; petrophysical units; pseudostratigraphy; seismic units; seismostratigraphy; strontium isotope stratigraphy; well-log units
- stratigraphy, acoustic
 carbonate sediments, 130B44:713, 715
 Ontong Java Plateau, 130A7:226, 294; 10:500
- stratigraphy, carbonate difference
 age vs. depth, 130B28:478
 basement, 130A9:452–454
 lithology, 130A8:351
 Neogene, 130B35:587–606; 44:714
 Paleogene, 130B14:259–268
 Pliocene–Pleistocene interval, 130B19:333–335
 Quaternary, 130B21:368–370; 24:411–412
 sediments, 130A9:451–452
- stratigraphy, corrected water depths, 192A1:73
 stratigraphy, marine, vs. terrestrial, 184A1:12–13, 48
 stratigraphy, subaerial, 157B15:226–229
 stratigraphy, terrestrial, vs. marine, 184A1:12–13, 48
 stratotypes. *See* Global Stratotype Section and Point
 straw man model, climate models, 199A3:1–30
 stream deposits, braided
 fining-upward sequences, 119B3:47, 53
 paleoenvironment, 174AX_A1:15
 redbeds, 119B45:797
 streamlines, climate models, 199A3:17–19, 24–26
 strength
 lithosphere, 149B40:639
 peak, 151B21:379–381, 384
 physical properties, 148B32:401–407
 sediments, 155B28:473; 190/196B7:5
 vs. depth, 178A5:77
 vs. electrical conductivity, 148B32:405
 See also overburden strength
 strength, unconfined, compressive
 vs. depth, 148B32:406
 vs. porosity and density, 148B32:404
 strength behavior, sediments, 131B21:261–273
 stress
 accretionary prisms, 131A1:13
 anelastic strain recovery, 123A3:50–51, 206, 209–211
 Atlantis Bank, 118B28:556
 basement basalts, 123A4:206–214
 borehole televiewer data, 134B32:565–576; 137/140B25:293–304
 breakouts, 121A1:22; 12:363
 calibration, 148B32:403
 carbonate veins, 156B5:88–90
 Celebes Sea, 124A13:381–382; 124B8:108, 110–111
 Cloetingh and Wortel model, 123B26:506, 509
 cores, 137/140B21:248
 data, 190/196B10:15
 deformation, 121B35:698–706, 716–717; 190/196B1:4–5
 diabases, 148B23:317–329
 erosion, 207B15:11–13
 evidence, 131A7:284
 Formation MicroScanner imagery, 134B34:591–606
 fractures, 148B22:308, 314; 160B41:530–534
 geomagnetic measurements, 121B35:701
 horizontal stretching field, 126B13:205
 hydrofractures, 123A3:52–53; 148B17:247
 igneous rocks, 123A5:328–331
 in situ directions, 123A3:51–52, 210, 213–214; 135B18:287–299
 in situ memory, 121B35:699, 705
 indicators, 123B24:470
 LAST-I, 131A6:198–199
 magnetic susceptibility, 156B6:103–104
 magnetite and ilmenite, 153B7:132–133
 magnitude, 137/140B25:298–299, 301–303
 mass accumulation rates, 207B15:11–13
 measurement procedures, 121B35:699–701
 metamorphism, 161B24:319–329
 microstructures, 176A3:64
 mid-ocean ridges, 148B17:257–258
 Mohr diagrams, 131B8:118
 oceanic crust, 123A3:50–52
 orientation, 126B41:619–620, 624; 159B21:220–222; 204B4:1–14
 physical properties, 148B32:401–407
 pore pressure effect, 121B35:702, 704–705, 713
 porosity, 155B29:491–492; 194B7:19–28
 principal horizontal magnitudes, 123B24:470–471
 regime constraints, 123B26:509–512
 regional indicators, 123B26:505–506; 124A11:198
 Richardson model, 123B26:506, 509
 seawater circulation, 118B26:505
 sedimentary structures, 126B41:614, 618–620

- sediments, 150B21:381; 160B41:527–534; 51:688–689; 164B40:421–429; 186A4:61–63; 207B15:1–35
- seismic Horizon A, 204B1:32
- Sulu Sea, 124B8:108–110; 11:274–276
- underthrust section, 170B3:7–8
- vs. depth, 137/140B25:302; 156B17:233
- vs. friction, 161B24:329
- vs. in situ permeability, 150B21:383
- vs. strain, 186B17:16–19
- vs. subbottom depth, 131A6:203
- vs. void ratio, 133B42:629; 207B15:23–26
- See also* consolidation; lateral stress tool; overburden stress; shear strength/effective overburden stress ratio; World Stress Map Project; Young's modulus
- stress, azimuthal, indicators, 147B28:466
- stress, circumferential
 - lithology, 123B26:511–512
 - vs. maximum horizontal stress, 134B32:573; 137/140B25:302
- stress, compressive
 - induced fractures, 134B34:605
 - maximum horizontal, 123B26:505, 508, 512
- stress, consolidation
 - vs. compressional wave velocity, 204B26:15
 - vs. resistivity, 204B26:16
- stress, deviator
 - vs. mean effective stress, 131B21:272; 141B33:414–416
 - vs. pore pressure, 131B21:272
- stress, differential
 - photograph, 186B17:16–19
 - vs. effective mean stress, 149B20:368
- stress, effective
 - mean stress vs. differential stress, 149B20:368
 - mud volcanoes, 160B48:638
 - sediments, 174A_B7:5, 20–25, 27; 190/196B7:5
 - test results, 205B11:11–12
 - vertical stress vs. vertical strain, 149B20:368
 - vs. bulk permeability, 156B15:215–216; 24:309
 - vs. compressional wave velocity, 149B20:369
 - vs. depth, 146A(1)4:93, 195; 165B10:184; 204B1:32
 - vs. earth pressure at rest, 174A_B7:14–15
 - vs. permeability, 156B24:306–308; 160B48:639; 170B3:8–9, 26–27, 29; 174A_B7:17; 180B22:5–6, 15; 190/196B18:18–19; 201B18:11
 - vs. porosity, 170B3:26; 174A_B7:13
 - vs. vertical strain, 149B21:365
 - vs. void ratio, 131B21:269; 23:286; 154B8:152; 156B7:111; 17:231; 167B31:334–336; 194B7:9–15; 199B12:14; 205B10:9; 15:21
- stress, effective/shear strength ratio, 146A(1)4:93
- stress, effective vertical
 - lithology, 123B25:499–500
 - vs. depth, 131B23:288; 164B40:429
 - vs. tangent modulus, 131B21:270
 - vs. void ratio, 164B40:427–428
- stress, extensional, causes, 124B8:115
- stress, horizontal
 - lithology, 121B35:704–705, 714–715
 - orientation, 159B21:210, 220
- stress, in situ
 - breakouts, 196A4:22
 - Formation MicroScanner imagery, 159B21:209–223
 - sediments, 131B23:283–291
 - vs. yield loci, 131B21:273
- stress, intraplate
 - Central Indian Ridge/Chagos Bank, 123B37:686–687
 - continental rheology models, 123B37:675, 677–678
 - deformation changes, 123B37:681
 - elastic plate model, 123B37:676–677
 - in-plane force variation, 123B37:674–675, 679
 - Indian Ocean NE, 123B37:696
 - lithology, 123B37:684
 - sea level changes, 123B37:671, 673–679
 - stratigraphic effects, 123B37:688–689, 692
 - vertical motion effects, 123B37:673–676
- stress, lateral
 - LAST-I, 131B23:290
 - vs. time, 131A6:240
- stress, maximum horizontal
 - orientation, 137/140B25:301
 - sediments, 204B4:13
- stress, mean effective, sediments, 141B33:407–410
- stress, overburden
 - rocks, 127/128B(2)67:1050–1051
 - sediments, 131B21:271
 - Site 751, 120B(1)13:184
 - vs. depth, 146A(1)7:352; 159B21:211; 166A6:99; 7:166; 8:195
 - See also* shear strength, undrained/overburden stress ratio
- stress, preconsolidation
 - methods, 123B25:496–497, 501; 131B21:265; 23:287
 - Prydz Bay, 119B8:152, 158
 - vs. permeability, 119B8:155
- stress, principal
 - fault boundary, 131B23:288–289
 - orientation, 131B8:105–106
- stress, thermal, dikes, 137/140B25:295–296
- stress, total effective vertical, vs. depth, 186A4:143; 5:83
- stress, uniaxial
 - sediments, 130B41:680–681
 - vs. porosity, 165B10:182, 185
 - vs. strain, 165B10:181
- stress, vertical
 - lithology, 121B35:701–702, 705
 - porosity, 130B42:688–690
 - sediments, 131B20:253–255; 186A4:47; 5:31–32
- stress, vertical consolidation
 - vs. coefficient of consolidation, 204B12:31–47
 - vs. excess pore pressure, 204B12:31–47
 - vs. lateral stress ratio, 204B12:48–66
 - vs. strain, 204B12:48–66
 - vs. total work, 204B12:31–66
 - vs. vertical strain, 204B12:31–48
 - vs. void ratio, 204B12:31–66
- stress fields
 - azimuthal distribution, 127/128B(2):1058
 - crack behavior, 127/128B(2)70:1121

- crustal anisotropy, 127/128B(2)70:1114–1115;
83:1343
 deformation, 127/128B(2)67:1048–1049; 186A1:15–
16
 determination methods, 127/128B(2)67:1047
 drilling-induced faulting, 161B24:323, 325
 earthquakes, 127/128B(2)67:1054
 fault planes, 159B21:219–221
 faults and fractures, 127/128B(2)75:1181–1183
 fracturing, 152B37:445
 horizontal stress, 127/128B(2)67:1051–1052
 interpretation, 127/128B(2)67:1049–1050; 82:1323–
1324
 island arcs, 186B1:21
 Japan arc rotation, 127/128B(2)67:1054
 Japan Sea, 127A1:17; 127/128B(2)67:1059; 75:1185–
1187
 Kita-Yamato Trough, 128A5:293–294
 lithology, 173A4:85
 magma ascent, 127/128B(2)82:1319
 Oga Peninsula, 127/128B(2)76:1204–1205
 porosity effect on horizontal stress, 127/
128B(2)67:1053
 sediments, 149B20:370–372
 Site 794, 127A4:84; 127/128B(2)67:1047–1059;
70:1120
 Site 795, 127A5:180–181
 Site 796, 127A6:258
 Site 797, 127A7:337
 Site 799, 128A5:245
 strain difference functions, 127/128B(2)67:1054,
1056–1057
 stress-strain curves, 127/128B(2)67:1051
 vertical stress, 127/128B(2)67:1050–1051
 volcanic activity, 127/128B(2)48:796; 82:1319, 1321,
1325
 Yamato Rise, 128A5:245
 Yamato Trough, 128A5:340
 stress fields, compressional, 127/128B(1)29:529–531
 stress geometry, dewatering, 131B4:46
 stress history, Labrador Sea, 105B41:791–795
 stress inversion, plate convergence vector, 131B29:372
 stress magnitudes, structures, 196A1:12
 stress modulus, tangent, vs. effective vertical stress,
131B21:270
 stress orientation
 borehole breakouts, 125A8:105–108, 111
 structures, 196A1:12
 stress ratio, lateral, vs. vertical consolidation stress,
204B12:48–66
 stress regimes
 accretion, 131B18:225–226
 core-scale structures, 131B29:369–372
 depth distribution, 131B8:106
 large igneous provinces, 198B1:4
 sediments, 131B21:261–273
 stress relief features, microfractures, 131B18:225
 stress/strain behavior
 sediments, 125B20:365; 131B20:249–252
 serpentinite mud, 125A12:291; 125B19:351; 20:370;
36:600
 Torishima Forearc Seamount, 125B36:609
 tuffs, 131B22:277–279
 stress tensors
 accretionary prism toe, 131B8:103–122
 deformation, 131B29:377–378
 fault planes, 134B24:433
 vs. depth, 131B8:118
 stress transfer zone, backarcs, 186B1:6
 striations
 basement/sediment contact, 161A6:210–211
 faults, 186A5:40
 photograph, 178A8:40
 triaxial shear strength, 186B17:6
 strike, Formation MicroScanner imagery, 134B34:593,
597, 599
 strike-slip faults. *See* faults, strike-slip
 stringers
 alteration, 209A7:8–9
 lithology, 166A8:177
 photograph, 188A3:90
 in volcanic rocks, 183B17:1
 stromata, fungal tissues, 180B10:11
 stromatolites
 basin margins, 161B43:548–549
 bioherms, 161B43:544–546
 Cornaglia Terrace, 107A9:632; 107B38:648
 optical microscope view, 194B8:12
 See also thrombolites
 stromatolitic crust
 lithology, 194A7:6
 photograph, 194A7:50
 photomicrograph, 194A7:51
 strongyles
 Site 689, 113B54:965, 968
 Site 795, 127/128B(1)30:542
 strontium
 alteration, 125B12:225; 186B14:10–11; 187B1:8
 amphibolites, 173A6:134; 173B10:5
 andesites, 125B18:632
 andesites-dacites-rhyolites series, 125B12:227
 anhydrite, 158B10:121–124; 11:133–140; 193B7:7
 anomalies, 153B10:235
 aragonite, 123B3:78; 147B16:311; 168B10:126
 authigenesis, 172A5:225–226, 228
 Baffin Island-West Greenland, 105B46:870; 52:1002
 basalts, 120B(1)3:57; 121B30:571; 123A4:187, 189,
195; 129B19:378; 130A10:524–525; 134A9:199–
200; 135B26:475–476; 158B17:218; 163A4:39–
41; 5:59–60; 169A3:95; 187A3:10; 6:10–11; 7:11;
8:11; 11:13; 12:11; 191A4:32; 192B1:5;
195A4:22–23; 196A3:32, 96
 basement, 126B27:417; 127/128B(2)49:807
 biogenic carbonates, 167B23:266
 black shale, 207A5:29
 boninite genesis, 125B38:643
 bottom water temperature, 115B36:668
 breccia clasts, 173A7:195
 brine aquifers, 207A8:28–29
 bulk sediments, 199A9:11; 10:18; 11:26; 12:27; 13:23;
14:19
 calcite, 118B9:200; 175A20:550–551

calcium concentration, 115A11:857
 carbonates, 115B36:666–670; 134B6:91–93; 156B5:92;
 29:356; 160B35:448; 165B19:291; 166B13:141–
 142; 14:147–148; 168B11:139, 141; 182B16:5;
 198B13:5
 chemical reactions, 150X_B24:338–339; 169A5:221
 clay, 169B6:7, 9; 180B17:6; 184B12:10
 comparison of profiles, 177A5:52
 concentration, 101B24:373; 102B9:133
 Cretaceous/Tertiary boundary, 121B21:424
 diabases, 137/140B9:108; 180A6:36; 180B1:5;
 209A7:24
 diagenesis, 124B14:205–208; 160A7:188; 9:311;
 161A5:146; 6:236; 7:319; 180A9:41–42;
 185A4:28; 207A7:29
 diopside, 125B28:493
 dissolution, 162A3:76; 208A5:52
 element correlations, 158B27:378–382
 enrichment pattern, 125B28:500
 equilibrium concentration, 133A(1)16:710
 evaporites, 160A4:69; 8:249; 161A4:83
 Exuma Sound, 101B20:292; 24:368, 371–374
 felsic rocks, 183A7:41; 183B1:12
 ferrobasalts, 121A15:526
 fine-grained sediments, 210B8:15
 fractionation, 183A7:41–42
 gabbros, 153B28:496; 176A3:51; 176B3:4; 6:19; 8:4–
 14; 179A4:45–47; 179B(synthesis):15; 209A6:30;
 10:25
 geochemical zones, 103B29:489, 491–492, 500
 glacial-interglacial cycles, 115B36:666
 granites, 161A6:216
 green clay, 184B15:5
 gypsum, 160A8:250; 9:311
 Hauterivian–Barremian interval, 103B29:498
 Hauterivian–Valanginian interval, 103B29:500
 hydrothermal clays, 158B17:218
 hydrothermal sediments, 199B15:3
 igneous rocks, 209A10:27
 igneous units, 163X_A5:5–6; 6:23
 jasperoids, 193B1:48; 9:5
 Labrador Sea, 105B9:118; 46:870
 lamprophyres, 180A7:15
 lava flows, 121B31:360–602; 197A3:22–24; 206A3:65;
 206B1:7
 lithofacies, 129B1:18
 lithology, 180B6:6
 Little Bahama Bank, 101B20:289; 24:371–374
 magmas, 183A7:40
 mantle, 158B17:225
 mass balance, 169A3:98
 massive sulfides, 193B10:4
 metabasaltic clasts, 158B17:218
 metasedimentary rocks, 152B10:135–137
 mineral separates, 158B2:30, 37, 39; 27:370–376
 mobility, 125B12:223
 Owen Ridge, 117B23:415
 Paleocene/Eocene boundary, 199A1:85; 13:23; 14:20;
 199B16:3
 parental magma, 118B4:83, 107
 partitioning, 153B19:372

peridotites, 125B28:495–500; 209A7:22
 Pigafetta Basin, 129B1:16
 pillow basalts, 137/140B11:129; 187A5:7
 pore water, 116B9:118–119, 121–122; 13:146, 149;
 123B3:83; 127/128B(1)34:607, 643–646; 127/
 128B(2)79:1263; 129B14:269–273, 281;
 130A8:324; 131A6:163, 168; 131B31:390, 394–
 396; 133A(1)4:101, 105, 107; 5:154–156; 6:188–
 190; 7:215–216, 221; 8:265–267; 9:316, 318–
 319; 10:369; 11:430–431; 12:467–468; 13:520–
 521; 14:581–582; 15:632; 16:707–709; 17:781–
 784; 133B31:476; 35:517, 520; 48:707–711, 713;
 135A(1)4:127; 5:216; 9:432; 135B42:680–688;
 149A5:136, 244; 150A7:170, 172; 8:235, 333;
 152B25:300–301; 154A4:93; 5:181; 6:249; 7:304;
 8:359; 154B34:498; 156B25:315–316; 29:354;
 157A7:358; 8:418–419; 159A5:110; 6:195;
 7:245; 8:285; 161A6:235; 8:381; 9:404;
 162A4:116; 6:195; 9:312; 10:362–363;
 164A5:89; 6:129; 8:264–265; 9:300–301;
 165A3:74; 4:167; 5:260; 6:319; 166A6:93;
 7:161–162; 8:190–192; 9:251, 267; 10:313;
 167B32:343; 169A3:113–117; 4:171–175; 5:218;
 6:274–281; 171B_A3:77; 4:144; 5:208–209;
 6:286–287; 7:334; 172A6:286–288; 174A_A3:72–
 73; 4:122–123; 5:171; 175A3:72–73; 4:101;
 5:130; 6:164; 7:189; 8:212–213; 9:255–256;
 10:295; 11:325–326; 12:367–368; 13:409;
 14:444–445; 177A3:12; 4:16–17; 5:20–21; 6:14;
 7:15; 8:16–17; 9:13; 178A4:22; 5:19; 6:14; 7:16;
 8:14; 9:15; 180A5:32; 6:54, 56, 58; 7:21; 8:31;
 9:39–40; 12:37–39; 181A3:23; 4:19; 5:21; 6:29–
 30; 7:39; 8:31; 182A1:41; 4:30–31; 5:19, 21;
 6:28–29; 7:21, 23; 8:24; 9:19; 10:24; 11:14;
 12:20; 184A4:22–23; 5:19; 6:14; 7:19; 8:8–9;
 9:23; 186A1:14; 5:26; 186B14:5; 188A4:30; 5:24;
 189A3:43–44, 161; 4:21, 60; 5:47–48, 158; 6:52,
 166; 7:44, 140; 193B4:4–5; 194A3:16; 4:21; 5:17;
 6:13; 8:17; 9:16; 195A3:33, 35–37; 195B1:8;
 198A3:36; 4:28; 5:28; 6:26; 7:24; 8:22; 9:30;
 199A8:16; 9:10; 10:16; 11:25; 12:26; 13:22;
 14:18; 15:12; 202A5:14; 6:15; 7:18; 8:24; 9:19;
 10:18–19; 11:16; 12:16; 13:14; 204A4:15; 6:11;
 7:11, 40; 8:13; 10:15; 205A4:46–47; 5:30; 6:15–
 16; 206A3:39–40; 207A6:32; 208A3:20–21;
 4:18–19; 5:14; 6:23; 7:21–22; 8:22
 positive anomalies, 125B28:492
 reservoirs, 113B11:154–156
 sand, 147B26:449
 saponite, 168B12:154
 sea level changes, 115B36:669
 seawater-peridotite mud interaction, 195B4:6
 sediments, 129B14:271; 130A7:252; 131B34:424;
 149A4:99; 161B2:28, 32–33; 166A11:363–364;
 166B14:148–151; 17:184–188, 191;
 167A(1)4:75; 5:104; 8:193; 9:232; 10:261;
 169B10:19; 169S_B1:40; 170A3:79; 4:140–141;
 6:206; 178B4:1–12; 180B6:10–11; 185A1:24;
 186A4:38–39; 204A3:18; 205A4:24; 5:17;
 208A5:18–19
 serpentine sediments, 125B18:336

- serpentinites, 149B30:522; 195B4:7
 shipboard vs. shore-based digestion, 206B3:14
 shore-based flux vs. shore-based microwave acid digestion, 206B3:12-13
 siliceous rocks, 198B17:21
 Site 734, 118A5:87
 Site 765, 123A4:147-148, 160
 Site 766, 123A5:303-304, 323
 Site 784, 125A12:281
 Site 787, 126A5:88
 Site 794, 127A4:110; 127/128B(2)85:1363
 Site 795, 127A5:205-207; 127/128B(2)85:1365
 Site 796, 127A6:280
 Site 797, 127A7:363-364, 370; 127/128B(2)85:1366
 Site 798, 128A4:173-174, 182
 Site 799, 127/128B(1)34:611; 128A5:318, 329
 Site 803, 130A5:138
 Site 804, 130A6:202
 Site 1017, 167A(1)11:295; 13:368; 14:406; 167B23:265
 Sites 811 and 825 comparison, 133A(1)4:108
 sources, 115B36:662, 666; 150X_B25:350-351
 Southern Ocean, 114B39:721
 Straits of Florida, 101B20:282
 stratigraphy, 118A6:147; 163X_A8:12, 35
 submarine volcanism, 183B1:19-20
 sulfate reduction zone, 188A3:45
 sulfides and sediments, 158B3:43, 45
 Sulu Sea, 124A11:265
 tholeiitic basalt, 192A5:14-15
 trace elements, 126B27:421
 tuffs, 129B4:128
 veins, 176B9:16
 volcanic ash, 127A6:280; 127/128B(1)36:643; 165A3:82; 185A4:28-29
 volcanic rocks, 135B30:533-542; 161B27:364-369; 183B17:2
 volcanoclastics, 126B31:477; 134B9:164
 volcanism, 163X_A8:16
 vs. alteration, 137/140B9:111; 148A2:62; 148B5:62
 vs. aluminum oxide, 209A5:151
 vs. aluminum oxide/magnesium oxide ratio, 176A3:51, 173
 vs. anorthite, 153B17:347
 vs. aragonite, 133B31:477
 vs. calcium, 135B43:700; 150X_B25:350; 169A3:114; 177A5:53; 207A8:62
 vs. calcium carbonate, 123A4:156, 158
 vs. calcium oxide, 180B6:14, 38
 vs. calcium oxide/aluminum oxide ratio, 121B32:639; 153A4:147
 vs. carbon, 103B29:490
 vs. carbon dioxide, 209A1:125
 vs. chloride, 150X_B25:350; 156B25:315; 166B17:192
 vs. chloride and bromide, 160A5:115
 vs. chromium, 137/140B9:111
 vs. clinopyroxene number, 176B8:26
 vs. depth, 103B29:492-493, 495-496; 129A2:59; 3:126; 4:208; 131B28:350, 358; 133A(1)4:103; 9:318; 10:372; 12:474; 13:523; 14:582; 15:633, 642; 16:710, 716; 17:783; 133B31:475; 134B8:113, 117-118, 124-127; 135A(1)4:128; 5:220; 7:320; 8:369; 10:539; 137A2:37; 137/140B13:145; 140A2:89; 148A2:61-62; 3:158; 148B2:15; 10:137; 149A4:99; 5:136; 6:169; 7:245; 150A6:103; 7:172-173; 8:236; 9:290; 10:333; 150B17:324; 150X_B24:332, 334; 25:348; 152A8:102; 11:238; 12:271; 152B25:298; 154A4:103; 5:184; 6:256; 7:305; 8:381; 156B13:179, 181; 29:354-356; 157A7:365; 8:420; 158B27:374-376; 159A5:110; 6:194; 7:245; 8:285; 160A4:80; 5:114; 7:192; 8:255; 9:314; 10:367; 160B29:371; 161A4:92; 5:152; 6:260; 7:332; 8:387; 9:412; 161B2:32-34; 33:425-427; 162A3:80-81; 4:119; 5:162; 6:196; 7:248; 8:281; 9:318; 10:374; 164A6:131; 7:203; 8:271; 9:303; 164B15:159; 30:305; 165A3:75; 4:167; 5:260; 6:319; 8:397; 165B19:292, 294-295; 166A2:22; 3:35; 6:94; 7:163; 8:189; 9:253; 10:314; 11:363; 166B13:142; 14:152; 17:193; 167A(1)5:110-111; 6:148; 7:170; 8:204; 10:265-266; 11:302; 12:339; 13:371; 14:414; 15:447, 456; 16:480; 168B8:98-102; 9:107-109, 111, 113, 115; 169A3:115-117; 4:176; 5:220; 6:276-278, 280; 171B_A3:84; 4:147; 5:217; 6:296; 7:341; 171B_B2:6, 12; 4:9; 172A5:227-228; 6:286-287; 173A6:140; 174A_A3:75; 4:126; 5:173, 175; 175A3:78; 4:107; 5:134; 6:169; 7:191; 8:215; 9:260; 10:300; 11:331; 12:370; 13:415; 14:450; 20:551-552; 176B6:56; 8:12-13, 27, 29-30; 177A3:33; 4:48; 5:51; 6:43; 7:34; 8:50; 9:41; 178A4:77; 5:70; 6:49; 7:52-53; 8:47; 180A5:84; 6:164; 9:116; 12:120; 181A3:54; 4:40; 5:46; 6:73; 7:93-94; 8:75; 182A4:64; 5:45; 6:68; 7:49; 8:52; 9:43; 10:53; 11:30; 12:45; 184A4:59; 5:57; 6:38; 7:56; 8:23; 9:68; 185A4:115; 186A4:129; 5:74; 186B14:18-19; 188A3:124, 126; 4:76; 5:66; 189A1:89; 3:94; 4:39; 5:93; 6:106; 7:83; 191B3:7; 192A5:74; 193A3:224; 4:192, 194; 193B7:12; 194A3:46; 4:80; 5:63; 6:48; 8:53; 9:43; 195A3:116; 4:110, 134; 195B6:21; 10:6; 198A3:96; 7:55; 8:53; 198B13:8-14; 199A1:66; 8:35-36; 9:26-27; 10:39-40; 11:64-65; 12:69-70; 13:53-54, 56; 14:38-39, 41; 15:30; 199B15:6; 16:7; 200B2:14; 202A3:36; 4:48; 5:42; 6:47; 7:55; 8:67; 9:63; 10:58; 11:53; 12:63; 13:51; 204A3:60; 4:62, 66; 5:29; 6:40; 7:37, 40; 8:49; 9:47; 10:53; 205A1:50, 62; 4:70, 83, 114, 146; 5:60, 83; 205B1:43; 6:20; 206A1:83; 3:149, 152, 196; 206B3:15; 6:6; 207A4:58; 5:68; 6:67; 7:63; 8:59; 208A3:57; 4:58; 5:48; 6:67; 7:57; 8:56
 vs. depth in carbonates, 182B16:9-10
 vs. depth in serpentinite, 149B30:522
 vs. dolomite, 160B35:450
 vs. europium, 137/140B12:134
 vs. europium/europium ratio, 193B2:24
 vs. iron oxide/magnesium oxide ratio, 200B2:16
 vs. lithium, 166B9:103-104
 vs. loss on ignition, 148B10:140
 vs. magnesium, 137/140B13:146; 148B10:149; 169A4:172; 177A5:53; 185A4:118; 207A4:59

- vs. magnesium number, 148A2:59; 3:156;
153B13:282; 176B8:26
- vs. magnesium oxide, 135B29:523; 137/140B4:48;
163A4:41; 163X_A8:32; 187A3:25; 4:18; 5:18;
6:37; 7:34; 8:52; 9:22; 10:25; 11:36; 12:42;
13:42; 14:29; 15:43; 197A3:96-97; 200B2:11;
206A1:89; 3:200
- vs. neodymium, 127/128B(2):57:902
- vs. nickel, 152A9:139; 163A5:62
- vs. oxygen, 103B29:490
- vs. oxygen isotopes, 148B10:148
- vs. plagioclase content, 121B32:627
- vs. rare earths, 173B10:14-16
- vs. rubidium, 200B2:12
- vs. scandium, 163B7:68; 176B3:11
- vs. sediment age, 171B_B2:12
- vs. silica, 134B19:385; 151B19:360; 163B7:68
- vs. sodium oxide, 148B5:66; 205A4:119
- vs. strontium-87/strontium-86 ratio, 158B22:304
- vs. strontium isotopes, 148B10:144, 148; 156B5:95;
25:316
- vs. sulfate, 160A8:255
- vs. titanium oxide, 135B38:643; 195B4:23
- vs. total inorganic carbon, 207B8:22
- vs. water content, 148A2:62; 3:160; 158B19:265
- vs. zirconium, 121B30:565, 568-569; 125B12:223;
134A10:279; 135B25:452; 153B17:347;
157A7:363; 8:418; 157B12:169, 171; 13:192;
197A3:94; 4:71; 6:72; 209A7:100
- X-ray fluorescence data, 152B35:427; 160B35:450
Zone A, 187A8:12
- See also* barium/strontium ratio; calcium/strontium
ratio; lithium/strontium ratio; rubidium/stron-
tium isochron; rubidium/strontium ratio; so-
dium/strontium ratio; strontium-87/strontium-
86 ratio; titanium/strontium ratio; trace metals
- strontium, acid-soluble fraction, vs. carbonate,
150B17:318
- strontium, dissolved
 - pore water, 130A12:549; 201A6:16; 7:15; 8:15; 9:14;
10:14; 11:14; 12:13; 201B11:2, 8-9
 - vs. age, 130A10:533; 12:550
 - vs. depth, 169S_A2:55, 58; 201A6:43; 7:46; 8:35; 9:38;
10:40; 11:49; 12:32; 201B11:9-14
- strontium, excess, vs. depth, 182A5:47
- strontium, normalized, vs. depth, 166A6:95; 7:163
- strontium, reciprocal (1/strontium ratio), vs. strontium
isotopes, 193B7:15; 205B5:17
- strontium-87/strontium-86 ratio
 - along-axis profiles, 187A1:20
 - dolomite age calculations, 143B11:163
 - vs. anhydrite partition coefficients, 158B11:139
 - vs. depth, 146B(1):7:144; 25:378; 154B30:457-458;
158B10:124; 11:135
 - vs. lanthanum/niobium ratio, 183A1:63
 - vs. neodymium-143/neodymium-144 ratio,
183A1:59; 183B1:45
 - vs. oxygen isotopes, 158B11:138; 22:305
 - vs. reciprocal strontium (1/strontium ratio),
146B(1):7:143; 10:182; 25:379
 - vs. strontium, 158B22:304
 - vs. strontium/calcium ratio, 158B11:136
 - See also* strontium isotopes
- strontium/aluminum oxide ratio, vs. depth, 131B35:443
- strontium/aluminum ratio
 - lithology, 207B8:23
 - parental magma composition, 118B4:84-85
 - vs. anorthite/(anorthite + albite) ratio, 176A3:51, 174
 - vs. depth, 185A4:122
- strontium/chloride ratio
 - pore water, 146B(1):30:432-435; 150X_B25:348
 - sediments, 182A4:31
 - vs. depth, 146B(1):10:179, 184; 25:278; 160A8:255-
256; 9:314; 10:367; 161B33:430-431;
164A9:283; 164B30:305; 182A10:55; 189A3:95;
207A6:68; 8:60
- strontium isotopes
 - age, 150B17:320-321; 166A3:31; 174AXS_A5:94;
192B2:10
 - along-axis profiles, 187A1:20
 - alteration, 121B31:596-598; 125B13:246-247;
136B10:125-127; 148B:132-137; 187B1:8
 - amphiboles, 118B6:136
 - analytical methods, 119B40:732; 125B13:239, 242,
246
 - anhydrite, 158B6:88-90; 9:121-124; 193B1:30-32;
7:1-23
 - Antarctica ice growth events, 119B48:870
 - aragonite veins, 147B16:311-313
 - arc vs. rift, 126B26:398
 - Atlantis Bank, 118B6:139
 - authigenic carbonates, 164B29:289-290, 292-294
 - barnacle fragments, 178B27:1-8
 - basalts, 107B4:60-61, 67, 70; 115B5:55-56;
119B15:294-298; 121B30:569-573; 31:593;
123B10:207, 209, 212; 42:794; 127/
128B(2):57:901-903; 129B21:405-413;
130B1:10-20; 131B16:200, 205-206;
135B26:471-485; 28:505-517; 136B9:110-114;
152B40:491; 163B8:77-93; 10:113-117;
183A8:19; 183B1:13-14; 191B3:1-11
 - basement, 126B27:421-422, 426-427; 127/
128B(2):47:786-787; 49:807; 56:893; 79:1266
 - blue tuff, 127/128B(1):8:123, 127
 - Broken Ridge, 121A1:14
 - bulk samples, 192B3:16, 18
 - calcite, 115B34:636-637; 149B33:554
 - Campanian, 174AXS_A5:51
 - carbonates, 115B35:655; 126B32:489, 495;
133B33:489-498; 156B5:85-87, 92; 29:356;
166A3:28, 30
 - celestite saturation, 115B35:654
 - Chagos Bank, 115B34:634-636, 639
 - chimneys, 193B1:34, 37
 - chronostratigraphy, 174AXS_A4:29-30; 5:49-51;
6:57-58; 7:24-26, 63; 188B14:10-11
 - Coniacian, 174AXS_A5:50
 - continental radiogenic vs. mid-oceanic hydrother-
mal input, 117B27:459
 - covariation, 125B13:248-250
 - Cretaceous, 174AXS_A(summary):9-10
 - crustal contamination, 127/128B(2):49:809

- cumulate gabbros, 149B27:474–475, 484–485
dating, 134B3:47–48; 6:89–95
deep source, 125B36:610
diabases, 153B19:365, 367, 370, 376
diagenesis, 150B17:313–328; 192B3:4–7
dolomite, 143B11:163; 201B13:9–10
dolomitization, 133B52:769
Eocene, 174AXS_A5:49
Eocene–Oligocene interval, 119B48:881
extensional tectonics, 161B44:576
foraminifers, 117B27:461; 119B40:732–733;
152B17:233–241; 162B10:164; 17:242
gabbros, 118B6:129–133; 147B12:227–234;
153B6:109–110, 113, 115; 18:355–358; 27:471–
490
geochronology, 150X_B11:141; 14:172; 180B12:1–5
glacial–interglacial cycles, 117B27:462–463
glass shards, 126B30:461–462, 465
green tuff, 127/128B(1)36:644
gypsum-rich/gypsum-poor cycles, 107B1:23
hydrothermal alteration, 148B5:57–69; 169A3:39
hydrothermal mounds, 158B11:129–141; 22:297–309
igneous rocks, 129B35:653–669; 134B17:355;
205B1:13; 9:8–9
Indian Ocean W equatorial, 115B34:634–636, 638
Izu-Bonin forearc, 125B13:246–247
Kerguelen Plateau, 120B(1)2:39
lava, 121A15:529; 121B31:596–603; 183A1:7–8;
183B1:15, 26–27; 197B1:38
Maastrichtian, 174AXS_A5:50
Madingly Rise, 115B34:634–636, 638
mafic and ultramafic rocks, 153B10:184–185, 188
magmatic pile buffer, 118B6:137–138
magnetobiostratigraphic correlation, 119B40:736
Maldives Ridge, 115B34:634–636, 639
mantle, 187B1:12; 3:1–24; 209A1:81
Mascarene Plateau, 115B34:634–636, 638
mid-ocean-ridge basalts, 121A1:15; 187A1:3–5
Miocene, 133B33:489–498; 174AXS_A5:49
mollusk shells, 119B41:739–742; 46:837;
174AXS_A7:25
nannofossils, 121B1:925, 928–930
Nazareth Bank, 115B34:634–636, 638
Neogene, 119B46:829
Ninetyeast Ridge, 121B30:580, 924–925
noble metals, 115B7:82
ocean-island and spreading-ridge basalts, 121B31:599
oceanic anoxic events, 207A1:5
oceanic crust age, 185B1:14–15
Oligocene, 119B46:821; 150X_B8:82–85; 15:194
Oligocene/Miocene boundary, 119B40:736
Oligocene–Miocene interval, 150B6:97–114; 24:425–
428; 150X_B12:147–159
Owen Ridge, 117B27:459–463
Pacific Ocean W, 124B14:209–211
Paleogene, 119B46:830
periplatform sediments, 115B35:648–649
phyllosilicates, 176B1:6
planktonic foraminifers, 119B40:733–736;
120B(2)44:846
Pliocene–Pleistocene interval, 107B25:402–403
plutonic rocks, 153B15:308–312
pore water, 115B34:630–631; 119B41:740–741;
124B14:206; 125B23:398–399; 36:603, 606, 610;
127/128B(1)36:643–646; 129B14:267–281;
131B32:402–404; 133B31:473–480; 134B8:116;
135B42:679; 150X_B25:343–354; 152B25:293–
294, 300–301; 156B25:315–316; 29:354;
164B29:292–293; 166A3:35; 171B_B2:1–17;
174A_B2:1–11; 180B17:1–20; 193B4:4–6;
205B1:43; 5:5–7, 20
radiolarians, 150B3:44–46
Rajmahal Volcanic Formation, 120B(1)2:42
ratios, 102B9:130; 118B6:136; 127/128B(1)36:646;
146B(1)7:143; 10:182; 25:379
reaction zones, 137/140B13:147–150
reduced fluvial influx, 107B1:24
Réunion mantle plume eruption age, 115B5:59
riverine flux variation, 117B27:462
seawater, 118B6:137; 119B41:741–742; 48:881; 127/
128B(2)57:901; 208B1:19–20
secondary carbonate, 115B9:98
secular variations, 127/128B(2)57:899
sediment vs. pore water, 115B34:642
sedimentation rates, 174AXS_A5:50
sediments, 130B15:269–279; 131B34:423–424;
156B25:317; 162B17:238
shells, 174AX_A1:41; 174AXS_A6:104
shells and foraminifers, 174AXS_A1:45–46, 64; 2:40–
43, 71–72; 3:77
sills, 198B1:4
Site 739, 119B46:844
Site 744, 119B46:826–828
Site 756, 121B44:924–925
Site 794, 127/128B(2)57:901–903; 83:1339–1340
Site 795, 127/128B(2)57:901–903; 83:1338–1340
Site 797, 127/128B(2)57:901–903; 83:1339–1340
Site 799, 127/128B(1)34:614
sources, 119B19:391; 125B23:398–399
stratigraphy, 150X_A1:26; 174AXS_A1:45–46; 2:40–
43; 3:44–48; 192B3:1–19
Sulu Sea, 124B19:258–259
systematic variation, 118B6:132
temporal variations, 115B5:56
thermal regime, 127/128B(1)36:644
Turonian, 174AXS_A5:50
unconformities, 150B1:14
veins, 206B10:3–6
volcanic ash, 127/128B(1)34:607; 36:643
volcanic rocks, 126B26:387, 391; 134B19:383–401;
135B38:635; 152B29:351–357; 40:489–490
volcanism, 197B1:17
vs. age, 133B31:478; 48:717–718; 178B27:5;
192B3:13, 17; 197A1:31
vs. alteration, 147B12:231; 148B5:65; 10:144
vs. calcium, 127/128B(1)36:645
vs. carbon isotopes, 148B10:148
vs. depth, 130B15:274; 133B33:493–497; 134B8:122;
135B26:478; 137/140B13:145; 146B(1)7:144;
25:378; 148B5:61; 10:143, 146, 150; 34:423;
150X_B12:157; 25:349; 152B17:234–238;
25:301, 303; 153B6:116; 156B29:355;

- 158B22:303; 164B29:298; 168B9:107–115;
 171B_B2:13–14; 174A_B2:6; 174AXS_A(summary):32; 180B17:10; 191B3:7; 192B3:11–12;
 193B1:60; 7:11; 205A1:50; 205B1:43, 49; 5:19;
 208B1:53
- vs. distance, 187B3:17, 21
- vs. europium/europium ratio, 193B7:15
- vs. lanthanum/samarium ratio, 121B31:599, 608;
 193B7:15
- vs. lead isotopes, 121A15:529; 121B30:607; 127/
 128B(2)49:810; 136B9:114; 152B20:354;
 153B15:314; 192B1:16
- vs. loss on ignition, 153B6:113
- vs. magnesium, 127/128B(1)36:645
- vs. neodymium, 107B4:67; 152B40:490–491;
 187B3:19, 22
- vs. neodymium isotopes, 118B6:136, 140;
 121B30:578, 603; 127/128B(2)49:809, 812;
 135B26:478; 28:509; 29:528; 136B9:114;
 149B27:484; 153B15:311; 16:326; 18:358;
 19:368; 163B8:83, 87; 9:110; 187B1:29;
 191B1:5–6, 17; 3:9; 205B9:29
- vs. oxygen fugacity, 135B36:609
- vs. oxygen isotopes, 147B16:312; 148B5:65; 10:143,
 148
- vs. reciprocal strontium concentration (1/strontium),
 134B8:123; 156B5:95; 25:316; 171B_B2:15;
 193B7:15; 205B5:17
- vs. residue after leaching, 153B18:361
- vs. rubidium/strontium ratio, 136B10:123; 191B3:8
- vs. seamount age, 197B1:39
- vs. silica, 107B4:72
- vs. strontium, 148B10:148
- vs. strontium/neodymium ratio, 135B29:529
- vs. time for fracture-filling calcite, 149B33:557
- vs. zirconium/barium ratio, 135B29:529
- websterite, 153B16:325
- Yamato seamount chain, 127/128B(1)8:127;
 (2)49:812
- zeolites, 148B10:149
- strontium isotopes (clinopyroxene), vs. strontium iso-
 topes (plagioclase), 153B15:312
- strontium-lead isotope covariation, 125B13:252–253,
 259
- strontium-neodymium isotope covariation
- basalt sill, 125B16:306
- Izu-Bonin forearc, 125B13:259
- Mascarene Plateau, 115B6:67
- Nazareth Bank, 115B6:67
- Site 713, 115B6:67
- Site 715, 115B6:67
- strontium/neodymium ratio
- intersite differences, 121B32:637
- lava, 135B24:410
- Sulu Sea, 124B19:269
- vs. lanthanum content, 121B32:640
- vs. strontium-87/strontium-86 ratio, 135B29:529
- vs. titanium oxide/calcium oxide, 135B24:422
- strontium number. *See* strontium/strontium number ra-
 tio
- strontium oxide, carbonates, 168B11:139, 144
- strontium/strontium number ratio, 173B10:5
- strontium sulfate, vs. depth, 166A8:191
- strontium/sulfate ratio, 114B39:721
- strontium/ytterbium ratio, 125B28:491–492
- strontium/zirconium ratio, vs. magnesium oxide,
 197A5:71
- structural analysis
- basalts, 163B4:37–38
- bedding planes, 134A7:115
- cores, 141A6:98–99, 186–190
- deformation, 134B24:431–444; 141B2:13–26
- fault orientation, 135B20:318–323
- fluid flow, 170B3:3
- footwall fault block, 180B24:1–43
- Formation MicroScanner imagery, 152B37:442–445
- magnetism, 141A6:93–94; 141B5:75
- orientation measurement methods, 135B19:303–305
- photograph, 141A9:330
- remanence, 141A7:182–183
- rotations for reorientation, 141A6:106, 109; 7:191,
 202
- Site 827, 134A7:116
- Site 828, 134A8:158
- Site 829, 134A9:206, 208–214
- Site 830, 134A10:281
- Site 832, 134A12:419–420
- Site 833, 134A13:508–509
- Site 834, 135A(1)4:109–112
- Site 835, 135A(1)5:201–203
- Site 836, 135A(1)6:260
- Site 837, 135A(1)7:305–306
- Site 838, 135A(1)8:357–360
- Site 839, 135A(1)9:418–419
- Site 840, 135A(1)10:520–523
- Site 841, 135A(1)11:598–602
- Site 859, 141A6:100–105
- Site 861, 141A8:264–268
- Site 862, 141A9:326–327
- Site 863, 141A10:378–387
- Site 889, 146A(1)5:170–172
- Site 891, 146A(1)6:260–261
- Site 892, 146A(1)7:327
- sonar imagery, 135B23:373–382
- stress, 134B34:591–606
- vs. depth, 141A10:377
- structural contours
- décollement zones, 156A1:10
- lithology, 152B3:30–36
- structural controls, gas hydrates, 204A1:9
- structural data
- basement, 173A6:150; 7:203
- cores, 141A6:186–190
- lava flows, 163B2:20
- Formation MicroScanner imagery, 173A4:98
- measurements, 173A4:89–90; 6:143
- normal faults, 160B49:647–649
- rotations, 141A7:191, 202
- Site 859, 141A6:100–105
- Site 861, 141A8:264–268
- Site 862, 141A9:326–327
- Site 863, 141A10:378–387

- Site 889, 146A(1)5:170–172
Site 891, 146A(1)6:260–261
Site 892, 146A(1)7:327
Site 963, 160A4:74–75
Site 964, 160A5:107–108
Site 965, 160A6:137
Site 966, 160A7:181–182
Site 967, 160A8:245
Site 968, 160A9:305–307
Site 969, 160A10:359–360
Site 970, 160A11:391
Site 971, 160A12:432
Site 972, 160A13:459
Site 973, 160A14:482
Site 990, 163B4:37–40
Site 1035, 169A3:103
Site 1036, 169A4:171
Site 1037, 169A5:217
Site 1038, 169A6:273
See also deformation
- structural domains
- accretionary prisms, 131A6:110–111; 134B23:417–429; 141B1:3–4; 2:15–21
 - acoustic anisotropy, 156B8:115–123
 - bedding, 170A5:162
 - broken formation, 141A7:209
 - claystone, 170A5:162
 - cores, 156A6:114–127
 - décollement zone, 170A7:226
 - deformation, 149A4:83–88
 - demagnetization, 141A8:261
 - dip, 146A(1):259
 - distribution, 131A6:126; 141A10:372
 - lithology, 141A6:94–99, 105–108; 146A(1)5:167–169; 170A4:115–116
 - magnetic anisotropy, 146B(1)14:237, 240, 243, 247, 252, 254
 - offshore sections, 146A(1)10:405
 - photograph, 170A4:115; 5:163
 - sedimentary wedge, 170A4:109–115; 7:223–226
 - sediments, 141B11:154
 - serpentinites, 153B1:14–16
 - siltstone–sandstone, 170A5:162
 - Site 860, 161A7:185–202
 - Site 891, 146A(1)6:258–261
 - Site 892, 146A(1)7:324–331
 - Site 1116, 180A10:12–14
 - Sites 888–892, 146A(1)9:391–392
 - Sites 889–890, 146A(1)5:173
 - stereonet projections, 131A6:141–143, 145–147
 - structures, 180A5:20–23; 6:38–42; 8:20–26; 9:29–31; 10:12–14; 11:7–8, 22; 12:28–30
 - underthrust section, 170A4:113–115; 7:226–227
 - volcanic pile rotation, 129B24:448
 - vs. depth, 141A6:105; 7:185; 8:263; 180A5:66; 6:136, 138; 11:22
- See also* deformation
- structural features
- photograph, 141A9:330
 - remanent magnetization, 153B32:547–559
 - stereographic projections, 190A9:41, 44
- vs. depth, 141A10:377; 156A6:115; 7:214, 222–225
- structural geology
- Barbados Ridge N, 156B22:279–292
 - basement, 206A3:73–80
 - Formation MicroScanner imagery, 180B25:1–159
 - Nankai accretionary prism, 131A7:276–277, 284
 - oceanic crust, 131A2:16–18
 - regional setting, 133A(1)1:8
 - Site 504, 140A2:82–88, 90–92, 94–102, 123–124
 - Site 735, 176A1:18–22; 3:54–69
 - Site 808, 131A6:109–121; 196A1:9–10; 4:2–3
 - Site 859, 141A6:94–95, 97–109
 - Site 860, 141A7:183, 185–202
 - Site 861, 141A8:262–268
 - Site 862, 141A9:321–325
 - Site 863, 141A10:369–372, 374, 377–387
 - Site 888, 146A(1)4:77–78
 - Site 889, 146A(1)5:166–176
 - Site 890, 146A(1)5:166–169, 173–176
 - Site 891, 146A(1)6:258–263
 - Site 892, 146A(1)7:324–331
 - Site 897, 149A4:83–93
 - Site 899, 149A6:182–189
 - Site 900, 149A7:236–241
 - Site 920, 153A3:92–106
 - Site 921, 153A4:158–167
 - Site 922, 153A5:204–209
 - Site 923, 153A6:244–251
 - Site 924, 153A7:267–271
 - Site 959, 159A5:96–101; 159B21:212
 - Site 960, 159A6:184–188
 - Site 961, 159A7:238–241
 - Site 962, 159A8:277–281
 - Site 963, 160A4:63–64
 - Site 964, 160A5:104–106
 - Site 965, 160A6:136
 - Site 966, 160A7:179–182
 - Site 967, 160A8:234–235, 238–242
 - Site 968, 160A9:304–310
 - Site 969, 160A10:357–362
 - Site 972, 160A13:458–459
 - Site 973, 160A14:481–484
 - Site 974, 161A4:80–81
 - Site 975, 161A5:141–142
 - Site 976, 161A6:209–212, 217–223, 230
 - Site 977, 161A7:316, 318
 - Site 978, 161A8:373–374
 - Site 979, 161A9:399, 401
 - Site 988, 163A3:26–27
 - Site 989, 163A4:36–37
 - Site 990, 163A5:54–55
 - Site 1035, 169A3:102–103, 106–112
 - Site 1036, 169A4:169
 - Site 1037, 169A5:216–217
 - Site 1038, 169A6:272–273
 - Site 1039, 170A3:60–61
 - Site 1040, 170A4:108–116
 - Site 1041, 170A5:162
 - Site 1042, 170A6:197, 199
 - Site 1043, 170A7:223–227
 - Site 1065, 173A4:84–87

- Site 1067, 173A6:135–148
- Site 1068, 173A7:196–203
- Site 1069, 173A8:249–251
- Site 1070, 173A9:285–290
- Site 1108, 180A5:19–24
- Site 1109, 180A6:38–43
- Site 1114, 180A8:20–26; 180B24:1–43
- Site 1115, 180A9:28–31; 180B25:15–19
- Site 1116, 180A10:12–14
- Site 1117, 180A11:7–8
- Site 1118, 180A12:28–30; 180B25:5–14
- Site 1136, 183A4:22–23
- Site 1137, 183A5:43–45
- Site 1138, 183A6:52–53
- Site 1150, 186A4:60–65
- Site 1151, 186A5:37–40
- Site 1155, 187A6:7–8
- Site 1156, 187A7:8–9
- Site 1157, 187A8:9
- Site 1160, 187A11:10–11
- Site 1162, 187A13:12
- Site 1163, 187A14:6
- Site 1173, 190A4:9–11, 115; 196A1:6–7; 3:2–3
- Site 1174, 190A5:10–14, 48, 112
- Site 1175, 190A6:9–10, 35–39, 75
- Site 1176, 190A7:7–8, 31–33, 66
- Site 1177, 190A8:9–10
- Site 1178, 190A9:9–11, 37–40, 80–87
- Site 1183, 192A3:32
- Site 1185, 192A5:17–18
- Site 1188, 193A3:58–65
- Site 1189, 193A1:19–20; 4:41–46
- Site 1191, 193A1:22–23; 6:7–8
- Site 1200, 195A3:52–56
- Site 1253, 205A1:19; 4:4–5, 35–36
- Site 1254, 205A1:28–30; 5:3–5, 20–22
- Site 1255, 205A1:34; 6:2, 11
- Site 1268, 209A1:20–21; 3:20–33
- Site 1270, 209A1:28–30; 5:21–34
- Site 1271, 209A1:38–39; 6:18–27
- Site 1272, 209A1:43–44; 7:11–20
- Site 1274, 209A1:51–52
- Site 1275, 209A1:62–63; 10:17–22
- Site 1276, 210A3:70–73
- Southern Ocean 179A4:48–57
- well-logging, 180A6:147
- structural logs
 - Site 504, 140A2:172–180
 - Site 828, 134A8:162
 - Site 830, 134A10:286–288
 - Site 832, 134A12:428–429
 - Site 833, 134A13:512–513
 - Site 948, 156A6:108–129
 - Site 949, 156A7:205–215
 - vs. depth, 153A3:102, 105; 4:163, 166; 163A5:56
- structural maps
 - Hydrate Ridge, 204B3:14
 - sequence boundaries, 174A_A3:86
- structural measurements, summary, 156A6:118–126
- structural orientation
 - cores, 141A6:98–99
 - domains, 141A10:372
 - magnetism, 141A6:93–94; 141B5:75
 - remanence, 141A7:182–183
 - rotations, 141A6:106, 109
- structural sections, offshore, 146A(1)10:405
- structural style
 - landward vergent, 204B3:1–8
 - lithology, 141A6:94–99, 105–108
 - seaward vergent, 204B3:1–8
 - vs. depth, 146A(1)6:258
- structural subdivisions, seismic reflection, 190A2:3–5, 13
- structural units
 - Site 832, 134A12:419–420
 - Site 833, 134A13:508–509
 - See also tectonic units
- structural vergence, variation summary, 204B3:15
- structural zones
 - age constraints, 204B3:4–5
 - Sulu Sea, 124A5:87–88; 11:221–222
- structure contour maps
 - basement, 188A1:35
 - Neogene, 150B14:272–273, 275–277
 - top of Lower Cretaceous, 188A1:36
- Structure I hydrate, gas hydrates, 204B1:14–15; 15:8–9
- Structure II hydrate, gas hydrates, 204B15:9
- structure profiles, channels, 155A3:42–43
- structures
 - anhydrite veins, 193A3:215
 - cross section, 180B2:19
 - data, 190A4:115–119; 5:112–120; 7:66–67; 8:71–72; 9:80–87
 - décollement zone, 170A7:229; 170B3:31; 190A1:8; 205A6:35
 - deformation, 186A5:122; 209B1:11–15
 - derived from traveltimes, 174A_A3:85–86
 - dip, 206A3:287, 289
 - electrical logs, 152B37:439–451
 - fluid flow, 169B9:6–9; 170B3:1–32; 4:1–11
 - gabbros, 176B(synthesis):25–26; 11:28–29; 179A4:48–50; 179B(synthesis):34–35; 205A4:36
 - gas hydrates, 164A4:47–48; 164B2:16–20; 204B1:14–15; 21:1–11
 - geometry, 180A8:83
 - Hess Deep, 147B32:515–529
 - kinematic evolution, 170B3:10–12
 - lava flows, 183A6:52–53
 - magnetic field, 179A4:56
 - maps, 189A1:74
 - metasedimentary rocks, 152B10:129–131
 - mud volcanism, 160B50:669–670
 - orientation, 180B25:38–39, 42, 47, 49, 54, 65, 68–73, 78, 93, 96–101, 104–105, 108; 186A4:63; 206A3:80; 209A3:31–32
 - peridotites, 147B19:347–356; 209A1:8–10
 - reorientation, 147A3:87–88; 206B11:1–26
 - resistivity-at-the-bit, 209A10:144
 - rose diagrams, 206A1:98; 3:288, 290
 - sediments, 159B9:83–87; 160B47:612–617; 183A5:46–47; 205A4:35–36; 5:104–106
 - seismic profiles, 168B2:14–15
 - seismic units, 204B2:7–8

- sheeted dike complex, 148B16:229–243
- Site 504, 148A2:60–61, 63–68
- Site 795, 127/128B(1)30:542
- Site 894, 147A3:79–88
- Site 895, 147A4:138–143
- Site 896, 148A3:151–158
- Site 1044, 171A_A3:29–31
- Site 1045, 171A_A4:45–46
- Site 1046, 171A_A5:63
- Site 1047, 171A_A6:85
- Site 1048, 171A_A7:100
- spreadsheets, 176A1:39–43
- stereoplots, 176A1:64–65
- stress magnitudes, 196A1:12
- summary, 170A4:109–110; 5:164–165; 7:228;
171A_A3:31; 179B(synthesis):1–125; 180A8:67;
9:95; 10:43; 12:96; 180B24:14, 38
- thickness, 157B16:274; 180A12:182
- veins, 169B9:1–25; 193A1:15; 206A1:32–33
- volcanic ash, 162B16:218, 221–222
- volcanic oceanic plateaus, 192A1:4–6
- vs. depth, 205A5:64; 205B1:44; 206A1:96–97; 3:257–
258
- well-logging, 148A2:120; 3:191; 196A3:22–23; 4:18–
22
- within clasts, 160B45:583–584
- X-ray imaging, 210B6:1–21
- See also* glaebules; lobate structure; microstructures;
oncooids; phacoids
- structures, “atoll-like,” photomicrograph, 200A3:89
- structures, biscuit, Site 738, 119A7:237
- structures, blocky, microstructures, 146B(1)12:207
- structures, brittle
 - dip vs. expanded depth, 209A5:125
 - gabbros, 179A4:9, 54–56
 - geometry, 131B8:109
 - massifs, 179A4:56–57
 - sediments, 210A3:29
 - Site 794, 127/128B(2)75:1181–1183
 - Site 798, 127/128B(2)75:1181–1182
 - Site 799, 127/128B(2)75:1182–1183
- structures, brittle-ductile, photomicrograph, 206A3:264
- structures, cockade, photomicrograph, 193A4:143
- structures, compressional bedding-parallel, 159A8:279
- structures, core-scale, deformation, 190/196B1:4–5
- structures, crenulated, photograph, 164A5:72
- structures, crystal-plastic
 - gabbros, 179A4:9, 47–48
 - peridotites, 153B2:28–29
- structures, deformation
 - breccia, 173A4:197–201
 - dip, 210A3:71–73
 - lithology, 171B_A5:181–183; 173A4:197; 210A3:71–
73
 - photograph, 169A3:61
 - vs. depth, 190A5:48–49; 9:37; 210A3:256
- structures, ductile
 - massifs, 179A4:56–57
 - photomicrograph, 206A3:264
- structures, frond-like, photomicrograph, 193B9:21
- structures, gravity-induced, 127/128B(2)75:1175–1176
- structures, growth, ferromanganese crusts, 194B8:6–7
- structures, millipede, photomicrograph, 161B20:285
- structures, moat
 - faults, 160B38:500–501; 53:716
 - seamounts, 160B51:691–692
 - sedimentation, 152B1:8–17
- structures, mosaic
 - microstructures, 146B(1)12:207
 - photograph, 146B(1)12:216
- structures, ovoid, photomicrograph, 193A4:160–161
- structures, pillow, photograph, 191A4:95
- structures, planar
 - azimuthal variations, 134A9:241
 - borehole televiewer, 134A11:358
 - Formation MicroScanner imagery, 134B34:593
 - measurement methods, 135B19:303–305
 - number, 180B25:113
 - orientation, 180B24:24; 25:33, 60, 88
- structures, plumose, photomicrograph, 193B6:13
- structures, pop-up
 - compression, 159B1:6–7
 - faults, 159B2:17
 - microfolds, 159A8:279; 159B2:23
 - photograph, 159B2:22
 - stages, 159B11:104–105
 - structure, 159B2:17
 - superimposed to extensional structures, 159B2:23
- structures, primary, turbidites, 139B7:106–107
- structures, pull-apart
 - clinopyroxene phenocrysts, 140A2:110
 - photograph, 137/140B20:235
- structures, quench
 - basalts, 121A12:392
 - Ninetyeast Ridge, 121A15:523
 - pillow basalts, 121A12:391
- structures, sag
 - hemipelagic origin, 146A(1)7:317–318
 - photograph, 146A(1)7:320
- structures, shear, basalts, 206A3:74–75
- structures, “spirit-level,” lithology, 173A8:238
- structures, tubular-cylindrical, décollement, 131B32:406
- structures, variolitic, petrology, 209A8:2
- structures, weblike
 - brecciated zone, 190/196B9:3
 - photograph, 190A1:75; 6:39; 9:40, 45
 - sediments, 190A6:10
- structures, wrinkle-like, photograph, 206A3:272
- struvite, sulfate–methane transition, 201B5:9
- Stylidiaceae, palynomorphs, 188B3:16
- stylolites
 - diagenesis, 130B39:657
 - fissures, 103B8:114
 - Galicia margin W, 103B8:126
 - genesis, 130B26:445–451
 - limestone, 130A9:395
 - lithofacies, 143B30:474, 486–488
 - lithology, 103B10:160–161; 173A8:228–234
 - metasediments, 173A8:249–250
 - origin, 160B45:587
 - photograph, 181A7:68; 210A3:155, 178, 260
 - photomicrograph, 161A5:131

- sediments, 130A9:385; 161A5:141
 underthrust section, 170A4:114–115
See also microstylolites; protostylolites
 stylolites, pressure solution, photograph, 192A3:58
 stylolitization
 deformation, 170A3:60
 wackestone, 143A7:197
 subaerial deposits, chemical stratigraphy, 157B15:243–245, 256
 subaerial emplacement, lavas, 183A9:22; 183B1:20, 28
 subaerial environment, deposition, 192A4:10
 subaerial exposure
 alkaline basalts, 144B28:487
 atolls, 144B14:286–289
 carbonates, 144B23:436
 clay mineralogy, 144B26:466
 Cretaceous, 143B9:120
 diagenesis, 144B46:795–796, 806–808
 Maastrichtian, 144B45:784–785
 outer perimeter ridges, 144B15:303–304
 pedogenesis, 144B51:908–909
 petrology, 144B29:499
 vadose environment, 144B48:864
 volcanic substrate, 144B12:238; 53:943
 well-logging, 144B17:343–344
 See also weathering
 subaerial growth, islands, 157A2:14, 19–22
 subaerial volcanic environment, 183A6:10, 46
 subantarctic environment, biostratigraphy, 189A6:27
 subaqueous environment, lithology, 161A5:131
 subarkose
 photograph, 149A4:62
 lithology, 180A10:9
 subbotinids
 Atlantic Ocean S subantarctic, 114A6:170
 vs. depth, 198B9:15
 subchrons. *See* chrons
 subducting slabs
 coupling with overlying plate, 186B1:5–6, 8–10
 thermal structure, 186B1:7
 subduction angle, volcanic front, 186B1:6, 10
 “subduction factory”
 models, 185A1:35; 185B1:33
 nitrogen flux, 205B7:12–13
 seismogenic zones, 205A1:5–6; 205B1:13–14, 28–29
 volcanic ash, 191B1:5
 subduction flux, fluid flow, 205B1:1–54
 subduction rates, accretionary wedges, 146A(1)8:381–386
 subduction recycling, geochemistry, 205B1:23–24
 subduction zones
 accretionary prisms, 141B29:371
 accretionary wedges, 146A(1)8:381–386
 acoustic anisotropy, 131B18:223–225
 active ridge crust, 125B38:648–649
 African plate, 160A1:5–6
 amphibole-bearing boundary layer, 125B38:643–644
 biosphere, 195A1:7
 boninite genesis, 125B38:623, 648–650
 Borneo, 184A1:4
 calcareous nannofossils, 205B14:1–26
 Cascadia subduction zone, 204B1:3–5
 Celebes Sea, 124A10:124; 124B1:3, 59; 30:399–400
 Cenozoic, 178B(synthesis):4–5
 Central America, 205A1:1–3
 chronostratigraphy, 130B25:432
 Cocos plate, 170A1:7
 collisions, 141A2:12, 14, 17–20
 conceptual models, 134B35:614
 CORK-II, 205A2:1–36
 coupling with overlying plate, 186B1:5–6
 crust, 160B51:694; 52:705–706
 dating, 180B2:11–13
 deformation, 186A1:15–16
 dewatering, 134B34:605; 146B(1)15:264–265
 diagenesis, 156B3:27
 dip, 134A8:165
 earthquakes, 135B55:886
 enrichment, 135B3:41
 evolution, 131A2:18–19; 134A14:576; 180A3:3–6
 fluid flow, 131B32:397–413
 forearcs, 125B36:610; 195B1:3–5; 4:2–3
 geochemistry, 135B24:406; 38:631–632; 52:838; 170A1:13–14; 185B1:13–17
 geology, 160A10:337; 178B8:4–5; 190/196B1:2–4; 193A1:3–5; 196A1:3–4
 geometry, 186B1:8
 geothermal gradient, 131B28:344–345; 141B4:56
 guyots, 134A2:29–30
 hot lithosphere, 125B38:649–650
 hydrothermal circulation, 168A1:7–10
 hydrothermal traces, 141B7:103
 Indian Ocean, 120B(2)62:1079
 initiation, 125B38:623, 629–631, 648–550
 island arcs, 134A1:5–18; 135B12:173–188
 Izu-Bonin arc, 126A1:6
 Izu-Bonin vs. Mariana arcs, 126B42:629–630, 647
 Izu-Mariana subduction system, 185A1:1–63
 lineaments, 160B52:705–706
 Lower Cretaceous, 185A1:20–28
 magmas, 135B29:530
 magnetic polarity reversal, 134B2:22, 25, 30; 35:610
 mantle, 187B3:10
 marginal basins, 124B3:46
 mass transfer, 125B21:373; 185B11:1–14
 mechanisms, 135B24:425
 Miocene, 160B54:758–759, 775; 161B27:357–373; 180B(synthesis):4, 7–8
 moats, 160B38:500–501
 movement, 160A1:5–6; 160B54:770–776
 mud volcanoes, 160B48:641–642; 50:671
 multichannel seismic reflection, 131A2:16–18
 New Hebrides island arc, 134B2:22–29; 23:418–420
 Northeast Georgia Rise, 114B2:34, 37
 oceanic crust, 107B38:660; 134A2:19
 Pacific Ocean W, 124A3:35; 127/128B(2)83:1333–1334
 Pacific plate, 190A1:2
 paleogeography, 160B50:672–673
 plate tectonics, 130B43:705–706; 131A7:281–282; 167A(1)1:8; 186B1:1–27; 201B19:3
 pore water loss, 131B17:211–220; 34:423–425

- Quaternary, 134A3:33, 39–41
 rates of movement, 135B1:3–5; 20:327–328
 seamounts, 134B3:48–52
 sediment recycling, 145B24:385–386
 sedimentation, 131B26:323–324; 134B5:86–87;
 135B53:843–855; 141B31:394–396; 190/
 196B1:8–9
 sediments, 131B11:151–152; 19:235; 146B(1)27:409
 seismogenic zones, 205A1:5–6
 serpentine mud, 195B5:1–18
 sinking lithosphere, 135B38:643
 Site 698, 114A5:96
 Site 701, 114B40:740
 spreading centers, 135B18:298
 stress, 134B32:569
 structural setting, 170B4:2–3
 sulfur cycling, 129B15:292–293
 Sulu Ridge, 124A3:39
 Sulu Sea, 124A5:88; 11:198–199; 124B4:56, 71
 tectonics, 124A1:5; 146B(1)23:359–360; 160B54:763–
 764; 178A1:4; 2:7–9
 terranes, 146A(1)1:5–7
 thermal regime, 125B21:384; 146A(1)10:410–411
 thrust horizontal displacement, 131A7:281
 trenches, 186A1:1–37
 turbidite sedimentation, 124B1:7
 Tyrrhenian Sea, 107B38:639–640
 uplifts, 160B51:689–690
 volatiles, 195B6:9–10
 volcanism, 124B34:464–465; 165A6:309; 8:388;
 185B1:17–18
See also accretionary prisms
 subduction zones, intraoceanic, backarc basins,
 193A1:3–5
 suberinite
 coal, 180B10:10–11
 macerals, 180B10:8–9
 photomicrograph, 180B10:24–27, 31–32, 35
 sediments, 143B12:183–184
 subglacial deposits
 deposition, 178A6:7–8, 18
 seismic facies, 188B8:7; 14:9
 subglacial flux, deposition, 178A9:9
 subglacial transport. *See* transport, subglacial
 subgreenschist facies, metasediments, 173A8:246–249
 submarine canyons
 continental margin, 155A1:5–8
 deposition, 134A7:107–108
 excavation, 150B11:217–220
 middle Miocene, 150B15:283–292
 Neogene, 150B14:274, 279–280
 sediment supply, 181B1:58–59
 sedimentation, 150B12:236–237; 161B3:50
 Site 747, 120B(2)47:888
 submarine emplacement
 ash fall layers, 157B14:211–212; 16:268
 igneous provinces, 192B1:6
 melting, 192B1:9
 submarine environment
 eruptions, 183A8:19
 hydrothermal activity, 183B1:19
 lava flows, 183A9:22
 lithology, 183A1:29
 submarine erosion, lithology, 210B9:14
 submarine failures, mass transport deposits,
 155B28:465–475
 submarine fans
 continental margin, 150B20:372–373, 375
 deposition, 143A9:313
 gravity deposits, 133B27:404
 lithology, 161A8:362
 rift-to-drift models, 210B2:11
 Toyama Deep Sea Fan, 127A1:16
 submarine plateaus, deposition, 207A9:2
 submarine slides
 accretionary complexes, 204A11:7–9
 tectonics, 160A4:56
 submarine valleys, Izu-Bonin forearc, 126A9:322
 submergence
 reefs, 134B3:53
 seamounts, 160B51:691
 sedimentation, 143B31:526
 volcanic edifices, 144B12:238; 17:341–342; 18:366
 volcanism, 134A3:38
 well-logging facies, 144B17:343–344
 submersible dives
 deformation observations, 134A4:43–53; 209A1:4
 geomorphology, 153B1:7–13
 intersection massif, 153B4:64–69
 transform faults, 159A1:6–9; 3:52–53
 submillennial-scale variations, stratigraphy, 184B2:6–7
 subophitic texture. *See* textures, subophitic
 suborbital cycles, sediments, 167B22:257–260
 suboxic environment
 ferromanganese crusts, 144B44:751, 759–760
 lithology, 189A3:19–20
 normal gray basalt, 192A6:19
 pore water, 177A9:13
 suboxic sedimentation. *See* sedimentation, suboxic
 subpolar fauna
 assemblages, 164B34:358
 planktonic foraminifers, 139B2:49–50; 161B35:449,
 451–452, 454
 subsea hardware, design, 142A6:115–203
 subseafloor reflections
 3.5-kHz amplitude, 200A1:17–18, 58–59; 3:45–48;
 4:8–9, 55–56, 151; 200B1:5–6
 4-kHz amplitude, 200B6:17
See also echo sounders; seismic reflection surveys
 subseafloor samples, cultivation, 201B3:6–7
 subsections, sampling, 201A6:47–48; 7:49–50; 8:40–41;
 9:40–42; 10:42–43; 11:55–57; 12:35–36
 subsidence
 age, 120B(1)5:75; (2)52:945; 161B44:577
 Australian margin, 123A1:3; 123B37:693–695, 701
 backstripping analyses, 101B28:440, 443
 Baffin Bay, 105B52:997–998
 Bahamas, 101B28:440
 basin formation effects, 123B37:697
 benthic foraminifers, 189A6:33
 Broken Ridge, 121B10:229
 Campanian, 159B11:106

- Cenozoic, 182A1:3
 clay mineralogy, 189A3:16–17
 collisions, 160B39:509–515; 53:719
 continental margins, 152A13:282–283; 159B11:102;
 178A1:4; 189B1:4
 continental shelf, 152A10:174
 Cornaglia Terrace, 107B38:718
 Cretaceous, 129B32:579; 143B9:126; 31:526
 crust, 181A5:37; 6:72
 cyclic processes, 159B12:120–121
 De Marchi Seamount, 107B38:722
 deposition, 133A(1)5:168–171; 160A6:130–132;
 189A6:19–21
 early Paleogene, 183B7:8–9
 Eocene–Oligocene transition, 189B1:13, 20
 evolution, 161B44:574
 extension relationship, 107A10:749
 fault control, 127/128B(2)83:1344
 flexure-induced subsidence, 160B51:692
 focusing, 126B38:566
 forearcs, 125B4:77; 14:271; 127/128B(2)76:1213
 Galicia margin W, 103A1:3, 12; 5:84
 gateways, 189B1:15–19
 geohistory and backstripping, 127/128B(2)76:1199–
 1201
 Gioia Basin, 107B38:721
 grain size changes, 107B15:242; 121B8:214
 Greenland-Iceland-Faeroe Ridge, 105B52:1006
 guyots, 144B2:39, 42–44; 5:114–116; 7:148, 152;
 33:577–578; 44:748; 52:916–918, 927–929
 history, 107A1:7; 126A1:8; 133A(1)4:117;
 135B12:173–188; 53:847–849; 186A1:9, 23;
 199A1:63
 Indian Ocean, 123B37:693
 Islas Orcadas Rise, 114A9:514–515; 114B1:20–21
 Izu-Bonin forearc, 125A9:199; 125B38:630
 Japan Sea, 127/128B(2)76:1209–1214; 83:1343–1344
 Jurassic curves, 129B32:579
 Kerguelen Plateau, 120B(1)23:407; (2)47:892; 52:945–
 949
 late Miocene, 180B(synthesis):8–10; 7:18–20
 Liassic, 103A5:84
 limestone, 143B31:514–515
 lithology, 123B37:684–687; 183A7:8
 Lower Cretaceous, 143B31:513
 magnetic lineation correlation, 123B36:667–668
 margins, 152A1:15
 Marsili Basin, 107B38:722
 Mascarene Plateau, 115B13:123–126
 mass flow deposits, 160B37:479–480; 38:504
 Meteor Rise, 114A11:687; 114B1:20–21
 Mid-Atlantic Ridge SW, 114A8:411–412
 Miocene, 107B38:717
 Miocene–Pleistocene interval, 180A1:5
 Miocene–Pliocene interval, 107B38:725
 Nazareth Bank, 115B13:123–126
 Ninetyeast Ridge, 121A15:525
 ocean plateaus, 183A1:18–19
 Oga Peninsula, 127/128B(2)76:1202–1205
 Oman margin, 117B5:139
 onshore sections and offshore wells, 127/
 128B(2)76:1201–1202
 Ortegá Spur, 103A7:114
 paleobathymetry, 127/128B(2)76:1200–1201;
 133B6:75–92
 paleodepth, 199B1:36
 paleoenvironment, 160B38:500; 183A1:25–26
 passive margins, 159A7:234
 pelagic cap deposition, 121B37:753
 plateau origin, 120B(1)5:71
 platform drowning, 133A(1)9:311; 144B6:132–134
 Pleistocene, 107B38:718, 726
 Pliocene, 107B38:723–724; 180B(synthesis):10–12
 Pliocene–Quaternary interval, 160A17:518–519
 Pohang Basin, 127/128B(2)76:1205–1206
 Raggatt Basin, 120B(1)9:129–130
 rates, 127/128B(2)76:1200, 1211–1213
 reefs, 133A(1)1:25
 rifting phases, 210B1:6
 rifts, 152B41:517–518; 180A1:8–9, 17–18
 Sakhalin Island, 127/128B(2)76:1206–1207
 Sardinian margin, 107A8:410; 10:784, 785; 107B1:17;
 38:651
 sea level changes, 133B52:767–768; 194A1:6–7
 seamounts, 143A2:26; 160B51:689–690
 sediment loading effects, 127/128B(2)76:1211
 sedimentary basins, 173A1:7
 sedimentary cover, 161B44:561–562
 sedimentary evidence, 135B20:326–328
 sedimentary section curves, 135B12:183–185
 sedimentary sequences, 161B5:69–76
 sedimentation, 117A11:340; 180A1:7; 185A4:18
 sediments, 180B6:18–24
 seismic profiles, 166A1:8
 seismic stratigraphy, 107B1:22
 Site 698, 114A5:117–118, 122
 Site 699, 114A6:198–199
 Site 700, 114A7:305–307
 Site 713, 115B13:123–126
 Site 715, 115A12:918; 115B13:123–126
 Site 738, 119A7:280; 119B10:194
 Site 747, 120A6:146, 150–151; 120B(2)47:882
 Site 748, 120A7:230–231; 120B(1)1:24; (2)48:900
 Site 750, 120B(1)1:27
 Site 865, 143B31:518, 520
 Site 918, 152A11:224–225
 subduction zones, 107A2:21
 tectonics, 149B39:627–629; 160B52:704; 161B26:350–
 354; 194A1:5
 Tertiary, 133A(1)1:16
 thermal conductivity, 120A7:219
 thermal loading, 127/128B(2)83:1344
 Tortonian, 107B1:12
 transfer zones, 126B38:564
 transform margins, 159B1:10; 11:107–108
 trenches, 186A1:1–37
 Tsushima Basin, 127/128B(2)76:1207
 Turonian–Eocene interval, 121A13:499
 Tyrrhenian Sea, 107B38:722
 volcanic substrate, 144B12:238; 45:782–783
 volcanism, 183A1:36–38; 183B1:16–18, 27, 48

- vs. age, 183B7:20
- vs. time since emplacement, 183B1:48
- subsidence, differential
 - Miocene, 133B27:393–394
 - tectonics, 126A7:155; 126B14:227–228; 38:559; 42:646
- subsidence, postbreakup, crust, 152A13:291–292
- subsidence, postrift
 - drilling objectives, 149A1:10
 - processes, 107B38:718
- subsidence, posttectonic, 159B9:81–91
- subsidence, thermal
 - Australian NW margin, 123B41:789
 - guyots, 144B33:577–578
 - Neogene curves, 121A13:469
 - ocean crust carbonate content, 124B33:449
 - post-Gondwana, 181B1:4–5
- subsidence, total tectonic
 - cross sections, 149B39:631–633
 - crustal extension, 149B39:628–629
 - reflectors, 173A1:11
 - vs. time, 149B39:629
- subsidence, water-loaded, tectonics, 194A1:64
- subsidence curves
 - Cenozoic, 161B5:74
 - Lower Cretaceous, 143B31:513
 - Site 865, 143B:518
- subsidence processes
 - pre- vs. postrift, 121A4:87–89
 - syndepositional, 126B38:562
 - synrift, 107B38:718
- subsidence rates
 - Cretaceous, 143B9:126, 526
 - limestone, 143B31:514–515
 - Site 865, 143B31:520
- subsolidus
 - deformation, 153B6:106
 - veins, 153B9:171
 - See also* textures, subsolidus
- substitution, iron-magnesium, amphiboles, 129B17:314
- subsurface water
 - carbon isotopes, 202B12:21–22
 - Pacific Ocean equatorial, 138B13:290–292
- subthermocline depth, Miocene/late Miocene carbonate crash, 165A8:382–383
- subtidal environment, Cretaceous, 143B10:141–148
- subtidal facies, Cretaceous, 143B9:120
- subtrachytic texture. *See* textures, subtrachytic
- subtropical currents, sedimentation, 189A1:34
- subtropical environment
 - lithology, 194A4:10–11
 - paleoenvironment, 181A7:26
 - planktonic foraminifers, 182B3:14; 189B10:3
- subtropical fauna, monsoon, 184A1:12
- subtropical flora, Quaternary, 189B3:7
- Subtropical Front, 181B1:37–38
- subtropical gyre
 - circulation, 154B18:278–282
 - faunal assemblages, 164B34:358
 - See also* ocean circulation
- subtropical-tropical fauna, 161B35:449, 451–452, 454
- subtropical water; Neogene, 189B1:16
- subvariolites, petrography, 168B10:120–121
- subvariolitic texture. *See* textures, subvariolitic
- sudoite, hydrothermal alteration, 210A3:57
- sugars
 - biomarkers, 159B43:598
 - vs. depth, 159B43:597
 - See also* fructose; glucose; glucose/fructose ratio; polysaccharides
- sulcoperculinids, abundance in carbonates, 144B9:178, 180, 182, 184, 186
- sulfate
 - alteration effects, 126B29:451–452
 - ammonium anticorrelation, 119B19:380, 385
 - authigenic minerals, 144B51:900
 - availability, 107B8:118; 160B20:254
 - Baffin Bay, 105A4:103–104
 - Barbados Ridge, 110A1:22; 6:334–335; 415, 418–419; 8:495–496; 9:525, 528–529; 110B11:158–160
 - barite front development, 127/128B(1)36:637
 - barite precipitation, 123B41:786
 - Broken Ridge, 121A6:136
 - Cagayan Ridge, 124A12:328, 330
 - calcite-gypsum supersaturation, 121B22:448
 - carbon cycling, 204A9:11
 - cations, 193A3:287
 - Celebes Sea, 124A10:155–156; 13:356
 - Chagos Bank, 115A10:750
 - chemical interfaces, 201B1:22–24
 - chemical reactions, 150X_B24:338–339
 - clathrate formation, 127A6:281
 - concentration, 131A6:128–138; 133A(1)13:524; 164B9:94
 - Conical Seamount, 125B21:384
 - consumption vs. sedimentation rates, 175A20:549
 - copper sulfate photograph, 141A9:313
 - Cornaglia Terrace, 107A9:612, 632; 107B13:203, 206
 - Costa Rica Rift, 111A3:82, 84
 - décollement zone, 131B32:404
 - depletion, 117A19:617; 141A8:273–274; 164A5:90; 164B3:35–36; 9:93–96; 204A7:11; 8:13
 - deposition, 107B13:179
 - diagenesis, 107A10:761; 168A4:80; 172A3:60–63; 4:123, 125
 - dissolved, 204A3:111; 4:14; 11:39
 - dolomite, 123B3:82; 175A16:498
 - Exuma Sound, 101A9:351; 10:396, 399
 - fluid flow, 166A10:330; 168A4:84; 5:137–138
 - fluid sources, 117A15:480
 - flux models, 164B9:92–93
 - focused consumption, 164A6:132
 - gas hydrates, 204A3:16–17; 5:8
 - gases, 131A6:140, 143–144
 - geochemical cycles, 205B6:9–14
 - geochemical data, 152A8:98–99
 - geochemical indicators, 151A13:412
 - gypsum, 160A8:250; 9:311; 161A5:145
 - high-resolution vs. regular sampling results, 119B20:398–399
 - hydrothermal circulation, 169A1:9
 - hydrothermal component, 169A6:281

- hydrothermal fluids, 139B20:397–398
igneous rocks, 126B29:450–452
incorporation of seawater, 118B5:122–123
Indus Fan, 117A8:179; 19:617; 117B30:510–512
Jane Basin, 113A12:730, 735
Kerguelen sediment ridge, 119A28:518, 544
Labrador Sea, 105A5:456–458; 6:709, 713
lithology, 193A4:14
Little Bahama Bank, 101A6:130, 136–137; 7:225–226,
229–231; 8:280, 282–283
Mariana arc, 126B29:449
marine origin, 107B1:23
Mascarene Plateau, 115A5:260
mass accumulation rates, 127/128B(1)36:637, 646
maximum depth, 107B28:435
methane, 117A10:288; 127A6:288; 7:368; 168A4:85;
172B3:2–3; 180A9:45; 207A9:6–8
microbiology, 168B13:164; 169B2:5–6, 8; 180A9:40–
41; 190A1:36; 204A9:15; 205B8:10
mineralogy, 107B13:188–190, 194–195
Nazareth Bank, 115A4:144
Negros Trench, 124A9:113, 116
Ninetyeast Ridge, 121A12:398
Oman margin, 117A4:49; 11:346, 349; 12:402;
13:432; 14:458; 15:478; 16:520–521; 18:578
organic carbon decomposition, 127/128B(2)79:1262
organic matter, 127A7:362; 131A6:149; 161A6:236;
7:320–321; 175A20:550; 180A1:26–27
Owen Ridge, 117A9:229, 279–281; 117A19:617
Pacific Ocean W, 124B14:213
petrography, 107B13:188–190, 192, 194–195
pore water, 113B13:175; 115B34:631, 634; 35:516–
517; 116A6:60, 67, 167, 170; 8:107, 109;
116B11:138; 34:423; 117B30:504–507;
119B11:218; 14:269; 18:364; 19:384, 388;
125B42:683–684, 688; 127/128B(1)36:637–639;
37:657–659; (2)79:1264; 131A6:162, 168;
131B12:162; 31:392; 133A(1)4:101, 104–107;
5:155–156; 6:189–190; 7:216; 8:265–267; 9:316–
319; 10:369; 11:431–432; 12:468; 13:522–524;
15:633–634; 16:708–709; 17:783; 134A7:114;
8:157–158; 9:204; 10:279–280; 11:347; 12:417;
135A(1)6:266; 9:432; 135B42:680–688;
136A4:47–48, 55; 5:71; 138A(1)10:223; 11:297;
12:355; 139B22:435; 141B25:316–319;
143A6:136; 7:215; 9:331; 144A3:68; 4:129;
5:179; 6:232; 8:302; 10:366; 145A3:52; 5:150–
151; 6:239; 8:352; 145B45:671; 146B(2)25:331;
149A5:135; 6:191; 7:244; 149B46:709–710;
150A6:98; 7:167; 8:233–234; 9:286–288; 10:330;
150X_B24:322–324, 329; 151A5:82; 6:129;
7:182; 8:240; 9:286; 10:333; 11:367; 154A4:92;
5:181; 6:249; 7:304; 8:359; 9:436; 154B34:498;
155A6:105–106; 7:141; 8:190; 9:217; 10:260;
11:295; 12:348; 13:398; 14:424; 15:449–450;
16:476; 17:519–520; 18:557–558; 19:583;
20:610; 22:675; 155B36:567–569; 156A6:149;
157A1:8; 4:78; 5:123–124; 6:154; 7:355; 8:415;
9:457–458; 10:523; 159A7:243; 8:284;
160A7:186–187; 11:391–393; 14:485;
161A8:379; 161B33:425; 162A8:274; 9:309;
10:361; 164A5:89; 6:128; 8:264; 165A3:74;
4:166; 5:259; 6:317; 166A6:94; 7:161, 168;
8:189–192; 9:251–254; 10:313–316;
167B32:343; 168A1:18; 169A3:113–117; 4:171–
175; 5:218; 6:274–281; 170A3:73; 4:133; 5:173–
175; 7:235–236; 171B_A4:144; 5:208–209;
6:286; 7:334; 172A5:228–229; 7:316; 173A4:88,
90; 174A_A3:72; 4:122–123; 175A3:72; 4:100;
5:129; 6:163; 7:188–189; 8:211–212; 9:255;
10:294–295; 11:325; 12:367; 13:409; 14:444;
15:472; 177A4:16; 8:17; 178A4:21; 5:18; 6:14;
9:15; 180A1:25–26; 5:31, 34–35; 6:54, 56; 7:21;
8:30; 9:39; 12:36, 38, 189–190; 181A3:22; 4:19;
5:20; 6:28–29; 7:37–38; 8:30–31; 9:19;
181B7:13–14; 182A1:18, 21–24, 27–30, 32, 35,
38; 4:31–32; 5:19–20; 6:28–29; 7:21–22; 8:24–
25; 9:19–21; 10:24–25; 11:14; 12:20; 184A1:31–
32; 4:21; 5:17–18; 6:13; 7:18; 8:8; 9:22;
184B13:11; 186A1:14; 5:25–27; 188A3:43–47;
4:29; 5:23; 189A3:43, 161; 4:21, 60; 5:47, 158;
6:51, 166; 7:44, 140; 190A8:15, 44; 191A4:22;
194A4:22; 5:16; 6:13; 8:17; 9:15; 195A3:30–40;
4:34–36; 195B7:1–12; 9:3–4; 198A3:34–35; 4:26–
27; 5:27; 6:24; 7:23; 8:21; 9:30; 199A8:16; 9:10;
10:16; 11:25; 12:25; 14:18; 201B1:8; 202A3:13;
4:14; 5:12; 6:14; 9:18; 10:58; 11:15; 12:15;
13:13–14; 204A6:10–11; 7:39; 10:14; 11:12;
205A4:46; 5:30–31; 6:16; 205B1:18–19;
206A3:38; 207A6:30–32; 9:8; 208A3:21; 4:19;
5:15; 6:23; 7:22; 8:23; 210A3:98, 356
precipitation, 107B38:648
recycling, 126B29:452
redox, 161A6:236, 238; 165A5:257–258; 204B15:9–10
reduction, 151A12:389–391; 151B24:423–425;
162A3:75–76, 79; 4:115; 5:157; 6:192–193;
7:245–246; 166A7:160
sandstone, 127/128B(1)9:143–144
Sardinian margin, 107B13:203–206, 208–209
second-order cycles, 107A8:418–419
sediment/basalt interface, 202A11:15
sedimentation rates, 117B30:510, 512; 119B21:402;
127A7:362; 127/128B(2)79:1262
sediments, 139B25:468; 146B(1)26:387–388;
(2)16:225; 149A4:97; 149B14:301–304;
152A11:234–235; 156A7:232; 162A8:272–273;
165A3:73; 4:164; 166A11:363–364;
167A(1)4:74; 5:104; 6:144; 7:166; 8:193; 9:232;
10:260; 11:295; 12:328; 13:368; 14:405; 15:447;
16:473, 475; 169A:123–125; 169S_B1:39–40;
170A3:72; 172A6:281, 285–286; 177A3:12;
180B(synthesis):15; 182A1:14–15; 186A4:38;
190A4:18, 64; 5:23–24, 70; 6:17; 7:14; 9:19;
206A1:25–26
Site 690, 113A6:230
Site 693, 113A8:374–375
Site 695, 113A10:560
Site 696, 113A11:647
Site 698, 114A5:108
Site 699, 114A6:174
Site 700, 114A7:278
Site 701, 114A8:389

- Site 702, 114A9:499, 501
 Site 703, 114A10:567
 Site 704, 114A11:648–649
 Site 708, 115A6:416
 Site 709, 115A7:480
 Site 710, 115A8:609
 Site 711, 115A9:674
 Site 714, 115A11:857, 863
 Site 716, 115A13:1013, 1015
 Site 736, 119A5:137, 139–140
 Site 737, 119A6:186–187
 Site 738, 119A7:257
 Site 739, 119A8:312–313
 Site 740, 119A9:362, 374
 Site 741, 119A10:385
 Site 742, 119A11:418, 420
 Site 743, 119A12:466
 Site 744, 119A13:491
 Site 748, 120A7:208
 Site 749, 120A8:260
 Site 750, 120A9:312
 Site 751, 120A10:357
 Site 765, 123A4:146–147; 123B3:81; 11:217
 Site 766, 123A5:303
 Site 784, 125A12:284
 Site 792, 126A8:268
 Site 794, 127A4:108; 127/128B(1)36:637–638
 Site 795, 127A5:204; 127/128B(1)36:637–638, 640
 Site 796, 127A6:279; 127/128B(1)36:637–638
 Site 797, 127A7:325, 362, 368; 127/128B(1)36:637–638
 Site 798, 127/128B(1)46:770, 775–776; (2)79:1263; 128A4:172–173, 180
 Site 799, 127/128B(1)34:610; 128A5:317, 328
 Site 855, 139A5:115, 117, 125
 Site 856, 139A6:188, 191, 194; 139B43:686, 688
 Site 857, 139A8:857
 Site 858, 139A8:475
 Sites 790–791, 126A7:186–187, 191–193
 Sites 849 and 850 comparison, 138A(2)15:854
 stable isotopes, 107B13:190–192, 195
 Straits of Florida, 101A5:67
 sulfur isotopes, 139B48:739–748; 195B7:12; 204B19:1–13
 Sulu Sea, 124A11:235, 239, 241
 Tiburon Rise N, 110A5:231–234; 110B11:159
 Torishima Seamount, 125B21:381
 volcanic alteration, 121A11:334
 vs. age, 167A(1)12:339
 vs. alkalinity, 117A11:370; 128A4:183; 168A4:84; 188A3:128; 204B15:35
 vs. ammonia, 168A4:84
 vs. ammonium, 119B21:401, 403; 154A4:103; 157A6:157; 157B38:629; 177A3:34; 207A6:69
 vs. barium, 201A11:52
 vs. calcium, 121A10:286; 12:399; 137A2:43; 139A6:197; 150X_B25:350; 160A8:255; 160B20:259
 vs. calcium and alkalinity, 119B18:362
 vs. calcium and magnesium, 110B11:174
 vs. chlorinity, 139B22:435
 vs. depth, 110A6:336; 113A5:129–130; 6:237; 8:380; 10:561–562; 11:650–651; 12:736–737; 113B10:138–143; 114B37:687; 133A(1)4:103; 9:318; 12:475; 13:525; 14:584; 15:634, 640; 16:711; 17:783; 133B48:715; 134A7:113; 8:160; 9:207; 10:282; 12:422; 13:506; 134B8:113, 117–118, 124–126; 135A(1)4:128; 5:220; 7:320; 8:369; 10:539; 11:629; 137A2:37; 137/140B13:145; 138A(1)9:159; 10:232; 11:298, 307; 12:360; 138B(2)13:710; 14:775, 778; 16:936; 17:998; 18:1047; 19:1084; 26:603; 139B25:475; 141A8:281–282; 10:406–407; 141B26:328; 143A6:139–140; 7:217; 9:333; 144A3:73; 4:130; 5:182; 10:368; 145A3:64; 4:105; 5:152; 6:244; 7:321; 8:360; 146A(1)4:84–86; 5:189; 6:269–270; 146B(1)25:381; 26:387, 391; 149A4:99; 5:135; 6:192; 149B14:303; 46:708–709; 150A6:103; 8:234, 236; 10:333; 150B17:324; 150X_B24:330, 332, 334, 348; 151A5:82, 130; 152A8:102; 11:237–238; 12:271; 154A4:103; 5:184; 6:256; 7:305; 8:381; 9:438; 155A6:112; 7:149–150; 8:192; 9:219; 10:261; 11:296; 12:354; 13:402; 14:426; 15:456; 16:481; 17:528; 18:558; 19:585; 20:615; 21:651; 22:677; 155B30:498–502; 156A6:148; 7:240; 157A1:9; 4:78; 5:125; 6:157; 7:365; 8:419; 9:460; 10:526; 157B32:563; 38:630; 159A5:110; 6:194; 7:244; 8:285; 9:311; 160A4:79; 5:114; 7:190; 8:255; 9:312; 10:366; 11:394–396; 14:486; 160B29:367–368; 161A4:93; 5:153; 6:260–261; 7:333; 8:387; 9:412; 161B32:415; 33:425–427; 34:435–436; 40:506–507; 162A4:119; 5:162; 6:196; 7:248; 8:281; 9:318; 10:374; 162B14:205; 164A5:93; 6:131; 7:203; 8:271; 9:303; 164B8:82, 85; 9:89–91; 36:383–387; 165A3:74; 4:166; 5:252; 6:319; 7:372; 165B19:289, 294; 166A6:94; 7:163; 8:189; 9:253; 10:314; 11:363; 166B9:106; 17:182–185, 189, 193; 167A(1)4:79–80; 5:110–111; 6:148; 7:170; 8:204; 10:265; 11:302; 12:339; 13:371; 14:414; 15:447, 456; 16:480; 167B32:348; 168A4:83, 85; 5:144; 6:180; 168B13:164; 169A3:112–117; 4:176; 5:220; 6:276–280; 169B1:12; 2:8, 18; 170A3:79; 4:133; 5:178; 7:237; 171B_A3:84; 4:147; 5:217; 6:263–280, 296; 7:341; 172A3:62; 4:136; 5:226; 6:285; 7:316; 172B3:11; 174A_A3:75; 4:126; 5:173; 175A3:78; 4:107; 6:169; 7:191; 8:215; 9:260; 10:300; 11:331; 12:370; 13:415; 14:450; 15:478; 17:512; 20:549; 177A1:48; 3:33; 4:47–48; 5:51; 6:43; 7:34; 8:50; 9:41; 178A4:77; 5:70; 6:49; 7:52–53; 8:47; 178B14:9; 180A1:48; 5:84; 6:162; 9:114; 12:118; 180B(synthesis):35; 181A3:54; 4:40; 5:46; 6:73; 7:93–94; 8:75; 9:49; 181B5:4; 7:9; 182A4:63, 65; 5:46; 6:70; 7:50; 8:53; 10:54; 11:31; 182B1:29; 184A4:59; 5:57; 6:38; 7:56; 8:23; 9:68; 185A4:114; 185B1:31; 3:11; 186A4:128; 5:73; 188A1:52; 3:124–127; 4:75; 5:65; 188B15:10; 189A1:89; 3:93; 4:38; 5:92; 6:105; 7:82, 84; 190A4:64, 69; 5:70; 6:46; 7:38; 8:44; 191B4:12; 194A3:46; 4:80; 5:63; 6:48; 8:53; 9:43; 195A1:45; 3:115; 4:132; 195B7:7–8;

- 9:8; 10:5; 198A1:140; 3:88, 94; 4:62, 64; 5:65;
6:58; 7:54; 8:51; 199A1:66; 8:35; 9:26; 10:39;
11:64; 12:69; 13:53; 14:38; 15:30; 202A1:102;
3:36; 4:48; 5:42; 6:47; 7:55; 8:67; 9:63; 11:53;
13:51; 204A3:59, 66–67, 71; 4:61, 65, 69; 5:28,
34; 6:39, 42, 45; 7:36–39; 8:48; 9:46; 10:52, 56–
57, 60; 11:35, 37; 204B15:33; 16:14–18; 19:9–
10; 205A1:62; 4:70, 145; 5:85; 205B1:51; 2:16;
6:20–23; 206A3:148; 207A1:79; 4:57; 5:67; 6:66;
7:62; 8:58; 207B1:22; 9:14–15; 208A3:57; 4:58;
5:48, 52; 6:67; 7:57; 8:56
- vs. lithium, 166B9:106
- vs. magnesium, 137A2:43; 137/140B13:146, 151;
139B20:401; 166A10:316; 169A4:172–173;
194A3:48; 5:65
- vs. methane, 164A6:131; 172A5:222–225; 189A6:105;
198A4:61
- vs. organic carbon, 119B18:359
- vs. oxygen isotopes, 161B32:417
- vs. seawater, 125A8:158–159, 161
- vs. sedimentation rates, 127/128B(1)37:661
- vs. strontium, 160A8:255
- vs. subbottom depth, 141A6:120; 7:217–218
- vs. sulfur isotopes, 161B32:417
- vs. water content, 126B29:452
- well-logging, 126A7:206
- Zamboanga Trench, 124A9:118
- See also* methane/sulfate ratio; strontium/sulfate ratio
- sulfate, copper, photograph, 141A9:313
- sulfate, dissolved
- concentration, 129B15:292; 130B31:533, 545
- depletion, 129B14:270
- microbial activity, 201A1:12, 16; 201B6:1–20
- oxygen isotopes, 201B7:1–23
- pore water, 129A4:207; 129B14:269–275; 15:285, 291;
130A8:324; 201A1:20, 32, 38, 41, 45; 6:16; 7:15;
8:14; 10:13; 11:15, 92; 12:13; 201B5:5
- scanning electron microscopy, 129B15:287–288
- sediments, 129B15:286; 130A7:250–251
- Site 803, 130A5:133
- Site 804, 130A6:200
- sulfur isotopes, 118B5:119
- vs. age, 130A10:532; 12:550
- vs. depth, 129A3:125; 139B25:475; 169S_A2:47, 51,
54, 57; 201A1:66, 70, 75–77; 6:43; 7:46; 8:35;
9:37; 10:39; 11:50; 12:32; 201B1:40–41, 43;
5:21; 6:15–16; 7:15–16, 18; 17:13
- vs. dissolved sulfide, 201B7:19
- vs. sulfur isotopes, 201B6:18, 20
- sulfate, dissolved residual, vs. depth, 204A6:45
- sulfate, excess, vs. depth, 182A7:54; 9:43; 10:55; 12:46
- sulfate, interstitial, vs. depth, 202A1:107
- sulfate, normalized, vs. depth, 166A6:95
- sulfate/calcium ratio, pore water, 150X_B25:348
- sulfate/chloride ratio
- gases, 169S_B1:37, 39
- pore water, 182A4:31–32
- vs. depth, 160A8:256; 11:396; 160B44:572;
169S_A2:47, 51; 182A5:47
- sulfate depletion zone
- barium, 204A3:67; 205B2:7
- bioreactors, 207A7:28
- black shale, 207A4:25; 5:28
- marine pore water, 201A1:4
- organic matter, 207A8:27
- pore water, 204A11:12; 205A5:30–31; 207A6:31
- sulfur isotopes, 204B19:6
- sulfate gradient, depth correlation, 201A11:53
- sulfate/methane boundary
- anaerobic methane oxidation, 204A6:10–11
- authigenic carbonates, 164B30:307
- carbon cycling, 172B3:2
- carbon isotopes, 188B15:5–6
- diagenesis, 172A4:123, 125; 5:222, 225–227
- dissolved, 204A4:14
- dolomite, 201B13:10
- gas hydrates, 204A1:6; 3:16–17; 5:8
- pore water, 172A7:311–313; 201A1:32, 37, 42;
204A6:10–11; 10:14; 11:12
- sediments, 172A6:272–277, 285–286
- sulfur isotopes, 204B19:4
- vs. depth, 162A5:157; 204A3:66, 69; 4:65; 6:42, 45;
10:56
- sulfate/methane ratio, vs. depth, 164A5:88
- sulfate–methane transition horizon, 201B5:9
- sulfate/pH ratio, fluids, 125B29:511, 516–517
- sulfate reduction
- anaerobic methane oxidation, 204B15:11–14
- anaerobic reduction, 119B18:355
- authigenic carbonates, 164B30:307–309
- bacterial reduction, 117B30:506; 119B18:371; 19:380;
127/128B(1)46:767, 770–771; 129B15:291–292
- barium dissolution, 127/128B(1)37:656, 661
- biogeochemical flux model, 201B1:27–28
- biosphere, 201B6:3–8
- black shale, 207A5:27–29
- Cagayan Ridge, 124A12:328
- carbon isotopes, 127/128B(1)6:88; 204B20:3
- carbonate cements, 150B17:321
- Celebes Sea, 124A10:154–155; 13:356
- community structure, 201A1:17
- diagenesis, 146B(1)25:380–381; 155B30:502–503;
160A5:110; 172A3:60–63; 4:123, 125; 5:218,
221, 223, 225; 174A_A3:73–74; 178A5:19–20
- dissolution, 133B49:729, 731–733
- dolomite, 175A16:495, 498
- geochemistry, 102B9:133; 130A9:409–410; 12:549;
158B1:20; 6:89
- glauconite, 150B10:178
- guyot transgressive phase, 144B51:895–913
- high alkalinity, 127A6:279
- high-resolution sampling, 164B9:90
- hydrocarbons, 190A6:18; 7:16
- hydrothermal alteration, 139B12:303–305, 308, 312–
322
- Kerguelen-Heard Plateau N, 119B18:359
- lack of organic matter, 119B18:366–367, 372
- lithology, 175A4:91; 5:119; 180A12:5; 181A1:33
- magnesium-potassium uptake, 119B18:371
- magnetic properties, 117B7:176–177; 133B39:570
- methane, 138A(1)11:302

- methanogenesis, 164A6:126–128; 164B8:80–85; 9:87–99
- methanogenic prokaryotes, 201B2:6–7
- model rates, 165B19:289
- occurrence, 160A12:445
- ooze, 189A6:54
- organic carbon, 123B3:79; 124B14:208–209; 127/128B(2)79:1262–1263
- organic matter, 124B18:242–245; 127A5:207; 127/128B(1)36:637; 133A(1)15:636, 638; 149B46:705–712; 159A6:194; 160A4:67; 161A5:146; 164B5:55; 165B19:288–291; 166A8:188; 9:251; 166B17:191–194; 167B32:344–345, 348–349; 175A20:548–550; 178A7:13–14; 202A1:22–23; 5:13
- paleoenvironment, 178A1:17
- platforms, 166A8:207
- Pliocene–Quaternary interval, 164B38:402–404
- pore water, 119B19:385, 388; 127/128B(1)34:607; 133B48:711–712; 159A7:244; 8:284; 160B29:365–373; 35:450; 161A7:322; 9:404; 161B32:414; 33:425–427; 162A9:309; 172A6:286–288; 177A4:17; 5:21; 7:15; 9:13, 15; 181A3:23–24; 4:19; 6:29; 7:38; 8:30–31; 9:21; 181B1:10–12, 28; 7:1–15; 182A1:21; 5:20; 194A3:15–16; 5:16–17; 9:16; 195A3:32–40; 201A1:37, 41–45; 202A9:18; 206A3:38
- potential rates, 127/128B(1)46:771
- processes, 178A4:21
- prokaryotes, 201B1:20–22; 2:6–7
- pyrite, 164B13:145
- rates, 161B32:416; 201B1:40; 204B15:51
- sedimentation rates, 119B21:401; 127A5:207
- sediments, 117A8:182; 13:434; 135B9:148; 138A(1)10:245; 146A(1)4:78; 5:181–183; 146B(1)26:387–388; 27:403–409; 150A8:231; 150B18:329–344; 164A7:197; 9:298; 165A4:165; 6:316; 169A5:219, 221; 172B(overview):2–5; 175B10:13; 186A4:39–40; 189A3:41, 43
- Site 710, 115A8:595
- Site 716, 115A13:1008, 1012
- Site 779, 125A7:126
- Site 784, 125A12:284
- Site 786, 125A14:329
- Site 794, 127A4:108, 111, 119
- Site 795, 127A5:174, 204
- Site 796, 127A6:251, 267
- Site 797, 127A7:362
- Site 798, 127/128B(1)46:770, 772–773, 775–776
- Site 799, 128A5:318
- Sites 819 and 821, 133B25:362
- stable isotopes, 160B29:365–373; 201B1:9–10
- storage, 160B20:253–257
- suboxic diagenesis, 178A8:13
- sulfur-iron-carbon system, 207B9:4–5
- sulfur isotopes, 201B1:9–10
- total organic and inorganic carbon, 201B8:4
- upwelling, 175A1:16, 21
- vs. alkalinity, 115B34:639–640
- vs. depth, 146B(1)27:403–406; 164B8:85; 36:383, 385, 387, 389; 201B1:43; 202A1:102; 204B15:34
- vs. magnetization intensity, 130A8:318, 320
- vs. sedimentation rates, 160B29:370
- vs. subbottom depth, 130A9:410
- See also* methanogenesis; oxidation; redox; reduction
- sulfate reduction zone
- authigenic carbonates, 188B15:7
- concentration, 190A4:20–21
- gas hydrates, 204A3:16–17
- lithology, 201A11:9
- pore water, 188A3:44–45
- sediments, 201B1:23
- sulfate/sulfide ratio, geochemistry, 126B29:451
- sulfates
- fluid geochemistry, 158A7:126, 140
- hydrothermal circulation, 158B11:138–139
- porosity vs. seismic velocity, 158B23:313–327
- stable isotopes, 158B6:85–90
- sulfur isotopes, 139B48:739–748; 158B5:74–79; 159B13:127–131
- thermal properties, 158B24:329–335
- See also* gypsum; iron sulfates; natroalunite; natrojarosite; polythionates; selenite; thaumasite
- sulfide bands
- cubic pyrite crystals, 169B9:6; 10:11
- photograph, 169A3:80–82; 169B10:11, 38
- photomicrograph, 169A3:86
- sulfide breccia. *See* breccia, sulfide
- sulfide impregnations, photograph, 169A3:111
- sulfide globules
- basalts, 142A4:57, 61; 185A3:25–26
- petrography, 200A4:32
- sulfide mineralization, lithology, 204A4:4
- sulfide mounds
- Bent Hill, 139A6:230
- geometry, 169B10:8
- magnetic anomaly mineralization, 139B2:32–33
- models, 169A6:258
- sulfide/oxide aggregates
- sediments, 175B21:27–31
- Uvigerina*, 175B21:7–8
- sulfide precipitates
- lithology, 204A11:5–7
- photograph, 204A11:29
- sulfides
- age, 158B9:111–117
- alteration, 139A7:497–499; 147A3:71; 4:133; 148A2:48; 148B12:173; 168A4:73; 6:173–174; 168B10:126; 176A3:138; 176B6:4
- anomaly photograph, 204A9:60
- anoxic conditions, 119B19:383
- Atlantis Bank, 118B4:101
- backscattered electron image, 169B9:5, 18
- basalts, 192A4:14; 6:17
- basement, 183A7:38
- Central Hill, 169A6:269
- chimneys, 193A1:23–28
- composition, 139B6:100; 158A11:218
- deposition, 169B9:6–9
- diagenesis, 146B(1)25:380
- distribution, 118A6:122–125
- electrical impedance, 169B8:5–8

- electron microprobe data, 193B3:7-8; 209B2:1-13
 failed rifts, 128A5:251-252
 feeder zones, 169A3:76
 formation, 107A12:960-961
 fractures, 169A3:39
 gabbros, 176B7:1-29
 geochemistry, 129B15:290; 139B6:91; 19:387-392;
 158A7:93-94, 97-98; 8:155-159; 9:172; 10:189-
 191; 11:216-219; 158B1:19-20; 169A3:87-89
 heat flow, 158A3:25-27; 158B24:333-334
 hydrothermal alteration, 129B19:367-368; 135B5:75-
 76; 40:658; 52:840-841; 137/140B14:157-158;
 139B10:171-172; 153B30:523-529;
 158A10:199; 169A3:78-87; 209B1:10-11
 hydrothermal fields, 158A1:7, 9-13; 2:19; 158B1:9-
 11, 14-17
 hydrothermal systems, 169A3:41-42, 52-53
 igneous rocks, 139A8:511
 index properties, 158A7:115-120
 Indian Ocean basalt fractionation, 115B7:80-81
 Japan Sea sediments, 127/128B(2)78:1241-1249
 kuroko-type deposits, 128A1:24; 5:239, 251
 lead isotopes, 158B8:101-109
 lithology, 139A6:173-174, 176-177; 8:457; 139B6:98;
 164A7:181-182; 170A3:60; 179A4:31; 180A9:8;
 201A11:9-10; 12:8; 204A3:6-8; 5:3-4; 6:3-8;
 8:6-8; 10:5-9
 mafic and ultramafic rocks, 147B5:91-101
 mantle, 192B1:6
 metamorphosed gabbros, 118A6:125-126, 134-136
 mineral inclusions, 176A3:21
 mineralization, 118B4:95; 139B44:713-714;
 169A3:58-89, 259; 193B3:3-4; 209B3:1-18
 mineralogy, 158A7:72; 169B5:20-34; 176A3:37-38;
 176B7:4-9, 26; 193B3:1-31
 modal composition, 176A3:18
 nickel and cobalt content, 121B32:629
 Ninetyeast Ridge, 121B32:659
 noble metals, 135B35:599, 601
 occurrence, 128A1:21-22
 olivine gabbros, 176B4:6-7
 organic matter, 160A4:67
 osmium isotopes, 209B1:15-16
 outcrops, 139A6:165
 oxidation, 129B15:288; 201B7:5-9
 oxide mineral association, 118A6:125
 parageneses, 193A4:159, 168
 percentage vs. compressional wave velocity,
 158B23:325
 permeability, 169B8:3-5
 petrography, 147A3:62; 176B7:4-7, 24-25; 179A4:38-
 41; 192A3:27; 193A1:14-15, 19; 3:51-58; 4:34-
 41; 6:6
 petrology, 139A6:213-231; 158A7:68-93, 95-96, 98-
 114; 8:144-155, 157, 159-160; 9:171-172;
 10:178-189, 191-193; 11:212-216, 219;
 168A5:119; 169A6:268-271; 180A11:4
 phase equilibria, 209B3:8-9
 photograph, 135A(1)11:651-652; 153A3:100;
 158A7:117; 160A10:361; 169A3:66-82, 85, 88;
 193A4:96, 138, 182-183; 202A4:31; 8:52;
 204A6:54-55; 8:38, 43
 photomicrograph, 168A4:74; 176A3:128; 179A4:118;
 185A1:47; 192A6:70; 206A3:279
 pillow lava, 169A3:94
 pore water, 116B11:138; 34:422; 194A3:15; 195A3:30-
 33; 195B7:1-12
 porosity vs. seismic velocity, 158B23:317-326
 precipitation and hydrothermal activity, 116B11:138
 recrystallization, 118B4:93-95
 reduction, 164A7:193
 rock magnetism, 139B31:535-542
 saturation, 118B4:101
 secondary minerals, 140A2:69-70; 149A4:80;
 168A5:126, 128
 sediments, 129B15:287; 146A(1)5:154; 151A8:243
 segregation, 118B4:93-94; 5:120
 serpentinization, 153B3:44, 52, 54
 silicate phase relationship, 118A5:126-128
 sills, 139B8:116-117
 stable isotopes, 158B6:85-90; 164B13:139-146
 stratigraphy, 169A3:46-51
 sulfur-iron-nickel system, 209B3:8-9
 sulfur isotopes, 139B47:739-748; 158B1:17-21; 5:74-
 79
 tabular crystal molds, 139B43:684
 textures, 158B15:193-210
 thermal properties, 158B24:329-335; 169B8:8-10
 thin sections, 176A3:23-28
 type distribution vs. depth, 139A6:253
 ultramafic rocks, 147B4:79
 undeformed gabbros, 118A6:125
 veins, 139A7:339; 209A3:92; 5:97
 velocity, 169B7:8
 vent fluids, 125A8:148; 125B1:8
 vs. depth, 147B4:79; 195B7:7; 204A10:58
 vs. gabbro magnetic susceptibility, 176B11:20-29
 X-ray line scanner images, 204A10:72
See also bornite; bravoite; chalcocite; chalcopyrite;
 covellite; digenite; dufrenoyite; galena;
 godlevskite; greigite; haapalite; heazlewoodite;
 hydrotroilite; iron monosulfides; iron sulfides;
 isocubanite; kuroko sulfide deposits; marcasite;
 millerite; mineralization; monosulfides; pent-
 landite; polydymite polysulfides; pyrite; pyrro-
 hite; sphalerite; tennantite; tochilinite; troilite;
 troilite-pyrrhotite exsolution; vaesite; violarite;
 wurtzite; zinc sulfides
 sulfides, acicular, photograph, 153B3:40
 sulfides, acid-volatile, Site 798, 127/128B(1)46:771, 775
 sulfides, black, lithology, 201A12:7-11
 sulfides, chimney residue, lithology, 169A3:44-53
 sulfides, clastic
 diagenesis, 139B7:109-110
 lithology, 139A6:177, 179; 169A3:44-53
 Site 1035, 169A3:58-61
 stratigraphy, 169A3:64
 sulfides, colloform, sulfide mineralization, 169A3:71
 sulfides, copper-iron
 clastic sulfides, 169A3:59-61
 deep copper zone, 169A3:76-78

- mineralization, 169A3:68–69
- sulfides, copper-rich, 169A3:80; 169B9:6, 21
- sulfides, disseminated
 - lithology, 164A9:284
 - sediments, 169A6:270
- sulfides, dissolved
 - microbial activity, 201A1:15
 - pore water, 201A1:28, 32, 40; 7:16; 8:15; 9:12–13; 10:13; 11:16; 12:13
 - vs. depth, 201A6:44; 8:36; 9:37; 10:39; 11:50; 12:33; 201B7:18
 - vs. dissolved sulfate, 201B7:19
- sulfides, feeder zone
 - lithology, 169A3:44–53
 - Site 1035, 169A3:73–78
- sulfides, globular
 - oxide concentrates, 118B4:93, 104
 - pore water, 118B5:119
- sulfides, hydrothermal, lithology, 141A6:310–313
- sulfides, igneous
 - alteration, 118B5:118; 139B17:363–366
 - composition, 139B17:353–372; 193B10:22
 - comparison, 158A8:145–146, 148–149, 151
 - distribution, 118B5:119–120
 - genesis models, 139A6:261–263; 139B17:362–363
 - geochemistry, 158B3:41–46; 27:366–367, 379–385; 193B10:1–22
 - geochronology, 169B4:1–15
 - hydrothermal circulation, 169A1:7–16
 - hydrothermal fields, 158A1:12; 158B1:9, 11
 - immiscible occurrence, 118B5:119
 - Juan de Fuca Ridge Middle Valley, 139B11:231–247; 17:353–372
 - lithofacies, 169A3:38, 67; 169B10:9
 - lithology, 139A6:179–180; 139B18:377; 169A3:44–53
 - mineralogy, 139B18:373–385; 169A6:269–270
 - osmium and rhenium, 158B7:95–100
 - petrology, 118B5:114–116; 169A6:269–270
 - photograph, 158B5:84; 193A1:71; 4:78–79
 - physical properties, 139B45:721–724
 - relic discharge, 139B44:708
 - silicates, 118B5:119
 - Site 1035, 169A3:61–73
 - stratigraphy, 158A8:142–144
 - sulfide minerals, 169B5:1–34
- sulfides, iron-nickel acicular, 153B3:38–39
- sulfides, magnetic, reduction, 164A9:294
- sulfides, massive
 - tomography, 158B16:206–207
 - vein networks, 169B9:1–25
 - See also* massive deposits; pyrite, massive
- sulfides, massive clastic, photomicrograph, 169A3:66
- sulfides, massive pyrite-pyrrhotite, photograph, 169A3:69
- sulfides, massive-semimassive, 169B7:6
- sulfides, massive vuggy, mineralization, 169A3:71
- sulfides, porous, geochemical section, 158B27:366–367
- sulfides, primary, iron-titanium oxide gabbros, 118A5:115–116
- sulfides, seafloor, sulfur isotopes, 158B5:77–79
- sulfides, secondary
 - alteration, 118B5:120–121
 - opaque mineral petrology, 118B5:115–118
- sulfides, semimassive
 - bulk composition, 193B10:22
 - geochemistry, 193B10:1–22
 - lithology, 193A4:11–23, 29–30; 193B1:7
 - mineralization, 193B1:22–23, 37
 - photograph, 193A4:144
 - ternary diagram, 193B10:10
- sulfidization
 - carbonate platforms, 144B51:909
 - imbalance between sulfide production and iron addition, 160B20:256–257
 - sapropels, 160B20:257
- Sulfolobales, glycolipids, Site 1258, 207B12:4
- sulfonates. *See* naphthalenes
- sulfur
 - alteration, 118B5:120–123; 139A5:136–140; 209B1:10–11
 - bacteria, 160B25:305–306
 - basalts, 118B4:88–89; 135B36:603–613; 142B3:25–26; 183A8:119; 183B1:17–18, 27
 - bituminous limestone, 160A7:190
 - carbon content, 118B5:117
 - carbonate platforms, 144B51:908
 - Celebes Sea, 124A10:178
 - clay, 175A10:283
 - dark–light cycles, 127/128B(1)33:579, 586–588; 162A8:274
 - data, 180A5:118
 - depletion, 148B4:51; 34:429
 - diabases, 129A2:70
 - diagenesis, 144B48:866–867
 - distribution, 118B5:119–120
 - dropstones, 151A6:134
 - dynamothermal metamorphism, 118B5:121
 - east-west fracture zone discontinuity, 118B4:88
 - electron microscopy, 160B27:346
 - element correlations, 158B27:378–381
 - erosion of preglacial sediments, 119B6:113
 - framboidal pyrite, 127/128B(1)41:706–709
 - gabbros, 176B6:18
 - galena, 193B3:3
 - geochemical logs, 114A11:697–700; 118B15:279
 - geochemistry, 139A7:486–487; 143A6:142–143, 145; 7:218–221; 144B51:911; 156A6:140–143; 193A3:69–70
 - glacial–interglacial variations, 127/128B(1)33:589–590
 - headsace analyses, 133A(1)13:536; 14:590; 135A(1)5:221; 8:370
 - hemipelagic sediments, 186B13:3–4
 - inclusions, 157B23:403–410
 - jasperoids, 193B9:5–7
 - Juan de Fuca Ridge Middle Valley, 139B13:307–312; 48:739–748
 - laminated sediments, 146B(2)14:219–229
 - Lingayen Gulf, 124E_A13:81
 - lithology, 174AXS_A5:21; 7:16; 183A7:211; 9:41; 11:10, 44; 197A5:97; 207B8:9

mafic and ultramafic rocks, 147B5:91–101
 mantle source properties, 118B4:89
 measured spectra, 129B34:636
 mid-ocean-ridge basalt type source, 118B5:121, 123
 mineral separates, 158B2:29; 7:94; 27:370–376
 mineralization, 169A3:88
 oceanic anoxic events, 198A3:128
 Oman margin, 117B34:567
 organic carbon, 127/128B(2)78:1241
 Owen Ridge, 117B34:567
 oxide gabbros, 118B5:120, 123
 peridotites, 209A6:28
 pore water, 135A(1)6:267; 178A5:19; 191A4:22;
 193B4:4
 Prydz Bay, 119B6:82, 84–85
 Rayleigh fractionation, 118B4:99
 Rock-Eval pyrolysis, 159A6:193
 sapropels, 160B19:229; 22:272–274
 saturation, 118B4:99–100
 secondary minerals, 137/140B14:160–161
 sediment chemistry, 160B20:249–259
 sediments, 129B15:283–294; 133A(1)9:323; 10:381;
 11:436; 13:527; 16:713, 715; 135A(1)10:540–
 541; 141A:403; 143A8:287; 9:338–339;
 146A(1)5:177; 6:263; 7:333; 146B(2)14:210;
 150A6:94; 7:168–169; 8:233; 9:283, 285,
 10:328–329; 151A5:84–85, 132, 134–135, 189,
 242–243, 288, 336, 369; 152A6:67; 7:82–83;
 154A4:94–98; 5:186–188; 6:261; 7:306–307;
 155A6:103–104; 7:140; 8:189–190; 9:215–217;
 10:259–260; 11:293–294, 313; 12:345–346;
 13:398; 14:423; 15:448; 16:475; 17:519–520,
 18:555–557; 19:582–583; 20:608, 610; 21:649–
 650; 22:673; 156A6:139; 7:225, 230–231;
 157A4:79–80; 5:126; 6:157–158; 7:358–359;
 8:420; 157B34:583; 159A7:244; 8:283;
 160A4:69–70, 80–81; 5:115–117; 6:137–138;
 7:189, 193; 8:251, 256–257; 9:313, 315–316;
 10:368–370; 11:396, 398; 1:439–440; 13:459–
 461; 14:485–488; 162A3:73–74; 4:113–114;
 5:157; 6:191–192; 7:243–244; 8:274; 9:308;
 10:361; 164A5:91; 6:128; 7:201; 8:263–264, 269;
 166A6:95; 168A4:86; 5:139; 6:177; 169S_A2:48,
 50; 170A3:75; 171B_A3:79; 4:140–142, 144;
 5:205, 213–215; 6:284–285, 290–292; 7:332–
 333, 339; 172B5:22; 173A4:88; 175B5:4–5;
 178A5:128–130; 7:13, 106–107; 180A5:34; 6:60,
 261–262; 7:22, 83; 8:32, 133; 9:45, 191–192;
 10:17, 71; 11:18; 12:40; 182A4:30, 96–97; 5:18,
 74–76; 6:27, 100; 7:20, 71–72; 8:23; 9:18, 68–69;
 10:23, 74–75; 11:13, 41; 12:19; 183A3:18, 59;
 4:29, 95; 5:51–53, 200; 6:59, 204; 7:54, 211;
 8:27, 118; 9:137; 183B7:22–23; 186A1:10; 4:38;
 5:25; 190A1:35; 4:135–137; 5:137–140; 6:18, 85;
 7:16, 75; 8:17–18, 85–86; 9:101; 191A4:136–
 137; 195A3:162; 198A1:148; 3:27–28; 6:23, 81;
 9:26, 102; 10:31; 207B9:1–23
 sideromelane, 157B25:423, 425
 sills, 139B6:95
 Site 779, 125A7:125
 Site 780, 125A8:157

Site 781, 125A9:187
 Site 784, 125A12:281–283
 Site 794, 127A4:113; 127/128B(2)78:1246–1247,
 1255; 85:1363
 Site 795, 127/128B(1)12:209–213; 41:706–710, 714
 Site 796, 127A6:283–285
 Site 797, 127A7:365–367; 127/128B(1)33:592
 Site 798, 128A4:176–177, 189–192
 Site 799, 127/128B(1)35:623–624, 626–627;
 128A5:323–324, 334–338, 342
 Site 800, 129B15:285
 Site 801, 129A3:111; 129B15:285
 Site 802, 129B15:288
 Site 855, 139A5:125–128
 Site 856, 139A6:201–203
 Site 857, 139A7:326
 speciation, 157B23:408–409
 sphalerite, 158B1:13
 submarine basaltic volcanic glass, 187B4:3
 submarine hydrothermal system, 118B5:122
 sulfides, 158A7:93–94, 97–98; 8:158–159; 9:172;
 158B3:43; 6:86–87; 209B3:4–5
 tektites, 150B13:246–247
 thermal maturity, 207A10:11
 troilite and fugacity, 118B5:119, 121–122
 volcanic ash, 151B18:343, 345–347
 volcanic glass, 136B4:57; 203B2:5
 volcanic rocks, 183A5:201; 6:205; 183B17:2
 volcanoclastics, 157A9:461; 10:523, 525; 183A4:96
 volcanics and volcanoclastics, 183A7:212
 volcanism, 165A8:390
 vs. alteration, 137/140B6:71; 148B4:49
 vs. barium/lanthanum ratio, 135B36:610
 vs. carbon, 139B13:311
 vs. chlorine, 157B23:407
 vs. copper, 137/140B14:163; 148B10:140
 vs. depth, 133A(1)9:324; 12:482; 13:537; 15:648;
 16:723; 135A(1)4:130–131; 137/140B14:162–
 164; 139A5:133–137; 6:223, 225, 229; 7:349–
 350; 8:491–495, 515–518; 139B11:229–250;
 13:310; 17:359–367; 144A5:197; 144B51:907;
 147B5:98; 148A2:61; 3:158; 148B4:48; 5:61;
 10:137; 34:423; 150A7:144, 146, 166; 9:234,
 287; 150B18:332–333; 150X_B24:33; 151A5:87,
 135, 194; 154A4:105; 5:185; 6:257; 7:305;
 155A6:111; 7:148; 8:191; 9:218; 10:260; 11:295;
 12:352; 13:401; 14:425; 15:455; 16:480; 17:527;
 18:557; 19:584; 20:613; 21:650; 22:676;
 157A4:80; 5:126; 6:158; 7:366; 9:461; 10:527;
 157B32:565; 158A7:129; 8:160; 10:195;
 158B4:53, 57, 59, 61; 27:374–376; 160A7:195,
 371; 160B16:200; 20:251–252; 25:305;
 165A5:255; 169A3:89; 169S_A2:49, 52;
 176B(synthesis):64; 6:48; 186A4:127; 5:72;
 190A7:40; 9:52; 195A3:119; 195B7:8;
 205A4:149; 5:88; 207B9:17–18
 vs. iron, 135B36:612; 209B2:9
 vs. iron and magnesium oxides, 152B8:101
 vs. iron oxide, 151B18:346; 203B2:20
 vs. loss on ignition, 148B10:140
 vs. magnesium number, 168A4:71; 5:125

- vs. magnesium oxide, 135B36:609; 151B18:346; 157B16:283; 23:406; 25:426
- vs. nickel, 165B19:290–291; 209B2:9
- vs. organic carbon, 127/128B(1)33:594; 35:628; 41:712–713; (2)78:1254; 128A5:343–344
- vs. oxygen fugacity, 135B36:611
- vs. phosphorus, 144B22:422; 157B23:407
- vs. potassium oxide, 151B18:347; 157B16:283; 25:427
- vs. pyrite, 127/128B(2)78:1254
- vs. recrystallization, 148B5:64
- vs. rubidium, 135B36:610
- vs. sulfur/barium ratio, 135B36:610
- vs. sulfur fugacity, 142B3:26
- vs. sulfur isotopes, 127/128B(1)41:715
- vs. sulfur/potassium ratio, 135B36:610
- vs. tantalum, 148B10:142
- vs. total organic carbon, 144B51:905; 161B40:514; 202A5:15, 45; 6:16, 50; 8:70; 11:56
- vs. uranium, 148B10:142
- vs. zinc, 148B10:140
- weight percentage, 139A6:209–210; 169A3:122–123
- xenoliths, 193B6:3
- X-ray fluorescence data, 117B29:490, 492
- See also copper-iron-sulfur system; iron-nickel-sulfur-oxygen system
- sulfur, acid-volatile sulfide
 - pore water, 160B20:251–253
 - vs. age, 146B(2)16:225
- sulfur, elemental
 - pore water, 160B20:251–253
 - sediments, 146B(2)16:222–225
 - vs. pyrite sulfur, 146B(2)16:224
- sulfur, humic, sapropels, 160B20:253
- sulfur, labile, pore water, 150X_B24:322–324, 328–329
- sulfur, monosulfide, sulfur isotopes, 118B5:122
- sulfur, NaCl-extractable
 - pore water, 160B20:250–251
 - vs. dithionite-extracted iron, 160B20:253
 - vs. NaCl-extracted calcium, 160B20:252
 - vs. water content, 160B20:252
- sulfur, native, photograph, 166A8:182
- sulfur, nonextractable organic, sapropels, 160B20:253
- sulfur, organic
 - chemofacies, 144B51:900, 902
 - chromatograms, 175B5:16
 - cores, 144A3:69
 - lithology, 207B9:7, 16
 - oxidation, 157B38:631
 - organic matter, 169S_B1:38–39
 - sediments, 146B(2)16:222–225; 175B5:5; 10:12–13
 - vs. age, 146B(2)16:224
 - vs. depth, 133A(1)8:274; 144A3:79
 - vs. total organic carbon, 207B9:20
- sulfur, organic polysulfide, pore water, 160B20:251–253
- sulfur, pyrite
 - vs. age, 146B(2)16:223
 - vs. elemental sulfur, 146B(2)16:224
 - vs. organic carbon, 123B12:231; 146B(2)16:223
 - vs. total organic carbon, 207B9:20–21
- sulfur, pyrite/organic carbon ratio, 146B(2)16:224
- sulfur, pyritic, sapropels, 160B20:253
- sulfur, reduced, storage, 160B20:253–257
- sulfur, reduced inorganic, squeeze cakes, 181B7:15
- sulfur, sedimentary, species, 207B9:5
- sulfur, sulfate, vs. age, 146B(2)16:225
- sulfur, total
 - alteration, 193B1:48
 - cores, 144A5:180; 6:233–234; 8:305; 10:367–368; 11:428
 - data, 202A4:15
 - limestone, 144A7:276–277
 - organic carbon, 146B(2)16:221; 160B20:254
 - percentage, 175A3:81; 4:108; 5:135; 6:171; 7:193; 8:217; 9:262–263; 10:302–303; 11:332; 12:372–374; 13:418–419; 14:451; 175B2:9–11
 - Rock-Eval pyrolysis, 201A11:97–98
 - sediments, 145A3:58–60; 146A(1)4:79; 5:177; 6:264; 7:333; 151A8:241; 157B21:363–365; 162A3:77–79; 4:117–118; 5:161; 6:194–195; 7:246; 8:277–279; 9:315–316; 10:371–372; 164A6:125–126; 7:197; 9:297–298, 301; 164B5:48–51; 165A3:72; 4:163–164; 5:254–256; 6:316, 318; 166A6:91; 7:160; 8:188; 9:250; 10:312; 11:361; 167A(1)4:75, 81; 6:151; 7:167, 171; 8:206; 9:234; 10:267; 11:297, 304; 12:341; 13:369–370, 373; 14:416; 15:456; 16:481; 167B24:273; 169A3:120–121; 4:181–182; 5:223; 6:287–288; 170A3:76; 4:134–137; 5:176–177, 179–180; 6:206, 209; 7:238–239; 172A3:58–59; 4:130–131; 5:219–221; 6:282–283; 174A_A3:76; 4:127; 5:175, 177; 177A4:90–93, 5:22, 54, 96–97; 6:14–15, 79–80; 7:15, 79; 8:17, 99–100; 9:14, 70; 181A3:107–109; 4:74–75; 5:61; 6:141–143; 7:177–179; 8:133–134; 184A4:19, 96–99; 5:15–16, 85–87; 6:11, 60; 7:16–17, 92–94; 8:7, 42; 9:20, 113–115; 188A3:49, 182; 4:31, 104; 5:25, 90; 189A3:37–38, 154–157; 5:150–153; 6:159–162; 7:134–137; 194A3:74; 4:112–114; 5:102–103; 6:14–15, 89–90; 7:25, 140–142; 8:81–82; 9:17; 201A7:18, 90; 202A5:14, 62–63; 6:65–67; 9:20, 98–100; 204A3:119; 4:17, 116; 5:10, 60; 6:14, 77; 7:14, 70; 9:14, 88; 10:18, 106; 205A4:180; 5:35, 111; 6:19, 54
 - sediments and igneous rocks, 205A4:48–49
 - Site 788, 126A6:122
 - Site 792, 126A8:272–276
 - Site 793, 126A9:374–378
 - vertical profiles, 167B24:275
 - volcanic rocks, 193A3:286, 292
 - vs. age, 146B(2)16:222
 - vs. depth, 144A5:183; 6:237–238; 8:306; 11:432; 144B51:902–903; 146A(1)4:79; 5:178; 6:263; 7:335; 151A9:292; 10:336; 11:371; 162A3:75–76; 4:116; 5:160; 6:192; 7:245; 8:280; 9:317; 10:372; 162B15:211; 165A4:164; 166A6:91; 167B24:274; 169A3:124; 4:185; 5:227; 6:289; 170A3:81; 4:137; 5:180; 7:239; 175A10:283; 177A4:49; 6:44; 8:51; 9:42; 180A9:119; 12:123; 181B7:12; 189A3:88; 5:88; 6:101; 7:81; 193A3:224; 4:192, 194, 245–246; 194A3:49; 4:23, 82; 5:67; 6:51; 7:88; 8:55; 9:46; 201B8:8–

- 15; 202A5:43; 204A3:72; 4:73; 5:37; 6:49; 7:46;
9:53; 10:63
vs. organic carbon, 157B21:365;
vs. reflectance, 175A5:122
vs. total organic carbon, 144A5:186; 6:239; 8:307;
11:432; 162A7:247; 162B15:211; 166A6:93
weight percentages, 169A4:184; 5:226; 6:288–289
See also carbon, total organic/total sulfur ratio
- sulfur, total inorganic reduced
calcium carbonate content, 117B31:520, 522
Oman margin N, 117B31:524
Owen Ridge, 117B31:526
- sulfur/aluminum ratio, vs. depth, 157B30:569
- sulfur/barium ratio, vs. sulfur, 135B36:610
- sulfur/calcium ratio, vs. depth, 160A8:271
- sulfur/carbon ratio
lithology, 207B9:7
pyrite, 160B20:254–255
sediments, 184A9:113–115
- sulfur compounds, organic matter, 160B23:289
- sulfur fugacity, chlorine, 135B40:660
- sulfur/iron ratio
pyrite formation, 127/128B(2)78:1249
Site 794, 127/128B(2)78:1255
vs. depth, 157B32:567
- sulfur isotopes
alteration, 126B29:452; 139B13:311–312; 169A3:40
anhydrite, 158B6:85–90; 193B1:30–32; 7:1–23
arc-backarc transitions, 126B29:452
Atlantis Bank, 118B5:118–119
biosphere, 201B6:1–20
carbonates, 160B35:448–450
chemofacies, 144B51:900, 902
degassing, 126B29:449, 452
fractionation factor, 126B29:451–452
gypsum, 160B34:440–442; 161B32:418
histograms, 158B5:75; 169A6:259
hydrogen sulfide and sulfate, 204B19:1–13
hydrothermal fields, 193A1:7
hydrothermal mounds, 158B5:71–84; 28:404, 406
igneous rocks, 126B29:450–452
laminated sediments, 146B(2)14:219–229
mafic and ultramafic rocks, 147B5:91–101
marcasite and pyrite, 144B51:907
mid-ocean-ridge basalt, 118B5:121; 126B29:449
minerals, 139B48:739–748
models, 158B5:79–82
organic carbon decomposition, 127/128B(2)79:1262
pore water, 125B42:683–684, 688; 127/
128B(1)36:637–639; 161B32:413–421;
188B15:14
pyrite, 118B5:122; 127/128B(1)41:711–713;
135B40:658; 164B13:143–146; 193B1:32
ratios and Rayleigh plots, 201B6:17, 21
secondary minerals, 137/140B14:160–161
sediments, 129B15:285
Site 794, 127/128B(1)36:637–638
Site 795, 127/128B(1)36:637–638, 640; 41:708–709,
715
Site 796, 127/128B(1)36:637–638
Site 797, 127/128B(1)36:637–638
- spatial distributions, 158B5:76–77
subduction, 126B29:452
sulfate, 181B7:13–14; 188B15:5; 195B7:12
sulfate reduction, 126B29:452; 160B29:365–373;
181B7:1–15; 201B1:9–10
sulfate sulfur vs. elemental sulfate, 146B(2)16:226
sulfides, 139B18:373–385; 19:387–392; 158B1:17–21;
4:47–70; 193B10:5, 13
sulfur and oxygen fugacity, 118B5:121–123
thaumasite, 135B39:648–650
tuffs, 129B4:128
upper Albian sediments, 159B13:125–131
vs. accepted sulfur isotopes, 160B29:373
vs. age, 146B(2)16:226
vs. depth, 137/140B14:162–164; 139B18:379, 390;
48:744–747; 144B51:907; 148B5:61; 34:423;
158B4:69; 6:86; 159B14:130; 160B29:367–368;
161B32:415; 164B9:91–92; 181B7:9; 188B15:10;
193B7:11; 195B7:8–9; 201B1:41; 6:15–16;
204B19:9–10
vs. dissolved sulfate, 201B6:18, 20
vs. helium isotopes, 139B19:390–391
vs. oxygen isotopes, 158B6:87; 161B32:418
vs. sulfate, 137/140B14:165; 160B29:370–371;
161B32:417
vs. sulfate oxygen isotopes, 160B29:373
vs. sulfur content, 127/128B(1)41:715
vs. textures, 158B5:76, 81
vs. water content, 126B29:452
- sulfur logs
Site 798, 127/128B(2)65:1024
vs. depth, 143A9:356; 144A3:95; 6:247; 155A7:160,
364; 160A8:285–287
- sulfur oxide
explosive felsic eruptions, 183B1:19
limestone, 143B13:214, 220
volcanism, 183A1:38
- sulfur/potassium ratio, vs. sulfur, 135B36:610
- sulfur species, intermediate. *See* polysulfides; polythion-
ates
- sulfur yield logs, vs. depth, 139A6:275
- sulfuric acid, sapropels, 160B20:258
- summit plateaus, guyots, 144B33:572–573
- summit vents, seismic reflection, 204A1:8
- superconducting quantum interference device (SQUID),
methods, 125A2:29–30
- superparamagnetic grains, basalt, 197A5:79
- superplumes, basement, 198A1:15–16
- supersaturation
diatoms, 164B23:233–234
diabases, 137/140B1:3–4
- suprasubduction zones
basalts, 195B1:1–17
magmas, 135B55:897–899
tectonics, 135B25:446–452
See also ophiolites; subduction zones
- supratidal environment
Cretaceous, 143B10:141–148
lithology, 161A5:131
- surface area
minerals, 155B33:531–538

See also carbon, organic/surface area ratio
 surface conductivity, porosity, 148B23:320
 surface currents. *See* currents, surface
 surface deformation. *See* deformation, surface
 surface sediments. *See* sediments, surface
 surface water
 Atlantic Ocean E tropical, 108B1:3
 Ceara Rise, 154A1:8
 circulation, 105B32:599; 120B(2)46:875
 Ekman transport, 117A1:5–6; 4:45
 environment, 152B18:245–247
 hydrography, 124B29:381; 159B40:539–555
 modern current distribution, 105B27:469
 monsoon and seasonal variations, 117B17:291
 Neogene, 138B22:503–513; 189B1:17
 ocean circulation, 172A1:7; 189A1:90–92
 Oman margin, 117A4:45
 orbital forcing, 177A1:9
 oxygen isotopes, 120B(2)44:850
 Pleistocene, 154B14:207–228
 present-day location, 119A1:9
 productivity, 105B51:966; 108B20:356–357; 21:377–
 378; 145B21:322, 325
 Site 698, 114A5:93, 118
 Site 702, 114A9:484
 Site 704, 114B5:97; 9:197; 25:471
 Southern Ocean, 120B(1)1:12; (2)26:472
 See also paleosurface water
 surface water, tropical-subtropical, 175B7:5–7; 12:6–8
 surface water masses
 Pliocene–Pleistocene interval, 151B30:493–514
 temperature, 151B27:466, 478–479
 surface water structure, climate change, 177B(synthe-
 sis):10–12
 surfaces, laminated, alteration, 166A3:39
 surfaces, subaerial, alteration, 166A3:34, 39–40
 surficial geology, Hess Deep, 147A1:9
 surging
 debris distribution, 119B5:71, 73
 Lambert Glacier-Amery Ice Shelf, 119B5:62
 suspended sediments. *See* sediments, suspended
 suspensates. *See* sediments, suspended
 suspension fallout, grain size, 141B6:91–93
 suture zones
 geology, 124B4:51
 Palawan, 124B5:70
 tectonics, 160B51:683
 suture zones, sheared, basement units, 183A9:21
 sutured contacts, lithology, 176A3:15–16
 swamp environment
 pollen indicators, 133B9:109
 lithology, 174AXS_A5:41–42
 swelling, clay, 131A6:213
 swelling index, sediments, 131B21:271; 141B33:407–410
 swells, lithospheric, plate motion, 129B33:629
 swirled laminations. *See* laminations, swirled
 symplectite
 crystal-vitric tuff, 183A5:34
 lithology, 209A9:4–7
 photomicrograph, 176A3:129; 179A4:115; 180B3:28;
 183A5:110; 209A1:122; 9:42–43

secondary minerals, 180B3:8
See also intergrowths
 symplectite, clinopyroxene-spinel, 209A1:122; 9:44, 55
 synchronicity. *See* synchrony
 synchrony
 biostratigraphy, 138B11:230; 47:922–924; 150B3:49;
 154B4:93–94; 162B2:27, 29
 Miocene explosive volcanism, 165B20:311
 Neogene, 138B23:521, 526, 528–529
 sea level changes, 166A1:6
 synclinorium, tectonics, 131A7:275
 syncrystallization, chlorite and amphibole, 149B32:546
 synform, Southern Kerguelen Plateau, 120B(2)48:895
 synkinematic differentiation, 118B26:442, 444, 486–487,
 511
 synkinematic minerals
 host rock, 118B8:160
 textural type correlation, 118B8:171
 synlithification
 décollement structures, 159B3:28
 rheology, 159B2:17
 synrift bedding. *See* bedding, synrift
 synrift deposition, paleoenvironment, 159A6:174–175
 synrift melting. *See* melting, synrift
 synrift sedimentation. *See* sedimentation, synrift
 synsedimentary structures
 composite digital images, 208A7:43
 décollement structures, 159B3:29
 lithology, 180A10:5
 syntax analysis
 environmental model, 123B33:609
 parsed sequence, 123B33:611
 pattern recognition, 123B33:602, 608–609
 Site 765, 123B33:620–623
 syntaxial overgrowth
 diagenesis, 160B33:427
 lithology, 183A8:6
 synthetic seismograms. *See* seismograms, synthetic
 synthetic techniques, reflectance spectroscopy,
 138A(1)4:67–70
 syntransform tectonics, Aptian-Albian, 159B2:20
 synuraceans, biostratigraphy, 151B6:101–124
 syringyls/vanillyls ratio
 biomarkers, 159B43:597
 organic matter, 201B4:9
 sediments, 159B43:590
 vs. cinnamyl/vanillyl ratio, 201B4:21
 vs. depth, 159B43:590, 598; 201B4:20
 Systeme Acoustique Remorque, 149B43:665–674
 systems tracts
 continental margins, 150B20:376
 Eocene, 150X_B17:238–241
 Oligocene, 150X_B15:190–205
 Paleocene, 150X_B19:269, 273–274
 paleoenvironment, 150X_B14:175–180
 seismic profiles, 133B25:355; 58:821
 sequence stratigraphy, 150B20:369–371
 tectonics, 150A1:7

T

tachylite clasts. *See* clasts, tachylite

tachylites

- definition, 125B40:675
- magnetic properties, 120B(1)15:239
- oceanic anoxic events, 198B16:11
- petrology, 126B9:140-141, 144, 152-153
- photograph, 141A9:312; 157B12:178-180;
- photomicrograph, 157B13:199-200; 14:217;
 192A1:54; 4:81-82; 198B16:20
- Site 783, 125B40:679
- volcanic ash, 151B17:315
- volcaniclastics, 157B13:187
- vs. depth, 157B13:191

See also basalts; pseudotachylite; tuffs

tachylites, trachyandesitic, ash fall, 157B14:205

tachylitic fragments

- lithology, 192A1:11
- photomicrograph, 157B15:266; 192A4:98

tachylitic texture. *See* textures, tachylitic

Taenidium

- lithology, 174A_A4:111; 5:160-162; 194A3:5; 5:4
- photograph, 174A_A5:162
- sediments, 174A_B3:6, 9

Taenidium?, lithology, 174A_A4:111

taenite, iron-nickel-sulfur-oxygen system, 209A3:97

takovite, Site 778, 125B19:354-355

talc

- alteration, 135A(1)9:444; 137A2:28-29; 139B10:155-201; 44:715-716; 147A3:68-69; 4:137-138; 147B10:201-202; 14:289; 148A2:45-53; 158B18:241; 168A4:73; 6:173-175; 168B10:126; 169A6:259; 176A3:35, 139; 176B1:4-5; 6:9; 179A4:43-44; 179B(synthesis):8; 187A1:11; 13:8; 187B5:8; 193B1:16; 209A3:17, 5:12; 6:10; 9:7-11; 10:13-17; 209B1:8-11
- bastite, 106/109A8:213
- clasts, 149A6:166
- clay, 180B17:6
- composition, 103B14:228; 176B1:10
- cores, 139A7:360-363
- Costa Rica Rift, 111B6:67
- diffusion, 168B10:131
- electron microprobe data, 137/140B18:208-209; 148B8:107; 209B2:1-13
- fault gouge, 180A1:13-14; 11:4
- fluid inclusions, 139B21:416-420
- formation, 106/109B9:109-110
- Galicia margin W, 103B14:227, 234
- ice-rafted debris, 120B(1)12:172
- lava, 197A3:15
- lithology, 169A4:167-168; 176B6:3; 180B6:10; 195A3:14
- magnesium-calcium-silicon-oxygen-hydrogen system, 209A6:77
- massive sulfides, 139B18:377; 169A6:270
- measurement tools, 139A3:50
- metamorphism, 118B28:735; 139A6:236; 153B21:391-393; 31:536; 180B(synthesis):17
- mineral chemistry, 147B15:301

octahedral cations vs. interlayer cations, 176B1:12

olivines, 106/109A8:214

petrography, 148A2:47

photograph, 153A4:154; 5:189, 196-199; 6:243; 153B3:43; 168A4:76; 173A9:281; 209A3:85; 5:86, 123; 10:90

photomicrograph, 187A13:20, 25, 30; 197A6:37-38; 209A1:89; 3:77-82; 5:85, 118, 137; 6:69, 87; 7:66, 68; 10:85, 92, 94

precipitation, 106/109B12:157

profiles, 139B43:684-685

rubble, 169A4:168

secondary minerals, 137/140B15:173, 183; 148B6:77, 82; 168A5:126

sediments, 139B35:565-570; 180B6:17-24

silica metasomatism, 209A3:18-20

Site 858, 139A7:524-526, 541-543

Snake Pit hydrothermal area, 106/109A5:147

tantalum, 139B17:359-367

tectonics, 139A2:9-41

temperature convection, 139B42:671

thermophilic bacteria, 139B29:512-515

ultramafics, 209A3:11

veins, 147A4:134; 153A3:79; 153B30:524; 168A4:74-75; 209A5:80, 87, 92, 97; 6:65, 71

vent fields, 139A7:436

volcaniclastics, 180B3:3-4

volume percentage in veins, 209A3:92

vs. decay curves, 139A6:277-279

vs. density, 139B41:664

vs. depth, 139A2:22; 6:273-274; 7:402-403, 410, 412; 8:493, 548-550, 560; 139B12:296-299, 304; 13:321; 21:421-422; 25:474; 32:547; 35:566; 36:581-583; 44:705; 140A2:66; 148A2:52; 195A3:76-78

vs. integrated thermal resistance, 139A2:22

vs. magnetic intensity, 139B30:521

vs. theoretical decay, 139A5:160; 8:559

vs. thermal resistance, 139A7:410

vs. time, 139A6:276; 139B20:402, 408-411; 32:548, 555-559; 41:655-663

well-logging, 139B36:579-581

X-ray diffraction data, 106/109A5:153-154; 209A3:76

zoning, 139B17:355-358

See also magnesium-talc; olivine-amphibole-talc assemblage

talc, fibrous, sulfide mineralization, 169A3:70

talc, layered schistose, photomicrograph, 209A10:105

talc, massive nonpseudomorphic, 209A3:61, 78, 94

talc-chlorite series

chemical composition, 137/140B13:149

electron microprobe data, 137/140B18:210-211

lenses, 125B30:523

secondary minerals, 137/140B15:173, 183

talc schist, photograph, 195B4:15

talc-serpentine series, Site 778, 125A6:102

talus

Atlantis II Fracture Zone, 118A4:75

lithology, 180A5:8-9; 7:11; 10:6; 209A7:3-4

metamorphism, 180A7:16-17

Pleistocene, 180A1:12-13

- ridge/transform intersection, 118B25:431
 sedimentation, 180B(synthesis):14; 7:16
 serpentinite breccia, 149B35:572
See also debris flow deposit
- talus pile, lithology, 209A7:2-3
- talweg, turbidites, 155B4:76-77
- tantalum
 andesites, 135B25:451
 basalts, 130B1:7-10, 14-20; 136B9:112; 142B2:13-14;
 163B8:82-85; 183B1:9
 clay mineralogy, 169B6:7, 9
 calcite-free data, 119B39:728-729
 Cretaceous/Tertiary synthesis, 130B45:747-748
 depletion, 135B24:394-399; 147B9:184
 diabases, 180B1:4
 igneous rocks, 205B9:9-11
 lava, 183A1:7
 metasedimentary rocks, 152B10:136-137
 mineral separates, 158B2:32
 scandium-normalized distribution, 119B39:725
 sills, 129B18:349
 Site 798, 127/128B(2)86:1370-1371
 Site 799, 127/128B(1)42:724
 tephra, 126B30:461-462
 volcanic rocks, 161B27:370
 vs. depth, 148B37:464; 206B6:6
 vs. lanthanum, 161B27:366
 vs. lanthanum/tantalum ratio, 121B30:582
 vs. loss on ignition, 148B10:141
 vs. magnesium oxide, 148B10:142
 vs. niobium, 145B23:376; 148B37:466
 vs. potassium oxide, 148B10:141
 vs. sulfur, 148B10:142
 vs. thorium and lanthanum, 121B30:578
 vs. zirconium, 129B18:359; 148B37:466
See also barium/tantalum ratio; hafnium/tantalum ra-
 tio; hafnium-thorium-tantalum diagram; tho-
 rium/tantalum ratio; zirconium/tantalum ratio
- tantalum/lanthanum ratio
 basalts, 121B30:568, 571, 581; 32:644
 intersite comparison, 121B26:510; 30:570
 sills, 129B18:349
 vs. tantalum, 121B30:582
 vs. thorium/tantalum, 121B30:581, 584; 32:641, 644
- tantalum/neodymium, vs. samarium/neodymium,
 161B27:369
- tantalum/thallium ratio, vs. depth, 157B32:568
- tantalum/ytterbium ratio
 Site 786, 125B12:229-230
 vs. thorium/ytterbium ratio, 161B27:369
- taphocenoses, foraminifers, 133B26:365-378
- taphonomy, volcanic ash, 165B19:296
- taraxerol
 concentration, 175B10:30
 sediments, 175B10:6-7
- tau-p mapping, one-dimensional velocity, 127/
 128B(2)69:1078-1080
- Taxodiaceae
 Cretaceous, 183B3:10-11
 palynomorphs, 188B3:11
 Site 795, 127/128B(1)28:490
- taxonomy
 calcareous nannofossils, 164B33:332-333
 palynomorphs, 159B24:262-267
 silicoflagellates, 162B5:71-77
- Tdf. *See* climate ratio
- Te Bouma units, lithology, 157A4:60-63
- tectonic breccia. *See* breccia, tectonic
- tectonic contacts
 lithology, 176A3:15-16
 magmatic structures, 176A3:56
 petrology, 179A4:34-35
- tectonic controls
 glacioeustatic changes, 150X_B1:3-4
 late-stage melt migration, 176B10:22
 sedimentation, 131B27:334-335; 133B27:404-405;
 30:466-470; 135B2:9-21; 7:130; 52:833-835;
 141A7:172; 141B10:139-140; 31:393-395;
 146B(2)5:69-70; 11:159-160; 160B43:563-564
- tectonic dips, lava extrusion, 158B25:348
- tectonic discrimination diagrams
 basalts, 195A1:59
See also tectono-magmatic discrimination diagrams
- tectonic disturbance, fabric, 149B17:339
- tectonic domains, maps, 190A2:13
- tectonic drift, plates, 143B31:504-508; 195A1:18
- tectonic erosion, history, 186A1:9
- tectonic evolution, seismic stratigraphy, 204B2:1-29
- tectonic maps
 Cyprus, 160B54:732
 Mediterranean Sea E, 160B33:432; 54:724
 New Hebrides island arc, 134A1:8
- tectonic models
 basaltic volcanism, 210B9:29
 continental breakup, 210B9:31-33, 66-67
 ductile deformation and extension, 210B9:26-28
 faulting and uplift of peridotite ridge, 210B9:30-31
 in-plane compression, 210B9:30
 late-stage brittle deformation, 210B9:29-30
 serpentinite mass flows, 210B9:28
 serpentinized harzburgites, 210B9:25-26
- tectonic provinces
 Site 840, 135A(1)1:22-23
 Site 841, 135A(1)1:23
 Sites 834-839, 135A(1)1:21-22
- tectonic ridges, Atlantis II Fracture Zone
 origin, 118B21:371
 physiography, 118B21:371-373
 seismic stratigraphy, 118B21:370
 transtensional spreading and formation, 118B21:392
- tectonic rotation
 borehole elongation, 147B18:340
 Cagayan Ridge, 124B38:513-515
 Celebes Sea, 124B38:515, 519-520
 gabbros, 179A4:56
 hotspots, 130B43:700-701
 Japan Sea, 127/128B(1)11:179; 29:528
 magnetization, 147B24:413
 origin, 147B28:472-473
 plates, 195A1:18
 paleomagnetism, 153A3:107, 110-111
 seafloor spreading, 147B22:388-390

- stereographic projection, 147B28:473
- structure, 147B32:516–529
- tectonic structures
 - mass flow units, 160B37:474
 - within clasts, 160B45:583–584
- tectonic surfaces, lithology, 201A11:12
- tectonic terranes, maps, 210B2:32
- tectonic tilt, structural data, 160A10:361–362
- tectonic units
 - evolution, 134A9:230–236
 - Formation MicroScanner, 134B34:593, 597, 599
 - New Hebrides island arc, 134B23:418–427
 - offshore geology, 160B54:737
 - Pleistocene, 134A10:281
 - seismic reflection, 134B1:8–11
 - Site 829, 134A9:206–211
- tectonic veins. *See* veins, tectonic
- tectonic windows
 - seafloor spreading, 179A4:11–13
 - structure, 153B4:61–76; 179B(synthesis):7
- tectonics
 - accretion, 134B1:5–18
 - anchored slab models, 126B24:362
 - Antarctic region, 114A12:798–801; 114B12:233
 - arc bending, 126B24:362
 - Atlantic Ocean S, 114B21:368
 - backtracking, 202A7:26; 8:32; 9:29; 10:29; 12:24; 13:21; 202B1:49
 - Baffin Bay, 105B52:991
 - basement, 123A4:248; 5:272; 138A(1)11:269; 12:338; 183A1:11–12, 39
 - basins, 135A(1)1:33–34; 161B44:555–580
 - bathymetry, 194A1:4–5
 - block rotations, 129B25:459
 - breccia, 173A4:201
 - Broken Ridge, 121A1:5–12; 13:457
 - C Horizon, 207B1:4–12
 - Campanian/Maestrichtian boundary, 121A13:491
 - Cenozoic, 141A3:23–31; 182A1:3
 - Chile margin, 141A2:11–21
 - Chile Rise, 141A1:5–6
 - Chile triple junction, 141B3:29–31; 20:259
 - clockwise rotation, 126B24:357, 362
 - coastal plains, 150X_B27:361–373; 174AXS_A(summary):1–38
 - connection with climate, 167B32:370–372
 - continental crust, 210A5:36
 - continental margin, 133A(1)1:12–14; 152A13:288–292; 152B41:521–522; 178A1:4; 2:7–9
 - core reorientation, 135B19:301–311
 - Cote d’Ivoire-Ghana transform margin, 159B1:3–11; 2:13–23
 - Cretaceous, 159B10:93–99
 - Cretaceous/Tertiary boundary, 165A1:9; 165B2:29
 - cross sections, 141A8:290; 176A1:49–50
 - crust, 119A1:5–6; 152B39:466–467; 41:503–533
 - cycles, 159B12:120–121
 - Davis Strait, 105B52:991, 1005–1006
 - debris flows, 149B47:719–722
 - deposition, 161B7:95
 - diagenesis, 160B33:429
 - earthquake focal mechanisms, 147B28:462
 - Eocene, 165A3:103
 - evolution, 105B29:551; 129B5:144; 6:160; 135B1:3–5; 2:9–21; 5:84–86; 11:170; 12:173, 175, 186; 20:313–329; 25:429; 143A7:228; 153B7:123–124; 161A6:185; 161B5:73–75; 189A1:45–49, 98; 189B1:6–7; 198A1:6–8; 11:3
 - extension model, 125B11:271; 135B24:399–406
 - extensional basins, 161A1:10–11
 - extinct ridge axis, 105B52:990
 - fabric, 125A7:138–139
 - faults, 169A6:256–257
 - flow diagram, 146A(1)5:155
 - fluids, 141B25:313–314; 29:365–368; 153B22:400–401
 - forearc rotation, 126B24:362–363
 - full graben stage, 126B38:566, 570; 42:642
 - gabbros, 179B2:3–4
 - geological time sequence, 116A1:3–4
 - geology, 179B(synthesis):4–7; 190A2:1–14; 191A4:2–3
 - guyots, 143B28:421–425
 - Hawaii-2 Observatory, 200B1:3
 - Hess Deep, 147B28:461–475
 - hiatuses, 160B40:517–526; 51:684
 - horizontal and vertical movements, 143A1:7
 - Hydrate Ridge, 204A3:51
 - hydrothermal circulation, 168A1:7–10
 - hydrothermal mounds, 158A2:15–21
 - hydrothermal veins, 153B9:170–175
 - Iberia Galicia margin, 210B9:20
 - Indian Ocean N, 117A1:6
 - Indus Fan, 117A8:157
 - Islas Orcadas Rise, 114A9:486, 514; 114B1:19, 22
 - Izu-Bonin and Mariana forearcs, 125A1:5–6; 126B24:362–367
 - Kerguelen Plateau evolution, 120B(2)47:892, 905
 - Labrador Sea, 105B52:989–990, 998–1000
 - lithofacies, 159B11:111–123; 160B32:403–417; 53:718–720
 - magnetic properties, 120B(1)7:94–95; 129B25:456; 185A4:2–3
 - magnetostratigraphy, 134B25:447–456
 - mantle, 209B1:11–15
 - maps, 131B5:58; 170A1:8–9; 177A1:40; 178A1:30; 2:39; 193A1:32; 193B1:50
 - marginal basins, 133B27:402
 - mass flow units, 160B37:465–465
 - Mediterranean Sea E, 160A1:5–18
 - melting, 147B6:107, 109; 153B10:234–235
 - metamorphic rocks, 161B19:263–279; 20:281–294; 21:296–299; 22:303–304, 23:307–317
 - Meteor Rise, 114A10:551; 11:623, 684; 114B1:20, 22; 2:31–34; 25:470
 - Mid-Atlantic Ridge SW, 114A8:365–366, 411
 - Mid-Cretaceous interval, 129B18:349–351
 - millennial timescales, 177B(synthesis):1–55
 - Miocene, 133B27:393–394
 - models, 160B54:765; 193A1:33
 - monsoonal circulation, 117A4:49
 - mud volcanoes, 160B48:641–642; 50:665–680
 - Nankai Trough, 131A7:273–274

- New Hebrides island arc, 134B2:19–46
 Ninetyeast Ridge, 121A1:12; 15:534–535;
 121B38:765–766
 North America Greenland spreading, 105B52:990
 North Aoba Basin, 134B24:431–444
 Northeast Georgia Rise, 114A2:23; 5:97–98; 6:152,
 154, 193–194; 7:301, 304; 114B2:24
 Nuuanu landslide, 200B1:3–4
 Oman margin, 117B6:154
 orogenic belts, 161A1:6–8
 Owen Basin, 117A1:5
 Owen Ridge, 117A1:5
 Pacific Ocean, 138B1:8–9; 17:380–381; 35:718, 723;
 202A1:6–7; 202B1:13–19
 Pacific plate, 129B33:615–631
 paleoceanography, 181A1:3
 Paleocene–Eocene interval, 177A1:41
 paleoclimatology, 202A1:26–32
 paleocurrents, 180B6:42
 paleoenvironment, 160B36:453–463; 189A3:18
 paleomagnetism, 126B24:357; 209A1:21–23, 30–33,
 39, 44, 52–53, 63–65
 Papua New Guinea, 180A1:1–77; 3:1–20
 penetrative structures, 125A7:121
 peridotites, 149B22:397–413
 plate-kinematic models, 105B52:993
 Pliocene–Quaternary interval, 160A7:157; 8:217–218;
 17:516–517
 postdepositional structures, 125B11:271
 profiles, 161A6:186
 provenance, 180B7:44
 Quaternary paleoceanography, 195B3:2–3
 Raggatt Basin, 120B(1)9:129–130
 regional setting, 180B6:28; 7:25
 ridge-trench collisions, 141B13:185–186
 rift systems, 210A1:4–6; 210B1:1–55
 rift valleys, 179A4:6–8
 sediment transport, 180B7:45
 sedimentation, 135B53:849–850; 149B41:649–657;
 150X_B12:155–158; 14:181–183; 15:203–205;
 159B15:137–138; 161B2:32, 34; 3:50–52;
 162A8:266–268; 178A2:8–9; 190/196B1:8–9,
 24–25
 seismic reflection, 105B52:994–997; 131A2:15–20;
 156B9:127–128; 199A4:6–7
 seismic stratigraphy, 149B39:617–633; 182A2:3
 serpentinites, 149B36:577–591; 153B1:5–21
 serpentinization, 153B20:386–387; 195A3:53–54;
 195B1:2–4
 Site 565, 170A1:12
 Site 704, 114B25:472
 Site 713, 115A10:739–740
 Site 747, 120A6:143, 150–151; 120B(2)47:884–885;
 49:913
 Site 748, 120A7:227–231
 Site 787, 126A4:87
 Site 792, 126A8:271, 288
 Site 793, 126A9:372
 Site 800, 129B7:170
 Site 834, 135A(1)4:109–112
 Site 835, 135A(1)5:201–203
 Site 863, 141A10:377, 387, 423
 Site 864, 142A2:31–35
 Site 891, 146A(1)6:283
 Sites 790–791, 126A7:190
 Sites 921–923, 153B6:99–100
 sonar imagery, 135B23:373–382
 South China Sea, 184A1:3–4, 47
 Southern Ocean, 177A1:5–6, 40; 177B(synthesis):1–55
 stages, 152A13:290
 stratigraphy, 174AX_A1:42
 stress vs. water content, 134B30:544–545
 subduction zones, 134A9:229–250; 146B(1)6:119
 subsidence of passive margins, 105B52:997–998
 summary, 189A1:33
 thermochronology, 180B2:1–35
 Tiburon Rise, 171A_A1:5–6; 171A_B3:3
 Trans-Atlantic Geotraverse, 158A1:6–8
 transform faults, 176A1:6–8
 transform–subduction transition, 125B38:648, 652
 turbidite deposition, 117A9:209; 10:260; 190/
 196B3:3–4
 Vancouver Island margin, 146A(1)10:399–419
 velocity, 190/196B11:7–9
 volcanic oceanic plateaus, 192A1:4–6
 volcanoclastics, 180B8:9–13
 volcanism, 191A1:5
 well-logging, 126A8:289, 294, 309; 9:389;
 147B18:329–330
 whole plate rotation, 126B24:363–369
 zones, 160B54:751–753
See also compression; contractive structures; detach-
 ment tectonics; extension; fracture zones; geo-
 dynamics; gravity tectonics; horst-and-graben
 structure; neotectonics; orogenic belts; plate
 tectonics; seafloor spreading; shear zones; sub-
 sidence; tilting; uplifts; vertical tectonics;
 wrench tectonics
 tectonics, compressional
 composite depths, 160A10:363
 plate tectonics, 160A1:9–10
 uplifts, 160B51:690; 53:716–717
 tectonics, detachment, evidence, 149B38:603–615
 tectonics, extensional
 age, 161B44:577
 breccia, 161B25:335–340
 convergence, 186A1:4–5
 crystalline rocks, 153A3:114–115
 dynamic models, 149B40:636–645
 evolution, 149B38:607–608; 161B44:571–577
 geochronology, 161B22:304
 metamorphism, 161B23:310, 312
 middle Miocene, 161B25:331–344
 models and causes, 161B44:574–576
 ocean–continent transition, 149B47:723
 Permian, 123B43:801
 plate tectonics, 160A1:9–10
 serpentinite breccia, 149B35:573–574
 stratigraphy, 186B1:5
 subsidence, 149B39:628–629
 thermal history, 161B44:561
 tectonics, gravity, décollement structures, 159B3:30

- tectonics, intraplate, earthquake focal mechanisms, 147B28:462
 tectonics, postrift
 Cretaceous, 149B39:627
 tectonostratigraphy, 149B39:625–627
 turbidites, 173B6:4
 tectonics, regional
 correlation with regional volcanism, 130B25:430
 Ontong Java Plateau, 130A3:50–52
 reconstruction, 130B9:474
 tectonics, wrench
 clastic wedges, 159B2:19
 evolution, 149B36:584–585
 Lower Cretaceous, 159B2:18
 tectonites
 harzburgites, 147B6:127
 lithology, 147B16:117
 metagabbro, 118A6:159
 petrography, 161B3:39, 41–42
 photomicrograph, 161B3:55–56
 quartz-mica, 210B2:4–5
 tectono-magmatic discrimination diagrams
 basaltic rocks, 134A12:418
 lava, 129B18:349–351
 lava clasts, 143B16:272
 titanium-zirconium series, 134A8:157–158
 volcanic ash, 134A12:419
 See also tectonic discrimination diagrams
 tectono-volcanic events, Paleogene, 130B25:423–444
 tectonostratigraphy, 135B1:12; 52:834–839;
 141B27:331–334; 35:421, 423; 149B39:625–627
 teeth, accessory component, 188A3:74–75; 188B4:10
 Teichichnus
 Australian Shelf NW, 122B28:477, 484
 lithofacies, 160B32:408
 lithology, 160A8:223; 171B_A5:181, 186; 6:253, 257;
 7:324; 173A4:71–74; 174A_A3:57; 4:111; 5:159–
 161; 180A9:13; 181A6:12; 7:8–11; 8:6, 9; 9:6–7;
 191A4:11–12
 photograph, 173A4:82; 174A_A4:113; 181A6:51, 55;
 7:61; 194A3:29
 Site 698, 114A5:104
 tektites
 lithology, 185A3:6
 petrography, 150X_B3:35
 photograph, 150A8:218; 150B13:261–265;
 171B_A3:56
 upper Eocene, 150A8:226; 150B13:241–265
 vs. depth, 150A8:219
 See also microkrystites; microtektites
 telaginite, sediments, 143B12:183–184
 teleconnections, paleoclimatology, 167B32:370–371
 teleseismic events, downhole seismic experiments, 127/
 128B(2)74:1162, 1167–1168
 teleutospores
 coal, 180B10:10–11
 fungal tissues, 180B10:11
 photomicrograph, 180B10:31, 35
 television/sonar systems
 Atlantis Bank, 118A6:94
 positive displacement coring motor (PDCM),
 118A2:25; 3:42–44; 5:80–82, 92
 telinite, sediments, 143B12:183–184
 tellurium
 altered rocks, 193B1:48
 jasperoids, 193B9:6
 sulfides, 193B1:23; 10:4
 xenoliths, 193B6:4
 telocochs, specific characteristics, 134B15:326
 telocollinite, petrology, 180B10:8
 telovitrinite
 coal, 180B10:10–11
 petrology, 180B10:8–9
 photomicrograph, 180B10:22–31, 34–35
 temperate environment
 biostratigraphy, 189A6:27; 189B10:3; 198B5:9–11
 Tortonian/Messinian, 161B43:546–548
 temperature
 accretionary prisms, 146B(1)19:299–311
 accretionary wedges, 146A(1)9:395
 Adara temperature tool, 141A10:408–409; 181A4:46
 alkenone stratigraphy, 160B26:309–331; 165B16:239–
 247; 184B17:1–17; 202B7:4, 10–14
 alteration, 127/128B(2)51:839; 147B13:238; 15:302,
 304; 191A4:35
 amphiboles, 180B3:9
 anhydrite precipitation, 158B10:122–123
 anomalies, 118B20:349; 164A6:146; 175B(synthe-
 sis):6–7; 204A3:63
 apatite, 129B7:173, 176
 Atlantic Ocean S, 120B(2)56:1008
 Atlantis Bank, 118A6:90
 basalts, 185A3:45
 Bent Hill vs. Dead Dog Mound, 169A4:160
 black shale, 210B10:4–5
 boreholes, 143B14:237; 154A4:122; 155A11:305;
 12:360; 16:485; 20:619; 22:682; 159A5:121–122;
 6:204; 8:291; 173A7:212; 8:256
 bottom water measurements, 162A3:86; 6:200
 Broken Ridge, 121A6:152
 calculated from clinopyroxene, 147B10:203
 calibration, 141B20:263–267
 carbonate dissolution, 120B(2)36:661
 chloride, 164A7:198–199
 chlorites, 152B10:138
 clasts, 195A3:44–45
 clathrate stability, 127A6:281
 clay mineralogy, 159B4:39–40
 climate models, 199A3:5–9, 17–30
 color, 178B3:7
 Conical Seamount, 125B21:376; 36:602
 contaminated measurements, 127A4:136
 conversion of raw data to resistance, 204B23:31
 core pullout, 204B23:9
 cores, 146A(1)7:342; 146B(1)10:178; 164A7:184–186;
 9:288; 164B1:5
 CORK experiment, 156B19:247–252; 168A4:97–98,
 100; 5:153, 159–160
 CORK-II experiment, 205A2:6–7, 23
 crystallization, 148B3:21–35; 176B4:11–12, 38, 56
 data logger, 205A4:154

- Davis-Villinger probe, 205A4:55–57; 5:37–39
 decay models, 194A5:71
 deformation, 118A6:131–132, 139
 descent and ascent profiles, 201B21:6
 diagenesis, 127/128B(1)9:148–149; 159B8:74–76;
 196A1:4
 dinoflagellates, 151B14:280–281
 downhole measurements, 131A6:179–185;
 133A(1)5:164–165; 134A7:122–123;
 148B20:291–296; 162A4:124; 6:204; 9:320;
 10:367–368; 164A6:113, 185; 206A3:49–50
 drift rate, 119A6:205
 drilling disturbance correction, 118B19:347, 349
 Eocene, 120B(2)44:839
 Eocene/Oligocene boundary, 120B(2)55:980, 983
 equilibrium profile, 118A6:167–168; 118B20:352–
 354; 164B26:258–260
 expected decay curve, 127A6:298–299
 extinctions, 120B55:989–991
 faunal diversity, 120B(2)55:983
 fluids, 137/140B16:194–195; 147B11:219–223;
 14:274, 280–281; 153B22:407–410;
 158B13:163–190; 168B11:142; 193B1:33
 foraminifers, 167B7:135–137; 188B13:11
 fracture-controlled metamorphism, 147B10:198–199
 fractures, 124B8:112–115
 gabbros, 179A4:64–65
 gas hydrates, 127A6:288, 299–300; 164A6:144; 8:255;
 164B25:247–249
 general circulation models, 171B_A1:7–8
 geology, 169A1:12–13
 geothermal gradient, 123B27:520–521; 133A(1)9:324;
 173A4:98
 glaciation, 120B(1)12:164
 heat flow, 102A3:97, 131–138; 168B4:47
 high-resolution methods, 205A4:53–55
 hydrothermal activity, 157B26:435–436; 193B1:23–24
 hydrothermal veins, 153B9:167–170
 hysteresis, 154B11:183
 ice sheets, 120B(2)56:1001
 igneous rocks, 209A10:41
 ilmenite-magnetite vs. plagioclase, 118B4:98
 incoming plate, 205B1:26–28
 increase with depth, 127A4:135–136
 Indus Fan, 117A7:151
 isotopes, 121B15:304; 153B15:313; 160B13:178–179
 Japan Sea, 127A1:26–27; 128A1:20
 logging-while-drilling data, 193A3:87
 long-term measurements, 205B12:1–20
 lower crust structure, 127/128B(2)83:1343
 magnesium/calcium ratio, 202B12:15–19
 mantle, 209A1:13–14
 mass susceptibility, 183B12:21–22
 measurements, 193A4:61–64
 metamorphism, 147B12:233; 152B34:422
 microbial alteration, 185A3:52–53
 microfossil abundance changes, 120B(2)55:993
 mineralization, 158B22:307–308
 Miocene gradient, 121B8:215
 modern annual average, 202B12:35
 monitoring system description, 131A5:65–66
 mud volcanoes, 160B48:639
 nannofossils, 120B(1)13:192; (2)29:523; 63:1096
 negative gradient, 118A6:168; 118B14:266–268
 Neogene, 188B1:13; 202B1:3–4
 Neoglacial, 178B34:7
 ocean bottom water, 209A9:27, 101
 oceanography, 169S_A2:15–16
 ODP Nankai downhole observatory (ONDO),
 131A6:199–201
 Oman margin, 117A2:26; 7:151–153
 opal-A/opal-CT transition, 121B27:522; 127/
 128B(1)1:14; (2)73:1145–1147; 79:1263;
 81:1305–1306; 128A4:150; 5:280
 opal-CT formation, 127/128B(1)3:49
 opal-CT/quartz transition, 127/128B(1)1:17;
 (2)79:1263; 128A5:280
 opal dissolution, 127/128B(1)17:310
 open-hole measurements, 168A5:145
 organic matter, 172A6:278, 281; 174A_A4:127–128;
 175A5:132; 6:167; 10:298; 11:327; 12:375;
 13:412
 Owen Ridge, 117A2:26; 7:151–152
 oxygen isotopes, 120B(2)44:850–851; 153B26:467–
 468; 166B2:17–21; 192B2:4
 paleoclimatology, 202B12:1–51
 Paleogene, 120B(2)56:1004–1005
 parental magmas, 157B22:388–389
 pelagic muds, 195A4:40
 permeable sand, 127A6:299
 perturbation, 207A4:34
 planktonic foraminifers, 120B(1)2:379; (2)32:583–
 584; 152B12:176–177
 Pliocene, 202B13:1–27
 plots of temperatures, 150A6:108–110; 7:180–181
 pore water, 154B13:201–206; 159B8:77–78; 201A1:38
 pore water sampler, 102A3:95, 133
 porosity, 164B41:431–434
 positive anomalies, 118A6:167
 profiles, 198A5:77, 102
 Prydz Bay, 119A4:110
 pyroxenes and amphibole-plagioclase series,
 176B4:38
 records, 169A3:137; 4:194–195; 5:232; 6:295;
 169B10:16; 181A8:80
 reduction to equilibrium, 134A7:132–133
 remanent magnetization, 153B24:435; 210B15:24
 remineralization, 199B20:17–19
 rock magnetism, 154B11:181–182
 Rock-Eval pyrolysis, 159A6:193; 210A3:97
 rodingitization, 147B14:283–284
 sea ice, 178B25:9
 sediment exposure, 139B28:503–504
 sediments, 131A6:244; 133A(1)10:372–373; 13:531;
 146A(1)5:201; 156A6:164–167; 157A4:84;
 6:163; 7:369; 10:533; 162A9:313; 168A6:179–
 180; 169A3:133–134; 4:186–188, 196; 5:231;
 174A_A4:128; 177A3:66; 4:97; 182A5:25;
 184A8:9; 188A5:95; 189A3:38–40, 46–47; 7:41–
 42, 138; 190A4:26–27, 57, 75, 147; 5:31, 77;
 7:18–19, 44; 194A5:21, 26–27; 6:24; 9:20–21;
 195A5:13–14; 199A8:19; 11:30–31; 12:32;

13:27-28; 204A3:29-30, 40, 129; 4:128; 5:67;
 6:82; 7:75; 8:95; 9:96; 10:116; 11:16-17, 61
 seismic stratigraphy, 133A(1)4:111; 204B1:33
 serpentinization, 147B14:282-283; 153B3:47-49
 shear zones, 153B7:130-132
 silica transformation and oxygen isotopes, 127/
 128B(1)3:49
 sill intrusion, 169A3:101-102
 Site 698, 114A5:95
 Site 704, 114B3:39-41
 Site 709, 115A7:490, 493, 504
 Site 736, 119A5:150-153
 Site 737, 119A6:198, 206-207
 Site 738, 119A4:110
 Site 744, 119A13:495, 499-503
 Site 745, 119A14:524, 533-534
 Site 747, 120A6:126
 Site 748, 120A7:218, 229; 120B(2)27:502-503
 Site 750, 120A9:298
 Site 765, 123B27:515-518
 Site 780, 125A8:169-176
 Site 782, 125A10:241
 Site 783, 125A11:266-267, 271
 Site 784, 125A12:293, 299, 302-303
 Site 786, 125A15:372
 Site 794, 127A4:73, 140-142
 Site 795, 127A5:174, 230-232
 Site 796, 127A6:251, 296-301
 Site 797, 127A7:390, 396-397
 Site 798, 128A4:183-184, 213-214
 Site 799, 128A5:338-339, 365
 Site 834, 135A(1)4:154
 Site 835, 135A(1)5:229
 Site 837, 135A(1)7:327
 Site 838, 135A(1)8:377
 Site 839, 135A(1)9:454
 Site 840, 135A(1)10:547-548
 Site 841, 135A(1)11:654
 Site 859, 141A6:126-134
 Site 860, 141A7:215-222
 Site 861, 141A8:280-283, 286-290
 Site 863, 141A10:404-409, 412
 Site 888, 146A(1)4:91-95
 Site 889, 146A(1)5:194-201
 Site 890, 146A(1)5:194-201
 Site 891, 146A(1)6:277, 282
 Site 892, 146A(1)7:349-355
 Site 897, 149A4:106, 108
 Site 898, 149A5:143-144
 Site 900, 149A7:257-258
 Site 918, 152A11:249, 251
 Site 948, 156B18:239-245
 Sites 794-797, 127/128B(1)3:51, 56
 slab samples, 164A7:185
 Southern Ocean sonobuoy stations, 119A3:107
 stable isotopes, 178B20:3-4
 stresses, 148B23:323
 strontium isotopes, 127/128B(1)36:644
 subduction, 125B36:610-611
 sulfides, 158B9:116
 Sulu Sea, 124A7:103, 105; 11:274

taxa, 120B(2)29:528; 30:540; 33:598; 36:657
 tests, 201B21:1-21
 thermal maturity, 180B16:4
 tools, 133A(1)15:647-649; 164A7:215; 168A6:200;
 204B9:25
 typical temperature record/water sampler tempera-
 ture probe (WSTP) tool, 127/128B(2)81:1299
 veins, 176B9:17-19, 37
 vs. 1/time, 131A6:245-247
 vs. acetate, 204B17:17
 vs. age, 160B26:316-319, 323-328; 167B4:112;
 177B(synthesis):39, 47; 189B1:29; 198A1:97;
 202B1:50, 52
 vs. Bullard depth, 149A7:257-258; 149B44:680
 vs. burial depth, 146B(1)7:145
 vs. calcite dissolution, 168B8:97
 vs. carbon isotopes, 147B14:280
 vs. chloride, 162A9:319; 164A7:204
 vs. cumulative thermal resistance, 166B10:115, 117;
 170A3:93
 vs. depth, 102A3:103, 140, 141; 131A6:249-250;
 133A(1)10:386; 12:479; 16:717; 134A9:243;
 11:362; 135A(1)4:163; 5:238; 10:548; 11:667;
 137A2:45-47; 137/140B16:196; 140A2:46, 144-
 145; 141A6:132-133, 138; 7:226; 8:290; 10:418,
 421; 141B20:264-268; 29:366; 144A10:324;
 145A5:183; 6:278; 8:383; 146A(1)4:94-95, 104;
 5:205, 220-221; 7:363; 146B(1)19:303, 306;
 28:420; (2)9:130; 148A2:36, 75; 3:172;
 148B7:92-93; 9:117; 20:292-295; 150A6:110;
 7:182, 185; 8:241; 9:286, 297; 10:339;
 151A5:105; 6:198; 7:207; 8:249; 9:297; 10:339;
 12:394; 152A11:256; 154A4:134; 5:207, 216;
 6:272; 154B19:287; 20:300; 155A6:121; 7:162,
 167; 8:199; 9:229, 233; 10:269; 11:308, 312;
 12:369, 373; 13:408; 14:436; 15:461; 16:494,
 496; 17:535; 18:566; 20:625, 627; 22:685, 687;
 156A6:169; 7:252; 156B18:242, 250; 157A4:91;
 6:173; 10:542, 545; 158A3:28; 158B14:185;
 21:291; 159A5:74, 123; 8:284, 292; 160A6:148;
 7:206; 8:272; 9:317-320, 328; 10:374; 11:408;
 13:464; 160B44:570; 161A4:100; 5:167; 7:330;
 9:418; 161B10:122; 29:388; 162A3:86; 4:125;
 6:200, 205; 9:323, 328; 10:377; 164A6:149, 152;
 7:184, 220, 223; 9:287, 289, 313, 316;
 164B26:256-257; 166A6:93, 109; 7:167; 8:201;
 9:264; 10:325; 11:369; 166B10:115, 118;
 167A(1)1:10; 4:83; 5:115, 117; 6:153; 7:174;
 8:208-209; 10:269, 271; 11:308; 12:342; 13:376;
 14:418; 15:458; 16:483-484; 167B10:156-159;
 32:345; 168A5:157; 168B13:164; 169A4:195-
 196; 5:232-233; 6:295; 170A3:93; 4:151; 5:188;
 171A_A5:56; 171B_A6:232; 173A4:98; 7:216;
 8:262; 176B4:22; 177A4:56; 8:59-62; 9:46-48;
 178A4:93; 5:80, 87; 8:58; 180A5:103-104, 108;
 6:214-215, 218; 7:64; 8:118-119; 9:154, 157;
 12:156-157; 180B10:17; 181A3:29, 71; 9:51, 58;
 182A5:58; 6:77; 7:60; 9:50, 56; 10:61;
 183A7:179; 184A1:68; 4:70-71; 5:65-66; 6:46-
 47; 7:64-65; 9:77-78; 186A4:150-151; 5:35, 86;
 186B3:11, 13; 188A3:158, 172; 4:99; 5:80, 84;

- 188B15:12; 189A3:89, 106; 5:41–44, 89, 102;
 6:45, 49–50, 102, 114; 7:93; 190A4:57, 75, 90;
 5:77, 84; 6:52, 59; 7:44, 52; 9:62; 193A3:86–87,
 257; 4:218; 194A5:72, 84; 6:67; 196A1:22;
 198A5:78; 199A11:74; 12:80; 13:65; 201A1:61;
 4:13–15; 6:68, 70, 85; 7:47, 73, 95; 8:55, 66;
 9:55, 71; 10:59, 77; 11:75, 80, 104; 12:49, 64;
 201B21:15; 204A3:74–76; 4:22–23, 64, 74, 99;
 5:14, 38, 43–44; 6:17–18, 50, 53, 69; 7:18, 49,
 56; 8:20–21, 57; 9:19, 54, 64, 76; 10:65–69, 90;
 11:42, 47, 52; 204B1:34; 9:17, 19–23; 23:7;
 205A4:156; 206A1:70; 3:160; 207A4:75;
 209A10:150; 210A3:281
- vs. depth integral of thermal resistivity, 134A10:303
- vs. distance along core, 201A4:11
- vs. electrical conductivity, 124B7:93, 96, 99–102
- vs. heat capacity, 148B31:399
- vs. hydrogen index, 159A5:108; 6:192; 161B29:389;
 210A3:282
- vs. integrated thermal resistivity, 134A12:457;
 161A4:105; 5:167; 6:276
- vs. isothermal remanent magnetization, 161B9:115
- vs. lithology, 114B3:43
- vs. magnesium number, 176B8:19
- vs. magnesium oxide, 152B30:365
- vs. magnetic intensity, 193A3:246; 204B18:12
- vs. magnetic susceptibility, 154B10:173
- vs. methane/ethane ratio, 204A4:72; 6:48; 8:55
- vs. opal-A/opal-CT bottom-simulating reflection two-
 way traveltime, 127/128B(2)73:1152
- vs. oxygen fugacity, 135B40:661; 152B33:413;
 179B2:43
- vs. oxygen isotopes, 167B32:359
- vs. pressure, 146A(1)5:205; 164B2:27–28; 204B26:11;
 209A1:132
- vs. production index, 151A12:394; 156A6:144
- vs. radiolarian preservation, 141A7:179
- vs. record number, 167A(1)4:82; 5:115; 6:153; 7:173;
 8:207; 10:269; 11:307; 12:342; 13:376; 14:418;
 15:458; 16:483
- vs. remagnetization, 170A5:173
- vs. resistivity, 114B3:41–44; 124B6:84, 86; 128A3:111
- vs. run in phenocrysts, 148B3:31, 34
- vs. salinity, 158B14:185; 160B26:324, 330; 161A1:13;
 172B(overview):11; 177A1:42; 210B5:15
- vs. saturation magnetization, 157B6:58
- vs. theoretical decay functions, 168A4:98–99; 5:156;
 6:195–196
- vs. thermal conductivity, 164B2:25
- vs. thermal demagnetization, 164A7:193
- vs. thermal resistivity, 115A7:505; 125A8:177; 11:272;
 12:304; 127A4:142; 5:235; 6:300; 7:397; 127/
 128B(2)81:1302; 134A13:535; 135A(1)10:548;
 11:667; 156B18:245; 161A7:345; 9:419
- vs. time after penetration, 169A5:232
- vs. time and pressure, 148B31:400
- vs. time for water sampler temperature probe,
 134A7:132–133
- vs. time since penetration, 169A4:195; 6:295
- vs. time, 102A3:135–141; 127A5:235; 131A6:241,
 245–247; 134A10:301–302; 11:361; 12:455–457;
 13:534–535; 135A(1)10:548; 11:666;
 141A6:127–132, 138; 7:225–226; 8:287–290;
 10:415–420; 141B20:266; 146A(1)4:94–103;
 5:199–204; 6:278–279; 7:355–362;
 146B(1)19:302; 149A5:144; 7:257–258;
 152A11:252–255; 154A5:206; 156A6:167–168;
 7:251; 156B18:242, 250; 157A8:430; 9:479–480;
 10:543–544; 158A3:28; 159A5:74; 160A7:206;
 161A4:105; 5:167; 6:271, 276; 7:345; 9:419;
 161B21:300; 164A6:148; 7:218–220; 9:311–312;
 166A6:109–110; 10:325; 11:369; 168A4:98–99;
 5:156–157; 6:195–196; 170A3:92; 4:150; 5:188;
 171B_A6:231; 177A3:42; 180A5:105–107;
 6:216–217; 7:63; 9:155–156; 12:158; 184A8:30;
 186A4:149; 5:85; 188A3:155–157; 5:79;
 189A3:105; 190A4:89; 5:82–83; 6:57; 7:49–51;
 9:61; 193A3:248–249, 258; 4:219, 227;
 195A3:132; 4:151, 156; 5:38; 201A6:52–53;
 8:54; 9:54; 10:58; 11:74; 204A4:82–83; 5:47, 49;
 7:55; 11:46; 204B9:16–18; 23:6–7, 20–30;
 205A4:152, 155–158; 5:88–91; 205B1:52; 12:14–
 18; 209A3:154
- vs. transformation ratio, 180B16:12
- vs. water depth, 178A2:34; 202B12:36; 205A4:153
- wall rock, 147B8:168
- water, 164A7:197; 164B11:120–122
- water-sampling probe, 164A7:195–196
- well-logging, 118A6:165–171; 118B14:266; 19:347;
 28:555; 123A4:241, 245; 133A(1)13:540–541;
 139A6:247–251; 146A(1)5:216–217; 7:369;
 149A6:199; 151A7:202; 157A9:466–467;
 166A8:196; 176A3:88; 180A8:43; 9:58; 12:51;
 195A4:44; 204A4:32–33; 6:25; 9:28–29; 10:37;
 11:20
- zeolite-facies metamorphism, 120B(1)4:67–68
- See also* conductivity-temperature-depth profile; fluid
 inclusions; Lamont-Doherty Geological Obser-
 vatory temperature tool (LDGO); microther-
 mometry; paleotemperature; pressure-
 temperature conditions; water sampler tempera-
 ture probe (WSTP)
- temperature, air, vs. core temperature, 201A4:9
- temperature, alkenone sea-surface
- vs. chain length, 160B22:279–280
- vs. organic carbon, 160B22:280
- temperature, APC downhole
- sediments, 150A7:178
- Site 902, 150A6:104–107
- Site 903, 150A7:182
- temperature, basement, vs. distance from ridge,
 168A1:11
- temperature, blocking
- magnetization, 135B45:717–719
- measurements, 121B16:361
- temperature, borehole
- mixing effects, 148B9:115–117
- sediments, 151A6:141–142
- Site 883, 145A5:156
- Site 884, 145A6:249
- Site 887, 145A8:360
- tools, 204A3:101

- well-logging, 151A8:259; 154A5:210; 6:267
 temperature, bottom-hole
 geothermal regime, 166B10:113–120
 inverse-problem history, 166B10:118
 sediments, 151A6:138; 7:195
 temperature, bottom water
 hole-bottom measurements, 133A(1)13:550
 Indus Fan, 117A7:151
 Oman continental margin, 117A7:151
 Owen Ridge, 117A7:151
 temperature, catwalk core, tools, 204B23:2–3
 temperature, core
 distribution, 164A8:260
 vs. depth, 164A6:115; 7:186
 temperature, core-liner
 vs. scan time, 201A7:56
 vs. thermal data, 201A4:16–19
 temperature, core slab, gas hydrates, 164A6:113
 temperature, corrected, sediments, 146A(1)7:361
 temperature, deepwater
 Islas Orcadas Rise, 114B27:482, 491
 Meteor Rise, 114A11:622
 Northeast Georgia Rise, 114B27:482
 Southern Ocean, 114B27:493
 temperature, downhole
 sediments, 151A8:247; 10:337; 171B_A6:301
 Site 859, 141A6:137–139
 Site 902, 150A6:110
 Site 903, 150A7:183
 Site 904, 150A8:240–241
 Site 905, 150A9:294–295
 Site 906, 150A10:338
 temperature, extrapolated equilibrium
 basement, 168A4:99; 5:158; 6:198
 measurements, 168A6:195
 sediments, 168A4:97
 vs. depth, 168A4:99; 5:157; 6:196–197; 172A5:240
 temperature, homogenization, 158B13:172; 14:184
 temperature, in-hole, signals, 201B21:6
 temperature, in situ
 Adara tool measurements, 159A5:74; 171B_A7:347
 cores, 149A4:107–108; 5:143–144
 estimation, 204A3:82–83; 6:56; 10:25–26; 204B9:4–6
 lithology, 199A11:124; 12:127; 13:92
 measurement methods, 201A1:49
 porosity, 190A9:26
 sampling, 164B1:5
 sediments, 160A9:321; 10:374; 14:464; 170A3:91;
 4:149; 5:187; 171B_A6:231; 182A4:35; 6:33,
 112; 7:25–26, 82; 8:27; 9:23, 78; 10:28, 83;
 12:23; 186A4:204; 5:120; 188A3:62; 189A3:46–
 47; 5:51; 6:55; 7:47; 190A4:34, 88–90, 147;
 5:34–35, 82–84, 149; 9:26–27; 195A3:170;
 198A5:32; 201A6:31; 7:33; 8:26–27; 9:24–25;
 10:27–28; 11:31–32; 12:25–26
 Site 930, 155A6:115–116
 Site 931, 155A7:163
 Site 932, 155A8:196
 Site 933, 155A9:230
 Site 934, 155A10:264–265
 Site 935, 155A11:307–308
 Site 936, 155A12:362
 Site 937, 155A13:402–403
 Site 938, 155A14:431–432
 Site 939, 155A15:454
 Site 940, 155A16:487
 Site 941, 155A17:525–526
 Site 942, 155A18:563–564
 Site 944, 155A20:621–622
 Site 946, 155A22:682–683
 Site 954, 157A8:424
 Site 955, 157A9:468–470
 Site 956, 157A10:534
 Site 974, 161A4:93
 Site 975, 161A5:153–154
 Site 976, 161A6:244–246
 Site 977, 161A7:328–329
 Site 979, 161A9:410
 Site 994, 164A6:144–147
 Site 995, 164A7:215–220
 Site 997, 164A9:310–313
 Site 1003, 166A6:104–105
 Site 1004, 166A7:166
 Site 1005, 166A8:201–202
 Site 1006, 166A9:260, 264
 Site 1007, 166A10:324
 Site 1051, 171B_A5:216–217
 Site 1053, 171B_A7:339
 Site 1108, 180A5:42–43
 Site 1109, 180A6:76
 Site 1115, 180A9:58–59
 Site 1165, 188A3:62
 Site 1167, 188A5:30–31
 Site 1173, 190A4:34, 88–91, 147
 Site 1175, 190A6:24–25, 57–59, 92
 Site 1176, 190A7:20–21, 49–53, 80
 Sites 1008–1009, 166A11:368–369
 Sites 1110–1113, 180A7:25–26
 vs. depth, 157A9:480; 10:544; 171B_A7:348;
 182A8:60
 vs. time, 139A5:158–159; 157A8:431; 204A6:56; 8:63–
 64; 9:62–63; 10:75–76
 well-logging, 149A7:257–258
 temperature, isotopic
 opal-CT, 127/128B(1)3:55–56
 quartz, 127/128B(1)3:55–56
 temperature, maximum
 Site 798, 127/128B(1)38:668–669
 Site 799, 127/128B(1)35:624–625; 38:668–669
 vs. hydrogen index, 182A7:47
 vs. transformation ratio, 127/128B(1)35:630
 temperature, mean, annual, Cenozoic, 152B16:226–227
 temperature, mean blocking (MBT), 126B25:372
 temperature, melting, magnesium number, 152B30:365
 temperature, paleosea-surface
 sediments, 167A(1)11:296–297, 305; 13:369, 374
 vs. depth, 167A(1)11:306; 13:374
 temperature, potential, vs. salinity, 172A1:9
 temperature, precipitation, vs. anhydrite partition coeffi-
 cients, 158B11:139–140
 temperature, relative
 vs. depth, 168A2:27

- vs. time, 168A2:27
temperature, residual, vs. depth, 166B10:117
temperature, seafloor water
 fluctuations, 107A7:323
 Marsili Basin, 107A6:163
 mechanism for change, 133B19:275–276
temperature, sea-surface
 African monsoonal effects, 108B13:205
 alkenone unsaturation index, 112B35:547, 552
 alkenones, 161B39:489–503; 167B26:297, 301–302;
 32:359–360, 373; 190/196B13:1–10
 Antarctic region, 114A12:801; 114B5:98
 Atlantic Ocean E tropical, 108B13:206–207
 calcareous nannofossils, 127/128B(1)11:180
 calcium carbonate, 108B13:208, 210
 changes, 146B(2)21:290; 23:323
 climatic effects, 118B20:353; 177B(synthesis):10–12
 coastal upwelling, 112B35:548–549
 continental margin, 167B7:137–138
 core RC24–7 correlation, 108B13:195
 data, 130B16:281–305; 27:605–613
 diatom abundance, 115B31:604
 effect on North African aridification, 108B29:465–466
 Eocene vs. modern, 119B38:707–708
 F-20 factor analysis, 108B13:194–195, 202–205
 fluctuations, 127/128B(1)27:463–465
 foraminifers, 127/128B(1)12:193; 138B34:702–704;
 181B1:21–22; 184B11:4–5
 greenhouse forcing, 207A1:8–11
 ice sheets, 108B29:464–468
 isothermal surface plot, 164A6:114–115
 Japan Basin, 127/128B(1)12:209
 Japan Sea, 127/128B(1)12:201; 19:337
 low-latitude circumantarctic, 108B29:469–471
 marine environment, 161B36:462
 Messinian, 161B43:545–546
 millennial cycles, 167B32:356, 373
 nannofossils, 188B11:6–7
 Neogene, 162B12:179–190
 Norwegian-Greenland Sea, 151A11:347
 ocean circulation, 138B35:722–723
 Oligocene oxygen isotope correlation, 119B41:742
 opal flux, 108B14:218–219
 orbital periodicities, 108B13:187–188; 127/
 128B(1)27:467–468
 organic matter, 150B18:336–337; 160A8:251–252;
 160B26:317–318
 oxygen isotope record, 127/128B(1)27:464–465, 468
 paleoceanography, 184A1:8–9; 184B17:11
 Paleocene thermal stratification, 119B38:714
 paleoproxies, 202B1:4, 24–29, 50
 paleothermometry, 167B10:153–161
 piston core RC24–7, 108B13:190–191
 planktonic foraminifers, 108B12:170; 127/
 128B(1)12:187
 Pleistocene, 108B13:197–198
 Pliocene, 107B1:15; 108B13:202; 145B3:49–50
 Pliocene–Pleistocene interval, 108B13:187
 precessional component, 108B13:202; 15:259
 Quaternary, 161B36:465; 189B1:19
 reconstruction, 112B35:547
 Saharan aridification, 108B15:259
 sapropels, 160B22:273
 seawater, 175B(synthesis):60
 seasonality, 115B30:586
 Site 699, 114A6:191, 198–199
 Site 700, 114A7:305–306
 Site 701, 114A8:411–413
 Site 702, 114A9:484, 498, 514
 Site 703, 114A10:552, 582
 Site 704, 114A11:622, 684; 12:802; 114B9:197, 199;
 10:207; 23:416; 25:468–469; 26:479–480;
 28:527, 529
 Site 716, 115B30:585–587
 Site 794, 127A4:102–103
 Site 795, 127A5:199
 Site 796, 127A6:273
 Site 797, 127A7:357
 Site 798, 127/128B(1)27:457–470
 Site 799, 128A5:310, 312
 site locations, 202A1:76–78, 113; 7:27; 8:34; 9:33;
 10:32; 11:28; 12:29; 13:25
 Southern Ocean, 119A15:551–553
 species abundance variation, 115B30:587–588
 strontium/calcium ratio dependency, 115B36:666
 subantarctic influence, 108B13:205
 T-cold estimates, 108B13:194–195
 tropical vs. bottom water temperatures, 119B48:870
 unsaturation index, 161B39:499–500
 vs. ablation, 188B14:32
 vs. age, 138A(1)11:308; 138B27:611; 145B3:50;
 175B19:16; 23:40–41; 184B11:18; 17:13, 15;
 195B3:25–26; 202A1:97–101; 202B13:20, 24–25
 vs. depth, 160A5:120; 7:196; 8:260; 10:371;
 167B32:360; 184B18:14; 190/196B13:9
 vs. mass balance, 188B14:32
 vs. productivity, 114B31:592–593, 595
 warm vs. cold data, 115B30:586, 588
 warming-trend isotopic effects, 121B11:247
 See also paleotemperature
 temperature, sea-surface, history, 171B_A1:7–8
 temperature, sea-surface (alkenone), comparison to in-
 terglacial lowland forest, 167B32:362
 temperature, sediment, transects, 168A1:18
 temperature, sediment/basement contact, vs. distance
 from ridge crest, 168A1:16
 temperature, summer sea-surface
 inversion layer, 177B(synthesis):45
 oxygen isotopes, 177B(synthesis):43–46
 Pleistocene, 177B14:1–23
 Pliocene, 180B11:13
 vs. age, 177B(synthesis):45; 14:8
 temperature, subsurface
 sediments, 204B9:1–25
 vs. depth, 204A3:84; 4:84; 5:48; 6:57; 8:65; 10:77
 temperature, surface air, weather stations, 166B10:118
 temperature, surface water
 change mechanism, 133B19:274–275
 isotopic correlation, 119B38:711–715
 Pliocene warming, 107B38:696
 Tertiary, 133B20:285

- temperature, trapping
 black smokers, 158B28:395
 vs. depth, 158B13:171–172; 14:185
See also fluid inclusions; microthermometry
- temperature, unblocking
 magnetization, 130B4:52, 54; 190A5:18
 sediments, 139B46:726
- temperature, upper ocean
 nutrients, 138B13:289–319
 oxygen isotopes, 138B39:804
 sea surface, 138B27:605–613
 Sulu Sea, 124B29:381–382
 vs. age, 138B27:611
 vs. depth, 138B22:505
- temperature, vertical, 202B12:12–13
- temperature, water, 204A1:53
- temperature, WSTP
 depths, 149A7:258
 rocks, 149A4:110
 vs. Bullard F function, 149A4:111, 144
 vs. time, 149A4:111
- temperature boundaries, 190A1:36
- temperature events, 205B12:5–6
- temperature history, 167B32:352
- temperature inversion, Site 504, 137/140B27:317–318
- temperature logging tool (TLT)
 methods, 123A4:241; 5:342; 123B27:515–517
 Site 780, 125A8:169–174
 Site 782, 125A10:221
 vs. depth, 136A5:92
- temperature logs
 anomalies, 209A3:48
 basalts, 144A10:323
 correlation, 131A6:209–213, 220, 229, 233;
 133A(1)12:478–479
 gas hydrates, 172A5:245
 high-resolution, 140A2:112–116
 lithology, 160A8:263; 9:324; 11:399; 188A4:42
 measurements, 193A3:94–95
 sediments, 133A(1)8:281, 284; 10:379; 178A4:29–30;
 5:25–26, 29; 7:20; 9:22
 Site 504, 137A2:42–47; 137/140B28:321–324;
 148A2:74–75
 Site 798, 128A4:125, 183–184, 213
 Site 799, 128A5:338–339
 Site 814, 133A(1)7:225–226, 237
 Site 823, 133A(1)16:723, 725
 Site 863, 141A10:418–421
 Site 865, 143A6:150–151
 Site 866, 143A7:238
 Site 896, 148A3:168
 split cores, 178A8:18–19
 stratigraphy, 201A6:34–35; 7:37; 10:30–31; 11:35
 tool string, 201A7:78
 vs. depth, 133A(1)5:170; 137/140B25:296; 26:306,
 308; 27:314; 28:322; 143A6:167; 7:244;
 147A3:104; 164A6:145; 7:216; 172A5:246;
 6:303; 178A9:71; 180A5:102; 200A1:56; 4:51–
 52, 147; 200B1:30; 201A6:73; 9:59; 10:63;
 11:79, 85
 vs. hydrogen index, 143B12:187
- vs. pressure, 133A(1)7:237; 8:292; 9:338; 10:401;
 12:500; 13:558; 14:608; 15:669; 16:747;
 146A(1)7:369
 vs. time, 133A(1)10:395
See also transient temperature logs
- temperature oscillations, 177B(synthesis):11
- temperature-pressure-conductivity tool, 204B23:1–41
- temperature probe, pore water, 164A9:296–297
- temperature-salinity field, 117B17:292
- tempestites
 lithology, 182A4:11–12
 photograph, 207A5:51–53
- tennantite, sulfides, 193A4:39; 193B10:4–7
- tension cracks, compressional wave velocity, 189A3:46
- tension gashes
 Izu-Bonin forearc, 126B13:206
 photograph, 134A12:431; 13:515; 153B1:12;
 160A14:483; 186A5:89; 206A3:267; 209A3:121–
 122
 photomicrograph, 206A3:280
 serpentine, 149B22:404–405
 stylolites, 130B26:445
 veins, 137/140B20:233–234; 140A2:111; 159B1:4–5;
 206A3:75–76
- tension logs, vs. depth, 145A3:78; 156A6:163
- tensioning/miniriser system, Shatsky Rise, 132A1:8
- Tensor tool, orientation, 180A6:255
- tensors, normal faults, 160A16:509
- tepee structures
 algal laminites, 143A7:200
 Barremian, 143A7:208
 lithology, 207A6:9
 photograph, 207A6:51
See also laminites
- tephra
 age, 121B14:27; 161B12:148
 air fall deposits, 121A15:520–521; 135B4:52–53
 alteration and glass replacement, 124B14:211
 Celebes Sea, 124B4:61
 Cenozoic, 144B42:702–703
 color, 126B2:27; 3:48–49, 60, 63, 69
 composition, 124B35:470–471; 126B2:34–35, 40;
 3:59–63, 69; 135A(1)4:104–109; 135B52:834;
 151B18:341–343
 Cornaglia Terrace, 107B18:294–295
 correlation, 124B34:462; 161B12:154; 186B9:8–9
 dating, 121B14:284–287; 151B17:312–315
 De Marchi Seamount, 107B1:15; 18:294–295
 deposition, 121B14:277; 156A6:100–101; 186B9:4–5
 derivation, 126B30:461
 diagenetic evolution, 104B17:348–349
 discrete layers, 119B17:326, 329, 331
 electron microprobe data, 152B8:96–97
 eruptions, 104B18:361–363
 evolution, 121B14:287
 fall definition, 107B18:293–294
 fallout layers, 157B16:276–277; 27:458
 feldspar composition, 121B14:284
 formation mechanisms, 121B14:287
 frequency, 126B2:33; 3:49, 61–63, 68

- geochemistry, 104B18:360–363; 114B40:736;
119B17:330–332; 121B14:274–284;
126B30:457–463; 33:514–515; 205B1:17–18
geochronology, 119B17:336; 157B11:127–129, 133–
134; 19:329–341; 27:458–459
glass shard morphology, 165A4:177–179
glauconite alteration, 104B17:342, 344, 347
Gortani Ridge, 107B18:294–295
grading, 121B14:277
grain size, 119B17:328; 126B2:35–39; 3:51, 59, 68–69;
205A5:57
heterogeneous layers, 104B17:344–350
homogeneous layers, 104B17:344–350
hotspot association, 121A13:471
ice-rafted transport, 119B17:333
islands, 157A2:14–15
Izu-Bonin arc, 126B3:48–69
layer macroscopic characteristics, 121B14:274–276
lithology, 104B18:357–361; 121A13:471–472; 15:522–
523; 135A(1)6:257–258; 9:416–417; 157A4:64;
5:112; 157B15:219–291; 165A6:308; 165B9:153;
170A3:53, 57, 60–61; 181A1:22, 24, 32; 6:6–7;
7:7–9; 8:5–6; 9:5–7, 77; 181B1:99; 3:2–3;
186A4:15–17; 5:14–15; 186B10:8–14; 197A3:12–
14; 205A4:20; 6:10
location, 205A5:93
low-alkali tholeiite series, 126B3:62
macroscopic characteristics, 121A10:274;
121B14:274, 276
magma petrogenesis, 121B14:287
magmatic evolution, 104A17:349–350
magnetostratigraphy, 181A8:27
major elements, 104B17:347–348, 354–356;
121B14:274, 284, 288–291
markers, 127/128B(2)48:796; 128A4:157; 5:291–292
Marsili Basin, 107A6:131; 107B17:256; 38:656
mass accumulation rates, 126B2:34
mineralogy, 104B17:338–342; 18:360–361;
119B17:325; 157B18:319
Miocene–Pleistocene interval, 183B1:23–24
multiple layers, 126B2:27
Neogene, 121B14:275
Neogene–Quaternary interval, 104A4:77–82
Norwegian Sea, 104A5:468–470
origin, 161B12:148–155
oxygen isotopes, 121B14:285
parental magma, 121B14:287
petrography, 126B2:30–32; 3:64–66; 186B10:22;
195A4:14–16
photograph, 157A4:66; 165B20:310; 170A3:59; 4:107;
177A5:38; 178A6:37; 181A6:48; 7:63; 8:53;
184A9:54; 205A5:56
photomicrograph, 205A4:85
Pleistocene, 107B1:16
Pliocene–Pleistocene, 181A8:54; 186B9:27–28
provenance, 119B17:329, 333
Sardinian margin, 107B1:13; 18:294–295
sedimentation, 104B18:361–363
simple layers, 126B2:27
Site 699, 114A6:193
Site 700, 114A7:268
Site 701, 114B40:733, 740
Sites 642 and 643 comparison, 104A6:625–626
smectite alteration, 104B17:342, 347
sources, 104B17:350–352, 356; 18:363–365;
107B18:300; 114B40:741; 126B2:35; 3:63;
30:460–463
stratigraphy, 104B18:357–360; 183B9:1–53;
205A5:15–16
tantalum, 126B30:461–462
textures, 104B17:338–339; 135A(1)5:198–200
thickness, 104B18:360; 121B14:276–277; 126B2:33,
49; 181A7:133
tholeiites, 205A5:61
Toba Caldera eruption correlation, 121B14:287
trace elements, 104B17:347–348, 354–356
transport, 152B5:51–64
Tyrrhenian Sea, 107B1:3; 18:295–297
volcanic glass classification, 104B17:341–342
volcanic sequence, 124B35:487
volcaniclastics, 165A3:85–86
volcanism, 165A8:386–388; 181A7:12–13; 181B1:24–
25
vs. depth, 177A5:37; 181A7:62; 9:36; 186A4:78
vs. time, 104B17:339–344
well-logging, 181A9:60
wireline logs, 157B3:29–37
See also pyroclastics; volcanic ash
tephra, basaltic vs. trachytic to rhyolitic, 119B17:329,
333
tephra, bioturbated, photograph, 186A5:60
tephra, calc-alkaline
lithology, 126B3:62; 30:459–450, 462
Kerguelen Islands, 119B17:335
tephra, dispersed, structure, 119B17:326
tephra, felsic, composition, 157B27:453
tephra, high-potassium, correlation, 126B3:63, 68
tephra, marine, vs. age, 165A8:388
tephra, primary
lithology, 186A5:8–9
photograph, 186A5:59
tephra, reworked, lithology, 186A4:15–16
tephra, rhyolitic, distribution, 181A8:52
tephra, shoshonitic, affinities, 126B30:460, 463
tephra, submarine, composition, 135B4:55–61
tephra, tholeiitic, affinities, 126B30:459–465
tephra, vesicular basalt, photomicrograph, 197A3:61
tephra clasts. *See* clasts, tephra
tephra fall deposits
basement, 183A6:23, 35–36
lithology, 183A7:13–14
middle Miocene correlation, 183B9:42
morphology and composition, 183B9:7–8
tephra layers
biotite, 165B20:302–304
grain size and thickness, 165B5:112
maximum feldspar crystal size, 165B5:112
trenches, 190A1:4–5
volcanism, 165B20:299–314
tephrite
photomicrograph, 180B8:42
volcaniclastics, 180B8:8–9

- tephrochronology
 argon-argon age, 183B9:8–9
 Cenozoic, 145B38:592
 fallout tephra, 135A(1)4:104
 interlaboratory comparison, 152B7:85–91
 Paleogene, 130B25:423–444
 Pliocene–Pleistocene interval, 186B9:1–29
 Site 758, 121B14:273
 Site 798, 127/128B(2)48:793–796; 128A4:153–157,
 196–198
 Site 799, 127/128B(2)48:793–799; 128A5:284–291
 Tyrrhenian Sea, 107A8:492
 volcanic ash, 144B42:698–699
 volcanic debris, 135A(1)4:109
 volcanism, 151B17:312–315; 181B1:24
- tephroite, metamorphic minerals, 153B31:536
- tephrostratigraphy
 Pliocene–Pleistocene interval, 186B9:1–29
 upper Quaternary, 186B10:1–22
- ter*-alcohols, spropels, 160B21:265
- ter*-alkanes, spropels, 160B21:265
- terbium
 ferromanganese crusts, 144B44:758
 Paleocene/Eocene boundary, 199B16:3
 Site 798, 127/128B(2)86:1370–1371
- terbium/lanthanum ratio, Cretaceous/Tertiary,
 119B39:726
- teredo-like mollusk borings, photograph, 192A4:52
- termination events
 foraminifers, 146B(2)21:288, 291–292; 175B7:2;
 11:20–23; 12:4, 6
 glaciation, 177B(synthesis):11
 lithofacies, 146B(2)22:299
 organic carbon, 184A5:15
 oxygen isotopes, 146B(2)1:9–12; 177B(synthesis):45
 marine isotope stages, 177A1:27; 177B(synthesis):12
 paleoclimatology, 146B(2)23:314; 167B7:136, 139;
 21:253
 paleosalinity, 202B1:26
 stable isotopes, 182B15:3
- terpanes
 oil seeps, 135B41:674–676
 sediments, 135B41:672–673; 146B(2)14:205–206
See also hopanes; hopanoid acid; hopanoids
- terpenes. *See* canthaxanthin
- terpenoids
 sediments, 146B(2)14:206
 Weddell Basin, 113B16:201–204
See also triterpenoids
- terra rosa, photograph, 134A11:334
- terraces
 guyots, 144B33:570, 572
 neovolcanic zones, 158A2:18–21
 Pleistocene, 160B54:733, 746
 side-scan imagery, 144B33:573
 terra rosa soil lithofacies, 144B14:277
- terranes
 accretion, 146A(1)1:5–7
 carbonate textures, 146B(1)6:123
 rifting, 189A1:9
 sources, 155B8:170
- tectonics, 146A(1)10:405
 Tertiary underthrusting, 146A(1)1:5–6
- terranes, accreted, continental crust, 210B1:5
- terranes, forearc
 chemical fluxes, 125A1:11–12
 origin and evolution, 125B1:3, 6, 8
 serpentine deposits, 125B1:9–10
- terrestrial environment. *See* terrigenous environment
- terrestrial input hypothesis, black shale, 210A3:55–56
- terrestrial sources
 biomarkers, 151B23:412
 organic carbon, 151B22:397–398
- terrigenous–carbonate transition, 189B1:4
- terrigenous component
 abundance, 130B28:474
 bulk sediments, 165A8:394, 396; 165B4:87–88
 chromium, 127/128B(1)42:723; 165A4:169–170, 173–
 174; 5:261
 clay mineralogy, 189B11:4–5
 coarse fraction, 178B15:11
 composition, 184A6:6
 core analyses, 127/128B(1)23:404
 cumulative percentage vs. depth and age, 165A4:173
 deposition, 167B18:227–234
 dissolution, 166B9:106–108
 distribution, 165A5:262–263, 275
 flux, 178B3:4–7
 geochemistry, 167B23:266–270; 168B7:87–94;
 184B12:5–8, 20–21
 glacial–interglacial variations, 127/128B(1)26:446
 grain size distribution, 208B2:1–13
 gravity flow deposits, 127A6:267
 influx, 127A1:16
 Japan Sea, 127/128B(1)24:409
 laminae, 146B(2)6:78
 light absorption spectroscopy, 199A5:5
 lithology, 162A9:298, 302; 164A6:111; 171B_A4:112;
 178A7:35, 39; 183A6:4; 201A11:12; 207B8:4–11,
 18; 210A3:30, 54–55; 210B8:17–18
 major and minor element chemistry, 127/
 128B(1)42:722–723
 mass accumulation rates, 114B28:521–529;
 154B7:147–148; 20:309–315; 22:336–342;
 23:364; 25:382–386; 31:467–469; 160B19:231,
 234, 237, 240; 164A6:149; 165A5:265;
 167B18:230; 206A3:44, 153
 Neogene, 185A4:18–19
 origin, 160B45:586–587
 petrography, 185B7:4–5
 provenance, 146B(2)7:91–94; 160B19:238, 241–242
 Quaternary, 189B1:19
 rare earths, 127/128B(1)42:729, 732
 sedimentation, 184A1:36–37
 sediments, 138A(1)8:101; 138B35:719–721, 725–748;
 160B19:230–233, 236, 239; 165A6:321;
 165B6:115–124; 167B14:205–206; 175B10:5–7;
 23:10–15; 184A1:8
 siliciclastics, 189B11:3–6
 Site 699, 114A6:158
 Site 700, 114B34:653
 Site 701, 114A8:406, 411–413

- Site 702, 114A9:490–491
 Site 703, 114A10:556, 585
 Site 704, 114A11:631–632
 Site 796, 127A6:250
 Site 798, 127/128B(1)23:401; 24:419; 26:446
 upper Pleistocene, 198B19:1–7
 visible and near-infrared spectroscopy, 199B11:11–17
 vs. age, 138B35:731, 735; 154A9:436; 154B12:198;
 15:234; 17:271; 23:355–356; 31:467; 165A4:173;
 165B4:97; 167B14:206; 18:230; 206B2:22; 4:22–
 23
 vs. depth, 165A3:79; 4:172; 5:263–264; 6:322; 8:392;
 175B1:19, 21; 177A5:33; 178A4:49–50; 8:30;
 185B7:13; 188A3:107; 206A1:66; 3:151
 vs. eolian dust, 185B7:14
 vs. niobium, 165A4:174
 vs. quartz abundance, 127/128B(1)23:403
 vs. volcanic ash, 165A3:76–79
 well-logging, 127/128B(1)23:402–404
 X-ray diffraction data, 127/128B(1)23:400–401;
 177A5:62–63
See also carbonate/noncarbonate ratio; sediments, ter-
 rigenous
 terrigenous/continental component, vs. volcanic com-
 ponent, 145A6:220
 terrigenous environment
 black shale, 207A10:12–13
 Eocene–lower Oligocene interval, 182A6:9–10
 lithology, 183A1:22
 Oligocene–Miocene sediments, 183B7:1–31
 paleoenvironment, 174AXS_A4:10–12
 palynomorphs, 183B3:6–9
 Pleistocene, 161B30:391–400; 31:409
 pollen, 151B16:298–301
 provenance, 161B4:65–66
 vegetation, 167B32:361–362
 volcanic basement comparison, 183B7:31
See also continental environment; paleoenvironment
 terrigenous facies
 deposition, 178A4:10–13; 178B25:10
 lithology, 178A4:5
 terrigenous flux
 beryllium-10, 154B26:389–394
 Ceara Rise, 154A9:436–437; 154B19:289; 31:465–473
 logs, 154A9:440
 reconstruction, 154A9:430, 436
 sedimentation, 154A7:327; 8:393, 395; 154B18:272;
 31:470–471
 terrigenous index, vs. age, 154B22:344
 terrigenous–pelagic sediment transition, 123A14:288;
 16:343
 terrigenous proxies, sedimentation, 177B(synthesis):6
 terrigenous sedimentation. *See* sedimentation, terrige-
 nous
 terrigenous sources, organic matter, 201B4:7–11
 Tertiary
 basalts, 163B12:135–148
 biostratigraphy, 136A4:41–42; 151B14:255–287;
 171B_A4:118–132; 183A3:7–8; 7:10–11;
 197A3:10–11
 chronostratigraphy, 133B20:281–289
 coralline algae, 133B5:67–74
 correlation, 133A(1)1:14, 15
 East Indian letter stage classification, 133B4:51;
 20:281–282
 lava, 152B32:387–402
 lithofacies, 150X_B1:5–7
 magmatism, 152A1:12–14
 paleoceanography, 160B52:701–708; 53:713–716
 paleoclimatology, 195A1:18
 pore water, 201A1:11–13
 Shimanto belt, 190A1:2
 volcanism, 152A5:49–50; 163B6:59–60; 192A1:6
See also Cretaceous/Tertiary boundary; Mesozoic–Ter-
 tiary evolution; Paleocene; Paleogene
 Tertiary, lower
 collisions, 160A17:513, 515
 East Mariana Basin, 129B31:551–569
 gravitational flows, 149B45:695
 lithology, 129A3:99; 129B14:268
 magmatism and extension, 151A11:348–349
 Pacific Ocean W, 129B31:551–569
 paleomagnetism, 129B23:431–446
 Pigafetta Basin, 129B31:551–569
 plate motion, 197A1:5–7
 sedimentation rates, 129B2:57; 23:436
 siliceous deposits, 129B2:41
 Site 800, 129A2:33–89
 Site 801, 129B2:40
 tectonics, 149B1:8–9
 turbidites, 173B6:1–11
 volcanic stratigraphy, 163B1:3–16
 Tertiary, upper, triple junctions, 141A3:25–26, 29–30
 Tertiary–Holocene interval, 160B54:744
 Terzaghi consolidation theory, 119B9:172, 174
 Tethyan, biostratigraphy, 210A3:81, 88
 Tethys
 agglutinated foraminifers, 149B8:209–210
 Albian, 159B29:366–367
 Cretaceous, 159B28:352
Glomospira event, 149B8:206–207
 tectonics, 160A1:5–6; 160B51:682–684
See also Atlantic–Tethys oceanic anoxic event; Neot-
 ethys
 tetractines, Atlantic Ocean S, 114B15:303, 310
 Tetraxons
 occurrence, 120B(2)43:834
 Site 795, 127/128B(1)30:543
 Teurian, foraminifers, 181A8:18, 20
 textinite, petrology, 180B10:8, 13
 texto-ulminite, petrology, 180B10:8
 textulariids
 abundance in carbonates, 144B9:176–177
 biostratigraphy, 133B26:366–371; 139A5:114–118
 turbidity currents, 157B17:307–309
 textural data set, sediments, 167B22:256–257
 textures
 alteration, 148B12:172; 149B22:399–405;
 157B26:429–439
 authigenic carbonates, 164B29:287–289
 basalts, 131A6:196; 165A6:326–329; 192A3:25–26;
 6:63; 203A3:11–12; 206B5:1–32

- basement, 196A3:93–95
biogenic sediments, 201B14:7–11
breccia, 149A6:188
carbonates, 165B14:228–229; 168B11:139
clay, 150X_B24:317–341
deformation, 118B22:400, 403; 24:422–426; 26:461;
161B25:332–334
diabases, 137/140B19:220, 223
dolomite, 175B15:12
gabbros, 118B24:418, 421; 26:461, 498; 147B2:27–28,
33; 153B6:99–121; 176A3:109; 179A4:30–34,
50–53; 179B(synthesis):36–44; 205A4:27–28
gneisses, 161A6:224–225
grain-size layering, 179A4:37
greenschist facies, 209A5:139
groundmass, 206A3:58–59
harzburgites, 153B2:23–28, 33–34; 209A7:5–6
high-grade schists, 161A6:223–224
intrusive rocks vs. patchy olivine gabbros,
118B27:507–508; 28:537
lava flows, 147B19:347–351; 163B5:44; 12:138;
183A6:184
limestone textures, 144B14:281
lithofacies, 149B40:741–754; 161B4:59–67
lithology, 168A4:59–69; 5:113–123; 176A3:18–21;
176B6:7–14; 179A2:5; 4:31–34; 193A3:22–26,
29–32
lower sill complex, 210A3:70
mafic rocks, 209A7:2–8, 43
metamorphic rocks, 152B10:131; 153B31:531–534
metamorphism, 153B21:391–393; 161B18:252, 254;
20:285
metasediments, 173A8:246–247
microstructures, 176A3:63
mudstone, 131B4:45–56
particle size, 133B11:131, 142, 146, 153
peridotites, 153A3:58–62; 153B29:506–511, 514–515
petrography, 200A4:29–36
photograph, 149B27:477; 153B6:118–121
photomicrograph, 147B19:349; 163X_A5:10;
168A4:67; 176A3:205–207; 183A4:47;
185A1:57–58; 192A3:68–69; 193A3:205–206;
209A1:99–100
physical properties residues, 141B6:82–85
plutonic rocks, 147A3:63–64
preconsolidation, 165B10:181–183
recrystallization, 206B5:12–15
schists, 161B19:265–267
sediments, 141B8:105–117; 11:153–167; 156B27:337–
341; 160B47:612–617; 161B7:89–90;
162A7:251–252; 167B22:255–261; 168B6:67–84;
174A_B3:4, 9; 182B7:1–21; 207B2:5–8
serpentinization, 153B20:382
shear bands, 118B24:425
silica crystallization, 185B10:1–11
silicates, 137/140B1:3–4
silt/sand load, 155B4:53–78
sulfides, 158B15:193–200; 16:201–210; 169A6:269–
270
tektites, 150B13:246–247
tephra, 152B8:97
thermal anomalies in gas hydrates, 164A6:113
thermobarometry, 161B23:314
turbidites, 135B7:105
veins, 156B5:87–88; 169B9:1–25
volcanic ash, 151B18:337, 339; 162B16:218, 221–222;
198B18:4–5
vs. cooling rate, 163B12:139–141
vs. depth, 144B54:956, 958, 962; 150B19:351, 354;
161B7:90–92; 166A6:78–79; 8:176; 10:296–297;
11:351, 353; 182A5:34
X-ray computed tomography, 158B16:201–210
X-ray diffraction data, 131B4:48–49
See also chadacrysts; glomerocrysts; groundmass; in-
tergrowths; microlites; microtextures; mineral
textures; oikocrysts; poikiloblasts; porphyro-
blasts; spherulites; subvariolites; variolites
textures, alveolar, diagenesis, 144B46:797, 806–807
textures, amorphous
hydrothermal fields, 158A1:8
See also silica, amorphous
textures, amygdaloidal, lithology, 194A5:6, 8
textures, anastomosing
photograph, 209A9:78
veins, 209A3:17–18
textures, anhedral
lithology, 176A3:19–20
photomicrograph, 209A3:61–62
scan, 176A3:125
textures, aphanitic
basalts, 192A3:25–26; 6:16–17
macroscopic description, 192A7:7
photograph, 192A3:84; 7:26
photomicrograph, 192A3:87; 6:66
pillow basalts, 168A6:172–173
textures, aphyric
basalts, 136A5:80
Site 1213, 198A9:12–13
textures, augen
chromite, 118A3:55
gneissic, 118A6:103
rounded, 118A3:54
textures, basaltic
diabases, 180B3:6
photomicrograph, 180B3:26
vs. depth, 192A6:63
textures, bastitic
photograph, 195A3:81–82
photomicrograph, 195A3:84
textures, blocky, volcanic ash, 198B18:4–5
textures, botryoidal, photomicrograph, 192A5:92
textures, box
lithology, 187A9:3–5
photomicrograph, 187A9:12–14
textures, branching
photograph, 148A3:135
quench textures, 148A3:133
textures, brecciated
alteration, 193A1:25
photograph, 183A7:141
photomicrograph, 193A3:119
textures, bubble-wall, volcanic ash, 198B18:4–5

- textures, cataclastic, lithology, 180A5:8–9
- textures, cauliflower, photograph, 158A10:182
- textures, clastic
 lithology, 193A3:25, 32; 4:20–21
 photograph, 193A3:122, 125
 photomicrograph, 193A3:135–136, 163
- textures, coarse-grained, gabbros, 179A4:50–53
- textures, colloform
 hydrothermal fields, 158A1:12
 photograph, 158A7:107, 114, 124; 10:182;
 158B15:197; 183A9:100, 103
 sulfides, 139A6:242–243
- textures, comb, photomicrograph, 197A3:82
- textures, coronitic
 amphiboles, 153B21:397
 photograph, 153A7:264
 photomicrograph, 209A10:85
- textures, crack-seal, veins, 149B34:564; 169A3:75
- textures, crescumulate
 gabbros, 153A5:191–193; 176A1:12
 igneous layering, 176A3:29–30
 photograph, 153A5:186–187; 6:229, 237
- texture, cross-fiber vein, histograms, 209A3:93
- textures, cryptocrystalline
 basalts, 168A4:65; 192A7:7–8; 206A3:60–61
 photograph, 206A1:73, 77; 3:164, 174
 photomicrograph, 206A3:259
- textures, cumulate
 lithology, 179A2:5–6
 photomicrograph, 179B(synthesis):65
- textures, deformation
 gabbros, 153B6:105
 photograph, 147B13:254
 photomicrograph, 147B14:290; 209A5:130–131;
 9:74–77
- textures, dendritic, alteration, 187A7:5–8
- textures, diallage, photograph, 147A4:132
- textures, doleritic, diabases, 180B3:6
- textures, equant, dunites and harzburgites, 209A9:54
- textures, equigranular gneissic, gabbros, 179A4:52
- textures, euhedral, basalts, 206A1:28–30
- textures, exsolution
 lithology 176A3:20–21
 photomicrograph, 176A3:116
- textures, felsic, sandstone, 210B2:4–5
- textures, felty, lithology, 209A7:3
- textures, fibroradial, photomicrograph, 192A5:77
- textures, fibrous
 chloritized metabasite clasts, 173A7:191–192
 lava ponds, 206B5:3
 photomicrograph, 198A9:68–69; 209A6:74
- textures, fibrous laminar, 193A1:72; 4:80
- textures, fine-grained
 gabbros, 179A4:50–53
 lithology, 159B43:594
- textures, flaser
 diagenesis, 198A9:15
 limestone, 192A3:20–21
 photograph, 192A3:74
- textures, flow, cores, 140A2:83–84
- textures, fragmental, photograph, 193A3:127
- textures, geopetal, photomicrograph, 168A4:68
- textures, glassy, lower sill complex, 210A3:69–70
- textures, glomerocrystic
 differential quenching, 129B18:348
 photomicrograph, 163X_A7:11
- textures, glomerophyric
 differential quenching, 129B18:348
 photomicrograph, 192A3:98; 193A1:78; 5:8
- textures, glomeroporphyritic
 basalts, 165A6:329; 168A6:172–173
 igneous units, 163X_A6:21–23
 volcanoclastic sand, 180B7:7
- textures, gneissic
 deformation, 176B11:18–20, 61
 gabbros, 153B9:159–161
- textures, granoblastic
 dunites, 195A3:18
 lithology, 179A4:31
 metagabbro clasts, 173A7:191
 petrography, 179A4:39–41
 photomicrograph, 179A1:20
- textures, granophyric
 photograph, 206A3:208
 photomicrograph, 206A3:182, 209–210, 222
- textures, granular
 diabases, 180A7:14
 lithology, 180A6:35; 210A3:51
 metadiabase, 180A8:17–18
 photomicrograph, 180A8:61; 193A4:97
- textures, graphic, photograph, 135A(1)11:648
- textures, groundmass
 lava flows, 163B5:44
 photomicrograph, 191A4:103, 105
- textures, hieroglyphic, photograph, 193A4:95, 132
- textures, high-temperature
 crystal-plastic, 209A5:21–22
 petrography, 176B4:6–9
 photomicrograph, 209A7:82; 9:70
- textures, holocrystalline, basalts, 129B19:362–363;
 192A5:13–14
- textures, holohyaline
 petrology, 158A10:199–200
 photograph, 158A10:200
 recrystallized basalts, 206A3:60–61
- textures, honeycomb
 photograph, 148A3:134–135
 quench textures, 148A3:134
 sediments, 187A8:10
- textures, hourglass
 harzburgites, 195A3:16–17
 lherzolites, 195A3:18
 photomicrograph, 195A3:83; 209A3:74
 ultramafics, 209A3:11
- textures, hyalopilitic
 basalts, 191A4:30–32
 lithology, 198A9:12
 photomicrograph, 191A4:103; 195A4:103
 volcanoclastic sand, 180B7:6–7
- textures, hypidiomorphic
 petrology, 180A11:5
 photograph, 173A6:129

textures, hypidiotopic
 photomicrograph, 182B12:8
 recrystallization, 182B12:4
 textures, hypocrySTALLINE, basalts, 129B19:362–363
 textures, idiotopic
 photomicrograph, 182B12:8
 recrystallization, 182B12:4
 textures, igneous
 metamorphic rocks, 180A7:16–17
 photomicrograph, 209A5:62
 textures, impregnation, images, 209A6:88–92
 textures, intergranular
 basalts, 192A7:7–8; 209A4:3
 basement, 183A8:17; 9:24, 26; 196A3:31
 diabases, 148A2:41–42; 210A3:243, 249
 lithology, 187A11:5; 209A6:5–6
 petrography, 192A5:14; 195A4:16
 petrology, 209A8:2
 photograph, 148A2:42; 176A3:106; 187A11:16
 photomicrograph, 168A4:67; 187A11:17; 12:18;
 192A4:68; 6:69; 193A4:110; 210A3:247
 sill zoning, 210A3:67
 textures, interlocking
 photomicrograph, 209A3:75; 6:75
 serpentinites, 209A7:8–9
 textures, intersertal
 basalts, 209A4:3
 basement, 183A8:17; 9:24
 diabase sills, 210A3:243
 diabases, 180B3:10–11
 lava flows, 163A4:38
 lithology, 187A3:5–6; 6:5; 14:4
 lower sill complex, 210A3:70
 petrography, 187A8:3–4; 192A3:27
 photomicrograph, 163A4:40; 165A6:329; 168A4:67,
 69; 187A6:16–17, 20; 192A3:96–97; 210A3:246–
 248
 pillow basalts, 168A6:172–173; 187A4:3
 sill zoning, 210A3:67
 textures, interstitial, photomicrograph, 209A3:61–62, 66
 textures, intrafasciculate
 basalts, 192A7:7–8
 photomicrograph, 192A7:32
 textures, jackstraw, photomicrograph, 193B2:17
 textures, jigsaw-fit
 photograph, 193A4:76–77; 210A4:18
 photomicrograph, 193A3:117–119
 textures, lamellar, basalts, 187B7:7
 textures, laminar, photograph, 193A4:74–75, 92;
 210A4:19
 textures, lepidoblastic
 metadiabase, 180A7:15
 mica schist, 180A7:12–13
 textures, leucocratic, metagabbro clasts, 173A7:191
 textures, magmatic
 impregnation, 209A6:21–22
 metamorphic minerals, 153B31:531–532
 photomicrograph, 209A1:99–100
 sill zoning, 210A3:67
 textures, magmatic-tectonite, deformation, 179A4:51–52
 textures, massive vein, histograms, 209A3:93

textures, medium-grained, gabbros, 179A4:50–53
 textures, mesh
 gabbros, 209A5:17
 harzburgites, 195A3:16–17
 hydrothermal alteration, 209A6:12–13; 9:8–11
 lherzolites, 195A3:18
 photograph, 153B3:40–41
 photomicrograph, 195A3:83; 209A3:77; 5:109; 6:70;
 7:64; 9:61–62, 78; 10:94
 serpentinites, 209A7:7–9
 serpentinization, 153B3:48–49
 silica metasomatism, 209A3:19
 ultramafics, 209A3:11
 textures, mesh-cell, serpentinized peridotite, 173A7:192–
 193
 textures, metamorphic, lithology, 179A2:5
 textures, microbial, photograph, 210A4:19
 textures, microcrystalline
 basalts, 191A4:30–32; 209A4:3
 basement, 196A3:30
 petrography, 187A15:5
 petrology, 209A8:2
 photograph, 206A1:73; 3:164, 174
 photomicrograph, 191A4:102, 104
 textures, microglomeroporphyritic, 168A5:116
 textures, microlitic
 photograph, 161A8:368
 photomicrograph, 180B7:57–58; 210B2:33–35
 plagioclase, 129B19:362
 sandstone, 180B7:8–12; 210B2:4–5
 volcanoclastic sand, 180B7:6–7
 textures, mineral, lithology, 176A3:19–20
 texture, mixed vein, histograms, 209A3:93
 textures, moderately recrystallized
 gabbros, 179B(synthesis):38–47
 photomicrograph, 179B(synthesis):97, 98
 textures, mousseliike
 genesis, 146A(1)7:316
 lithology, 204A4:6; 5:4; 7:3–6; 8:6–8
 photograph, 146A(1)7:324; 204A3:57; 4:48; 7:28–29;
 8:41–42, 46, 62; 9:44; 11:33
 sedimentary evidence of gas hydrates, 204A3:8–9
 thermal anomalies, 204A7:48
 vs. depth, 146A(1)7:324; 204A8:40
 textures, mylonitic
 gabbros, 179A4:30–34; 179B(synthesis):43–44
 hydrothermal alteration, 179A4:42–44
 lithology, 176A3:18–19; 176B6:3; 209A5:9; 9:2–3
 metadiabase, 180A7:15
 mica schist, 180A7:12–13
 microscopic vs. macroscopic, 176A3:64–65
 photomicrograph, 176A3:207; 179B(synthesis):101;
 209A5:71–72
 textures, myrmekitic
 felsic veins, 176B9:33
 photomicrograph, 161A6:247
 textures, nodular
 infrared imagery, 204A8:56
 photograph, 192A3:74
 textures, oikocryst
 lithology, 179A2:5

- petrography, 179A4:39
photomicrograph, 179A4:109–110, 129
- textures, ophitic
basement, 183A9:24
diabases, 168A5:120; 180A7:14
lithology, 176A3:19
metadiabase, 180A8:17–18
olivine gabbros, 176B4:6–7
photograph, 135A(1)6:280; 176A3:105
photomicrograph, 173A6:133; 180A7:43; 206A3:178;
209A5:66
pyroxenes, 137/140B1:15
silicates, 137/140B1:3–4, 7
- textures, palimpsest quench, dacite, 193B6:1–19
- textures, panidiomorphic, lamprophyres, 180A7:15
- textures, paragrular, alteration, 209A5:15
- textures, patchy, sill zoning, 210A3:67
- textures, pegmatitic, photograph, 209A3:71
- textures, perlitic
alteration, 183A7:42–43
lithology, 193A3:23; 4:12, 18–19
photograph, 193A1:46, 52; 3:104, 106, 140–144; 4:70
photomicrograph, 193A1:47; 3:105; 4:101, 104–105
- textures, peperitic
photograph, 183A6:105–106; 183B14:17
photomicrograph, 183A5:94
- textures, phyrlic
basalts, 192A3:25–26
lithology, 198A9:12–13
photomicrograph, 198A9:62
- textures, pillow, recovery rate, 203A3:12–13, 29–30
- textures, pilotaxitic
basalts, 180A7:16
photograph, 193A4:71
photomicrograph, 180B7:57–58
volcaniclastic sand, 180B7:6–7
- textures, platy, volcanic ash, 198B18:16
- textures, plumose
basalts, 168A4:65
groundmass, 206A3:58–59; 206B5:8
photograph, 148A3:134
photomicrograph, 168A4:69
plagioclase, 163B12:144
- textures, plumose quench
lithology, 187A3:5–6; 14:4; 15:3
petrography, 187A8:4; 12:4
photograph, 148A3:133; 187A12:20
photomicrograph, 187A1:32; 3:15, 18; 14:14; 15:14–
15
- textures, poikilitic
hydrothermal alteration, 179A4:42–44
lithology, 176A3:19; 176B6:4; 180A6:35; 209A10:10
metatonalite clasts, 173A7:191
olivine gabbros, 176B4:6–7
pegmatites, 173A9:280
photograph, 153A5:187–188
photomicrograph, 173A7:191; 179B2:29; 195A3:93;
206A3:183
plagioclase enclosed by augite, 163A3:28
pyroxenes, 137/140B1:16
silicates, 137/140B1:3–4
- textures, poikiloblastic, photomicrograph, 183A5:111;
193B9:19
- textures, poikiloptic
petrography, 195A4:16
photomicrograph, 182B12:8; 195A4:90
- textures, polygonal, photomicrograph, 209A3:100
- textures, polymictic, lithology, 152B8:102–103
- textures, “popcorn,” photograph, 209A5:104
- textures, porphyritic
basalts, 195A4:21–22
igneous rocks, 133B37:537–538; 163X_A6:21–23
volcaniclastic sand, 180B7:7
- textures, porphyroblastic
lithology, 176A3:18–19
peridotites, 149A4:88
photograph, 149A7:235; 149B28:491
photomicrograph, 183A5:111
- textures, porphyroclastic
deformation, 176B11:18–20, 61, 63
gabbros, 153B9:159–161; 179B(synthesis):41–42
hydrothermal alteration, 179A4:42–44
igneous rocks, 209A3:21–22
lithology, 176A3:18–19; 176B6:3, 8; 179A2:5; 4:47
microscopic vs. macroscopic, 176A3:64–65
peridotites, 153B1:12
photograph, 147B13:243; 179A4:134–136, 139–140;
209A3:129
photomicrograph, 179A4:137–138, 141–145;
179B(synthesis):99; 2:27; 209A3:64
recrystallization, 179A4:52–53
- textures, porphyroclastic to mylonitic
gabbros, 179A4:30–34; 179B(synthesis):42–43
photomicrograph, 179B(synthesis):100
- textures, primary, silicification alteration, 193A3:41–47
- textures, protogranular
alteration, 209A8:3
deformation, 209A5:21–22; 9:12
harzburgites, 209A3:6; 7:14–15
igneous rocks, 209A3:21
lithology, 209A5:5–9; 6:5; 7:5; 9:6–7
photograph, 209A5:104; 7:80
photomicrograph, 209A3:64, 99–101; 5:105, 145;
7:82; 9:42–43, 69
- textures, protogranular porphyroclastic, 209A5:4
- textures, protointerganular
igneous rocks, 209A3:21
photograph, 209A3:102
photomicrograph, 209A3:99–100; 6:81; 7:82
- textures, pseudobreccia, photograph, 183A9:70
- textures, pseudoclastic
lithology, 193A3:25–26, 32; 4:13, 21–22
photograph, 193A1:46; 3:140, 142
- textures, pumice, volcanic ash, 198B18:4–5
- textures, pyroxenite, photograph, 209A3:101
- textures, quench
alteration, 187A7:5–8; 10:4; 11:8–10
basalts, 180A7:16
Celebes Sea and Mid-Atlantic Ridge, 124A10:168
chilled margins, 148A3:132–134
lithology, 183A4:4, 6
petrography, 187A12:4–5

photograph, 187A11:27; 13:33
 photomicrograph, 169A3:94; 183A5:94; 185A3:100;
 187A8:27, 30; 15:23; 200A4:106–107; 209A7:48
 pillow basalts, 187A5:3
 rapid cooling, 129B18:346
 textures, reaction, lithology, 176A3:21
 textures, relict
 amphibolites, 173A6:130–131, 139; 7:190–191
 anorthosite veins, 173A6:141, 143
 chloritized metabasite clasts, 173A7:191–192
 meta-anorthosite, 173A6:131
 photomicrograph, 173A6:135
 serpentinized peridotite, 173A7:192–193
 tonalite gneiss, 173A6:131, 141
 vesicular pumice, 210B2:35
 textures, replacement, sulfides, 158A7:103–104
 textures, ribbon
 alteration, 209A5:15, 18; 6:12–13; 9:8–11
 photomicrograph, 209A3:79, 109; 7:61; 9:77
 ultramafics, 209A3:11
 textures, ripidiolitic, secondary minerals, 180B3:8
 textures, rosette, basalts, 195A4:21–22
 textures, seriate
 igneous units, 163X_A6:21–23
 lithology, 163X_A4:12
 photomicrograph, 163X_A7:11
 volcanic basement, 163X_A8:7–8
 textures, serrate, photomicrograph, 209A3:81
 textures, sheaf-quench
 lithology, 187A3:5–6; 7:5; 10:3
 petrography, 187A8:3–7
 photograph, 187A12:20
 photomicrograph, 187A3:13; 4:10; 8:16; 14:13
 pillow basalt, 187A4:3
 textures, sheaf-spherulitic
 photograph, 148A3:135
 photomicrograph, 168A4:69
 quench textures, 148A3:133
 textures, sieve
 lithology, 187A7:5; 14:3
 petrography, 187A8:3–4; 12:3–4; 15:5
 photomicrograph, 183A9:81, 88; 187A6:17–18; 7:15;
 15:19
 textures, slip-fiber vein, histograms, 209A3:93
 textures, soggy phone-book, photograph, 206A3:127
 textures, soupy
 lithology, 204A7:3–6; 8:6–8
 photograph, 204A7:28
 vs. depth, 204A8:40
 textures, snowball, photomicrograph, 187A9:15
 textures, spheroidal
 photograph, 193A3:123
 photomicrograph, 193A3:131–132
 textures, spherulitic
 alteration, 187A9:5–7
 basalts, 165A6:326–329, 346; 180A7:16; 195A4:21–22;
 195B8:4–5
 differential quenching, 129B18:348
 lithology, 180A9:20; 187A9:3–5; 12:7–8; 193A3:23–24
 photograph, 187A12:34, 37; 192A1:63

photomicrograph, 180A8:63; 187A12:30; 13:31;
 193A3:113
 profiles, 139A7:364
 textures, spinifex
 basalts, 193B6:1–19
 photomicrograph, 193B6:7–15; 209A7:48
 textures, strain, distribution, 209A10:22
 textures, stromatolitic, photograph, 210A4:19
 textures, subophitic
 basalts, 192A7:7–8; 195B8:4–5
 basement, 183A9:24
 diabases, 210A3:243
 lava flows, 163A4:38
 lithology, 163X_A7:4; 176A3:15; 187A3:5–6; 9:5;
 11:4–7; 15:3–7
 metagabbro clasts, 173A7:191
 petrography, 192A5:14
 petrology, 191A1:15
 photograph, 147B1:18; 148A2:42; 173A6:129
 photomicrograph, 163X_A6:39; 165A6:329;
 169A5:215; 183A8:60; 9:83; 187A1:33; 9:17;
 11:14; 12:18; 15:16; 191A4:104–105; 192A3:88,
 96–97; 4:68; 6:66; 7:32; 195A4:109; 195B8:13;
 197A3:83; 4:53–54; 5:53; 198A9:63–66
 sill zoning, 210A3:67
 textures, subsolidus deformation, 153B31:532–534
 textures, subtrachytic, 192A3:98; 4:64, 81; 6:67
 textures, subtrachytic intersertal, 183A6:125–126
 textures, subvariolitic
 photograph, 158B18:251–253; 168A5:116
 photomicrograph, 192A5:77, 81; 197A3:82
 pillow basalts, 168A6:172–173
 See also variolites
 textures, swirled, photograph, 210A3:135
 textures, symplectic, residual peridotites, 209B1:7–8
 textures, tachylitic, basalts, 180A7:16
 textures, trachytic
 basement, 183A7:37–39
 lithology, 163X_A4:12; 6:13
 photomicrograph, 183A7:127; 192A4:82; 197A1:62;
 5:54
 volcaniclastic sand, 180B7:6–7
 textures, trachytoidal, photomicrograph, 180A10:31
 textures, transgranular, photograph, 209A6:63
 textures, ultramylonitic
 gabbros, 179A4:30–34; 179B(synthesis):44
 photomicrograph, 176A3:207; 179B(synthesis):101
 textures, undeformed
 gabbros, 179B(synthesis):37
 photomicrograph, 179B(synthesis):95
 textures, variolitic
 basalts, 168A5:116–119; 180A7:16; 192A5:12–14; 7:7–
 8
 basement, 183A9:18, 20
 groundmass, 206A3:58–59
 lava ponds, 206B5:2–3
 metadiabase, 180A8:17
 petrology, 168A4:65
 photograph, 148A3:133–134; 158A10:200–201;
 168A5:116; 183A8:72; 9:62, 102

- photomicrograph, 163A4:40; 180A6:124; 12:94;
 185A1:57–58; 192A3:95; 6:68; 7:32–33;
 196A3:77; 206A3:180–181; 206B5:8
- pillow lavas, 197A3:16
- quench textures, 148A3:133
- See also* variolites
- textures, vein, histograms, 209A3:93
- textures, vermicular, dunites and harzburgites, 209A9:54
- textures, vermiform, photomicrograph, 187A8:23
- textures, vesicular
- alteration, 193A1:25
 - andesites, 135A(1)6:267–268; 8:369–371; 11:630–631
 - basalts, 135A(1)4:140–146; 180A7:16
 - glass shards, 135A(1)10:516–523
 - igneous rocks, 135A(1)1:36
 - lava, 183A1:14; 4:14–17
 - lithology, 183A1:31–32; 193A3:30–33
 - melts, 135A(1)9:442–443
 - petrography, 135A(1)5:220, 222
 - photograph, 135A(1)4:148; 7:322; 11:601
 - photomicrograph, 187A9:12; 210A3:226; 210B2:34
 - vitric clasts, 135A(1)6:258–259
 - volcanics, 135A(1)1:41; 198B18:6–7
- See also* vesicularity
- textures, vitriclastic, photomicrograph, 193A3:117–118
- textures, volcanic, lithology, 193A3:22–24, 29–32; 4:11–15, 18–23
- textures, volcanoclastic, lithology, 193A3:24–26; 4:12–13, 21
- textures, vuggy, sulfides, 139A6:242–243; 169A6:270
- textures, weakly recrystallized
- gabbros, 179B(synthesis):37–38
 - photomicrograph, 179B(synthesis):96
- textures, welded
- basement, 183A7:26–27
 - photograph, 183A7:141
- textures, wispy flaser, limestone, 192A3:20–21
- textures, “woody”
- aphyric basalts, 129B19:362–363
 - limestone, 192A3:20–21
 - photograph, 192A3:62, 76
 - radiolarite, 129B32:583
- textures, xenoblastic, clasts, 183A5:33
- TG-FTIR. *See* thermogravimetric Fourier transform infrared data
- Thalassinoides*
- biostratigraphy, 174A_B(synthesis):7
 - claystone burrows, 119A6:171, 173
 - depositional environment, 119B33:639
 - geometry, 119B33:636–637
 - lithology, 114A6:156–162; 7:261, 266; 9:491;
 114B6:127; 152A11:198; 159A5:77; 166A6:82;
 174A_A4:111; 5:159–162; 181A1:13; 3:5–7; 5:5;
 6:7–8, 12; 7:5–11; 8:5–6; 9:5, 7; 182A1:22; 4:6, 8;
 5:4; 6:8; 8:5; 9:5; 10:10; 11:4–5; 194A3:5; 5:4
 - lysocline, 135B53:847–849
 - Oligocene, 181B1:41
 - photograph, 135A(1)10:506, 508; 152A11:203;
 181A3:41; 5:30; 7:63; 10:42
 - sediments, 119B33:639, 641; 174A_B3:6, 9
 - Trujillo Basin, 112A16:532
- turbidites, 139B7:107–108
 - vertical zonation, 116B2:16–21; 3:26–28
- Thalassolituus oleivorans*, microbial populations, 187B6:9
- thallium
- Cretaceous/Tertiary boundary, 130B45:747–748
 - mineral separates, 158B2:31
 - post-oxic conditions, 157B32:567
 - vs. depth, 158B4:54, 58–62
- See also* tantalum/thallium ratio
- thanatocenoses, diatoms, 127/128B(1)17:309–316;
 172B8:4
- Thanetian
- correlation, 171B_B9:15
 - dinocyst first and last occurrences, 189B5:33
 - magnetostratigraphy, 171B_B9:10
- thaumasite
- alteration, 135A(1)11:644
 - basaltic andesite, 135B39:647–651
 - first deep-sea occurrence, 129B4:119–135
 - lithology, 129B14:269
 - photograph, 129B4:122
 - photomicrograph, 129B4:135
 - pore water, 129B15:291
 - sediments, 129B15:286
 - Site 802, 129B4:125; 14:275
 - tuffs, 129B4:130
 - X-ray diffraction data, 135A(1)11:650
- Thecosomata, Quaternary, 134B15:319–334
- Thellier analysis, plagioclase, 197B1:32
- theoperids
- biostratigraphy, 120B(2)39:747
 - Site 748, 120B(2)39:753
- thermal alteration. *See* alteration, thermal
- thermal anomalies
- fluid flow, 166B10:116–117
 - gas hydrates, 204A5:40; 7:15–16; 10:65; 204B13:16
 - infrared scanning, 204A3:25–26; 4:20; 5:11, 39; 6:14–15, 51; 7:15–16, 47–48; 8:58; 9:16–17, 55;
 11:14–15, 43
 - Kerguelen Plateau, 120B(1)1:9
 - methane/seawater/hydrate stability zone, 204A7:16
 - microbiology, 204A9:15
 - mousseliike texture, 204A7:48
 - nodules, 204A7:47
 - physical properties, 204A6:53
 - sedimentary evidence of gas hydrates, 204A3:8–9
 - seismic data, 204A6:53
 - veins, 204A7:47
 - voids, 204A7:48
 - vs. depth, 204A1:70; 7:49; 10:67
 - vs. logging-while-drilling resistivity, 204A7:49
- thermal blanketing, Labrador Sea, 105B49:929; 52:1005
- thermal boundary layer
- extensional tectonics, 161B44:575
 - lower crust, 176B8:8
 - plate tectonics, 209B1:14–15
- thermal conductivity
- accretionary prisms, 156B18:240–241
 - acoustic basement, 173A7:210
 - altered volcanic rocks, 193A3:76; 4:54

- apparent anisotropy, 209A5:161–162, 180; 6:111; 7:104
 Atlantic Ocean E tropical, 108A4:236–237; 8:570; 25:424, 426; 26:429
 Atlantis Bank, 118A6:167
 Atlantis II Fracture Zone, 118A1:19–21
 Barbados Ridge, 110A1:23–24; 4:110–114; 6:341–343; 7:424, 433; 9:530, 542; 110B23:348–351
 basalts, 129B27:489; 136A5:75–76; 148B31:397–400; 152A11:248–249; 163A4:44, 46; 5:67; 185A3:38; 192B7:5, 33; 206A3:89
 basement, 115A5:271–272; 123A4:205; 127/128B(2)80:1281
 Bengal Fan, 116A4:72, 81–85; 5:116, 127–128; 6:172–173, 176, 178
 bimodal distribution, 119A8:150; 10:197
 breccia, 158A7:117, 137; 8:164–167; 11:221; 158B16:208–209
 Broken Ridge, 121A2:58; 6:143–144, 147, 150–151; 7:183–185, 219; 8:229, 252, 254; 13:498
 Cagayan Ridge, 124A23:333–334, 337–338
 calibration tests, 118A1:20–21
 Celebes Sea, 124A10:164–167; 13:358–359, 363; 124B5:66
 clasts, 195A3:41
 core-log comparison, 156B26:328, 332
 cores, 134A8:163, 165; 137A2:31; 144A6:238; 149A5:141–142; 6:197–198; 7:253, 255; 151A7:195; 180A5:131–134; 196A3:30, 92
 Cornaglia Terrace, 107A9:603, 617, 620, 623–625, 637
 correction data, 110B23:361–362; 127/128B(2)64:1018; 131B36:451–456
 Costa Rica Rift, 111A2:26–27, 30; 3:93, 104; 4:274–281, 284–286; 111B20:234–235, 240
 crystalline rocks, 153A3:112, 114; 4:173; 6:255
 data, 127A4:127; 131A6:164–165, 206–209
 discrete measurements, 149A4:101; 171B_A3:91; 4:157; 5:231; 6:309; 7:347; 198A3:140; 5:101
 divided-bar vs. half-space method, 169B8:9, 32
 evaporites, 107A9:623, 627
 Exuma Sound, 101A9:353, 358–361; 10:405, 409–411; 11:451, 458–460
 F-factors silica glass vs. Macor standard, 118A1:21, 23; 6:164, 166
 fault gouge, 180A11:11
 gabbros, 118A4:60; 153A5:212
 Galicia margin W, 103A2:35; 8:145, 152–154; 9:254, 260–268; 10:434, 437–443; 11:542–544; 12:590, 592–596
 gas hydrates, 164A1:8; 164B2:22–25
 geothermal regime, 166B10:113–120
 Gortani Ridge, 107A11:894, 896–897, 902
 hard rocks, 126A2:36
 heat flow, 148B20:295; 170B4:5–6
 histograms, 209A6:110; 7:103
 horizontal seawater advection, 118B20:351
 hydrostatic pressure, 127/128B(2)64:1017–1019
 igneous rocks, 123A5:327–331; 176A3:80, 303–306; 209A3:38, 161; 5:40–41, 179; 6:32, 124; 7:26, 125; 9:21–22, 107; 10:28–29, 130, 160; 210A1:24; 4:11
 Indus Fan, 117A7:151
 interpretation, 183A5:50–51
 Jane Basin, 113A12:715
 Japan Sea, 127/128B(2)80:1280–1281, 1287; 81:1298, 1301–1303
 Kane Fracture Zone, 106/109A6:171
 Kerguelen sediment ridge, 119A2:38; 28:520–524; 29:548
 Lingayen Gulf, 124E_A13:81, 88
 lithology, 121A11:343; 168A4:88–92; 5:148, 150; 6:186, 188; 123B27:519; 169B8:8–10; 183A3:17, 58; 4:28, 94; 5:199; 6:203; 7:210; 9:41, 136; 183A6:59; 7:53; 8:27, 117; 185A4:40–41; 197A3:38–39, 166; 4:32, 122; 5:26–27, 109; 6:23, 114; 199A8:19, 59; 9:13, 47; 10:20, 64; 11:30–31, 123; 12:32, 126; 13:27–28, 91; 14:22, 65; 15:15, 56; 200A3:44; 4:46–48, 177; 205A4:38–39
 Little Bahama Bank, 101A6:139, 146–149; 7:227; 8:282, 291–294
 Marsili Basin, 107A6:155, 158, 163
 Mascarene Plateau, 115A5:270–271, 281, 282
 massive sulfides, 139B45:722–724; 158B16:205, 208–209
 measurement systems, 118A6:163–164; 127/128B(2)64:1018
 metamorphic rocks, 173A6:154
 Mid-Atlantic Ridge, 106/109A8:222–223
 Nazareth Bank, 115A4:151, 161–162
 Ninetyeast Ridge, 121A2:58; 10:289–290, 298; 11:342, 352–353; 12:407, 436–437
 Northwest Providence Channel, 101A12:500; 13:541
 Norwegian Sea, 104A4:181–183
 Oman margin, 117A2:26; 7:151; 15:476, 478
 Ontong Java Plateau, 130A5:142; 6:202, 256
 opal-A/opal-CT transition, 127/128B(2)73:1147
 Owen Ridge, 117A2:26; 7:151
 pelagic muds, 195A4:40
 peridotites, 209A3:146; 5:160; 9:92
 porosity predictions, 123B1:464
 precipitates, 158B24:329–334
 probe orientation variation, 118A4:74, 76
 Prydz Bay, 119A2:38; 24:428, 431; 26:470, 473
 rhyodacites, 193A6:10
 rocks, 149A4:109; 192A3:37–38, 169; 4:25–26, 131; 5:24, 124; 6:25, 116; 7:13, 66
 Sardinian margin, 107A8:430–432; 10:770, 773–774, 782, 784
 sediments, 113A10:567–568; 113B2:21–23; 3:35; 127/128B(2)80:1281; 134A7:121–122; 9:222; 136A4:58–59; 146A(1)5:194; 6:276; 150A6:104; 8:238; 10:336; 151A5:88; 6:137–138; 8:246–247; 9:293; 10:337; 11:372; 152A6:70; 7:87; 12:276; 154A5:195, 202; 155A6:109–110; 7:148, 158; 11:300–304; 156A6:156; 7:238, 240; 157A5:129, 131; 7:362; 8:421, 426; 9:464, 469; 10:527, 534; 159A5:113; 6:196–197; 7:246; 8:286–287; 160A4:73, 83; 5:118, 122; 6:139; 7:191–192, 197; 8:254, 261; 9:316–319; 10:372–373; 11:397, 403; 12:444; 161A4:90; 5:150; 6:240; 7:323; 9:408; 162A3:84; 6:197; 7:249; 9:321;

- 10:375; 164A5:92-93; 6:133; 7:201-202; 8:270;
9:304-305; 165A3:86; 4:185, 187; 5:265, 268;
6:332; 166A6:98; 7:165-166; 8:195; 9:256-257;
10:320; 11:366-367; 168A4:87, 94, 96; 5:141;
6:179; 169A3:127-128; 4:186-188; 5:225-227;
6:289-292; 170A3:85-86, 91; 4:149; 5:182, 186;
6:208; 7:246-247; 171B_A3:81; 4:151; 5:216;
6:293; 7:338; 172A3:68, 70; 4:133-134, 149-
150; 5:235, 239; 6:293, 298; 173A4:92;
174A_A3:80; 4:130; 5:177; 177A3:65; 4:20, 95-
96; 5:25, 99-101; 6:17, 82-84; 7:17-18, 81-82;
8:19-20, 102-104; 9:16, 72-73; 178A5:24-25;
7:19-20; 180A5:38; 6:64-65, 279-290; 7:24, 87;
8:35-36, 136-138; 9:49-50, 210-218; 10:19, 74-
75; 12:44, 205-210; 181A3:26-27; 4:22; 5:24;
8:35; 9:22; 182A4:35, 105; 5:85; 6:33, 108; 7:25,
81; 8:27, 93; 9:23, 77; 10:28, 82; 11:16, 51;
12:23, 75; 184A4:26, 101-102; 5:21, 94-96;
6:16-17, 63; 7:22, 97-100; 9:26, 118-120;
186A4:43, 199; 5:29, 116; 188A3:61, 186-187;
4:36, 108; 5:29-30, 94; 189A3:46, 164; 4:23, 63;
5:50, 162; 6:55, 170; 7:47, 145; 190A4:26-27,
57, 75; 5:31, 77; 7:18-19, 44; 8:22; 191A4:38,
152; 194A3:20-21; 4:26; 5:21; 6:19-20; 7:28, 31;
8:21; 9:20-21; 195A5:13; 198A3:39-40; 4:30, 93;
5:32; 200A3:156; 201A6:28-29; 7:31; 8:25; 9:22;
10:25; 11:29; 12:24; 204A3:27-28, 127; 4:22,
125; 5:13, 65; 6:17, 81; 7:17, 74; 8:19, 94; 9:18,
95; 10:24, 114; 11:16, 60; 204B9:21-23;
206A3:49; 210A1:21; 3:104-105
sediments and sulfides, 169B8:34-35, 40-41
Serocki Volcano, 106/109A4:82-84
Sierra Leone Rise, 108A12:855
silica glass vs. Macor standard, 118A1:21
Site 504, 140A2:109
Site 689, 113A5:104-105
Site 690, 113A6:204
Site 693, 113A8:352
Site 695, 113A10:541
Site 696, 113B2:21-23
Site 698, 114A5:113, 117
Site 699, 114A6:187-188
Site 700, 114A7:288-289
Site 701, 114A8:400
Site 702, 114A9:505
Site 703, 114A10:576
Site 704, 114A11:669; 114B3:43
Site 708, 115A23:420, 428-429
Site 709, 115A7:484, 486, 489-490, 500-501, 505
Site 710, 115A8:611, 624-625
Site 711, 115A9:680, 693-694
Site 712, 115A41:757, 763
Site 713, 115A41:757-758, 763, 765
Site 714, 115A11:860, 873-874
Site 715, 115A12:937, 940-941
Site 720, 117A8:170, 176
Site 728, 117A16:510, 518
Site 731, 117A19:612-615
Site 736, 119A2:38
Site 737, 119A2:38; 10:197-198, 205
Site 738, 119A2:38
Site 744, 119A2:38; 27:499-500
Site 747, 120A6:126, 150
Site 748, 120A7:218
Site 749, 120A8:264
Site 750, 120A9:318
Site 765, 123A4:169, 177-178, 210; 123B1:466-467
Site 766, 123A5:313, 315; 123B1:464, 468
Site 778, 125A6:109
Site 779, 125A7:131, 143-144
Site 780, 125A8:168, 171-172, 176
Site 781, 125A9:191, 193
Site 782, 125A10:213, 229, 242
Site 783, 125A11:266, 272
Site 784, 125A12:293, 299, 304
Site 786, 125A14:333, 345, 347
Site 787, 126A5:93, 96
Site 790, 126A7:197-198, 202
Site 791, 126A7:202, 208, 210
Site 792, 126A8:285-287
Site 793, 126A9:388-389
Site 794, 127A4:127; 127/128B(2)80:1287; 128A3:102,
106
Site 795, 127A5:222; 127/128B(2)80:1287
Site 796, 127A6:290; 127/128B(2)80:1287
Site 797, 127A7:380, 397; 127/128B(2)80:1287;
81:1300
Site 798, 127/128B(2)80:1287; 128A4:181-182, 206-
207, 210
Site 799, 127/128B(2)80:1287; 128A5:326-327, 338,
352-353, 360, 365
Site 800, 129A2:64-65
Site 801, 129A3:128-129
Site 802, 129A4:213-214
Site 817, 133A(1)10:372-373, 394
Site 820, 133A(1)13:531
Site 822, 133A(1)15:659
Site 823, 133A(1)16:717, 733
Site 827, 134A7:131
Site 830, 134A10:286
Site 831, 134A11:350, 354
Site 832, 134A12:431, 451
Site 833, 134A13:517-518
Site 834, 135A(1)4:153-154
Site 835, 135A(1)5:228-229
Site 836, 135A(1)6:276
Site 837, 135A(1)7:327
Site 838, 135A(1)8:377
Site 839, 135A(1)9:454
Site 840, 135A(1)10:547
Site 841, 135A(1)11:654
Site 844, 138A(1)9:156
Site 845, 138A(1)10:231
Site 846, 138A(1)11:306-307
Site 847, 138A(1)12:360-361
Site 848, 138A(2)13:704
Site 849, 138A(2)14:756
Site 850, 138A(2)15:844
Site 851, 138A(2)16:926
Site 852, 138A(2)17:998
Site 853, 138A(2)18:1045
Site 854, 138A(2)19:1085

- Site 856, 139A6:246
 Site 857, 139A7:354–355, 386–387, 392, 397
 Site 858, 139A8:520–521
 Site 859, 141A6:122–123, 126
 Site 860, 141A7:212–213, 223
 Site 861, 141A8:278–280, 286
 Site 862, 141A9:334–335, 339
 Site 863, 141A10:403, 414
 Site 865, 143A6:146, 162
 Site 869, 143A9:347
 Site 871, 144A3:84–85
 Site 872, 144A4:137
 Site 874, 144A6:244
 Site 884, 145A6:247
 Site 887, 145A8:359, 377
 Site 888, 146A(1)4:90–91
 Site 891, 146A(1)6:277
 Site 892, 146A(1)7:349, 354
 Site 894, 147A3:100–102
 Site 895, 147A4:157, 159
 Site 907, 151A5:91
 Site 908, 151A6:137–138
 Site 909, 151A7:197–198
 Site 910, 151A8:248
 Site 911, 151A9:296–297
 Site 912, 151A10:338
 Site 913, 151A11:374–375
 Site 916, 152A8:103
 Site 917, 152A9:144–145
 Site 918, 152A11:245, 248–249
 Site 1035, 169A3:127
 Site 1036, 169A4:188
 Site 1037, 169A5:227
 Site 1038, 169A6:290
 Sites 885–886, 145A7:317, 327
 Sites 889–890, 146A(1)5:197
 soft sediments, 126A2:35–36
 Southern Ocean, 114B35:661, 665
 split cores, 178A8:18
 stability boundaries, 204B9:18
 Straits of Florida, 101A5:70–71
 Sulu Sea, 124A11:252–257
 Tiburon Rise N, 110A5:242–243; 110B23:349
 tuffs, 121A11:344
 typical temperature vs. log time plot, 127/
 128B(2)64:1018
 Tyrrhenian Sea, 107A7:324
 uncertainty, 204B9:6
 volcanic rocks, 193A5:6
 vs. angle of the needle probe, 209A5:162
 vs. bulk density, 147A3:101; 4:157; 177A3:41; 4:55;
 5:61; 6:51; 7:41; 8:58; 9:45; 184A4:68;
 209A7:105; 9:94
 vs. Bullard depth, 149B44:680
 vs. carbonate content, 111B20:234–239
 vs. compressional wave velocity, 108A10:757
 vs. degree of alteration and vesicularity, 152A9:147
 vs. density, 117A15:485; 16:520; 19:612, 616
 vs. depth, 110A4:114; 5:242, 256; 6:344, 348; 7:425;
 9:535; 113A5:106; 6:212–213; 8:356; 9:469–470;
 10:543, 545; 11:630–631; 12:719–720;
 113B2:23–26; 129A2:64; 3:131; 4:214;
 131A6:209, 249; 133A(1)10:386; 13:539, 549;
 15:660; 16:735; 134A7:130; 8:174–175; 9:237;
 10:301; 12:451; 13:532; 135A(1)4:162; 5:237;
 6:287; 7:334; 8:380; 9:460; 10:548; 11:666;
 136A4:63; 5:79–80; 137/140B28:324;
 138A(1)9:173; 10:245; 11:314; 12:371;
 (2)13:724; 14:789; 15:869; 16:946; 17:1011;
 18:1056; 19:1092; 139A2:22, 32; 5:149–151,
 154–157; 6:268–271; 7:382–383; 8:536–542;
 139B32:549–551; 34:566; 45:724; 140A2:137–
 138; 141A6:124; 7:221; 8:283; 9:339; 10:409;
 141B20:269; 144A4:143; 5:193–194; 145A3:75;
 4:118; 6:278; 7:333; 8:379–380; 146A(1)4:94;
 5:197; 6:277; 7:352; 147A3:101; 4:157;
 148A2:74–75; 3:170, 172; 148B31:400;
 149A4:108; 5:141; 6:197; 7:253; 150A6:104–
 106; 7:174–177; 8:237; 9:292; 10:334; 151A5:92;
 6:138; 7:249; 9:295; 10:339; 11:375–376;
 152A6:71; 9:145–146; 11:248, 256; 12:276;
 153A3:117; 4:174–175; 5:213; 6:256;
 154A5:211; 155A6:119; 156A6:158; 7:246;
 156B18:242; 157A5:131; 7:372; 8:426; 9:469;
 10:535; 158A7:138; 159A5:113; 6:197; 8:287;
 160A4:84; 5:123; 6:141; 7:198; 8:262; 9:320;
 10:373; 11:403; 12:444; 161A4:99; 5:161; 6:265;
 7:334; 8:388; 9:413; 162A3:85; 6:199;
 164A6:134; 7:206; 8:274; 9:305; 165A3:89;
 4:187; 5:268; 6:334; 166A6:99; 7:166; 8:195;
 9:258; 10:321; 11:366, 368; 166B10:115, 118;
 168A2:27–28; 4:96; 5:157; 6:190–194;
 169A3:128; 4:188; 5:228; 6:291, 294; 170A3:91;
 4:148; 5:187; 7:243; 171B_A3:91; 4:158; 5:231;
 6:310; 7:347; 172A3:71; 4:150; 5:240; 6:298;
 173A4:93; 174A_A3:78–79; 4:129; 5:179;
 175A3:76, 85; 4:105, 112; 5:138; 6:170, 175;
 7:195–197; 8:218, 220; 9:261, 269; 10:301, 309;
 11:329, 336; 12:378–382; 13:414, 424–425;
 14:448, 454; 15:475, 482; 176A3:230; 177A4:55;
 5:61; 6:51; 7:41; 8:58; 9:45; 178A5:79; 7:60–61;
 8:57; 180A5:94; 6:173; 8:96; 9:126; 10:62;
 12:129; 181A3:63; 5:52; 182A4:74; 6:76; 7:59;
 8:59; 9:49; 10:60; 11:34; 12:50; 183A5:152;
 6:158; 7:168; 8:85; 9:118–119; 184A4:67; 5:64;
 6:45; 7:63; 9:76; 185A4:132–133, 186;
 186A4:133; 5:78; 188A3:154; 4:87; 5:78;
 189A3:103; 4:46; 5:100; 6:113; 7:91; 190A4:57,
 75; 5:77; 6:52; 7:44; 8:50; 9:57; 191A4:110;
 192A3:137; 4:104; 5:101–102; 6:85; 7:49;
 192B7:13–16; 193A3:231; 4:203; 6:29;
 194A3:53; 4:86; 5:72; 6:58; 7:95, 102; 8:59; 9:50;
 195A3:123, 130; 4:150; 5:37; 196A3:74;
 197A3:129; 4:98; 5:86; 6:90; 198A3:104; 4:74;
 5:75; 199A8:41; 11:72; 12:78; 13:63; 15:37;
 200A3:130; 4:134, 137, 143; 201A6:68; 7:71;
 8:52; 9:52; 10:56; 11:73; 12:48; 204A3:77; 4:77;
 5:41; 6:52; 7:52; 8:59, 65; 9:56; 10:70; 11:44;
 204B9:19–20; 205A4:133; 206A1:70; 3:156, 160,
 312–313; 209A3:142; 7:101; 9:90; 10:125–126;
 210A3:297–298; 4:33
 vs. drift rates, 139B33:557

- vs. grain density, 114B35:664, 666; 169B8:8–9, 31; 192B7:20
- vs. physical properties, 158B24:332
- vs. porosity, 111A4:287; 111B20:240; 114B35:664, 666; 127A4:135; 5:232; 6:395; 127/128B(1)1:25, 27; (2)63:987, 989; 80:1287; 131A6:210; 139A5:156; 6:270; 7:391; 139B34:561–563; 145A7:333; 155A6:119; 7:157; 11:305; 158B24:333; 168A4:96; 5:155; 6:194; 169B8:31; 194A3:54; 4:87; 5:73; 6:59; 7:96, 103; 8:60; 9:51; 198A3:105; 4:75; 5:76; 199A11:73; 12:79; 13:64
- vs. pressure, 131B37:457–458
- vs. resistivity and porosity, 114B3:44
- vs. silica, 119A27:499
- vs. stress, 135B48:792, 794
- vs. temperature, 119A8:153; 139B35:567; 148B31:399; 164B2:25
- vs. water content, 110A4:114; 5:243; 7:425; 9:535; 113B2:22
- vs. wet porosity, 145A6:278
- well-logging, 156A6:160
- whole-round core sections, 154A5:206
- See also* conduction; convection; heat flow
- thermal conductivity, calculated, 168A4:99
- thermal conductivity, grain
 - sediments, 139B33:553–558
 - vs. depth, 139B33:555
- thermal conductivity, in situ, 139B32:545–552
- thermal conductivity, mean, 209A10:132
- thermal conductivity, mean-detrended, 201A12:48
- thermal conductivity, normalized, 204A10:74
- thermal conductivity, postdepositional, 116B7:78–81
- thermal conductivity anisotropy
 - igneous rocks, 209A10:131
 - peridotites, 209A9:93
 - sediments, 139B34:559–564
- thermal contraction, stress, 137/140B21:251–252
- thermal contrast, photograph, 201A4:12
- thermal cracking, alteration, 139B12:303–305
- thermal data
 - sill intrusion, 169A3:101
 - vs. compressional wave velocity, 201A4:16–17
 - vs. core-liner temperature, 201A4:16–17
 - vs. density, 201A4:17
 - vs. resistivity, 201A4:16
 - vs. wireline logs, 201A4:16
- thermal degradation
 - Rock-Eval pyrolysis, 165A5:256–257
 - vs. depth, 210A3:281
- thermal differentiation, 177B(synthesis):7
- thermal diffusivity, vs. temperature, 148B31:399
- thermal events
 - diabase thermal evolution, 137/140B16:195
 - faulted regions, 141A6:132
 - history, 129B7:170
 - Japan Sea, 127/128B(1)3:49–56
 - magnetism, 141B5:75
 - postdepositional fission track ages, 141B13:182
 - timing, 141B13:183–184
- thermal evolution, plagioclase inclusions, 148B7:91–94
- thermal flow, structural data, 169A3:111
- thermal fracturing
 - Celebes Sea, 124B8:112–113
 - Pacific Ocean W, 124B8:115
 - Sulu Sea, 124B8:112–113
- thermal gravity analysis, 126B7:115, 121
- thermal history
 - deformation, 159B4:39–41
 - extension, 161B44:561
 - fission-track data, 159B4:39–41; 5:43–48
 - lithology, 159B10:97–98
 - metamorphic rocks, 161B21:296; 22:303
 - organic matter, 151B23:407–414
 - paleofluids, 159B6:49–52
 - paleotemperature, 159B7:65
 - transform margins, 159B11:108
- thermal history, thermal jet
 - geochemistry, 141A6:117
 - Site 859, 141A6:132–133
- thermal insolation, frontal systems, 177A1:8
- thermal maturation
 - bitumens, 139A5:121, 124; 6:197–200
 - carbon isotope ratio of methane, 139B25:473–474
 - clays, 159B11:105
 - cores, 144A3:69–70; 4:131–132; 5:180–181; 6:234; 8:306; 10:368; 11:428–429
 - hydrocarbons, 151A12:395
 - n*-alkanes, 128A5:324
 - organic acids, 144B27:473–474
 - organic matter, 127/128B(1)38:671–672; 161B29:383–390; 175A3:75–76; 4:103; 6:167; 9:260; 10:298; 11:327; 12:375; 13:412; 175B6:7; 207A10:7–8, 20
 - Rock-Eval pyrolysis, 180B16:4–8
 - sediments, 131B5:57–69; 159A9:306; 159B25:277–318; 189A3:41; 5:45; 6:45
 - Site 798, 127/128B(1)38:669
 - Site 799, 127/128B(1)35:624; 38:669–670
 - vs. depth, 139A6:204–205
 - See also* maturation
- thermal maxima
 - upper Paleocene, 183B4:15
 - See also* late Paleocene thermal maximum; Paleocene/Eocene Thermal Maximum
- thermal metamorphism, basement, 173A1:11
- thermal minimum, 141A6:131–132
- thermal modeling
 - enhanced thermal interaction, 118B20:351
 - high-grade schist, 161B44:567–568
 - linear vs. step change, 118B20:353
 - one-dimensional conduction, 118B20:352–354
 - single-and double-layer models, 118B20:351
 - sulfides, 169B9:6–9
 - two-dimensional conduction, 118B20:349–352
 - uniformly conducting models, 118B30:350–351
- thermal neutron capture cross section, 151A9:304
- thermal neutron porosity logs, 159B23:245; 161A4:103–104; 5:164–165; 6:274–275; 7:338–339, 342, 345; 9:417–418; 164A6:141
- thermal overprinting
 - magnetic sulfides, 141B4:59–76
 - relation to lower sill complex, 210A3:70

- thermal parameters, basalts, 148B31:398–399
- thermal properties
 continental lithosphere, 149B40:638
 precipitates, 158B24:329–335
- thermal pulses, uplifts, 159B1:10
- thermal regimes
 accretionary prisms, 146A(1)10:402, 405–406, 410–412
 continental slope, 202B1:5; 204B1:15–16
 gas hydrates, 141B20:259–275
- thermal reset ages, subsidence, 144B52:916–918, 927–929
- thermal resistivity
 rocks, 149A4:110
 Site 780, 125A8:174, 176
 Site 782, 125A10:242
 Site 783, 125A11:272
 Site 784, 125A12:299, 304
 Site 796, 127A6:299
 Site 797, 127A7:390
 Site 799, 128A5:338
 temperature vs. integrated resistance, 125A8:177
 vs. depth, 149A7:258; 195A5:39; 199A11:74; 12:80; 13:65
 vs. temperature, 125A11:267; 127A5:235; 6:300; 7:397; 127/128B(2)81:1302; 134A7:133; 13:535; 135A(1)5:238; 7:335; 9:461–462; 10:548; 11:667; 156B18:245; 161A4:105; 5:167; 6:276; 7:345; 9:419; 195A5:40
- thermal resistivity
 cumulative vs. temperature, 166B10:115, 117; 170A3:93
 integrated vs. temperature, 134A12:457
- thermal stability, thaumasite, 135B39:650
- thermal sensors, alkenones, 139B26:479–484
- thermal structure
 accretionary prisms, 131A1:12
 gateway closures, 202B1:13–16
 geology, 190A1:3–4
 hydrocarbons, 131B15:187–189
 Juan de Fuca Ridge, 139A2:9–41
 middle trench slope, 141A8:292
 models, 146B(1)19:302–306
 sediment/basalt interface, 139B42:667–675
 Site 857, 139A7:285
 subducting slab, 186B1:7
 temperature profiles, 131A6:210
 tropical East Pacific, 202B12:15–25
 vent fields, 139A7:435
 vs. depth, 146B(1)19:305
 water column, 202B1:14
- thermal structure, axial, slow-spreading centers, 179A4:10
- thermal subsidence
 carbonate compensation depth, 192A3:16
 stratigraphy, 186B1:5
- thermal surveys
 gas hydrates, 164B26:253–264
 Juan de Fuca Ridge E, 168A4:94–96; 5:141–145; 6:179–180
- thermal transport, alteration, 168A1:11
- thermal waters, DNA, 168B14:167–174
- Thermoanaerobacteriaceae, cultured isolates, 201B1:16
- thermobarometry
 igneous rocks, 209B1:4–6
 metamorphic rocks, 161B19:263–279; 20:288–293; 23:312
 textures, 161B23:314
See also geobarometry; geothermometry; pressure-temperature conditions
- thermochronology, tectonics, 180B2:1–35
- thermocline
 Costa Rica Dome, 138A(1)9:163
 depth, 138B22:511–512; 159B40:552–553
 diatoms, 175A17:528
 deepwater circulation, 198B1:7–8
 evolution, 130B23:405–406
 fertility, 175B(synthesis):5–6
 foraminifers, 138B13:292–293; 144B20:402–409; 175B7:8; 12:8; 184B11:7
 ground-truth data, 138B22:505
 indicators, 138B34:709
 Japan Sea N, 127/128B(1)10:167
 lower Miocene, 208A1:39–40; 208B1:18
 nutrient depletion, 130B19:342
 ocean circulation, 138B22:504, 507–513; 28:616
 oxygen isotopes, 138B13:303
 paleoceanography, 189A1:13
 paleodrift, 202B12:3–5
 Panama Basin, 138B13:296
 photic zones, 138B25:576–578
 planktonic foraminifers, 138B25:560; 159B40:551–552
 Pliocene, 202B13:11–13
 Pliocene–Pleistocene interval, 159B42:579–580
 productivity cycles, 175B(synthesis):42–43
 seawater, 154B14:227
 seasonal environmental significance, 113B47:842
 sedimentation, 154A9:424–426; 154B17:261–262; 18:282–283; 29:448
 shoaling, 198B3:9–11; 202B12:17
 Site 847, 138B13:290
 thickness seasonal variation, 118B20:353
 thorium vs. depth, 138A(2)16:955
 topography, 154B18:278
 transport, 175A1:25
 upwelling, 199A3:14, 20–21
- Thermococcus*, microbiology, 190/196B1:8
- thermodynamics
 calcium carbonate, 168B8:95–103
 pore water, 126B34:519–528
 mineralogical correlation, 126B34:524–525
See also stability
- thermogenesis
 fractures, 172A6:274
 hydrocarbons, 164A9:298
- thermogenic gases, gas hydrates, 164A1:9–10
- thermogravimetric analyses (TGA), geochemistry, 125B17:316–317
- thermogravimetric Fourier transform infrared data, 139B27:489–490

- thermohaline circulation
 Baffin Bay, 105B4:53–54
 currents, 165A1:9
 deep water, 177B(synthesis):14–16
 gateways, 189B1:34–35
 Japan Sea, 127/128B(1)29:528–529
 Labrador Sea, 105B4:58
 Marshall Paraconformity, 181B1:55–56
 Meiji Drift, 145A6:274–276
 millennial-scale freshwater transport, 202B1:4
 Miocene, 115B25:483, 485
 Neogene, 189B1:17
 Oligocene, 130B15:275–277
 paleoceanography, 181A1:3; 181B1:11–12
 Paleocene, 165A8:381
 Paleogene, 189A1:56
 paleoclimatology, 146B(2)23:322–323
 salt, 161A1:14
 stable isotopes, 115B27:519, 524
- thermomagnetic curves
 alteration, 148B12:179
 basalts, 187B7:7–8, 13
 Curie temperature, 183B12:6–7, 16; 13:5, 17
 magnetic susceptibility, 152B23:276–279
 sediments, 195B13:13
 volcanic rocks, 141B4:55
 volcaniclastics, 134B28:495–496
 vs. temperature, 139B31:540
- thermomagnetic properties
 peridotites, 173B8:25
 sediments, 175B13:4–5
- thermomechanical models, rifting, 149B40:636–645
- thermophiles/hyperthermophiles, temperature boundaries, 190A1:36
- thermophilic taxa
 bacterial cells, 169B2:5–6
 ostracodes, 151B11:197–201
 vs. depth, 169B2:14
- thermoremanent magnetization. *See* remanent magnetization, thermal
- Thermosediminibacter*, cultured isolates, 201B1:16; 2:8
- Thermus* sp.
 gold mines, 201A1:5
 microbial pits, 148B14:212
- thianes
 biomarkers, 207A10:7
 monounsaturated malabaricane, 175B10:12–13
 tricyclic triterpenoid, 175B10:12–13
- thickness
 ice, 188B14:5
 lithology, 152A10:170
 sediments, 189A1:74
 stratigraphy, 181A1:47
 sulfides, 158B16:203–204
 tephra, 152B5:54
 vs. compressional wave velocity, 152B38:461
- thin sections
 basalts, 142A4:89–99; 163A4:253–276
 composition, 169A3:94–95
 description, 163X_A4:14; 5:6; 6:24; 7:5
 lithology, 183A5:176; 6:180; 198A3:14–15
 physical properties, 174A_B7:30–39
 sediments, 163A4:279
 Site 976, 161A6:991–1017
 Site 977, 161A7:1019–1022
 Site 978, 161A9:1023
 Site 1010, 167A(2)5:1375–1378
 summary, 183A7:191
 volcaniclastics, 136B7:86–87
 whole core, 174A_B7:40–45
- thiolanes, isoprenoid
 biomarkers, 160B28:356
 sapropels, 160B23:287, 289
 sediments, 175B10:12–13
- thiophene sapropels
 alkylated, 160B23:288–289
 hopanoid, 160B23:287
- thiophenes
 biomarkers, 160B28:356
 isoprenoid, 175B10:12–13
 pyrolysis, 157B21:365–366
 sediments, 175B5:5
- Thioploca*
 oceanic anoxic events, 198A3:29
 organic matter, 198A9:28
- Thioploca* bacterial mats, Peru margin, 112B38:585
- thiosulfate, sediments, 146B(2)16:225
- third-order cycles, Oligocene–Miocene, 149B4:118
- tholeiites
 basalts, 127/128B(2)54:870, 875
 basement, 185B1:4–5
 Celebes Sea, 124A13:369–371
 composition, 134B18:363–373; 139A6:260;
 139B6:100; 143A2:29; 183A1:80, 88
 De Marchi Seamount, 107B1:15
 elastic-wave velocity, 144B40:667–670
 eruptions, 130A10:526
 Faeroe Islands, 104A51:1044
 gabbros, 176B8:5–14
 geochemistry, 127/128B(2)51:839; 129B19:369–373;
 136B9:110–111; 144B39:658–661; 163B8:82–85;
 192A3:28–29; 5:14–15; 6:17
 Gortani Ridge, 107B38:634
 isotope geochemistry, 120B(1)2:42–43; 129B21:406
 Izu-Bonin-Mariana region, 125B1:6
 Jurassic, 173A1:8–12; 185A1:17–19
 lava flows, 183A1:19, 29
 liquid line of descent, 118B4:101
 lithology, 183A1:21–22
 low-temperature alteration, 104B24:445–447
 magmatism, 149B1:15; 161B44:574
 magnetochrons, 163B6:60–61
 native copper, 104B21:411–416
 noble metals, 135B35:599
 Norwegian Sea, 104B24:438–439
 ophiolites, 180B1:3
 petrology, 151B19:351–365
 rare earths, 127/128B(2)58:922, 925; 134B9:155–156
 rifted margins, 163X_A1:3–4
 Site 701, 114B40:733, 742
 Site 747, 120A6:135
 Site 749, 120A8:268–269

- Site 794, 127/128B(2)47:779–780; 128A1:33; 3:68–69, 96–99, 117
 Site 795, 127/128B(2)58:919
 Site 797, 127/128B(2)58:920
 Site 803, 130A5:149
 spidergrams, 127/128B(2)58:923, 926
 strontium isotopes, 125B13:256
 sulfur content, 118B4:88
 Sulu Sea, 124B21:306
 tephra, 205A5:61
 Tyrrhenian Sea, 107A7:289
 volcanic arcs, 127/128B(2)83:1338
 volcanic ash, 151B17:317–323
See also basalts; ferrotholeiite; hawaiiite
- tholeiites, abyssal crystallization history, 118B4:85
 tholeiites, island arc
 boninitic affinities, 125B18:328
 geochemistry, 134A10:278
 major element geochemistry, 125B16:302
 mid-ocean-ridge basalt-like rock, 125B24:407
 petrology, 134B16:337, 341–344; 17:353–357; 18:363–373
 tholeiites, low-potassium
 lava flows, 192A1:6–7
 ophiolites, 180B6:14
 phase diagrams, 180A6:133–134
 sills, 180A6:37–38
 zirconium vs. titanium/yttrium ratio, 180A6:135
 tholeiites, olivine-normative, composition, 120B(1)2:38; 5:73
 tholeiites, phryic olivine, petrology, 148A3:141
 tholeiites, quartz-normative, composition, 120B(1)2:39
 tholeiitic andesites. *See* andesites, tholeiitic
 tholeiitic basalts. *See* basalts, tholeiitic
 thomsonite
 alteration, 135A(1)10:517; 11:596–597; 152B35:426; 176B1:5; 183B15:8; 205A4:33
 composition, 147B15:308
 hydrothermal veins, 118B8:180
 mafic rocks, 147B14:275
 mineral chemistry, 147B15:301–302; 152B34:419
 occurrence, 120B(1)4:64, 66; 152B34:418
 photomicrograph, 205A1:58; 4:113
 Site 779, 125B25:425
 spectra, 134B9:146
 troctolites and gabbros, 147B14:269
 veins, 176B9:13
 volcaniclastics, 134B9:137–144
 X-ray diffraction data, 200A3:97
- thorium
 alteration, 125B12:225; 193B1:48
 basalts, 130B1:7–10, 14–20; 142B5:37–38; 210B9:17
 basement, 127/128B(2)49:807; 173B3:2
 calcite-free data, 119B39:728–729
 Celebes Sea, 124A10:174–179, 183; 13:377–381; 124B42:543–546, 549–550
 Cretaceous/Tertiary boundary, 119B39:725–726
 estimation errors, 156B14:194
 Galicia margin W, 103A8:157–160; 9:275, 279, 284; 10:446–448
 gamma ray intensity, 165A4:190–191; 171A_A3:28
 geochemistry, 123B35:639; 129B34:638; 143A4:76
 lava, 121B31:602–603
 lithology, 180B6:6
 metasedimentary rocks, 152B10:137
 mineral separates, 158B2:32
 natural gamma ray spectra, 156B14:187; 16:225; 195B12:6–9, 33
 peridotites, 209B1:17–18
 pore water, 193B4:5
 radioactivity, 191A4:42
 reference concentrations, 156B14:193
 sediment flux, 185B1:30
 sediments, 162B14:200–201, 206–207; 180B6:5, 10
 sills, 129B18:349
 Site 700, 114A7:296; 114B34:651–654
 Site 747, 120B(2)58:1057
 Site 781, 125B16:303–304
 Site 795, 127/128B(1)41:707
 Site 798, 127/128B(2)86:1370–1371
 Site 799, 127/128B(1)42:724
 sulfides and sediments, 158B3:44
 Sulu Sea, 124A11:269–273
 uncertainties in laboratory analyses, 156B14:190
 volcanic ash, 127/128B(2)87:1386
 volcanic rocks, 161B27:370; 183B17:2
 vs. depth, 129B18:351; 131B28:350, 356–357; 148B37:464; 156B14:188; 160A8:271; 164B15:162; 165A6:336–337; 171B_B4:9; 185B1:26; 195B12:19; 206B6:6
 vs. lanthanum, 129B18:359; 154B31:471; 161B27:366
 vs. loss on ignition, 148B10:141
 vs. potassium, 164A6:140; 7:212; 165A6:340; 171B_A4:167; 5:235; 6:316
 vs. potassium oxide, 148B10:141
 vs. tantalum and lanthanum in basalts, 121B30:578
 vs. thorium/sodium oxide ratio, 185B1:30
 vs. ytterbium, 195B4:34
 vs. zirconium, 125B13:248–249; 148B37:466
See also barium/thorium ratio; cadmium/thorium ratio; hafnium-tantalum-thorium diagram; potassium/(thorium + uranium) ratio; scandium/thorium ratio; uranium/thorium ratio; uranium/thorium ratio logs
- thorium, carbonate-free
 vs. depth, 162B14:204
 vs. titanium/aluminum ratio, 162B14:204
- thorium-230
 fluid flow, 166B3:28–30
 See also radium-226/thorium-230 ratio
- thorium-230/uranium-234 ratio
 geochronology, 169B4:1–15
 sulfides, 158B9:111–117; 169B4:14–15
 vs. protactinium-231/uranium-235, 169B4:10, 12
- thorium-232, sulfides, 158B9:112
- thorium/aluminum oxide ratio
 sediments, 171B_B4:4
 vs. depth, 123B8:182; 131B35:444; 171B_B4:11
- thorium/hafnium ratio, basalts, 151B19:363
- thorium isotopes
 accumulation increases, 105B29:554
 Baffin Bay, 105B29:554–555, 560

- Labrador Sea, 105B29:552–559
 plankton uptake, 105B29:554
 sedimentation rate changes, 105B29:554–555
See also thorium-230; thorium-230/uranium-234 ratio
- thorium/lanthanum ratio
 sills, 129B18:349
 volcanic rocks, 152B28:339–342
 vs. lanthanum/samarium ratio, 152B31:382
 vs. silica, 152B28:343
- thorium/lead ratio, Izu-Bonin forearc, 125B13:248–249
- thorium logs
 activity and flux, 117B27:465
 basalts, 144A8:321; 185A3:42; 200A1:17
 comparison of tools, 191B6:5–6
 concentration calculation, 145B46:678–679
 core-log correlation, 167A(1)8
 correlation, 181A7:46, 197–198
 cyclic processes, 174A_A5:183–184
 data, 117A10:303; 16:526–533; 123B33:604;
 131A6:218–219, 231–232; 166A8:199; 10:324
 depositional flux through time, 117B28:466–469
 evaluation, 159B17:173–174
 factor logs, 171A_A3:22, 26
 formation evaluation, 193A3:95–96
 gouge, 161B25:334
 gypsum, 160A8:263
 igneous rocks, 209A10:40
 lithology, 117A19:623; 172A5:242
 logging-while-drilling, 204A3:92
 Maldives, 115A12:941
 onshore processing, 149A6:201
 Owen Ridge, 117A10:293
 particle scavenging, 117B28:467–468
 power spectra, 189A5:112
 recording, 134B36:628
 Site 504, 137/140B30:343–344
 Site 794, 127/128B(2)89:1418–1419; 128A3:103, 108
 Site 796, 127/128B(2)89:1422
 Site 797, 127/128B(2)89:1424–1425
 Site 798, 127/128B(2)88:1400
 Site 799, 127/128B(2)88:1403, 1406–1407;
 128A5:366–367
 Site 814, 133A(1)7:234
 sources, 117B28:466
 statistical analysis, 159B17:168
 terrigenous component, 117B23:412
 turbidites, 117A19:623
 vs. depth, 114A11:693–696; 118A6:178; 118B15:280;
 125B38:665; 126A7:216–220; 8:289; 43:655;
 130B48:777–779; 133B57:798; 136B13:154–155;
 138A(2)17:1016; 143A6:165; 9:355; 144A3:94;
 5:196–197; 6:247; 10:388–389; 145A3:76; 5:184;
 6:279; 8:381; 146A(1)6:287; 7:364; 147A3:103;
 149A6:204; 150A10:340–341; 151A7:205, 258,
 302; 152A9:128; 154A5:213, 217; 8:401;
 154B6:126–128; 155A9:227; 10:267; 12:366;
 156A5:86; 157A4:88, 96–102; 6:167, 177–178;
 7:377; 9:472; 10:539; 160A6:144–147, 150–151;
 7:200–202, 208–210; 8:264–271, 274–277, 282–
 284; 9:323–324; 10:404–408, 446–447, 491;
 161A4:101–104, 109–110; 5:162–166; 6:266–
 270, 273, 276; 7:340–341; 9:415–416;
 161B24:322; 164A6:156–157; 165A3:94; 4:194;
 5:273; 6:339; 166A6:102; 8:198; 9:261; 10:323;
 167A(1)8:211; 168A6:207–210; 169A3:132;
 5:231; 170A3:86; 4:143–144; 6:212; 7:241;
 171A_A3:25; 4:44; 5:65; 6:83; 7:99;
 171B_A4:164; 5:233; 6:315; 172A5:244; 6:301,
 303; 173A4:96; 7:213; 8:260; 174A_A4:137, 139;
 5:185; 177A8:64; 178A4:89; 9:67; 179A4:155;
 180A5:102; 6:182–185; 8:99–100; 9:131–134;
 12:132–136; 181A7:110; 9:55; 182A4:77–78;
 5:53–54; 6:80–81; 7:62–63; 8:61, 64; 9:51–52;
 10:64–65; 12:52–53; 183A5:159–160; 7:175–
 178; 8:92; 184A4:75; 5:71–72; 7:68–69; 9:81,
 84–85; 185A4:138; 186A4:94; 5:84; 188A3:161;
 4:90; 189A3:111; 5:107, 113; 6:119, 124–125;
 7:98; 190A4:82; 191A4:115; 191B6:17;
 193A3:256; 4:217, 226; 194A5:76, 80–82; 6:66;
 7:105, 107, 111; 9:53; 195A4:154; 197A3:132;
 199A11:79; 12:90; 200A4:150; 201A6:71–72;
 7:76–77; 9:57; 10:61; 11:77; 202A9:69; 10:67;
 12:69; 203A3:75; 204A4:91; 6:63; 9:69; 10:84;
 11:40; 205A4:161; 206A3:161, 323; 207A4:71,
 74; 5:75; 7:73; 8:70; 208A4:62; 209A7:120;
 10:148
See also geochemical logs; natural gamma ray logs;
 uranium/thorium ratio logs; uranium-thorium
 dating
- thorium/niobium ratio
 lava, 135B24:410
 schists, 195B4:9
- thorium/neodymium ratio, schists, 195B4:9
- thorium oxide. *See* barium/thorium oxide ratio
- thorium/potassium ratio
 clay mineralogy, 150B23:415–419
 décollement zone, 171A_A5:62
 Indus Fan, 117A8:186
 mixed-layer clays, 178A5:28
 Oman margin S, 117A16:530
 paleoclimatology, 154A9:438
 vs. age, 154A6:267; 7:327; 9:440
 vs. depth, 154A5:213; 6:266; 7:325; 8:398–399;
 155A9:227; 162A4:125; 9:326; 172A5:244;
 6:301; 174A_A4:150; 5:185; 178A4:89; 5:84;
 9:67; 178B32:33
 vs. photoelectric factor, 174A_A4:150
 vs. water content and depth, 144B39:659, 661
 wavenumber, 178B32:30
- thorium/scandium ratio, vs. lanthanum/samarium ratio,
 154B31:470
- thorium/sodium oxide ratio, vs. thorium sediment flux,
 185B1:30
- thorium/tantalum ratio
 basalts, 121B30:571; 129B19:386
 continental-related component, 121B32:644–645
 metasedimentary rocks, 152B10:136
 Ninetyeast Ridge, 121B32:639–640
 ocean island basalt characteristics, 121B32:644
 tholeiites, 129B19:369–370
 vs. lanthanum/tantalum ratio, 121B30:581, 584;
 32:641–644

- vs. lanthanum content, 121B32:640
- thorium/ytterbium ratio
 - Site 786, 125B11:229
 - tephra, 126B30:462
 - vs. depth, 180A6:182–185
 - vs. tantalum/ytterbium ratio, 161B27:369
- thorium/zirconium ratio
 - geochemistry, 125B20:369; 38:640
 - Site 786, 125B12:223
 - vs. neodymium isotopes, 125B13:254
- three-component instruments, 186A3:7, 29
- thrombolites
 - basin margins, 161B43:548–549
 - photograph, 144B16:333
- thrust faults. *See* faults, thrust; thrust sheets; thrust zones
- thrust fronts, seismic reflection, 156A2:16–18, 21–22
- thrust sheets
 - accretionary wedges, 134B1:13–18
 - correlation, 180B1:3
 - evolution, 134A14:576
 - New Hebrides island arc, 134B2:22–24, 28–29; 23:419–427
 - ocean basins, 131A2:17
 - tectonics, 160B54:753
- thrust stacks, overthrusting, 160B50:672
- thrust zones
 - evolution, 161B44:570–577
 - Formation MicroScanner imagery, 134B34:593
 - New Hebrides island arc, 134B35:613–615
 - porosity, 131B32:399
 - sediments, 196A1:9–10
 - vs. depth, 131A6:115–116
 - water content, 134B30:544–545
- thrust zones, frontal
 - brecciation, 131A7:277
 - deformation, 131A6:138, 169–170; 131B25:303–305
 - resistivity-at-the-bit images, 196A4:20–21, 29–30, 46, 49
 - vertical seismic profiles, 131B33:422
- thrust zones, imbricate, stratigraphy, 196A1:4
- Thuja plicata*, scanning electron microscopy, 169S_A2:61
- thulite, Site 783, 125A11:255
- thulium, Paleocene/Eocene boundary, 199B16:3
- Thvera Subchron
 - biohorizons, 167B1:14
 - correlation, 145B34:497
 - magnetic polarity, 135A(1)10:531–533; 11:615–619; 181A7:28
 - magnetostratigraphy, 167A(1)4:71; 15:442; 132B3:43; 4:53; 138B38:781; 173B11:13; 188A3:42–43; 194A4:18–19; 195A4:31
 - Oman margin S, 117B2:32; 7:175
 - Owen Ridge, 117A10:268
 - Pacific Ocean E, 138B6:85
 - remanent magnetization, 160A10:356–357
 - sediments, 195A1:21; 202A8:21
 - Site 745, 119B43:753; 46:818
 - Site 848, 138A(2)13:695, 698
 - Site 852, 138A(2)17:990–993
 - Site 853, 138A(2)18:1038–1041
 - vs. gamma ray attenuation density, 138A(1)6:88
- thymidine incorporation, community structure, 201A1:17
- tidal channel environment, lithology, 174AXS_A6:39–42; 7:12
- tidal currents, lithology, 180A9:15
- tidal environment
 - cyclic processes, 188B1:16
 - delta, 174AXS_A3:18–19
 - dolomitization, 101B13:198
 - flats, 207A6:51
 - Little Bahama Bank, 101A6:125
- tidal loading, fluid flow, 146B(1)19:308–309
- tidal signals, hydrology, 139B34:657–660
- tides, oceanography, 169S_A2:15–16
- tidewater glaciers, deglaciation, 178B34:4
- tie points
 - depth to age conversion, 188B9:16
 - magnetic susceptibility, 191A4:140
 - sediments, 186B15:39
 - See also* splice tie points
- till
 - deposition, 178A9:6
 - glaciomarine sediments, 163X_A8:3
 - INQUA classification, 119B6:103
 - sediment transport, 178A1:2–3
 - See also* deformation till
- till, basal
 - clast orientation, 119B6:107
 - deposition, 119B6:103
- till, deformation, deposition, 178A6:8; 9:9
- till, glacial, Four Ladies Bank, 119A8:290
- till, lodgement
 - deposition, 119B6:103, 107
 - Oligocene prograding sequence, 119B6:115
 - Prydz Bay, 119A8:326, 339; 9:356; 12:463, 465
- till, melt-out, deposition, 119B6:103
- till, waterlain
 - deposition, 119A11:412; 119B6:103
 - Eocene, 119B48:882
 - Oligocene deposition, 119B6:118
- till deltas, deposition, 178A9:9
- tillite, grounded and marine depositional environment, 119B14:287
- tilted blocks. *See* blocks, tilted
- tilting
 - Cagayan Ridge, 124A12:306, 321; 14:410; 124B38:515
 - Celebes Sea, 124B4:58
 - Cenozoic rates, 135B20:326–328
 - décollement structures, 159B3:26
 - faults, 159B9:83–90
 - histograms, 152B37:446–447
 - lava flows, 152A9:129
 - Lower Cretaceous, 159B2:17
 - magnetization, 159B21:206
 - normal faults, 159A6:207
 - orientation, 134B24:433–437
 - origin, 159B9:87–90
 - photograph, 159A6:207
 - rates, 159B3:8–9
 - Sulu Sea, 124A11:230
 - tectonic controls, 133B27:402

- transform margins, 159B11:107–108
- uplifts, 159B1:10
- vs. age, 159B1:9
- tilting, regional, orientation, 135B20:325–327
- tiltmeters, boreholes, 186A3:10–11, 33–34
- time
 - pressure coring sampler, 201A3:10
 - vs. pressure, 164A6:122–123; 8:265, 164B11:124–125
 - vs. temperature, 161A6:271, 276; 161B21:300
- time-after-bit logs, 171A_A3:28; 4:47; 5:68; 6:86; 7:102
- time-average equation, methods, 102B3:36–37
- time boundaries, correlation, 159B4:35–41; 190A1:49–51
- time-depth conversion
 - correlation, 178B16:24
 - geomagnetic excursions, 202B2:21
 - laboratory studies, 210A3:108–111
 - seismic models, 178A7:23
 - seismic sequences, 166A6:109–110; 7:166–167; 8:202–203; 9:262, 264; 10:325; 11:369, 371; 174A_A3:89–91; 4:134
 - seismic stratigraphy, 178A5:31–32; 182A4:39–40; 5:26–27; 6:37; 8:30; 10:31; 194A1:44–47; 3:23; 4:27–28; 5:27; 6:24–25, 93; 7:36, 40, 106, 148; 8:22; 9:23; 12:27
- time domain analysis, 161B37:471–472
- time-frequency analysis, 178B32:7–15
- time maps, seismic horizons, 204B2:27
- time-pressure plots
 - pressure core sampler, 164A7:195
 - Site 1225, 201A3:14
 - Site 1226, 201A3:14; 7:74–75
 - Site 1229, 201A3:14
 - Site 1230, 201A3:15–17
- time-temperature plots
 - infrared thermal imaging, 201A4:10
 - Site 1225, 201A6:52–53
- time sections, vs. depth sections, 178B19:30
- time series analysis
 - calcium carbonate, 167B32:358
 - color, 167B29:323–324
 - timescales, 138B15:348
 - See also* amplitude time series analysis
- timescales
 - age models, 138B6:87; 42:827
 - astronomical calibration, 145B19:285–287
 - calibration, 154A9:438–440; 154B20:302–304; 22:331–345; 23:352
 - Ceara Rise, 154A9:438–440
 - Cenozoic, 145B38:593–594
 - comparison, 138B35:723
 - cyclostratigraphy, 154B5:101–114
 - hydrothermal mounds, 158B10:124
 - islands, 157A2:23–24
 - Neogene, 138B29:628
 - Paleocene/Eocene boundary, 199B18:4
 - paleomagnetism, 198B22:6–7
 - Pliocene, 138B15:342–345, 348
 - rifting, 149B39:627
 - sediment flux, 154B3:69–82
 - titanite clasts, 149A6:166
 - upper Neogene, 138B6:73–101
 - vs. depth, 150A8:231
 - See also* astrochronologic age models; geochronology; geomagnetic polarity timescale; SPECMAP timescale
- timescales, tuned, applied to magnetic susceptibility, 154B3:70–71
- tin
 - hydrothermal alteration, 169A3:39
 - mineral separates, 158B2:33; 27:370–373
 - Paleocene/Eocene boundary, 199B16:3
 - sulfides and sediments, 158B3:45
 - volcanic rocks, 135B30:533–542
 - vs. depth, 139B11:229–250; 17:359–367; 160B16:201
 - See* arsenic/tin ratio
- tin/aluminum ratio, vs. depth, 157B32:568
- tin isotopes
 - lithology, 185B1:12
 - vs. depth, 185B1:27
- titanaugite
 - basalts, 144A3:74; 144B29:497, 501–502
 - diabase, 129B18:346
- titanaugite clasts. *See* clasts, titanaugite
- titanite
 - alteration, 111A3:63–67; 147A3:71; 148B34:426; 185A3:26; 206B1:8; 209A10:14–17
 - aluminum-titanium-iron diagram, 137/140B15:177
 - amphibolites, 173A6:130–131, 138–139
 - basalts, 148B38:473–477
 - basement/sediment contact, 161A6:215
 - calc-silicate rock, 161B18:256
 - chemical composition, 155B7:152; 157B18:316–320; 176B9:57
 - clastic mineral phases, 157B15:235, 237
 - Costa Rica Rift, 111B6:67
 - Deep Copper Zone, 169A3:77
 - deuteric oxidation, 137/140B29:332
 - electron microprobe data, 148B8:107
 - felsic veins, 118B27:549
 - gabbros, 180B3:7
 - granite gneiss, 180A7:13
 - hydrothermal veins, 118B8:180
 - inclusions, 157B27:455
 - magnetic minerals, 137/140B22:257–259
 - major and trace elements, 148B38:475
 - meta-anorthosite clasts, 173A7:191
 - mineral chemistry, 118B10:200
 - mineral textures, 176A3:19
 - moderate-temperature minerals, 176A3:36
 - petrography, 179A4:40–41
 - photograph, 153A5:199; 176A3:153; 209A10:80
 - photomicrograph, 169A3:95; 179A4:119; 185A1:47; 206A3:205; 209A10:78
 - secondary minerals, 137/140B15:176, 187; 148B6:77
 - Site 778, 125B25:420, 424
 - Site 779, 125B25:425
 - thin sections, 176A3:24–25
 - tonalite gneiss, 173A6:131
 - veins, 147A3:72–73; 169A3:75; 176B9:14
 - vs. depth, 202A3:25
 - X-ray diffraction data, 209A10:80
 - See also* ilmenite-titanite alteration

- titanite, vermicular pink, ilmenite, 118A6:133
 titanium
 alteration, 134A8:155–156; 153B10:208
 amphibolites, 173A6:133; 173B10:5
 anomalies, 153B10:235
 augite, 127/128B(2)52:851–853, 856; 53:862–863
 basalt paragenesis, 195B8:7
 basalts, 136B9:112; 163A4:40; 183A5:35; 192A1:28–30; 6:17; 195A4:23, 112; 197A4:17–18; 210B9:17
 basement, 126B28:433–434, 437
 bulk sediments, 199A8:17; 9:11; 10:17; 11:26; 12:26–27; 13:22; 14:19
 calcic amphibole veins, 147B10:194
 Celebes Sea, 124A13:372–373
 chromian spinel, 159B14:134–136
 chromium and titanium vs. magnesium/(magnesium + iron) ratio in augite, 127/128B(2)53:867
 clay, 180B17:6
 clay mineralogy, 169B6:7, 9
 clinopyroxenes, 103B17:257–259; 125B28:499–500; 129B17:330; 176B4:10; 10:12
 depletion, 126B30:461; 135B24:394–399
 detrital component, 167B23:267–270
 diabases, 180A6:36; 180B1:4; 3:7
 electron and ion microprobe data, 137/140B12:134
 enrichment, 147B7:144; 8:166
 felsic rocks, 183A7:41
 ferromanganese micronodules, 199B14:4
 fractionation, 183A7:41–42
 gabbros, 153B6:108–109; 17:339–340; 28:496; 176B8:3–4; 180B3:7
 Galicia margin W, 103B17:255
 geochemical logs, 117B29:490; 118A6:175
 geochemistry, 129B5:143
 high-temperature microscopic veins, 176B4:12–13
 hornblende, 176B10:14; 180B3:8–9
 hydrothermal alteration, 137/140B7:90–93; 176A3:25–26; 206A3:71; 206B1:7
 hydrothermal mounds, 158B27:370–380
 hydrothermal sediments, 199B15:3
 immobile elements, 137/140B7:86–87; 169A3:99, 101
 inorganic sediments, 154B36:509–516
 Japan Sea sediment, 127/128B(2)78:1236
 lava flows, 183A1:14; 197A3:21–22; 6:15
 lithology, 183A1:33; 210A3:35, 54
 magmas, 183A7:40
 magnetic properties, 120B(1)15:238
 mantle domains, 158B17:225; 187A1:13–14
 mass balance, 169A3:98
 mineral chemistry, 153B12:271; 179B(synthesis):15; 2:10–12
 mobilization, 148B4:47–50
 modern surface sediments, 138B42:824–826
 negative anomalies, 125B38:633
 orthopyroxenes, 176B10:14
 Paleocene/Eocene boundary, 199A1:84; 13:24; 199B16:3
 parental magma, 127/128B(2)52:856
 peridotites, 153B29:518; 209A3:34
 phase equilibria, 179B2:41
 pillow lava, 169A3:94; 187A4:7
 pore water, 116B13:146, 150
 positive anomalies, 125B28:492
 provenance, 165A6:322
 pyroxenes, 129B17:316–317
 secondary minerals, 180B3:7–8
 sediments, 150B20:363–364; 167B23:265; 171B_B4:4–5; 189B12:2–3, 7–12; 195A4:36; 202B8:5–6; 205B3:4; 206A3:42
 serpentine sediments, 125B18:334
 shipboard vs. laboratory results, 125B9:149
 shipboard vs. shore-based digestion, 206B3:14
 shore-based flux vs. shore-based microwave acid digestion, 206B3:12–13
 siliceous rocks, 198B17:22
 Site 798, 127/128B(1)42:722
 Site 799, 127/128B(1)42:722
 spinel, 103B17:257; 147B8:169
 sulfides and sediments, 158B3:43, 45
 Sulu Sea, 124A11:220, 265–268
 troctolitic spinel, 118B26:447
 tuffs, 129B4:127
 turbiditic–pelagic transition, 117B29:485
 velocity and density, 199B13:6
 vesicle enrichment, 135B37:615
 volcanic ash, 131A6:172
 volcanic rocks, 152B28:340; 161B27:370; 183B17:2 vs. age, 199A7:13
 vs. aluminum, 134B16:344; 17:356; 147B15:302; 149B26:458; 153B13:390, 394; 31:544–545; 154B36:517; 163X_A8:24; 176B4:37; 179B2:39; 195B8:17; 202B8:13
 vs. aluminum/(aluminum + iron + manganese) ratio, 129B2:54
 vs. chromium, 134B16:345; 135B43:702; 153B28:496
 vs. chromium number, 149B21:389, 391, 394
 vs. depth, 135B7:127; 137/140B14:160; 147B11:217; 148B5:60; 34:425; 153B6:111; 156B13:179, 181; 167B23:268; 171B_B4:8; 175B13:15; 177B1:6; 183A5:121; 189B12:5; 199A8:36; 9:27; 10:40; 11:65; 12:70; 13:54, 56; 14:39, 41; 199B15:6; 16:7; 206B3:15
 vs. lanthanum/ytterbium ratio, 144B30:525
 vs. magnesium/(magnesium + iron) ratio, 127/128B(2)52:858
 vs. magnesium number, 139A6:264; 8:530; 153B31:538; 179B2:38
 vs. neodymium, 127/128B(2)57:902
 vs. nickel, 134A9:201
 vs. niobium, 183A7:138
 vs. niobium/yttrium ratio, 183A7:138
 vs. niobium/zirconium ratio, 183A9:96
 vs. noncarbonate fraction, 165A6:323
 vs. rare earths, 173B10:14–16
 vs. silicon, 143B15:248–249
 vs. sodium, 149B21:394; 153B9:270
 vs. tetrahedral aluminum, 179B(synthesis):87
 vs. titanium/zirconium ratio, 140A2:92
 vs. vanadium, 125B24:408; 135B35:599; 183A4:60; 195A1:59; 4:113; 195B2:26; 210B9:57, 60
 vs. yttrium, 183A7:138

- vs. zirconium, 125B24:408; 128A3:101; 131A6:198;
 134A8:157; 12:418; 134B16:347; 17:358;
 135B25:450; 137/140B12:136; 139A5:137–138,
 147; 6:264; 7:375; 8:528; 142A4:70; 147B6:119;
 152B10:136; 183A7:138; 9:95; 197A1:56; 3:94;
 4:70; 6:72
- vs. zirconium and yttrium, 134A12:419
- vs. zirconium/titanium ratio, 183A7:138
- websterite, 153B16:329
- X-ray fluorescence data, 117B29:485, 489–490; 127/
 128B(2)65:1028–1035; 175B13:5–6, 21–30
- See also* aluminum/titanium ratio; aluminum + iron +
 titanium system; barium/titanium ratio; chromi-
 um/titanium ratio; gabbros; ilmenite; iron/ti-
 tanium ratio; iron-titanium oxides;
 manganese/titanium ratio; nickel/titanium ra-
 tio; niobium/titanium ratio; phosphorus/tita-
 nium ratio; potassium/titanium ratio;
 rubidium/titanium ratio; silicon/titanium ratio;
 sodium/titanium ratio; titanium/(aluminum +
 iron + titanium) ratio; vanadium/titanium ratio;
 yttrium/titanium ratio; zirconium/titanium ra-
 tio
- titanium, formula units, vs. chromium formula units for
 clinopyroxenes from gabbros, 147B1:8
- titanium/(aluminum + iron + titanium) ratio, vs. alumi-
 num/(silicon + aluminum) ratio, 153B31:544–
 545
- titanium dioxide. *See* titanium oxide
- titanium/europium ratio
 intersite differences, 121B32:637
 vs. lanthanum content, 121B32:640
- titanium logs
 Site 794, 127/128B(2)89:1420–1421
 Site 796, 127/128B(2)89:1423
 Site 797, 127/128B(2)89:1426–1427
 Site 798, 127/128B(2)88:1401–1402
 Site 799, 127/128B(2)88:1404, 1408–1409
- titanium oxide
 Albian–Turonian sedimentology, 210B8:7
 alteration, 168A5:124; 183A7:153; 187B5:10;
 193A4:48
 amphiboles, 176B9:9–10; 209B4:5
 amphibolites, 173A6:133; 173B10:4
 arc-to-bench transition, 126B27:422, 428
 Atlantis Bank, 118B6:135
 basalt flows, 163X_A8:10–11
 basalt glasses, 118B4:86
 basalt vs. oxide-free gabbros, 118B26:473
 basalts, 125B12:229; 139A5:137–138; 145A6:220;
 163A4:39; 169A3:95; 5:215–216; 183A5:34–35;
 187A3:10; 8:11–12; 9:8–9; 10:6; 11:12–13; 14:8;
 15:11; 192A7:8; 195A1:59; 4:114; 195B8:8;
 200A1:13–14; 4:36–37; 206A1:30–31
 basement, 126A24:369; 28:445; 126B28:440, 447;
 183A1:35; 6:48; 7:132; 8:18; 9:27–28
 biotite, 176B9:11
 black shale, 210B8:16
 boninites, 125B12:229
 bulk rock and mineral chemistry, 153B10:202–205
- chemical stratigraphy, 176A3:51–53; 176B(synthe-
 sis):16, 34–45
- chromian spinel, 147B8:165
- clay minerals, 169B6:6, 23
- clinopyroxenes, 118B4:80; 135B27:493–494;
 176B4:10
- cooling units, 129B19:366
- core vs. log measurements, 126B40:593
- dacite lava, 193B2:8
- diabase sill distribution, 129B18:358
- diabases, 118B26:479–480; 168A5:123; 180A6:36;
 209A7:23
- differentiation, 176B10:16–21
- diopside, 176B9:10
- electron microprobe data, 147B8:164; 148B14:210
- enrichment, 183A6:48–49
- experimental liquids, 152B30:366
- felsic rocks, 183A7:41
- fine-grained sediments, 210B8:14
- fractionation index, 129B18:358; 19:383
- gabbros, 118B26:479–480; 153B17:338; 170A3:78;
 176A3:53; 176B3:3–4; 8:4–14; 12:3–4;
 179A4:45–47; 179B(synthesis):9, 13–14, 25, 32;
 2:12–20; 205A4:34; 209A6:30–31; 10:24
- geochemical logs, 118B15:276–278; 137/140B30:345–
 346; 154A5:217
- hornblende, 176B10:14
- igneous rocks, 135A(1)4:149–151; 163X_A4:13; 5:5;
 6:22; 176A1:17–18; 209A5:36–39; 10:26
- ilmenite, 118B1:5; 176B9:13
- Izu-Bonin-Mariana region, 125B9:154–155
- lava flows, 152A9:137–139; 163X_A6:43; 197A5:16–
 17; 6:14
- limestone, 143B13:211
- lithology, 183A4:19; 207B8:7; 210A3:33, 53–54
- mafic rocks, 125B24:405–406
- magmas, 183A7:40
- melting regime, 187B1:14–15
- melting trends, 125B12:227–228
- metamorphic rocks, 161B28:375
- micas, 176B9:11
- middle series magmas, 163B9:105–110
- middle–upper Eocene, 210B8:13
- mineral separates, 158B2:28–29; 7:94
- nannofossil clay, 184B12:5–6
- Ninetyeast Ridge, 121A10:281; 11:327, 329
- ooze, 170A3:78
- orthopyroxenes, 118B3:53, 67; 176B4:10
- parental magma, 118B4:91
- pelagic-hemipelagic sediments, 126B32:500–501
- percent change from protolith, 137/140B17:203
- peridotites, 153B13:278–280; 209A3:34–35; 6:29;
 7:22; 9:18–20
- phlogopite, 176B9:11
- plagioclase, 121A11:329
- profiles across microbially processed glass,
 148B13:200
- pumice layers, 126B33:516
- quartz gabbros, 180A11:6
- rhyodacites, 193A3:71

- sediments, 139A7:327; 151A7:184; 10:333–334;
11:367–368; 162B14:201; 167B25:285–288;
170A6:206; 172B5:4–5, 22; 180B6:6–11, 14–24;
184B19:6; 205A4:23; 5:17
- sediments and volcanic ash, 170A4:140–141; 5:177–
178
- serpentinites, 149B30:520, 523; 195A3:20
- serpentinized peridotite, 173A7:196; 9:284; 195B4:7
- sills, 139B6:95; 210A3:68
- Site 757, 121A11:331
- Site 765, 123A4:180; 123B40:796
- Site 766, 123A15:322–325
- Site 786, 125A14:327
- stratigraphic correlation, 163X_A8:12–13, 34
- sulfides and sediments, 158B3:43
- tektites, 150B13:248–250, 253–258
- tephra layers, 126B3:59; 186B9:16–17; 205A4:25
- tholeiitic basalts, 129B19:379; 192A5:14–15
- titanium hydrogarnet, 206B9:2–6
- Turonian–uppermost Santonian, 210B8:9
- upper Paleocene–middle Eocene, 210B8:12
- veins, 176B9:15; 11:15
- volcanic ash layers, 131B14:178–182; 201B19:11
- volcanic glass, 141B27:338, 342; 203B2:3–8
- volcanic rocks, 161B27:364–369; 163B7:67–74
- volcaniclastics, 134B9:151, 164
- volcanism, 163X_A8:16
- vs. across-channel distance, 153B12:272–273
- vs. age, 184B12:20, 22; 19:19
- vs. alteration, 137/140B6:70; 148A2:62; 148B4:49
- vs. aluminum, 144B30:518, 528
- vs. aluminum, calcium, and iron oxides, 203B2:18–
19, 23
- vs. aluminum oxide, 137/140B3:37; 142A4:69;
149B30:523; 153B13:283; 157B12:165; 15:236–
239; 158B19:263; 161B28:377; 162B14:204;
172B5:14; 176B4:34–35; 180B6:14, 18, 33, 36;
184B12:18; 195B4:23, 27; 207B8:20; 209A5:152;
6:105; 7:96; 9:88; 10:118; 210B8:28, 33, 37, 39
- vs. anorthite/(anorthite + albite) ratio, 176A3:49, 167
- vs. boron, 195B4:31
- vs. calcium carbonate, 123A4:156
- vs. calcium number, 147B1:15; 176A3:21, 121
- vs. calcium oxide, 142A4:69; 154B35:503–504;
157B12:150; 15:240–245; 176B4:35; 195B4:24
- vs. calcium oxide/sodium oxide ratio, 140A2:87
- vs. carbon isotopes, 154B35:505
- vs. carbonates, 123A4:152
- vs. cerium/ytterbium ratio, 139B6:88
- vs. cerium oxide, 157B18:320
- vs. chromium, 192A1:48; 4:17, 86; 5:72; 6:74; 7:35
- vs. chromium/(chromium + aluminum) ratio,
147B6:124; 7:152; 27:455
- vs. chromium number, 153B11:260; 159B15:137;
209B4:15
- vs. chromium oxide, 147B7:151; 27:455
- vs. clay minerals, 150B20:367
- vs. clinopyroxene number, 176B8:25
- vs. copper, 137/140B7:92
- vs. depth, 134B18:368; 135B4:66–70; 7:114, 116; 137/
140B6:68; 7:91; 139A6:223, 225; 7:355; 8:515–
518; 139B11:228–250; 140A2:88, 93;
143B15:251; 144B39:660; 148A2:60, 62; 3:157;
148B2:15, 18; 4:48; 10:136; 34:422; 35:440;
39:484; 149A7:235; 149B10:291; 23:422–423;
27:482; 30:523; 151B19:358; 152B2:24;
153A4:151; 156B1:24; 167B25:285; 169A3:97;
170A3:83; 4:140; 5:181; 6:210; 173A6:140;
176A3:52, 177; 176B(synthesis):51, 60; 6:36;
8:12–13, 27–30; 179A4:123; 179B(synthe-
sis):81; 2:45; 180A6:131; 183A4:59; 6:133;
7:134; 8:65; 9:92; 192A5:74; 193A3:223; 4:191,
193; 200A1:50; 4:110; 200B1:26–27; 2:13;
205A4:82, 114; 5:58; 206A1:81; 3:64–65, 152,
194; 206B5:6; 209B4:5, 19–20; 210B8:41
- vs. detrital minerals, 150B20:367
- vs. ferrosilite, 118B1:17
- vs. forsterite, 147B1:8; 6:125
- vs. gabbro magnetic susceptibility, 176B11:20–21, 26–
29
- vs. iron/(chromium + aluminum + iron) ratio,
147B7:152; 2:457
- vs. iron number, 159B15:137; 209B4:16
- vs. iron oxide, 123A4:195; 142A4:69; 148B13:197–
199; 157B15:259–260; 18:320; 176B12:9;
209A5:155; 10:120
- vs. iron oxide/(iron oxide + magnesium oxide) ratio,
136B11:143
- vs. iron oxide/magnesium oxide ratio, 135B38:643;
141B4:53; 191A4:32, 106
- vs. lanthanum/cerium ratio, 139B6:88
- vs. lanthanum/samarium ratio, 139B6:88
- vs. liquidus temperature, 176B8:21
- vs. loss on ignition, 136B11:141; 148B10:139;
169A3:98
- vs. magnesium, 118B26:473
- vs. magnesium and calcium oxides, 152B8:103
- vs. magnesium/(magnesium + iron) ratio,
144B28:481, 484; 30:510, 517, 528; 147B7:151
- vs. magnesium number, 118B3:51, 56, 65; 4:99; 137/
140B7:88; 11:126; 139A5:148; 139B6:87, 96;
140A2:86–87; 142A4:71; 143B16:269; 147B1:10,
15; 2:54; 148A2:59; 3:159; 153A4:147; 5:194,
195; 6:239; 153B11:254, 260; 13:279; 17:340;
29:515; 157B22:380–381, 384; 163B7:69;
163X_A8:29; 168A4:71; 5:125, 139; 169A5:217;
173A6:140; 7:198; 173B10:11; 176B4:34; 8:25;
10:39, 41; 11:64; 179B(synthesis):85, 94;
183A6:134; 8:64; 192A1:46; 3:110; 4:16, 85;
5:73; 6:75; 7:37; 206B5:25
- vs. magnesium oxide, 135B24:406; 25:442–444;
26:479; 29:523; 136B4:60; 9:111; 137/140B4:45;
142B6:45; 144B29:503; 145B22:337, 339;
148B3:23, 30–31, 34–35; 4:53; 151B18:344;
152B8:100; 27:316–318; 153A3:79; 153B19:366;
157B16:282–283; 162B16:228; 163B9:102, 106;
163X_A8:30, 36; 165B15:235; 173A7:199; 9:286;
183A4:57; 5:118; 6:137; 7:40, 133, 137; 9:94;
183B1:42; 187A3:24; 4:17; 5:17; 6:36; 7:33;
8:51; 9:21; 10:24; 11:35; 12:41; 13:41; 14:28;
15:42; 197A1:73; 3:97; 4:17, 68; 5:68; 6:70;

- 200A4:109; 200B2:10; 3:26; 206A1:88; 3:199;
209A6:108; 7:97; 210B8:29
- vs. magnesium oxide/(magnesium oxide + iron oxide)
ratio, 141B28:359
- vs. magnetic susceptibility, 121A13:475, 482;
176B11:65
- vs. major oxides, 123A4:194, 203; 5:326; 148B10:138;
176A3:21
- vs. modal percentages of oxides, 147B2:48
- vs. neodymium, 191B4:18
- vs. nickel, 152A9:137; 176B12:10
- vs. niobium, 143B15:252
- vs. oxide percentage, 148B30:394; 176A3:119
- vs. phosphorus oxide, 153A5:195
- vs. potassium oxide, 136A5:87; 136B11:145;
148B3:30; 151B17:318, 323; 152B5:57, 61;
8:103; 162B16:228; 186B9:23–24; 210B8:36
- vs. scandium, 176B12:12; 209A10:123
- vs. silica, 134B18:370; 19:384; 135B3:38; 4:59, 64;
6:97; 141B4:55; 148B13:197–199; 151A5:81;
151B19:357; 152B2:23; 27:319; 157A7:362;
157B13:192; 18:325; 183A7:40, 137; 201B19:27,
29; 207B8:20; 209A5:156; 210A3:251; 210B8:38
- vs. silica/magnesium oxide ratio, 195B4:20, 29
- vs. sodium number, 176B3:10
- vs. sodium oxide, 125B38:641, 644; 142A4:69;
148B3:30
- vs. strontium, 135B38:643; 195B4:23
- vs. strontium/neodymium ratio, 135B24:422
- vs. subbasement depth, 148A3:159
- vs. sum of oxides, 200B3:23
- vs. tetrahedral aluminum in clinopyroxene,
143B16:269; 179B(synthesis):88
- vs. total organic carbon, 154B30:503–504
- vs. vanadium, 135B38:643; 176A3:50, 171–172;
176B12:11; 195B4:24; 205A4:115; 5:157;
205B9:25; 209A10:121
- vs. water content, 137/140B6:72; 140A2:89;
148A2:62; 3:160
- vs. zirconium, 121A12:401; 129B18:357; 131B16:207;
134A10:279; 11:346; 137/140B6:69; 139B6:88;
143B15:252; 147B2:47; 153A6:240; 157B12:168,
171; 173A7:198; 176B3:7; 192A1:47; 3:109;
4:84; 5:71; 6:73; 7:36; 193B2:22; 206A1:87;
3:65, 202; 209A5:157; 210A3:251
- vs. zirconium/barium ratio, 135B24:422
- websterite, 153B16:323
- well-logging, 126B43:657; 176A1:63
- xenocrysts, 118A3:49
- xenoliths, 193B6:2
- See also* aluminum oxide/titanium oxide ratio;
anatase; iron-titanium oxides; iron oxide/tita-
nium oxide ratio; iron oxide-titanium oxide-
iron oxide ternary diagram; manganese oxide/
titanium oxide ratio; nickel/titanium oxide ra-
tio; phosphorus oxide/titanium oxide ratio; va-
nadium/titanium oxide ratio; zirconium/
titanium oxide ratio
- titanium oxide, bulk rock
- vs. titanium for orthopyroxenes and clinopyroxenes,
147B1:7
- vs. whole-rock iron oxide, 179B(synthesis):70
- vs. whole-rock magnesium number, 179B(synthe-
sis):70–71
- vs. whole-rock magnesium oxide, 179B(synthesis):70
- titanium oxide/FMM ratio, vs. aluminum oxide/FMM ra-
tio, 153B10:216
- titanium oxide-iron oxide series
- vs. copper, 148B10:140
- vs. sulfur, 148B10:140
- titanium oxide-iron oxide/magnesium oxide correlation
fractional crystallization model, 123B10:210
- partial melting trend, 123B10:209–210
- Site 765, 123B10:207, 209
- titanium oxide logs, 146A(1)6:287; 150A10:342–343;
160A8:285–287
- titanium oxide/magnesium oxide ratio, Site 765,
123A5:326; 123B2:69
- titanium oxide-potassium oxide-phosphorus oxide sys-
tem, 180A6:133
- titanium oxide/potassium oxide ratio
- volcanic glass, 203B2:3–8
- vs. magnesium oxide, 157B22:385; 203B2:13, 22
- vs. silica, 157B22:385; 162B16:230
- titanium pargasite, magmatic rocks, 118B8:160
- titanium/phosphorus ratio
- basalts, 121B30:569
- sediments, 189B12:2–3
- vs. depth, 177B1:5; 189B12:6
- vs. potassium/titanium ratio, 137/140B5:55
- titanium oxide/silica ratio
- pumice beds, 126B1:12
- tephras, 126B2:40; 3:62, 73
- volcanic ash sequences, 125B15:286–287
- titanium oxide/sodium oxide ratio
- basalts, 187A3:11; 12:11; 13:14
- isotopic boundary, 187B1:5
- mantle domains, 187A3:11; 4:7; 5:7; 6:11; 7:12; 8:12;
10:6; 11:13; 15:12
- mid-ocean-ridge basalt, 187A1:4–5, 12–13
- Site 786, 125B9:151
- vs. magnesium oxide, 187A1:4–5, 43–44; 3:26; 4:19;
5:19; 6:38; 7:35; 8:53; 9:23; 10:26; 11:37; 12:43;
13:43; 14:30; 15:44
- titanium/strontium ratio, vs. magnesium oxide,
197A5:71
- titanium/(titanium + iron + manganese) ratio,
129B4:128, 130
- titanium/ytterbium ratio, clinopyroxenes, 125B28:498
- titanium-zirconium-yttrium plots
- basalts, 134A8:158; 139A6:263; 8:528; 210B9:58, 61
- ocean-floor tholeiites, 139A5:148
- phase diagrams, 180A6:134
- Site 857, 139A7:375
- titanohematite
- anhysteretic remanent magnetization, 140A2:106
- magnetic properties, 144B36:621
- photograph, 144B36:630
- titanomaghemite
- alteration, 148B12:178–183; 185A3:25–26
- backscattered electron images, 148B38:479–480
- basalts, 148A3:160; 148B38:473–477; 187B7:7–9

- chemical composition, 120B(1):6:79, 82; 141B4:55
Curie temperature, 183B12:6-7
demagnetization, 183A5:148
lava flows, 197A3:20
magnetic properties, 107B7:103; 148B15:221-223;
197B1:6
major and trace elements, 148B38:478-479
reddish brown zone, 168B10:130
See also maghemite/titanomaghemite lamellae
- titanomagnetite
age estimates, 106/109B25:285-286, 289
alteration, 111A3:61; 121B28:539; 148A2:48;
185A3:25-26; 197A5:15; 200A3:25; 200B3:12
basalts, 142A4:57-60; 148A3:160; 148B38:473-477;
163B2:26; 183A4:17-19; 5:31-32; 187B7:6-7;
192A4:14; 6:22; 7:8; 197A5:10
basement, 126B28:436, 439-442; 183A7:37-39; 8:18,
24; 196A3:31; 197A4:27-28
Bengal Fan, 116B26:331-335
chemical composition, 148B11:153-154; 193B3:30
color, 106/109B25:284, 286
composition, 179B(synthesis):26
Cornaglia Terrace, 107B8:127
Cretaceous, 210B15:9
crystallization, 118B4:101-104; 129B17:327;
134B18:371
Curie temperature, 183B12:6-7
diabases, 126B27:417; 129B18:346
dissolution and pyritization, 107B8:118; 115B41:748
electron microprobe data, 106/109B27:300
exsolution, 137/140B23:267
fractionation, 121B30:576-577; 183A7:41-42
gabbros, 153A4:133-134
gneisses, 161B19:267
granules, 129B19:362
ground mass, 106/109B25:288
hydrothermal alteration, 111B14:162-164, 167
igneous rocks, 198B20:4
intergrowths, 139B6:84-85
lava flows, 152B33:411-412; 197A3:20-21; 4:16;
6:12-13
lithology, 183A1:28
magnesium oxide vs. aluminum oxide, 118B4:99
magnetic anomalies, 120B(1):6:79, 81; 15:238; 137/
140B22:257-259
magnetic properties, 106/109A4:75; 106/109B25:285;
27:299-300; 139B46:728-731; 142A4:63;
144B36:618-621, 626; 148B15:221-223;
183A4:24-26; 187B1:9-10
major elements, 179B2:69-73
median destructive field, 183A5:47-48
mineral chemistry, 161B19:271; 200B3:7-8
mineralization, 193B3:4
Ninetyeast Ridge, 121B32:658
organic carbon, 117B7:167
oxidation, 106/109B25:283-289; 121B28:534-535
oxygen fugacity, 179B2:43
petrography, 129B17:307; 19:363; 200A4:32
petrology, 126B23:347; 144B29:498; 158A10:200
petromagnetics, 141B4:51-57
phase equilibria, 179B2:41
photograph, 144B36:629-630; 147A3:69; 153A5:199;
170A3:60
photomicrograph, 161B27:362; 179B2:33; 183A4:47,
54; 5:105, 116; 8:62; 9:85; 192A3:94; 4:59, 65-
69, 80; 5:66-69; 6:70; 193A3:189; 197A1:21, 89;
3:86-92; 4:55-57; 5:56-66; 6:50, 53-56, 59-62,
65-66; 200A4:96
reddish brown zone, 168B10:130
remanent magnetization, 194A4:77-78; 208B4:16
rock magnetism, 139B32:532; 183B1:24-25;
192A4:20-21; 206A3:33-34; 208B4:4-6
sandstone, 119B3:51, 56
scanning electron backscattered images, 187B7:20
schists, 161B19:265; 20:283
secondary minerals, 140A2:69; 148B12:173, 180-183,
188-189
sediments, 159A5:94; 167B28:314-315; 194A4:19;
8:15
Serocki Volcano, 106/109A4:57-58
shape, 106/109B25:284, 286
Site 698, 114B22:393
Site 703, 114B22:393, 397-401
Site 797, 127/128B(2):60:949, 951
size vs. magnetic susceptibility, 106/109B19:234
trellis pattern, 121B28:535
volcanic ash, 115A9:671
volcanic clasts, 134B19:381-382
vs. depth, 209A5:119
vs. oxides, 121A11:333
See also ilmenite; iron-titanium oxides; magnetite
- titanomagnetite, acicular, basalts, 197A3:20
titanomagnetite, altered, photomicrograph, 183A7:120
titanomagnetite, dendritic
basalts, 197A3:20
basement, 183A6:47
titanomagnetite, euhedral, photomicrograph,
200A4:105
titanomagnetite, skeletal
basalt, 192A6:16-17
photomicrograph, 183A6:128-129; 197A6:53-54;
200A4:104
titanomagnetite pseudomorphs. *See* pseudomorphs, tita-
nomagnetite
- titanophile elements
ferrogabbros, 176B12:13
See also vanadium; yttrium; zirconium
- Tithonian
basement, 173A1:10, 14
biostratigraphy, 149B2:28-29; 47:722; 198A9:19
clay, 173A8:256-258
lithology, 149A8:265-267; 173A4:74-75; 8:238-241
ocean-continent transition, 149B47:722
paleoecology, 173B7:6-8
quartz-feldspar-lithic fragments system, 210B2:31
rifting phases, 149B1:11; 210B1:6-7
synrift sedimentation, 210B1:25
unconformities, 173B7:14
- Tithonian, upper
age vs. depth, 198A9:75
biostratigraphy, 129B8:183; 10:205; 11:221
stratigraphy, 129B3:92

- Tithonian–Miocene interval, 173A4:100–102
 Tithonian–Valanginian, lithology, 129A3:101–103;
 129B23:437
 TLT. *See* Lamont-Doherty Geological Observatory temperature tool
 TOBI. *See* towed ocean-bottom instrument
 tochilinite
 backscattered electron photomicrograph, 173B2:7
 breccia clasts and matrix, 173A7:195; 173B2:1–9
 chemical composition, 173B2:8–9
 intergrowths with andradite, 173B2:2
 phase equilibria, 173B2:8
 veins, 173A7:203
 todorokite
 crusts, 135B52:841; 144B44:751
 hardgrounds, 144B22:421–422
 Izu-Bonin forearc, 126B7:115
 manganese nodules, 138B40:807
 photograph, 144B44:767
 Site 788, 126A6:117–120
 toluene
 chromatograms, 180B16:15
 Ninetyeast Ridge, 121B23:462–465
 olefin content correlation, 121B23:461–462
 sediments, 169A6:282
 tomographic inversion
 seismic units, 178B16:4, 12; 17:14
 traveltime, 178B17:18
 tomography
 mass transport deposits, 155B28:465–475
 textures, 158B16:201–210
 tomography, X-ray computed
 permeability, 193B14:1–14
 sediments, 156B11:151–159
 tonalite gneiss
 emplacement, 173A6:137
 foliation, 173A6:139–141
 geochemistry, 173A6:133–135, 139–141, 198
 heat flow, 173B3:2
 lithology, 173A6:124, 126–129
 mineralogy, 173A6:136
 petrography, 173A6:131
 photograph, 173A6:128–129
 photomicrograph, 173A6:136
 tonalites
 breccia, 173A6:131–132
 cobbles, 135A(1)11:644
 continental crust, 210B1:5
 dikelets, 147B2:36
 intrusions, 180B(synthesis):6
 petrology, 176A1:13–14
 photomicrograph, 173A6:144
 Variscan basement, 149B1:8
 veins, 176B8:9–10
 See also metatonalite; trondhjemites
 Tongaporutuan
 biostratigraphy, 181A4:11; 7:20; 8:17, 19; 9:13–14
 lithology, 181A1:33
 tonnage
 ores, 158B28:397–398, 410
 See also grade
 tools
 operations, 132A5:125
 See also advanced piston corer (APC); Barnes-Uyeda tool; bottom-hole assembly; circulation obviation retrofit kit (CORK); compensated neutron tool (CNTG); Davis-Villinger temperature-pressure probe; diamond coring system; dipole shear sonic tool; Dipole Sonic Imager; down-hole tools; dual induction tool; fluid samplers; Fugro percussion corer; general purpose inclinometry tool; hammer-drilling system; inclinometers; Lamont-Doherty Geological Observatory temperature tool; Lamont-Doherty Geological Observatory tools; landing-pad assembly; lateral stress tool; Lawrence Berkeley Laboratory (LBL) high-temperature borehole fluid sampler; linear voltage-displacement transducer (LVDT); litho-density logs; lithoporosity logs; long-spacing sonic (LSS) tool; Los Alamos National Laboratory (LANL)/Leutert borehole samplers; magnetometers; miniaturized temperature loggers; mini-hard rock guide base; miniriser/tensioner system; Navidrill coring system; OsmoFlowmeter; OsmoSamplers; quad-combo tool; quad-tool-string logs; rotary coring system (RCB); sonic core monitor (SCM); sonic induction tool; towed ocean-bottom instrument
 topography
 acoustic basement, 194A1:63
 continental margin, 155A1:5–8
 fans, 155B28:473
 heat flow, 127A6:300–301
 Papuan Peninsula, 180A1:33
 sediments, 178B(synthesis):3–5
 seismic profiles, 168B2:14–15
 thermal models, 166B10:119–120
 topsets
 reflection, 188B14:5
 seismic facies, 188B14:8–10
 seismic sections, 188B14:25–26
 Tortonian
 biohorizons, 167B1:23, 26–29
 biostratigraphy, 151B14:257, 263, 273; 189B5:41
 correlation, 161B44:560
 magnetostratigraphy, 188B13:24
 plate tectonics, 160A1:7
 reefs, 161B43:546
 salinity, 160B37:477
 sediments, 161B5:70–73; 44:562; 166A6:115
 seismic profiles, 161B25:338
 seismic units, 161A6:248
 stratigraphy, 161B43:545; 44:558
 thin-skin tectonics, 149B1:13–14
 turbidites, 166B5:48
 upwelling, 175B(synthesis):45
 volcanic rocks, 161A1:11
 See also Serravallian/Tortonian boundary
 Tortonian–Messinian, rate peak, 130B44:733–738
 Tortonian/Messinian boundary
 compression, 161B5:75; 43:543

- lithology, 107A10:763, 785
sediments, 175B(synthesis):92
- tortuosity
basalts, 102B6:70
physical properties, 204B8:4-5
porosity, 148B23:320
vs. depth, 156A6:159
- Torvane soil-test data, shear strength, 144A3:88
- total magnetic field logs
lithology, 178A9:21-22
vs. depth, 178A9:70; 178B31:13-16
- total organic carbon. *See* carbon, total organic
- total spectral gamma ray logs, vs. depth, 209A10:148
- tourmaline
basement/sediment contact, 161A6:215
gneisses, 161B20:284
heavy minerals, 150X_B7:75-79; 174A_B(synthesis):10; 6:6, 9-11
lithology, 169A6:267; 171B_A4:114; 6:257-258; 182A4:10; 210A3:37
metasediments, 173A8:246-249
modal composition, 155B7:151
photograph, 161A6:233
quartz inclusions, 127/128B(1)7:108
schists, 161B19:265
- towed ocean-bottom instrument, 149B43:665-674
- Toxons
Site 748, 120B(2)43:837
Site 795, 127/128B(1)30:542
- TPW. *See* polar wandering, true
- trace element analyses, 183B17:2, 9
- trace elements
alteration, 125B12:222-224; 28:490-491; 139B6:98-99; 148B10:127-134; 158B2:27-39; 4:49-63; 163A5:64; 187B1:7-8, 28; 5:8-11; 197A4:22-23; 209A3:36-37
aluminum-normalized concentrations, 127/128B(1)39:689
amphiboles, 147B3:64, 70
amphibolites, 173A6:139-141; 173B10:19-20
anaerobic deposition, 126B14:215, 217, 228
analytical methods, 125B12:212-213; 28:488-489
andesites, 125B12:213, 217-222
anhydrite, 158B10:121-124; 12:143-159
authigenic carbonates, 164B29:293
backarc basins, 135B25:447-453
basalt clasts, 149B29:500-515; 157B12:155-156, 160; 158B19:260
basalt spidergrams, 163A4:41
basaltic andesites, 135A(1)7:323, 325; 11:645-649
basalts, 119B16:317; 121B30:572, 581; 31:594-595, 608; 124B22:315, 318; 127/128B(2)51:839; 130A9:445; 130B1:7-10, 14-20; 30:524-526; 131A6:156-157; 131B16:200, 205-206; 134A9:199-200; 135A(1)5:223-224, 230; 135B26:471-485; 27:488; 28:512-513; 29:519-531; 35:598; 38:630-632; 55:889-894; 136B9:109-111; 10:125-126; 137A2:27-28; 137/140B5:53-61; 139A5:136-140; 141B27:345; 142A4:60-63; 142B2:10-11; 12:87-89; 144B29:503-509; 145A5:136, 138; 6:227; 7:308; 145B22:335; 147B9:183; 148B2:15-16; 30:390, 393; 151B19:354-356, 359; 152B31:376-380; 40:497; 158B17:215-216, 219-225; 163B8:77-93; 165A6:331; 8:393; 183A1:75-77, 81; 4:19-20, 58; 5:34-36, 119-120, 124, 183-185; 6:136; 7:135; 8:67; 9:97; 183B1:9, 43-44; 187A3:9-11, 31; 4:6-7, 22; 5:6-7, 22; 6:9-12, 41-42; 7:10-12, 38-39; 8:11-12, 56; 9:8-10, 26; 10:5-6, 29; 11:12-13, 41-42; 12:10-11, 47; 13:7-8, 14, 46; 14:7-8, 33; 15:11-12, 48; 187B1:36; 191B3:11; 192A6:17; 7:8, 58; 192B1:5-7; 197A1:11; 4:18-19, 114-115; 200B2:18-19; 203A3:13-14, 79; 206A1:30-31; 3:375-382; 210B9:59, 62
- basement, 124B20:278, 280, 283, 292-296; 126A9:370-371; 126B26:398; 127/128B(2)47:781-783; 49:807; 56:893; 58:912-916; 128A3:98; 161B28:375-379; 165A8:392-393; 173A6:133-135; 183A5:47-48; 7:39, 135-136; 8:110; 9:130; 197A3:158-160; 6:106-107; 200B2:3-4; 206B6:1-10, 8:5-16
- biogenic reworking, 126B14:213, 223, 229
- black shale, 210B10:5, 15-16
- boninites, 125B38:632-633
- breccia, 149A6:165; 173A6:139; 7:195-196
- bulk samples, 193A3:288-289; 4:243-244; 5:14; 6:38
- calcite, 144B59:1001-1003; 149B33:553-554
- carbonate/basalt interface, 115B9:96-97
- carbonates, 160B35:448; 166B13:141-142; 168B11:138-141
- chert color, 198B17:32
- chilled margins, 137/140B3:38-42
- chlorites, 169B6:19
- clasts, 170A6:209
- clays, 125B7:124; 158B20:280-284; 169B6:6, 24; 184B12:10
- climate optimum, 178B34:6
- clinopyroxenes, 125B28:492-493; 137/140B11:121-130; 147B6:125-127
- composition, 149B27:480
- cool-water carbonates, 182B16:1-24
- correlation analysis, 187B5:27-29; 199B15:10; 16:12
- Cretaceous/Tertiary boundary, 121B25:492, 499-500; 43:913-919; 130B45:746-748
- cumulate gabbros, 149B27:474, 480, 483, 488
- decoupling, 147B1:10-11
- deposition, 126B14:212-220, 223-229
- detection limits, 127/128B(2)86:1372
- Detroit Seamount comparison, 197A3:97
- diabases, 137/140B9:114; 148A2:57-60; 148B4:39-53; 153A4:148; 153B10:221-226; 19:364-365; 180A1:64-66; 6:249; 8:127; 12:181; 180B1:16-17
- diopside, 147B6:118-119; 153B13:277-284
- dropstones, 145B12:196, 200-201
- electron microprobe maps, 149B27:486-487
- electron microscopy, 126B14:221; 160B27:344, 346
- element correlations, 158B4:65
- enrichment patterns, 125B28:491-493; 38:641-642; 157B32:559-571
- extensional tectonics, 161B44:575-576
- felsic rocks, 183A5:36-37, 186; 7:136

- ferromanganese crusts, 144B44:751–753
 fine-grained sediments, 210B8:60–63
 foraminiferal tests, 144B57:993–995
 forearc terranes, 125A2:11–12
 fractionation, 183A7:41–42
 fracture calcite, 149B33:555
 fresh and altered dacite, 193B12:3–4
 frozen tiers, 126B14:213, 216
 gabbros, 118A4:72; 153A4:142–143, 149–151; 5:192;
 6:233; 153B10:215–222; 17:339–349; 18:352–
 355; 28:493; 170A4:139; 176B3:1–13; 6:18–19,
 81; 8:3–5, 54–59; 12:1–18; 179A4:45–47, 179–
 182; 179B(synthesis):15–17, 111–113;
 180A1:22–23; 11:6; 205A4:33–35; 209A3:35–36
 garnet gneiss, 183A5:120
 geochemistry, 124B35:474; 125B17:318; 126B14:222,
 226
 glass, 157B18:320; 22:383–386; 27:453–455
 glassy clasts, 192B1:7
 high- vs. low-silica group, 125A10:207
 hotspots, 197A1:19–20
 hydrothermal sediments, 135B5:77–82; 199B15:3
 igneous rocks, 121A12:393; 124A14:403–405;
 131A6:197; 134B16:340–341; 17:355;
 135A(1):1:35–36; 4:150–152; 6:272–274; 8:370–
 372; 9:444–448; 139A7:519; 139B6:80–81, 86;
 140A2:78–82, 121; 152A11:230; 176A1:17–18;
 183A6:188–189; 183B15:37–39; 192A6:108;
 205B1:14; 9:9–10, 35–38; 209A3:159–160; 5:34–
 39, 177–178; 6:122; 7:124; 9:106; 10:158–159
 inductively coupled plasma data, 199B16:9–11
 interelement comparisons, 127/128B(1)39:690
 ion microprobe concentrations, 147B2:29–30
 iron-titanium oxide gabbros, 118A6:146–147
 isotope ratios, 125B13:256–257
 isotopic end-members, 125B38:642
 Izu-Bonin-Mariana forearc, 125B12:232–233
 jasperoids, 193B9:5–7
 Jurassic basement, 185A1:18–19
 killing events, 126B14:220, 226
 lamprophyres, 180A7:78
 lava, 134A10:277–278; 135B24:390–393; 142B2:18–
 19; 144B30:523–525; 163X_A8:32; 197A5:16–
 18, 101–103; 6:13–15
 lithology, 183A4:88; 207B8:33–36
 lower sheeted dike complex, 148B37:455–466
 mafic rocks, 125A6:104–105; 7:124–125; 149A7:235;
 149B26:455–468
 magma mixing, 118B1:6
 magnetic minerals, 148B38:475, 478–479
 mantle source, 125B12:229–232; 36:595, 597
 Mascarene Plateau, 115B2:18–19
 mass transfer, 193B1:64
 massive sulfides, 139B17:372
 melt inclusions, 137/140B12:135
 melting process, 121B30:579; 187B1:14–15
 metabasite, 195B4:44–47
 metagabbro, 149B47:721
 metamorphic rocks, 126B12:192; 173A7:197
 metamorphosed mafic rocks, 149A7:236
 metasedimentary rocks, 152B10:133–137
 mineral separates, 209A6:123
 mobility during alteration, 127/128B(2)58:911–916
 morphoscopy, 126B14:221
 mud, 155A12:350; 13:399
 multistage enrichment models, 125B28:501–502
 neutron absorption cross section, 149B37:596–597
 normal mid-ocean-ridge basalts, 125A4:185;
 128B(2)58:923–926; 131A6:198
 occurrence, 127/128B(1)39:677–695; 42:719–737
 ocean island basalt-like source, 125B12:232–232
 oceanic crust, 137/140B29:327–337
 Oligocene transition, 126B31:483
 olivine diabase intrusion, 126A9:369
 olivine gabbros, 118A6:146
 onshore magmatism, 124B23:326–327
 Paleocene/Eocene boundary, 199B16:3
 partial melts, 137/140B4:50
 peridotites, 125B18:336–339; 28:501; 38:634–635;
 149B23:418, 420, 423–424; 153A3:67–68;
 153B10:181–241; 14:289–291; 209A3:34; 6:29;
 7:22; 9:18–19; 209B1:16–18
 petrography, 139B6:82–84
 pillow basalts, 183A8:18
 pore water, 125B42:683–687; 133A(1)8:265;
 152B26:307–311; 166B9:99–111; 168B9:105–
 115; 169B1:1–16; 180B17:1–20
 prerift arc volcanics, 126B26:388
 primary and secondary variations, 137/140B6:65–80
 pumice glasses, 157B18:328
 reference samples, 137/140B32:353, 355;
 147B30:494–495
 residual harzburgites, 209B1:31
 rhyolites, 141B27:346; 183A5:36–37
 saponite, 168B12:154, 157
 sapropels, 160B16:199–206
 secondary clays, 168B12:149–157
 sediment molar ratios, 127/128B(1)34:616–619
 sedimentary rocks, 139A7:514
 sediments, 123B8:170–173; 131B35:427–450;
 135B8:141–146; 139A6:209–213; 7:351–352;
 152B2:19–28; 155A7:150; 8:193; 9:220; 10:262;
 11:297; 12:355; 13:403; 14:427; 15:457; 16:482;
 17:529; 18:559; 161B2:24, 28; 162B14:200–201;
 164B15:151–163; 23:231–236; 165A3:78; 4:171–
 172; 5:263; 6:322; 166B17:184–191;
 167B23:265; 170A3:78; 6:20; 171B_B4:4–5;
 177B1:8–14; 178A4:23–24, 164; 5:21, 135; 6:15;
 178B4:1–12; 180B6:5, 10, 13–24, 44–53;
 185A4:176–177; 189B12:2–3; 192B4:1–6;
 202B10:1–9; 205A4:23–24; 5:94; 6:10;
 205B3:14–15; 206A3:42–43; 210A3:98, 323–328
 sediments and volcanic ash and gabbros, 170A3:76–
 79; 4:137–141
 serpentine mud, 195B4:17, 37–43
 serpentinites, 149B30:519–527; 195A3:20–21;
 195B1:12–13
 serpentinized peridotite and pyroxenite, 149A4:81–
 82; 173A7:196; 9:284, 286
 silicate minerals, 118B1:5–6, 12
 siliceous rocks, 135B40:656; 198B17:7
 siliciclastics and volcanic ash, 170A5:181

- sills, 139B6:96–97; 210A3:68–69, 330
 Site 752, 121B20:426–428
 Site 780, 125A8:155–156
 Site 782, 125B7:120–121
 Site 786, 125A14:327–328; 125B9:152–155; 12:218–219
 Site 788, 126B14:217–218
 Site 790, 126B14:213
 Site 791, 126B14:215, 217
 Site 792, 126A8:266–267; 126B14:219–227; 27:419, 426
 Site 793, 126B27:409, 417
 Site 794, 127/128B(1)39:682–684, 689; (2)47:782–783; 51:839; 58:912–913, 918–919, 923
 Site 795, 127/128B(1)39:683–685, 689; 41:705–717; (2)58:913–914, 924
 Site 796, 127/128B(1)39:685
 Site 797, 127/128B(1)39:685, 688–691; (2)51:839; 58:914–916, 920–921, 926
 Site 798, 127/128B(1)42:722–725; (2)86:1367–1372
 Site 799, 127/128B(1)42:723–725, 728–731
 Site 803, 130A5:149
 sources, 126B27:426; 160B16:203–204
 spider diagrams, 149B27:483; 29:503–507, 509–514; 180B17:12–13
 spinels, 127/128B(2)51:840–842
 stratigraphic variation, 118A6:147, 150
 strip samples, 127/128B(2)86:1367–1372
 subduction component, 125B38:641–645
 submarine ferromanganese hardgrounds, 194B8:5–6
 sulfides, 158B1:21–22; 4:47–70; 28:396
 Sulu Sea, 124A11:265–268; 124B19:268; 29:384–385
 Sumisu Rift basalts, 126B26:387, 390–391
 tectonic evolution, 126B14:228
 tephra, 205A4:25
 terrigenous input, 202B1:8–9
 tholeiitic basalts, 192A5:14–15
 tiered infaunal community migration, 126B14:225
 titanite, 148B38:475
 tonalite gneiss, 173A6:139–141
 transects, 163A1:11, 13
 transport mechanism and enrichment, 125B13:233
 troctolites, 118A6:146
 turbidites, 157B33:577, 580
 ultramafic rocks, 125A6:104; 7:122–124; 11:258; 12:280–281
 veins, 176B9:60–61
 vertical spreiten migration, 126B14:218
 volcanic ash, 121A13:474–479; 127/128B(2)87:1378–1379; 134A11:342; 13:503; 145B23:349, 371–377; 44:668; 151B17:323; 152B6:72, 77–79; 165A3:85; 4:180–183; 5:266; 6:324
 volcanic glass, 135B3:34–39; 30:533–542; 141B27:342–345; 152B5:60–64
 volcanic pebbles, 161B44:569
 volcanic rocks, 134A8:153; 12:415; 134B19:383–387; 141A9:317; 152B28:335–343; 36:431–435; 161B27:364–369; 163A3:28–29; 4:38–42; 5:57–63; 163B7:63–75; 10:113–117; 183A5:120, 127; 183B17:2; 193A3:284–285, 290–291; 4:247–248
 volcanoclastics, 125B41:681–682; 126B31:475–481; 135B52:838; 157A7:354–355; 8:417; 9:458; 157B12:148, 151–155; 13:191–192; 15:252–253; 210B9:68–69
 volcanism, 197B1:14–17
 vs. age, 165A3:84; 184B12:20–21
 vs. depth, 160B34:445; 165A6:331; 176A3:53, 178; 191B3:7; 205A4:114; 206B3:15
 vs. isotopic ratios, 121B31:599, 608
 vs. loss on ignition, 127/128B(2)58:918–921
 vs. magnesium number, 205B9:26–27
 vs. magnesium oxide, 137/140B4:48; 163X_A8:32; 187A3:25; 4:18; 5:18; 6:37; 7:34; 8:52; 9:22; 10:25; 11:36; 12:42; 13:42; 14:29; 15:43; 200B2:11; 206A1:89
 vs. silica variation, 125B12:224
 vs. stable isotopes, 125B13:253–260
 vs. time, 126B31:480
 vs. zirconium, 183A9:95
 welded ignimbrite, 157A10:525
 well-logging, 130B48:776–779
 whole-rock samples, 157A7:360–361; 192A3:159; 4:120
 X-ray fluorescence data, 131B28:345, 350, 356–359; 135B58:926–927; 142B8:61–68; 145A6:228; 170A5:177–178; 180A11:42; 183A7:198–200
 xenoliths, 144B30:528–531
See also immobile element ratios; incompatible element ratios; minor elements
 trace elements, bulk rock, comparison of plutonic and basaltic rocks, 153B10:227–231
 trace elements, chondrite-normalized
 basalts, 129B5:143; 19:380; 143A6:141, 143, 152; 7:228; 15:253; 143B16:268–271
 normal mid-ocean-ridge basalts, 143A6:153; 7:229
 sediments, 143B13:200–201, 204–208
 trace elements, incompatible, basalts, 134A9:200; 203A3:53
 trace elements, magmatophile, hydrothermal fields, 193A1:7
 trace elements, molar ratios
 Site 798, 127/128B(1)34:616–617
 Site 799, 127/128B(1)34:618–621
 trace elements, normal mid-ocean ridge
 andesitic blebs, 134A11:346
 basaltic sills, 134A13:504
 basalts, 135A(1)5:231; 6:283–284; 11:656
 gabbros and basaltic dikes, 147B1:14
 tuffs, 134A13:504
 volcanic ash, 134A11:345; 13:504
 volcanic rocks, 134A10:280
 trace elements, primitive mantle-normalized, volcanic ash, 145B44:665, 669
 trace elements/aluminum ratio, black shale, 210B10:16
 trace fossils
 bioturbation, 130A7:239; 138A(2)18:1029; 143A9:311
 chalk, 133A(1)16:702
 Cretaceous/Tertiary boundary, 119B33:637, 639
 ichnofacies, 138B10:177–190
 lithofacies, 135B12:179–180

- lithology, 135A(1)10:506–509; 138A(1)9:124–127;
 10:199; 12:344; 17:974–975; 139A7:454;
 149A5:124; 6:158; 154A4:60; 160A4:59–60;
 7:161; 8:220–222; 181A3:5–8; 6:12; 7:10–11;
 182A1:22; 201A12:8; 205A4:21; 206A3:22–26
 ooze, 138A(2)13:685; 14:741; 15:815, 817;
 171B_A3:55
 packstone, 133A(1)5:149
 photograph, 130A7:235; 8:307; 132A4:86;
 138A(2)14:759–760; 15:832; 16:913; 17:978–
 979; 160A4:66–69; 167A(1)5:93; 201A12:30;
 202A8:50
 sediments, 119B33:636–639; 130A9:383;
 138A(1)11:281–285; (2)16:902
 Site 698, 114A5:94, 97, 99, 102–103, 118; 114B6:127
 Site 699, 114A6:156–162
 Site 700, 114A7:260–267; 114B6:127
 Site 701, 114A8:371, 373
 Site 702, 114A9:490, 491
 Site 703, 114A29:557
 Site 704, 114B33:634, 636
 Site 717, 116B2:15–18; 3:26, 29
 Site 718, 116B2:15–18; 3:26, 29
 Site 719, 116B2:15–18; 3:26, 29
 Site 804, 130A6:186
 Site 810, 132A4:82
 Site 854, 138A(2)19:1068
 turbidites, 139B7:107–108
 vs. depth, 138B10:179–182; 181A9:35
 water depth, 119B33:639
See also Anconichnus; bioturbation; burrows; *Chon-*
drites; *Cruziana* ichnofacies; *Cylindrichnus*; *En-*
dichnia; *Gyrolithes*; *Helicodromites?*;
Helminthoida; *Helminthopsis*; ichnofacies; ich-
 nofauna; ichnofossils; mottling; *Nereites*; *Oph-*
iomorpha; *Palaeophycus*; *Palaeophycus heberti*;
Phycosiphon; *Planolites*; *Rhizocorallium*; *rhizo-*
liths; *Scolicia*; *Skolithos*; *Taenidium*; *Teichich-*
nus; *Terebellina*; *Trichichnus*; *Zoophycos*;
Zoophycos ichnofacies
 trace ions, pore water, 139B22:434–436
 trace metals
 Bengal Fan, 116B9:118
 lithology, 207B8:9
 occurrence, 127/128B(2)85:1361–1366
 pore water, 139B49:749–755; 156B12:163–170
 sediments, 202B8:18; 10:1–9
 Site 794, 127/128B(2)85:1362–1363
 Site 795, 127/128B(2)85:1365
 Site 797, 127/128B(2)85:1366
 upwelling and expansion effect, 116B9:118–121
 trace metals/aluminum ratio, lithology, 207B8:25
 tracer experiments, borehole spike, 148A2:56–57
 tracers. *See* particulate tracers; perfluorocarbon tracer;
 seawater tracers
 trachyandesite/trachydacite field, volcanic ash,
 201B19:11
 trachyandesites
 ash fall layers, 157B14:202–205
 lithology, 183A1:25
 photomicrograph, 183A7:125
 pyroclastics, 161B12:150
 tephra fall deposits, 183B9:7–8
 volcanic ash, 151B17:319
 See also tachylites
 trachyandesites, aphyric basaltic, 183A7:17–18, 22–23
 trachyandesites, basaltic
 basement, 183A7:21–22, 37
 tephra fall deposits, 183B9:7–8
 trachyandesites, feldspar phyric, 183A7:17–18, 23–24
 trachyandesites, plagioclase-phyric basaltic, 183A7:22–
 23
 trachyandesites, sanidine-phyric
 alteration, 183A7:44–47
 basement, 183A7:37
 photograph, 183A7:141–148
 trachybasalts
 basement, 183A7:28–29, 37
 lithology, 183A1:32–33
 Owen Ridge, 117A3:35
 photomicrograph, 183A7:122
 pyroclastics, 161B12:150
 Site 713, 115A10:753
 volcanic ash, 151B17:319; 201B19:11–12
 trachybasalts, aphyric, basement, 183A7:17–21
 trachybasalts, plagioclase-phyric, 183A7:19
 trachybasalts, vesicular, photograph, 183A7:140
 trachydacites. *See* trachyandesite/trachydacite field
 trachydacitic composition, volcanic glass, 201B19:10
 trachyphonolites
 geochemistry, 157A10:521, 523
 Miocene, 157A2:20–21
 petrography, 157A7:353–355
 photomicrograph, 157A8:416; 9:457; 157B17:313
 volcaniclastics, 157A8:414–415; 9:454, 456;
 157B27:452–453
 vs. depth, 157B17:304
 See also ignimbrite; lava; tuffs
 trachyte clasts. *See* clasts, trachyte
 trachyte groundmass, altered feldspathic, 183A7:114
 trachytes
 alteration, 183A7:44–47
 ash fall layers, 157B14:202–205; 18:315–328
 basement, 183A1:35; 6:23
 chemical composition, 183A1:80; 5:127; 6:132
 eruptions, 183A1:37–38
 lithology, 183A1:25; 5:30
 Meteor Rise, 114B1:7
 Nazareth Bank, 115B4:48
 photograph, 183A6:84
 photomicrograph, 183A7:125
 pyroclastics, 161B12:151
 tephra, 151B18:341; 183B9:7–8
 thin sections, 161A9:1023
 volcanic ash, 151B17:315–320, 324–327
 volcaniclastics, 157B27:452–453
 volcanic glass shards, 201B19:10
 See also ignimbrite, comendite-trachyte; ignimbrite,
 pantellerite-trachyte; ignimbrite, trachyte;
 quartz trachyte
 trachytes, feldspar-phyric, basement, 183A7:17, 24
 trachytes, microcrystalline, ash fall layers, 157B14:205

- trachytes, porphyritic, clasts, 183A1:18–19
trachytes, sanidine-clinopyroxene phyrlic, 183A7:37
trachytes, sanidine-plagioclase-clinopyroxene phyrlic, clasts, 183A5:32
trachytes, vitric, ash fall layers, 157B14:205
trachytic alignment, photomicrograph, 193A3:165
trachytic texture. *See* textures, trachytic
trachytoidal texture. *See* textures, trachytoidal
traction currents, lithology, 198A3:14
trade winds
 direction, 138B17:384–385
 intensity, 154B18:278–283
 Intertropical Convergence Zone, 159B40:553–554, 558
 ocean circulation, 138B13:289–290; 22:512; 28:616–625; 34:695–697; 35:722–723
 paleoclimatology, 159B43:592
 planktonic foraminifers, 138B25:575–578
 pollen transport, 108B6:98, 101
trade winds, northeasterly, 130B9:472–473, 476–477
trade winds, southeasterly
 eolian deposition, 130B9:472–473, 476–477
 sedimentation rates, 130A10:533–534
trans-2-butene, sediments, 180B18:4–14
Transantarctic flora
 assemblages, 189B4:16
 Cretaceous–Cenozoic interval, 189B3:7
 paleoenvironment, 189B2:10
 palynomorphs, 188B2:7–8; 3:4–8, 13
 review, 189B1:5
transcurrent faults. *See* faults, transcurrent
transects
 basement, 210A1:6–7
 location, 163X_A1:18
 mantle, 152B41:522–528
 maps, 210A1:45–46
 onshore drilling, 150A2:16
 seafloor spreading anomalies, 152B39:463–464; 41:506
 seismic stratigraphy, 174A_A1:12–13
transfer functions
 foraminifers, 177B(synthesis):21
 spectrograms, 200B5:2–3
 See also inverse transfer functions
transform basins, transtensional
 crustal thinning, 118B21:392
 formation models, 118B21:389–391
 spreading direction shift, 118B21:389
transform edge effect, peridotites, 209A1:10–11
transform faults. *See* faults, transform
transform margins
 clastic wedges, 159B2:19
 geodynamics, 159B11:101–110
 paleofluids, 159B6:49–52
 tectonics, 159B1:3–11; 11:108–109
 thermal history, 159B4:39–41
 vertical motion, 159B11:107–108
transform tectonic zones
 hooked ridges, 118B21:373, 375
 lithology, 118B21:380
 present-day transform slip zone, 118B21:373
 tectonics, 151A1:5–9; 153A1:10–11
transform valley
 physiography, 118B21:371
 See also ridge/transform intersection
transform walls
 active vs. inactive, 118B21:376
 cirque-shaped scars, 118B21:371
 nontransform walls, 118B21:373, 376
 slope physiography, 118B21:371, 390, 392
transformation ratio
 Site 799, 127/128B(1)35:624–625
 thermal maturity, 180B16:4
 vs. temperature, 127/128B(1)35:630; 180B16:12
transforms, intracontinental, 159B11:104–105; 25:291–292
transgression–regression cycles, sedimentation, 143A8:278–280
transgressions
 biofacies, 150X_B14:177–180
 biostratigraphy, 149B4:118; 182B3:17–19; 4:9–11
 Campanian, 144A5:199; 144B45:783
 carbonate platforms, 182A2:14, 16
 clay mineralogy, 189A3:16–17
 coastal plains, 150A1:5–9
 Cornaglia Terrace, 107A9:633; 107B38:649
 Cretaceous, 143B9:120–124
 De Marchi Seamount, 107A12:965
 deposition, 144B12:245–246; 18:361–380; 188A4:16–17
 gamma ray peaks, 150B23:419–421
 guyots, 144B51:895–913
 Holocene, 133B22:307–310
 lacustrine setting, 107B38:651–652
 lithology, 144B13:268; 150X_B2:16–22; 174AX_A1:15–18, 30; 180A6:33; 180B7:19; 183A6:10; 194A4:11; 5:7
 marginal setting, 107B38:652
 Neogene, 134A3:37
 Oligocene, 150X_B15:190–205; 181A1:3
 oscillations, 133B49:745–746
 Paleocene–Eocene interval, 182A1:4
 Sardinian margin, 107A10:784–785; 107B1:12
 sedimentation, 133B15:199, 201; 155A18:548–549; 184A1:34–35
 sediments, 152B41:516–517
 seismic units, 188B8:7–10
 sequence stratigraphy, 133B25:355; 143B10:148–150; 150B12:237; 150X_B19:272–273; 174A_B(synthesis):2–5
 tectonics, 189B1:6
 tilting fault block, 107B38:651
 See also changes of level; eustasy; eustatism; glacioeustasy; regressions; sea level changes
transgressions, marine
 Pliocene, 145B21:323
 seafloor spreading, 181B1:4–5
transgressive sequences. *See* transgressions
transient flow, porosity, 146B(1)19:309–310
transient temperature logs, vs. depth, 208A4:62
transition probability analysis, 123B33:602, 604

- transition times
 - magnetic polarity, 135B46:748–749
 - vs. density, 124B6:88
- transition zones
 - Formation MicroScanner imagery, 192A6:89
 - ooze–chalk transition, 192A3:19; 4:5
 - photograph, 192A6:50; 199A12:46–49
 - photomicrograph, 192A6:51
 - rift systems, 210A1:5–6
 - sediments, 192A3:18–21
 - structural asymmetries, 210A1:56–57
 - well-logging, 196A3:21, 53
- Transitional Faunal Provinces, biostratigraphy, 120B(1)22:378; (2)53:957
- transitional lava. *See* lava, transitional
- transitional metals. *See* metals, transitional
- transitional mid-ocean-ridge basalt mantle isotopic signatures, 187B1:3–4
- transitional Pacific-type
 - glass domain distribution, 187A1:14
 - mantle domain distribution, 187A1:14–16
- translucent clusters, photomicrograph, 193A4:198–199
- transmission electron microscopy images
 - magnetic grains, 133B40:574
 - microfabric, 135B49:797–804
 - samples, 139B40:643, 646
- transmissivity
 - constant-rate injection tests, 118B19:343–345
 - fault zones, 146B(1)18:291–297
 - intervals, 118B19:345
 - open-hole section, 139B39:621
 - packer experiments, 148B27:356
 - slug tests, 118B19:341–345
 - vs. pressure, 146B(1)19:307–310
- transparent units, lower
 - Pigafetta Basin, 129B31:557–559
 - Site 80, 129B31:559
- transport
 - barnacle fragments, 178B27:3
 - clay mineral zones, 150B9:164–165
 - currents, 167B32:345
 - deposition, 192A4:9–10
 - diatoms, 172B8:4
 - eruptions, 165A8:389
 - glauconite, 150B10:177
 - gravity flows, 101B12:186
 - hydrothermal circulation, 168B1:3–5
 - hydrothermal fluids, 136B10:129–131
 - ice-rafted debris, 178B10:6–8
 - lithology, 166A11:355–356; 173A4:74
 - melts, 209A1:6–12
 - nannofossils, 188B11:6–7
 - palynomorphs, 155B23:383–384; 188B2:11–12
 - pebbles, 178B11:3–6
 - pollen, 151B16:297–305
 - provenance, 168B5:61–62
 - sedimentation, 146B(2)5:69–70; 152B1:8–14; 175A9:235, 237
 - sediments, 151A5:66–69; 11:384–385; 13:411; 154B32:476–481
 - siliciclastics, 161B7:94–95
 - Site 701, 114A8:375, 407
 - Site 704, 114B25:471
 - tephra, 152B5:51–64; 8:99, 101; 165B5:103–104
 - volcanic ash, 151B18:345, 347–349
 - volcaniclastics, 136B7:88–89
 - See also* paleotransport; sediment transport; sedimentation; subglacial transport
- transport, downslope
 - sediments, 206B2:11–12
 - Site 794, 127A4:103
 - Site 795, 127A5:199
 - tunicate spicules, 133B28:448
- transport, subglacial
 - blocks, 178A9:10
 - pebbles, 178A8:40
- transport, volcaniclastic, 157B12:165–166; 27:459–463
- transport, wind, Atlantic Ocean, 108B9:147; 10:155–156
- transport-reaction model, hydrology, 205B6:1–26
- transverse ridges
 - tectonics, 179B(synthesis):6
 - transform valleys, 179A4:7
- transverse velocity. *See* velocity, transverse
- traveltime
 - boundary depth prediction, 174A_A3:84–86
 - compressional waves, 146B(2)13:194–195
 - depths to reflectors, 157B28:479
 - gas hydrates, 164A7:223–224
 - inversion, 146B(1)9:165–166
 - laboratory data, 149B18:346–347
 - oceanic crust, 148B25:341–343
 - seismic stratigraphy, 134B31:558; 157A6:138; 174A_A3:87; 178B16:12–16; 185B8:7–8
 - Site 851, 138A(2)16:943
 - tomographic inversion, 178B17:18
 - velocity vs. depth, 189A5:114
 - vertical seismic profiles, 204B25:23
 - volcanic ash, 165A3:104
 - vs. age and depth data, 138A(1)9:182
 - vs. depth, 133A(1)6:183; 7:210; 8:254; 9:307; 11:425; 12:462; 13:516; 14:576; 15:621; 135A(1)10:547; 143A7:250; 148A2:81, 85–87; 148B25:342–343; 149A6:201; 155A7:165; 155B29:482, 490; 156A6:171–172; 7:253; 156B20:256–258; 157A4:55; 6:138; 7:383, 385; 8:398; 9:437; 10:501; 157B2:23; 164A6:136; 174A_A3:86, 93; 5:182, 187; 178B17:21, 25, 27; 179A5:24–27; 183A3:42; 203B1:14; 207A1:82
 - vs. effective pressure, 149B18:347
 - vs. frequency, 164B27:268
 - vs. offset, 141B18:249–250
 - vs. porosity, 165B10:187
 - vs. reflection coefficient, 157B28:486
 - vs. seismic reflectors, 159A5:74
 - vs. trace number, 164B28:276
 - Well Seismic Tool, 203A3:21–22
- traveltime, two-way
 - basement, 210A5:33
 - calculated from lithologic features, 171B_A6:310
 - composite chart, 173B7:13
 - contour chart, 173A4:70; 6:112; 8:221; 9:268
 - depth sections vs. time sections, 178B19:30

- depth to seismic units, 178A5:144; 8:83
 predicted sill/sediment contacts, 210A3:357;
 210B14:32
 seismic stratigraphy, 149B39:621
 shotpoints, 188A4:95
 Site 817, 133A(1)10:398
 Sites 812 and 811 comparison, 133A(1)5:145
 synthetic seismograms, 172A3:75
 velocity logs, 133B44:649–654
 vs. acoustic impedance, 154A5:207
 vs. acoustic properties, 178A7:70–71
 vs. age, 168B7:88
 vs. amplitude, 154A4:134
 vs. depth, 133A(1)10:357; 16:688; 17:777; 141A6:137;
 146A(1)5:212, 221; 6:281–282; 146B(1)21:339–
 340; 23:366; 26:392; 149A4:108; 154A8:396;
 164A6:137, 146; 7:208; 165A3:94; 4:195, 213;
 5:273; 165B12:212–213, 222; 166A6:112; 8:203;
 9:266; 10:325; 11:371; 178A8:62; 9:74;
 178B19:34; 182A6:85; 8:69; 10:68; 12:57;
 183A8:88; 185B8:11; 189A3:117; 6:122;
 194A1:73; 210A3:309
 vs. distance from ridge axis, 168A2:33
 vs. impedance, 154A8:396
 vs. physical properties, 159B22:229, 236, 240
 vs. relative amplitude, 188A3:167
 vs. seismic lines, 146A(1)5:214
 travelttime, vs. depth
 differential, 151A9:307
 integrated, 133A(1)13:556
 one-way, 131B33:421; 164A6:137; 7:207; 9:306;
 178A4:107; 5:96; 7:73; 183A8:120
 sonic, 146B(1)20:330–332
 travelttime/depth function, seismic models, 178A4:34–
 35; 9:23
 travelttime logs, vs. depth, 149A7:254
 TRC. *See* trophic resource continuum
 trees, broadleaf, Site 798, 127/128B(1)18:319
 trees and shrubs, phytoliths, 188B5:4–6
 tremolite
 alteration, 147A3:68–69; 209A5:15; 8:3; 9:7–11
 Atlantis Bank, 118A6:138
 calcium metasomatism, 209A3:20
 clasts, 173A9:282–283
 composition, 147B15:304, 305
 deformation, 147B14:264
 geochemistry, 176B4:20
 hydrous fluids, 149B32:546–548
 lithology, 180B6:10, 13
 magnesium-calcium-silicon-oxygen-hydrogen sys-
 tem, 209A6:77
 metadiabase, 180A7:15, 21
 metamorphic minerals, 153B31:536
 mineral chemistry, 129B17:314; 147B14:263;
 153B9:167–170
 oxygen isotopes and hydrogen isotopes, 147B14:280
 photograph, 153A3:70, 83; 5:189, 196–199; 6:243;
 169A3:100; 209A6:93
 photomicrograph, 169A3:100; 180A11:15; 209A6:81
 protoliths, 180A11:4
 serpentinization, 147B14:282–283; 149B32:543–544
 silica metasomatism, 209A3:18–20
 temperature effects, 103B16:247–249
 veins, 147A4:134; 153A3:86; 153B9:162
 tremolite, acicular-prismatic, alteration, 209A6:13
 trench axis
 forearc basins, 186B1:3
 seismic properties, 195B11:3–4
 trench-basin transition facies, lithology, 196A4:15
 trench facies, lithofacies, 131B27:333–334
 trench fill deposits. *See* sediments, trench-fill
 trench fill facies, lithology, 196A4:15
 trench slope basins. *See* basins, trench slope
 trench slope deposits. *See* sediments, trench slope
 trench slope environment, water content, 134B30:531–
 547
 trench slope facies
 clay, 190/196B4:1–28
 lithology, 190A6:5
 sedimentation, 190/196B1:9
 trench-to-basin transition, microstructures, 190/196B7:3
 trench walls, sediments, 141B6:79–94
 trench-wedge facies
 clay mineralogy, 131B28:347–348
 dewatering, 131B29:366
 lithology, 190A5:7–8; 196A3:18; 4:6–7
 major elements, 131B28:352
 magnetic susceptibility, 190/196B9:5–6
 porosity, 190A1:32; 190/196B12:8–9
 Quaternary, 190/196B6:10–11
 sedimentation, 131A6:96–97
 trench-wedge zone, well-logging, 196A3:21, 52
 trenches
 collisions, 141A2:13–20
 drilling, 186A1:1–37
 lithofacies, 131B27:333–334
 New Hebrides island arc, 134B2:21–23
 sedimentation, 131B26:323–324
 tectonics, 124B4:60; 135B23:375–381
 Triassic
 lithology, 161B23:308
 magmatism, 149B1:15
 rifting, 149B1:9–11
 tectonics, 160B52:704–705; 54:761
See also Permo-Triassic
 Triassic, Middle. *See* Norian
 Triassic, Upper
 Neotethys, 160B54:725
 rift systems, 210A1:4–6; 210B1:6
 tectonic models, 160B54:766
See also Carnian; Norian
 Triassic–Jurassic, plate tectonics, 160B54:769
 triaxial tests
 sediments, 131B21:267–268; 141B33:407–416;
 145B36:547–551
 tuffs, 131B22:278–279
 Triaxons
 occurrence, 120B(2)43:834
 Site 795, 127/128B(1)30:543
Trichichnus, lithology, 198A4:11
 tricolpates, pollen, 183B3:8, 12
 tricolporoidates, pollen, 183B3:8, 12

- tridymite
 lithology, 201A6:11–12
 sediments, 146A(1)5:153
- trihomo-hopane-32,33-diol, mass spectrum, 175B10:28
- trilete spores
 sporomorphs, 183B3:7–8
 vs. depth, 151B15:295
- trimethylbenzene, chromatograms, 180B16:15
- trimethylcholest-en-ols
 4,23,24-trimethyl-5-cholest-8(14)-en-3-ol, 175B5:8–9
 4,23,24-trimethyl-5-cholest-22-en-3-ol, 175B5:8–9
 4,23,24-trimethylcholest-22-en-3-ol, 175B10:8–10
- Triods, Site 689, 113B54:965, 969
- triple combination tool string
 interpretation, 208A4:61
 vs. depth, 208A6:72–76
- triple junctions
 Cenozoic, 141A3:23–31
 earthquakes and maps, 147B28:464–465
 evolution, 198A11:3
 magnetic lineations, 132B1:4
 migration, 141A3:25–26, 29–30; 141B10:141
 oceanic plateaus, 192A1:5–6
 plate reconstructions, 130B43:706
 rift zones, 139A2:11
 sedimentation, 141B31:394
 Siqueiros Fracture Zone, 203B2:8
 spreading centers, 134A1:9; 169A1:7
 tectonics, 191A1:5
- trisaccates. *See* Early Cretaceous–Cenomanian trisaccates province
- trissocyclids
 Japan Sea, 127/128B(1)16:294, 296
 Site 797, 127/128B(1)16:303
- triterpanes
 mass chromatograms, 172B1:5–6
 maturation, 139B24:458
 sediments, 157B21:369; 172B1:2
- triterpenes
 pentacyclic, 150B18:337
 sediments, 141B9:128, 130; 157B21:369
See also diploptene
- triterpenoids
 alteration, 139B24:457
 Atlantic Ocean E tropical, 108B20:352, 354
 biomarkers, 198A9:105
 pentacyclic, 175B10:6–7
 sediments, 141B9:128, 130; 150B18:337; 151B23:411–412; 157B21:367; 164B5:50
See also alcohols, triterpenoid; des-A-triterpenoids; norlupane; taraxerol
- triterpenoids, terrigenous
 Indus Fan, 117B34:563
 Owen Ridge, 117B34:564
- tritium
 mixing, 148B9:117–118
 predicted vs. measured in borehole fluids, 148B9:112
- trochamminids, occurrence, 103B10:158
- troctolites
 abundance, 176A3:256–259
- alteration, 147A4:131; 147B14:264–267; 15:296–297; 209A6:15–16; 10:11–17
- Atlantis Bank, 118A6:90, 118, 209; 118B6:129–130; 24:427
- chemical stratigraphy, 176B(synthesis):38–45
- clinopyroxenes, 176B10:11–12
- composition, 147B6:121–131; 14:274; 176A1:70; 176B3:2–13; 8:13–14
- crystallization models, 118B2:35, 37
- cumulative curated thickness, 147A4:128
- deformation, 147A4:140–141; 147B14:267–271; 20:367–369
- dikelets, 153B11:249
- geochemistry, 118A6:146; 118B26:478; 135B25:448–452; 153B28:491–495; 209A10:22–23, 114–118
- hydrogen and oxygen isotopes, 147B14:280–281
- ilmenite/magnetite ratio, 118A6:124
- intrusions, 147A1:5
- lanthanum/scandium ratio vs. ytterbium/scandium ratio, 153B18:359–360
- lanthanum/ytterbium ratio vs. ytterbium, 153B18:359
- lithology, 118B26:468; 147B16:117; 153B10:186–198; 176A3:13–14; 176B(synthesis):11; 6:5, 9–10; 209A6:4–7; 10:4–10
- magma composition, 118B1:13
- magmatic differentiation, 153B11:261
- magmatic sedimentary layering, 118B26:470
- magnesium number, 153B11:254
- magnetic properties, 118B16:289–290; 17:313; 176B11:8, 15, 29, 52
- metamorphism, 147A4:129–133; 153B21:392
- metasomatism, 209A1:61
- mineralogy, 118B2:24–25; 3:41; 153B5:78–93
- modal layering, 153A6:231
- olivine gabbros, 118B2:27; 26:470
- olivine-liquid relationship, 118B4:82
- oxide gabbros, 118B2:27, 29
- permeability vs. log porosity, 118B14:267
- petrography, 118A6:111–112; 118B26:447; 147B7:139; 153B27:471; 209B4:3
- petrology, 147A4:114–122, 127; 147B7:135–155; 153A5:181–187; 7:261–265; 153B4:68–71; 176A1:12–14
- photograph, 147B6:122; 14:266; 15:297–298; 153A4:131, 134, 141; 5:183–186, 190, 198, 201, 205; 6:220, 227, 231, 236–238; 7:262, 265–266; 153B9:165, 170; 11:248; 176A1:56; 209A1:130; 6:55, 82; 10:50, 85, 93, 109
- photomicrograph, 147B14:290; 176A3:127, 129; 209A10:85, 93
- physical properties, 209A10:125–126
- plagioclase, 176B10:9–11
- platinum group elements, 147B4:84
- porosity and zirconium content, 118B4:80
- remanent magnetization, 153B24:431
- serpentine composition, 147B14:264
- shear zones, 176A1:4–5, 8–10
- stereo plots, 209A10:113
- sulfides, 147B5:92–93
- textures, 118B2:24–25, 38; 3:41; 147B19:351

- thermal conductivity, 209A6:110; 7:103
See also gabbros, troctolitic; metatroctolite; microgabbro
- troctolites, altered
 major elements, 153B21:396
 photograph, 209A10:90, 95
 photomicrograph, 209A10:95
- troctolites, equigranular, petrology, 118A6:112
- troctolites, olivine-rich, Atlantis Bank, 118A6:102
- troctolites, oxide, chemical composition, 176B3:2–13
- troctolites, poikilitic, petrology, 118A6:111–112
- troilite
 gabbros, 176B7:5–9
 igneous sulfides, 118B5:115, 119
 photomicrograph, 176B7:15–16
- troilite-pyrrhotite exsolution, oxygen fugacity, 118B5:119
- trondhjemites
 age, 176A1:7–8
 alteration, 118B9:209; 26:503
 clinopyroxene and manganese oxide, 118B4:91
 crystallization models, 118B2:35, 37
 deformed rock penetration, 118B4:90
 fluid inclusions, 118B9:197, 204
 formation, 118B26:461, 511
 geochemistry, 118A6:147, 178; 209A10:119–124
 intrusions, 118B8:155; 9:208
 iron/titanium gabbro contact, 118A5:119
 lithology, 153B10:186–198; 179A2:4–6; 209A10:3–10
 methane signal, 118B9:206
 oxide-bearing vs. oxide-free gabbros, 118B26:461
 oxygen isotopes, 118B6:133, 138–139; 9:206
 petrography, 118B9:215; 26:447–448
 petrology, 176A1:13–14
 photograph, 153A4:138–139
 veins, 176B8:9–10; 179A4:55
 See also gabbros; tonalites; veins, trondhjemitic
- trondhjemites, granophyric, petrology, 118B9:190
- trophic levels, foraminifers, 138B25:559–560, 566, 573–574, 577
- trophic resource continuum, comparison, 129B9:201
- trophic resources, biogeography, 198B7:13–15
- tropical assemblages, radiolarians, 138B20:468–471
- tropical climate
 Eocene–Miocene interval, 133B21:297–300
 millennial-scale climate change, 202A1:33–37
 Tortonian/Messinian boundary, 161B43:546–548
- Tropical Easterly Jet
 Africa precipitation, 108B9:143; 29:468–469
 arid climatic effect, 117B6:157; 19:339
 southwest monsoon, 117B6:156
- tropical environment
 paleoceanography, 159A1:14
 Paleocene, 165A8:380–381
 radiolarians, 199B24:8–10
 sedimentation, 133A(1)14:578; 133B4:60
- tropical fauna
 monsoon, 184A1:12
 See also subtropical-tropical fauna
- trough fills, lithology, 152B3:34–36
- trough mouth fans
 deposition, 188A1:30
 principal results, 188A1:16–19
 sediment transport, 178A1:3
- troughs, sedimentation, 133A(1)1:5–9
- true polar wander
 Chagos Bank, 115A10:736
 Indian Ocean W, 115B1:9
 Mascarene Plateau, 115A1:9; 115B1:7–8
 Nazareth Bank, 115B1:7–8
 Site 715, 115A12:918–920; 115B1:7–8
 See also apparent polar wander path; polar wandering
- trydimite. *See* tridymite
- tryptophane, biomarkers, 159B43:599
- Tschermak substitutions
 chlorite, 147B14:274
 vs. edenite substitution, 147B13:238
 vs. magnesium/(magnesium + iron) ratio, 147B14:274
 vs. magnesium/total iron ratio, 147B13:238
- tsunami deposits
 Cretaceous/Tertiary boundary, 119B47:853; 174AXS_A(summary):12–13
 placer sands, 157B12:174
 volcaniclastics, 157B16:278–279; 27:460
 See also megatsunamis
- tsunamites. *See* tsunami deposits
- Tsugaepollenites*, vs. depth, 151B15:295
- tube pumice, lithology, 193A4:13
- tube radiographs, consolidation, 204B12:16–17, 125–140
- tube worms
 gas hydrates, 204A1:6
 hydrothermal fields, 193A1:7
- tubular-cylindrical structures. *See* structures, tubular-cylindrical
- tufa, geology, 160B54:737–738
- tuff-breccia. *See* breccia, tuff
- tuff clasts. *See* clasts, tuff
- tuffaceous conglomerate. *See* conglomerate, tuffaceous
- tuffite, Miocene, 161A1:11
- tuffs
 alteration, 124B13:192, 195–199; 157B12:149–150; 183B15:6–9
 basalts, 121A12:391
 basement, 127/128B(2)49:807
 Cagayan Ridge, 124A11:255; 12:306–311, 339; 14:401–402, 406–407, 411; 124B13:187–191, 197–199
 composition, 135B38:625–646; 55:897
 Cretaceous, 121B36:735
 Cretaceous/Tertiary boundary, 119B39:725–726
 deposition, 119A5:131; 121A4:89; 11:350
 diagenesis, 124B13:186–187
 disordered turbidites, 119A5:131
 downhole measurements, 157B4:42
 failure modes, 131B22:275–281
 forearc basins, 180B(synthesis):7
 formation, 127A5:190–191; 131B26:316
 geochemistry, 157B12:155–156
 impedance, 124B37:509
 lava flows, 152A9:126–127, 133–134

- lithology, 152B8:103–105; 157A8:406–407; 190A4:7; 192A4:5–8; 196A4:15; 197A3:13–14; 210A3:49
magnetic properties, 124B38:512
mineralogy, 124B31:414
Ninetyeast Ridge, 121A11:311, 360, 374
Onnagawa Formation, 127/128B(1)33:594
petrography, 152B33:405; 157A7:353–355
petrology, 135A(1)11:635, 638–639, 642
photograph, 152A9:129, 131; 152B8:113; 157A4:67; 7:338–339; 157B12:175–176; 192A4:43, 70–73
photomicrograph, 183A5:111, 114; 198B16:23
physical properties, 121A11:337, 344
Pleistocene, 131A6:87
rifted margins, 163X_A1:3–4
sedimentary structures, 128A3:81
sedimentation rates, 127A5:204
siliceous ooze deposition, 127A4:102–103
Site 703, 114A10:558; 12:801
Site 736, 119A5:130
Site 794, 127A4:93–94; 128A3:81
Site 795, 127A5:189–192, 199; 127/128B(1)15:288; 41:711, 714
Site 796, 127A6:265–266, 274
Site 797, 127A7:344–345
Site 798, 127/128B(2)86:1370–1371
Sulu Sea, 124A11:218–220, 269–271, 276; 124B1:6; 14:209–216
terrigenous component, 121B37:747
toluene content, 121B23:462–465
Tsushima Current, 127/128B(2)48:796
turbidites, 131A6:95
Turonian–Santonian interval, 121A4:73; 9:239–240, 242; 121B37:743–744
unconsolidated sediment, 119B42:747–750
uplift mechanism history, 119B1:22
uranium, 127/128B(2)48:793, 803
volcanic ash flow, 127A7:349
volcaniclastics, 157A8:414–415; 9:454, 456
vs. depth, 192A4:38
welded glass, 157B16:273; 27:457
well-logging, 127A6:251
tuffs, air fall, deposition, 135B53:846
tuffs, altered
 Cagayan Ridge, 124B13:195–199
 photograph, 161A8:368; 198A10:19
 photomicrograph, 210A3:226
tuffs, altered palagonitized crystal vitric
 lithology, 200A3:12
 photograph, 200A3:70–71, 122–123
tuffs, ash flow, photograph, 152A9:131
tuffs, basaltic
 lithology, 197A3:13
 photomicrograph, 157A7:358
tuffs, basaltic lapilli, lithology, 197A3:13
tuffs, black, photograph, 129B4:122
tuffs, blue
 age of Yamato seamount chain, 127/128B(1)8:126
 clay minerals, 127/128B(1)8:119
 deposition, 127/128B(1)8:119, 123–126
 lithology, 127/128B(1)8:117
 petrography, 127/128B(1)8:117–119
 plagioclase, 127/128B(1)8:124–126
 pyrogenic crystal chemistry, 127/128B(1)8:116, 121–123, 126
 radiometric age, 127/128B(1)8:116, 123, 126–127
 sedimentology, 127/128B(1)8:115–120
 Site 794, 127/128B(1)8:120
 Site 796, 127/128B(1)8:121
 Sites 794 and 796, 127/128B(1)8:115–130
 stratification, 127/128B(1)9:129
 strontium isotopes, 127/128B(1)8:116, 123, 127
 Yamato Basin and Japan Basin comparison, 127/128B(1)9:127–128
tuffs, calcareous
 lithology, 129B4:123
 magnetic susceptibility, 121A12:394, 424
tuffs, calcite-free, data, 119B39:728–729
tuffs, crystal-lithic, petrology, 126A7:181–184
tuffs, crystal-vitric
 alteration, 200A3:24–29
 clasts, 183A5:33–34
 geochemistry, 183A5:36–37
 glass shards, 183A1:18–19; 5:8
 lithology, 183A5:19, 27; 200A1:21–30; 3:10
 petrography, 200A3:16–19
 petrology, 129B4:120
 photograph, 183A5:73, 137; 200A3:61–63
 photomicrograph, 180A12:69, 74; 183A5:91; 200A3:82–95, 98
 sedimentary structures, 183A5:44
 vs. depth, 183A5:138–140
tuffs, eutaxitic, plagioclase, 152B33:409
tuffs, felsic, photomicrograph, 157B14:217
tuffs, green
 abiogenic origin of methane, 127/128B(1)44:749
 data, 128A1:9; 3:73
 deposition, 128A1:17
 Honshu, 128A4:127–128
 Oki Islands, 128A4:128
 Oki Ridge, 128A4:127–128
tuffs, hyaloclastite
 lithology, 157A10:513–514; 157B12:156, 161
 petrography, 157A10:521
 petrology, 128A3:103
 photomicrograph, 157A7:358; 157B16:291
 Site 794, 127/128B(2)87:1391
 Site 795, 127/128B(2)87:1374
 Site 799, 127/128B(1)42:724
 source areas, 157B12:166–168
tuff, lapilli
 lithology, 192A1:15–16
 photograph, 192A1:56
tuffs, lapilli rhyolitic welded, 135A(1)11:642, 643
tuffs, lithic vitric
 lithology, 192A4:6–8
 photograph, 192A1:53, 55; 4:49
 photomicrograph, 192A1:54, 58, 77
tuffs, lithic vitric lapilli, lithology, 192A4:6–8
tuffs, massive, petrology, 129B4:124
tuffs, mineralized felsic, dropstones, 145A3:45
tuffs, Pacific, volcanic provenance, 165A4:184

- tuffs, palagonitized crystal vitric
 lithology, 200A3:12–13
 photomicrograph, 200A3:98–101
 X-ray diffraction data, 200A3:96
- tuffs, pumice flow
 Site 794, 127/128B(2)89:1418–1419; 128A3:108
 Site 799, 127/128B(2)87:1373
- tuffs, pumiceous, photograph, 157A9:447
- tuffs, red-brown, photograph, 192A4:62
- tuffs, redeposited felsic, dropstones, 145A3:45
- tuffs, rhyolitic
 age, 127/128B(2)48:796
 fault zones, 135B20:315, 317
 geochemistry, 127/128B(2)88:1399; 135B38:625–646
 ice flow, 127/128B(2)89:1424–1425
 photograph, 157B16:287–290
 Site 794, 127A4:115–118, 121
 Site 795, 127A5:213, 219
 Site 796, 127/128B(2)89:1422
 Site 798, 127/128B(2)88:1400
 Site 799, 128A1:35; 5:243, 265, 292, 354
 Site 799, 127/128B(2)88:1403, 1406–1407;
 128A5:366–367
 van Krevelen plot and velocity, 127/128B(2)72:1141
 volcanic ash, 128A1:33
 well-logging, 128A5:339
 X-ray fluorescence data, 128A5:300
- tuffs, sandy, physical properties, 129B29:508–517
- tuffs, tachylitic, photomicrograph, 157A7:358
- tuffs, tectonized felsic, dropstones, 145A3:45
- tuffs, trachyphonolitic, photomicrograph, 157A7:356;
 9:457
- tuffs, vitric
 Aptian, 192A3:13
 lithology, 127/128B(2)78:1232–1233; 135A(1)4:103–
 104; 157A4:66; 7:333–339; 9:445; 10:512–514;
 192A1:11, 15; 3:10–11
 photograph, 157A9:447; 192A3:64
 photomicrograph, 157A7:357; 9:458; 10:524;
 157B16:290; 180A1:58
 Site 796, 127A6:285, 288
 Site 797, 127A7:367, 378
 Site 798, 127/128B(1)25:429; 128A4:177, 196
 Site 799, 127/128B(1)2:34, 36, 39–44; 25:429; 35:629
 turbidites, 157B16:275
 volcanic ash, 190/196B2:4
 volcanism, 157A2:23
 well-logging, 127/128B(1)2:37
- tuffs, vitric lithic, lithology, 192A4:6–8
- tuffs, vitric lithic lapilli, lithology, 192A4:6–8
- tuffs, volcanic, lithology, 134A13:492
- tuffs, volcanic ash
 petrology, 126A7:174
 X-ray diffraction data, 126A7:186
- tuffs, volcanoclastic
 core ages, 129B2:37
 East Mariana Basin, 129B4:119–135
 geochemical evolution, 129B4:130
 lithology, 129B2:37; 23:441
 lower Miocene–middle Pliocene interval, 129B31:561
 major elements, 129B4:125
- mineral composition, 129B4:124, 130
 Miocene, 129B31:561
 origin, 129B4:131
 pore water hydrogen isotopes, 129B16:301
 scanning electron microscopy, 129B4:123, 134
 silicon/aluminum ratio vs. depth, 129B4:127
 Site 199, 129B31:555
 Site 801, 129B2:36
 Site 802, 129A4:176–180, 194; 129B4:123
 trace elements, 129B4:126
 X-ray diffraction data, 129B4:123
- tuffs, welded
 flow-banding and microfaulting, 125A14:330
 geochemistry, 157A10:521, 523
 mineralogy, 126B6:105, 109
 petrology, 135A(1)11:635, 638–639, 642
 photograph, 135A(1)11:649
 photomicrograph, 157B15:265; 16:288
 Site 786, 125B14:268–269
- tuffs, zeolitized
 lithology, 157A9:447
 photograph, 157A9:447
- tugger, systems, 124E_A2:32
- tungsten
 clay alteration, 127/128B(2)55:886–887
 mineral separates, 158B2:33
 Site 798, 127/128B(2)86:1370–1371
- tunicates
 lithology, 166A11:352
 Pliocene–Pleistocene interval, 133B28:447–453
 sequence stratigraphy, 133B25:359
 spicules, 182A1:39; 4:5–6; 5:4–7; 6:6–7; 7:5–6; 8:4–7;
 182B9:3–7; 9:6–7; 10:5–6; 11:3–6; 12:4
 See also Didemnidae; Pyuridae
- tuning effects, seismic models, 131B6:76–77
- turbidite facies
 deposition, 178A4:61
 grain size, 149B40:748–749
 lithofacies, 149B40:745–747
 Pliocene–Pleistocene interval, 161B4:59, 62–63
 reflectance, 178B21:1–22
 rift basins, 180B9:1–30
 well-logging, 196A3:21, 52
 X-ray diffraction data, 190/196B5:7
- turbidite infill, sedimentation, 157B30:523–531
- turbidite matrix, hemipelagic mud/relative clay mineral
 abundance, 168B5:61
- turbidite sand, total grain modes vs. depth, 168B5:57–58
- turbidite thickness
 seismic units, 157B38:622
 vs. depth, 157B28:483–485; 168A4:59; 5:110; 6:168
- turbidites
 acoustic impedance, 115A6:420, 422
 Albian–Turonian sedimentology, 210B8:5–7
 Aptian, 103A1:13; 103B34:584
 Atlantic Ocean E tropical, 108A7:501; 108B5:75;
 15:254; 18:314, 317, 320–323
 Baffin Bay, 105B1:10–11, 17
 Bagnold effect, 127/128B(2)75:1180
 Barremian–Aptian interval, 103A12:597, 599;
 103B31:515–516, 525–529; 37:660

- basement, 128A3:92–94; 165A8:392–393
bed characteristics, 155B5:82, 88; 180B9:27
bedding-parallel extension, 127/128B(2)75:1176
Bengal Fan, 116A4:48–49, 52; 5:93–94; 6:158;
116B1:7–13
biogenic components, 108B19:338; 116B2:5–23
biostratigraphy, 124A10:143–144; 11:223–225;
12:315, 339; 146B(1)5:102; 165A3:67;
210B13:24–25
bioturbation, 116B2:18–23
bottom water oxygenation, 116B2:20, 22
Bouma sequences, 103A9:237–238; 108B18:316–317;
19:330, 332; 117A8:164; 123A1:111;
123B5:118–119, 125; 7:157; 33:601, 603;
125A9:180–181
calcareous pelagic ooze, 108B19:343
carbon, 103B31:519, 523–524
carbonates, 107A7:315; 115A9:662; 117B29:484;
123A4:159; 123B3:78
Cenozoic, 103B36:637; 149A5:145; 151A13:411
cessation, 124B1:7
channel-levee systems, 155B41:659–660
chemical composition, 108B18:319; 127/
128B(2)55:887
chemostratigraphy, 157B31:535–558
classification, 157B30:525–529
clay mineralogy, 108B18:318–321; 19:337–338, 342;
117B8:185–187, 196; 133B30:465–466;
155B9:191; 204B11:1–19
climate reversals, 178B34:5
coarse-grained lithology, 108B19:330, 332;
116B32:400, 408–409; 117A19:594–595; 127/
128B(2)75:1179
color, 116B26:322–323; 27:337
composition, 101B14:206–211; 21:306; 108B18:325–
327; 19:335–338; 135B3:44; 139A5:147–149;
143A2:29; 160B45:584; 168B5:51–65; 190A1:3
core-log integration, 166A6:100, 104
correlation, 135B22:367–368; 157B38:624
Cretaceous, 103B39:703–704
cross-laminations, 126B41:612
crust, 195B2:8–9
crystallization stages, 128A3:92–93
cyclostratigraphy, 146B(2)8:107–108; 207B2:14
debris flows, 134A4:45
deformation, 173A6:136–138; 178A7:37
density, 116B26:322–324
deposition, 107B1:26; 116B2:17–23; 124A10:143;
11:220–221; 13:349; 14:404; 141B23:303;
149A4:50, 52, 56–59; 6:204; 152A13:286–287;
157A4:68–70; 7:340–341; 165A3:96;
167A(1)11:291; 171B_A6:260; 173A6:114;
8:234; 182B1:14
depositional environment, 110B5:58–59; 117A8:189,
192; 9:241; 19:595; 126A8:247; 9:342, 344;
134A7:127; 134B7:100
depths and age ranges, 157B20:346–351
dewatering, 146B(1)15:266
diagenesis, 101B21:312–313; 157B31:573–580;
168A4:83–84
digital image, 208A7:40
earthquakes, 127/128B(2)75:1180–1181
Eocene, 173B4:1–3
eolian sand, 108B19:329, 339, 341, 348
ergodic mixed carbonate–siliciclastic cycle,
123B33:609–611
event stratigraphy, 133B51:759
Exuma Sound, 101A10:390–395; 101B14:206
fan models, 123A4:112
fillings, 127/128B(2)75:1178
fine-grained lithology, 116B32:400
fining-upward sequence, 117A1:38; 8:187–188;
9:207–209, 241
fluvial sand, 108B19:339, 341, 348
formation magnetization, 117A10:296
Formation MicroScanner, 126B41:607, 612;
169A3:135; 180A6:209; 184A4:80; 204A3:97;
4:96
frequency variations, 101B14:208; 108B19:341;
165A3:61–62; 166B5:45–60; 16:170–174
Galicia Bank SW, 103A5:85
Galicia margin W, 103A1:9–10; 8:125, 129–133, 157,
160, 162; 9:222–223, 230–231; 103B31:513–
516; 34:573; 36:638–641
geochemistry, 123A4:157–158; 149A4:97–100;
152B2:23–28; 157B31:538–545; 38:623–624;
160B17:208–211
geology, 169A1:11–13
glacial–interglacial cycles, 107B1:26
glaucinite, 127/128B(1)5:68
Gortani Ridge, 107A11:900
grain size, 101B14:207, 209; 116B26:324; 155B4:69–
76
gravity flows, 160B51:687
Hauterivian, 103B34:584
host sediment comparison, 101B21:308–309, 312
identification, 101B14:204
incompatible elements, 126B26:388
increasing sedimentation rates, 108A7:496
index properties, 117A8:169; 19:607
Indus Fan, 117A3:39; 117B8:187; 10:215, 219
intraoceanic forearc basins, 126B4:75; 41:603
Izu-Bonin forearc, 126B4:78; 41:603
Jurassic–Cretaceous interval, 170A1:7
Labrador Sea, 105A5:437–440; 105B1:14–15, 19;
42:797
Late Cretaceous to early Tertiary, 173B5:10–11; 6:1–11
lithofacies, 117B11:222, 224; 124B32:431–435, 439–
441; 141B12:171; 146B(1)1:9–11; (2)22:296–
299; 27:349; 149B45:689; 150B11:215–217;
155B2:7–33; 169A3:54–56
lithology, 103A12:572; 103B31:517–519; 108B18:314;
116B26:320–321; 133A(1)16:686, 693, 697–700;
134B5:73–84; 135A(1)8:348; 139A5:110, 173–
177; 6:299; 7:446–457; 143A9:305–306;
149A4:47; 5:119, 122; 6:152–155, 158; 7:218–
220; 149B45:687–688; 152A11:195, 198, 202;
152B4:41; 154A4:61; 5:157; 8:341; 154A9:421–
422; 155A6:95–96; 7:163; 9:209; 11:278–281;
12:334; 14:418; 15:445, 565; 20:599; 157A4:60–
63; 5:108, 113; 6:138, 143; 10:510–514;
157B38:624–628; 160A8:222; 11:401; 12:422;

- 13:453–454; 161B2:28; 162A9:303; 165A3:53–55, 59–60; 5:238–241, 244–248, 275;
166A8:177–178; 10:295–303; 11:354–355;
168A4:57; 5:109–111; 6:167–169; 169A3:44–53;
4:163–168; 169B10:10; 170A3:60–61; 4:106;
172A5:172–173; 6:258–259; 173A9:269–273;
174A_A3:57; 175A15:460; 178A1:6–7; 4:8; 5:5–6;
7:5–10; 180A5:11, 17–19; 6:18, 33–34;
180B6:7, 13–15; 181A1:21–23; 3:7–8; 5:4–5; 6:4–12;
8:11; 182A1:26, 39; 4:11–12; 6:4–5, 8; 8:6;
184A4:8–10; 9:8; 190A9:6–9; 190/196B4:3–4;
194A8:6–9; 196A4:15; 200A1:21–30; 202A3:8–9;
4:8; 204A3:7–10; 4:4–11; 5:3–4; 6:4–8; 7:4–6;
8:7–8; 9:5–7; 10:4–9; 11:2–7; 208A6:6–10;
210A3:35–37, 43–44, 49–50, 56, 59–60;
210B3:17
- Little Bahama Bank, 101A6:117, 120; 7:217–218;
8:285; 101B14:206
- location, 154A9:428–430
- logging-while-drilling sonic data, 190/196B17:1–15
- magnetic properties, 116B26:319–331; 27:337–341;
117A8:168; 19:603; 133B39:570–571; 149A4:75;
204A9:61
- magnetostratigraphy, 108A11:797; 181A6:23–24
- Marsili Basin, 107A6:140
- Mascarene Plateau, 115A5:240
- mass accumulation rates, 157A4:87–88; 157B29:501–520;
180B9:29
- Messinian, 160A17:515–516; 160B36:455;
161B42:529–541
- metal content, 123A4:157–158
- metamorphic rocks, 152B10:131
- microfossils, 101B14:208–211; 123B38:722
- microsequences, 108B19:332–333
- microstructures, 108B19:332–333, 344–345
- mid-late Miocene, 180B6:19
- millennial cycles, 167B32:357
- mineral composition, 103B36:644; 117A9:233;
10:295–296; 19:623; 141B7:95–104
- Miocene, 117A5:54; 123B33:601; 124B30:406;
190A1:27
- Miocene–Pleistocene interval, 133B27:379–445
- Miocene/Pliocene boundary, 116B26:320
- modal composition, 180B7:8–10
- muds, 160A18:524–525; 160B46:600
- nannofossil events, 168B4:43–45
- Neogene, 108B18:319–320; 19:330, 335, 340–341;
149B12:281–294; 150B14:280; 157A1:6–7;
157B38:619–634
- Northeast Providence Channel, 101A12:485; 13:531;
101B14:208, 211
- number/core ratio vs. age, 165A3:58
- Oligocene, 126A10:407; 126B5:76
- Oman margin S, 117A18:561–563
- organic geochemistry, 123A4:247; 123B11:217–218
- organic matter, 124B15:220–222; 18:240;
149B15:305–313; 46:705–712; 157B34:581–589;
35:591–607
- Orinoco River, 110B8:116
- oxidation fronts, 157B32:559–571
- oxygen, 103B31:519–520, 523–524
- Palawan Island, 124B9:122
- paleoclimatology, 195A1:27
- paleoenvironment, 108B19:338–340; 160A9:296–297
- paleogeography, 160B50:672–673
- paleomagnetism, 103A9:248–250; 11:539–541
- pelagic-turbidite sequence, 115A6:406; 9:664
- percentage in sediments, 149B45:691
- permeability, 190A5:14
- photograph, 141A10:360; 143A9:314; 146A(1)4:65–68;
5:143; 149A4:54–55; 5:124–125; 7:219, 223, 226;
152A11:197, 203–206; 154A4:70; 155A10:247;
14:417; 22:661–662; 155B5:83–105;
156A6:104; 157A4:64–70; 7:332–337; 157B12:175;
13:198; 17:312; 159B12:118; 160A9:308;
13:456–457, 473; 165A3:83; 166A10:299, 301;
167A(1)9:227; 11:292; 169A3:55, 73, 77, 85;
5:211; 170A4:106; 172A5:175; 172B7:24;
173A8:231; 174A_A3:58; 175A7:181;
177A6:32; 178A7:40–41; 8:36; 181A3:40, 44;
6:46–47, 54; 182A6:52; 8:39; 184A4:49;
190A6:27; 194A8:37; 204A3:50, 59; 4:44, 47, 55, 57;
9:39; 10:46; 11:29; 208A3:39; 6:47;
210A1:65; 3:131, 139, 142, 155, 165, 170, 172, 200, 205
- photomicrograph, 130A6:184; 157B13:199;
165A3:83; 5:246; 200A3:77–79; 204A4:58
- physical properties, 101B21:305–314; 115A8:610;
123A4:165, 168–169; 126A5:91, 93; 139A6:243
- plagioclase content, 115B3:38
- planktonic foraminifers, 192A5:10–11
- Pliocene–Miocene interval, 190A1:6–7
- Pliocene–Pleistocene interval, 103A8:123;
103B36:648–649; 136B4:53–63; 149B45:696, 701;
180A1:18–19
- Pliocene–Quaternary interval, 101B14:206;
160A8:217–218; 160B26:311
- point-count analysis, 166B5:49–50
- porosity, 178B30:6
- position, 172A5:176
- postrift sedimentation, 210B1:30–33
- preglacial sedimentary basin fillings, 163X_A8:5
- properties, 135B52:835
- provenance, 108A2:47; 108B18:319–320; 19:340–341;
113B53:955–956; 116A4:45; 5:92; 116B31:390;
117A3:39; 10:300; 123A4:104, 106; 123B4:94;
33:601; 124B24:342; 141B13:182; 157B20:343–360;
31:556–557; 167B25:291–292; 190/196B3:1–28
- pyroclastics, 161B12:151–152
- quartz grains, 108B19:346
- Quaternary, 139B2:39–58
- Quaternary–Neogene interval, 101B14:205–206
- redeposition, 123B43:806; 154A9:426–427
- redox, 149B14:301–304
- reflectors, 165A5:234
- resedimentation, 103A9:240
- resistivity-at-the-bit, 204A4:96
- reworking, 136B1:7–8
- ripple-scale cross-laminations, 126B4:91–93
- Rock-Eval pyrolysis, 149A5:134
- sand, 117A3:38

- Sardinian margin, 107B12:179
 Scotland Group, 110B5:59–60
 sea level changes, 101A10:415; 101B14:208; 15:213
 sedimentary characteristics, 107B17:281;
 124B32:441–444; 161B44:562; 172B7:1–37
 sedimentary sequence, 101B21:306; 108B18:317–319;
 19:335, 339–340; 116B31:380–386;
 166A10:304–305
 sedimentation, 101B15:215–216, 220; 108A11:791;
 126A10:407; 127/128B(2)61:959; 134A9:194;
 135B2:21; 53:847–848; 141A10:361–363;
 141B10:141; 146A(2)2:32–33; 149A7:258–259;
 154A8:391; 155A18:548; 172A5:174–178;
 173A9:293; 180A1:3, 15; 184A4:17–18; 190/
 196B1:8–10
 sedimentology, 157B38:624; 184A4:87–89; 195A1:20–
 22
 seismic data, 127A5:233; 165B12:210–212; 188B14:8–
 10
 seismic reflection profiling, 117A5:55; 139B37:593;
 157B28:483, 495–497
 seismic velocity, 103A9:258
 shallow-water bioclasts, 108B19:347
 shear strength, 101B21:313
 silica precipitation, 117B30:504
 siliciclastics, 108B18:317
 Site 703, 114A10:556–558, 585
 Site 704, 114A11:636
 Site 708, 115A6:401, 405–406
 Site 711, 115A9:661–662; 115B25:468
 Site 713, 115A10:738
 Site 714, 115A11:850–852; 115B29:541
 Site 765, 123A4:106; 123B33:610
 Site 781, 125A15:373
 Site 787, 126A5:79
 Site 792, 126A8:242; 126B14:227
 Site 795, 127A5:192
 Site 799, 127/128B(1)7:104; 128A5:264
 small-scale cycles, 123B33:611–612
 sonic logs, 190/196B16:1–15
 spillover, 155B4:60; 13:245
 stratigraphy, 116B1:8–11; 2:17–22; 196A1:4
 structural characteristics, 108B18:320; 19:330, 334–
 335; 116B1:7, 11–12
 subduction zones, 146B(1)6:119
 submarine canyons, 150B15:291–292
 sulfate reduction, 181B7:4
 Sulu Sea, 124A11:201, 209–211, 215, 269, 278;
 12:315; 124B2:22; 9:128–129
 tectonic influences, 124B32:444
 terms 1–4, 108B18:314–317
 terrigenous sedimentation, 116B32:401, 406, 410;
 117A10:260; 180A1:10
 textures, 101B14:207–210
 thermal conductivity, 139B33:553–564
 thickness, 101A11:440; 103B31:516, 520; 36:637;
 39:703–704; 110B5:58–59; 113A9:489;
 131A6:83; 135A(1)4:107; 135B6:89; 11:168;
 165A3:58; 5:242; 181A6:53
 Tiburon Rise N, 110B2:10
 Tithonian–Barremian interval, 123B1:27
 total organic carbon, 108B21:379
 transmission light microscope photograph, 207B2:30
 transport, 117A8:164; 157B12:166
 trenches, 190A1:4–5
 tuff, 157B16:275
 uplifts, 117A3:35, 39; 9:209; 10:260
 Valanginian–Aptian interval, 103B37:667–669
 Valanginian–Hauterivian interval, 103A1:11; 5:84;
 103B31:527; 45:822–823
 velocity, 117A19:612, 623–627; 210A3:103–104
 vertical distribution, 108B18:319, 321; 116B2:19–23
 volcanic ash, 123B4:104–105; 127/128B(2)48:793;
 134B21:409–412; 135A(1)5:200; 157B12:173;
 165A3:81
 volcanoclastics, 108B18:317–319; 135A(1)10:518–520;
 136B7:87–88; 157B14:215–216; 27:457–458
 volcanism, 165A8:388–390
 vs. age, 157B32:625
 vs. demagnetization responses, 116B26:321–334;
 27:338–344
 vs. depth, 113A9:455; 157B13:186; 166A8:177
 vs. magnetic properties, 116B27:338, 344
 vs. pelagic sediments, 115B33:623; 149B12:284
 water circulation, 168A4:50
 wedge provenance, 131B2:15–34
 well-logging, 166A10:324; 166B5:47–48; 171A_A3:35;
 195A4:77
 West Antarctic ice sheet, 113B53:938
 whole-core radiography, 139B7:105–111
 X-ray diffraction data, 200A3:19–20, 144
 X-ray radiography, 172B7:25
See also Bouma turbidites; Bouma units; calciturbidite;
 cryptoturbidites; channel-levee system; clastic-
 turbidite facies; hemiturbidites; sand
 turbidites, amalgamated, photograph, 180A6:95
 turbidites, basaltic-foraminiferal, intrarift ridge,
 147A3:55–56
 turbidites, base cut-out, photograph, 161A7:313
 turbidites, bioclastic
 core photograph, 129B6:164
 lithofacies, 155B40:636
 lithology, 129B6:155, 158, 160
 turbidites, brown, carbonate content, 157B30:529
 turbidites, calcareous
 carbonate compensation depth, 123B1:48
 carbonate content, 157B30:529
 changes of level, 123B1:47
 classification, 123A3:40–41
 color bands, 135B10:151–162
 Cretaceous–Pleistocene interval, 123A3:40–41
 lithology, 124B11:159–163, 167–169
 magnetic properties, 115A6:413–414; 123A4:132–133;
 123B38:722
 Miocene, 123B7:157–161; 38:725
 photograph, 180A6:95; 210A3:260
 provenance, 123B1:18, 30–31, 34, 45, 47; 41:788;
 43:805; 157B31:557
 redeposition, 123B1:30
 seismic reflection profiling, 123A4:231
 Site 261, 123B1:29
 Site 765, 123A4:111

- Tertiary, 129B31:562
 Valanginian–Barremian interval, 123B1:17
 vs. depth, 157A4:63; 5:114; 6:147
 turbidites, calcareous fine-grained sand to silt, lithology, 169A5:210; 6:266–267
 turbidites, calcareous volcanoclastic, lithology, 129B6:158, 160
 turbidites, calciclastic
 analytical methods, 123B7:152–156
 lithology, 123B7:151–152
 sea level changes, 123B7:158–160
 sedimentary sequence boundaries, 123B7:151–152
 seismic correlation, 123B7:152
 well-logging, 123B7:152
 turbidites, carbonate
 lithology, 124A10:132–136, 182–183; 11:235; 124B1:4; 149A4:52–58; 173A8:228–234; 9:269–272
 Madingly Rise, 115A8:594–595
 petrofacies analysis, 123B6:141–144
 photograph, 184A9:55
 pore-system characteristics, 123B6:140–143
 recovery efficiency, 123B6:144
 sea level events, 124B32:445
 sedimentary facies, 124B32:435–437, 441
 Site 765, 123A4:246
 turbidites, carbonate altered silt to clay, 169A6:265–266
 turbidites, coarsening-upward, lithofacies, 131B27:338
 turbidites, distal
 lithology, 178A4:5; 5:10–12
 structure, 178A4:61
 turbidites, epiclastic
 lithology, 135A(1)4:101
 photograph, 135A(1)4:103
 turbidites, fine-grained
 deformation zones, 131A1:7
 diagenesis, 131B12:159–163
 grain size, 155B11:217–228
 interbedded, 169A5:208; 6:263, 265
 lithofacies, 131B5:60; 27:333; 155A4:79–108
 lithology, 131B3:37
 mineral composition, 131A7:275–276
 petrography, 131B2:17–18
 Pleistocene, 131A6:83–87
 sand, 169A6:265
 scanning electron micrograph, 131B21:268
 siltstone, 131A6:92–93
 trench outer slope, 131B3:38–39
 X-ray diffraction data, 131B2:27
 turbidites, foraminiferal
 lithology, 184A6:6
 photograph, 184A7:46
 turbidites, glauconite
 Broken Ridge, 121A13:464–465
 Turonian tuffs, 121A13:464
 turbidites, graded
 muddy, 155A13:390
 sandstone, 210A3:186–187, 195–196, 202
 turbidites, grainstone, photograph, 210A3:167
 turbidites, granule-grade, photograph, 210A3:164
 turbidites, gray, nonvolcanic, 157B30:528–529
 turbidites, greenish gray, 123B28:527, 529
 turbidites, intermediate, vs. depth, 157A5:114; 6:147
 turbidites, lithified, composition, 101B21:309, 312–313
 turbidites, marl
 Aptian, 123B5:123–126
 biogenic components, 123B5:135
 coarse-grained, 123B5:115–126, 134
 compositional layering, 123B5:117–118, 124
 Cretaceous interval, 123B5:126–128
 deposition, 123B5:115, 118–120, 124–125, 128
 diagenesis, 123B5:120–121, 125–126
 eustatic lowstand correlation, 123B5:128
 fine-grained textures, 123B5:114–115, 123–124
 lithofacies patterns, 123B5:126
 radiolarian-rich intervals, 123B4:131–132
 sandy microtextures, 123B5:119–121
 thickness, 123B5:126
 Valanginian–Hauterivian, 123B5:111, 114–122
 turbidites, marlstone, photograph, 210A3:163
 turbidites, mud
 depositional environment, 117B10:218
 grain size analysis, 117B10:217–218
 lithology, 169A5:208; 178A5:7–8, 11–12
 Owen Ridge, 117A3:38
 photograph, 178A4:53; 5:49, 54
 radiolarian claystones, 123B1:18, 32
 sedimentation, 117B10:218
 Site 722, 117B10:219
 Site 731, 117A19:594
 structure, 178A4:57
 thickness, 181A6:97–115
 turbidites, mudstone, photograph, 210A3:169, 176, 238
 turbidites, nannofossil clayey, 135B7:101–130
 turbidites, nummulitic, Oman margin S, 117A18:562
 turbidites, organic
 carbonate content, 157B30:526, 528
 lithology, 157A4:62–63
 photograph, 157A4:64–66; 5:117–118; 6:148
 provenance, 157B31:556
 vs. depth, 157A4:63; 5:114; 6:147
 turbidites, overbank, sediments, 155A12:338
 turbidites, pelagic, sea levels and influx, 123B39:754
 turbidites, platform-derived vs. pelagic, 101B21:314
 turbidites, quartz
 Celebes Sea, 124B4:59
 deposition, 157B20:353–355
 Sulu Sea, 124B4:60, 61
 turbidites, sand-rich, 169A5:208–209; 6:265
 turbidites, sandstone, photograph, 210A3:173, 198–201, 218, 225, 238
 turbidites, sandy
 lithology, 190A6:6–8; 7:5–6
 photograph, 180B9:23; 190A4:42; 6:30; 9:34; 204A6:37
 photomicrograph, 210A3:182
 vs. depth, 155B34:550
 turbidites, sandy silt, lithology, 204A11:6–7
 turbidites, sandy to muddy, lithology, 196A3:18
 turbidites, siliciclastic
 photograph, 190A8:32–33
 sources, 123B43:805; 124B32:444–445

- upper Miocene, 190A1:26
- turbidites, silt, Owen Ridge, 117A3:38
- turbidites, silt-mud, photograph, 210A3:192
- turbidites, silt to clay, lithology, 169A5:209
- turbidites, siltstone, photograph, 210A3:188, 199
- turbidites, silty, lithology, 169A5:209; 6:266
- turbidites, silty claystone, photograph, 195A4:78
- turbidites, stacked, lithology, 123B33:611
- turbidites, terrigenous
 - Site 722, 117A3:39
 - Site 731, 117A3:39
- turbidites, thin-bedded
 - lithology, 178A5:7–8, 11–12
 - photograph, 135A(1)7:303
- turbidites, trench, photograph, 205A6:31
- turbidites, trench-wedge, magnetostratigraphy, 190A1:28
- turbidites, unlithified, composition, 101B21:308–312
- turbidites, vitric
 - lithology, 135A(1)8:352–354
 - photograph, 135A(1)9:414
- turbidites, volcanic
 - carbonate content, 157B30:528
 - lithology, 157A4:63
 - photograph, 157A5:117
 - provenance, 157B31:556–557
 - vs. depth, 157A4:63; 5:114; 6:147
- turbidites, volcanoclastic
 - abundance, 107B18:302
 - Albian, 129B31:562
 - Aptian–Cenomanian interval, 129B33:619
 - Campanian–Eocene interval, 129B31:558
 - carbonate content, 157B30:529
 - Coniacian–Campanian interval, 129B31:558
 - core ages, 129B2:35; 37:802
 - core photograph, 129B6:163
 - Cornaglia Terrace, 107B18:295–297
 - De Marchi Seamount, 107B18:296–297
 - definition, 107B18:294
 - depositional setting, 129B12:232–233
 - glacial–interglacial fluctuations, 107B1:16
 - Gortani Ridge, 107B18:295–297
 - lithology, 107B18:303; 129A3:101; 129B2:35, 37; 6:155, 157, 160; 9:190; 14:268, 269; 23:437, 443–444; 135A(1)7:297–300; 135B6:87–92; 180B6:15–16; 200A3:8–9
 - magnetization, 143B22:373–379
 - Marsili Basin, 107B18:297–298, 302; 38:656, 667
 - mid-Cretaceous, 129B1:11
 - middle Valanginian, 129B32:596
 - mineral composition, 129B1:16; 2:80; 3:117
 - Miocene, 135B11:164
 - nonvolcanic components, 107B18:302
 - paleomagnetism, 129B23:435
 - photograph, 180A6:95; 200A3:56–60, 120
 - Pleistocene, 107B1:16
 - provenance, 107B38:657
 - reduction halos, 135B10:151–162
 - reworked, 107B18:302
 - sand-silt-clay series, 129B2:32
 - Sardinian margin, 107B18:295–297
 - sediment mass accumulation rates, 107A11:168
 - shallow-water off-ridge seamount source, 129B31:567
 - Site 585, 129B31:555
 - Site 801, 129A3:112; 129B2:36
 - Site 802, 129A4:176–180, 183–192
 - Sulu Sea, 124B32:440
 - thickness, 135A(1)5:198; 135B11:164–165
 - Tyrrhenian Sea, 107B18:295–298; 38:668
 - turbidites, volcanogenic
 - Albian–Cenomanian interval, 129B1:10
 - biostratigraphy, 129B12:229
 - Coniacian–upper Campanian interval, 129B31:565
 - core ages, 129B2:37
 - core photograph, 129B6:163
 - Cretaceous, 129B31:565, 568
 - deposition, 129B12:231
 - geochemistry, 129B6:156–159; 15:288–289
 - Gortani Ridge, 107B38:626
 - Jurassic–Lower Cretaceous interval, 129B36:677
 - lithology, 129B2:37
 - mid-Cretaceous, 129B5:137–152
 - natural remanent magnetization, 129B23:431
 - paleolatitude, 129B23:439
 - post-Valanginian, 129B36:683
 - scanning electron microscopy, 129B1:28
 - seamounts, 129B4:129
 - Site 801, 129B2:34
 - Tertiary, 129B31:565
 - turbidites, wood-rich sandy, photograph, 190A1:70; 8:31
 - turbidity currents
 - Bengal Fan, 116A5:49; 116B26:334–335
 - biostratigraphy, 210B13:19–25
 - carbonates, 101B14:208; 161B6:78; 173A7:174–175; 173B5:12
 - clasts, 180B8:12
 - clay minerals, 178B8:10; 190/196B4:9
 - confined flow model, 131B3:42
 - deposition, 155A20:603, 605; 155B41:663; 156A6:100–101; 157A10:514–515; 161B7:95–96; 178A4:12–13; 9:8–9; 180A9:27–28; 204A6:7
 - dispersal patterns, 131B2:30
 - environment, 204A9:8; 10:10–11
 - filled tension gashes, 127/128B(2)75:1189
 - fluid flow/material transport, 127/128B(2)75:1178
 - foraminifers, 157B17:307–309
 - formation timing, 127/128B(2)75:1178–1180
 - frequency, 149B12:292; 180B9:6
 - grain size, 178B12:2–3
 - gravel deposition, 118B25:436
 - ice-rafted debris, 120B(1)12:172; (2)63:1098
 - lithofacies, 150B11:205–206
 - lithology, 149A4:56–59; 5:122; 6:155; 7:220, 222; 155A8:183; 161A6:196; 166A6:83–84; 177A6:5; 178A8:3–9; 180A5:9; 6:13; 7:8–11; 8:16; 9:7, 11, 13, 26; 10:10; 12:6–10, 15, 18, 24–25; 182A6:10–11; 183A6:10; 8:7; 190A4:6–7; 5:7–8; 8:6; 192A4:6; 196A4:15; 204A4:8–11; 208A7:6–9; 210A1:14; 3:25, 30, 38–39, 57–63
 - magnetic fabric, 149B14:342
 - mud volcanoes, 195A3:15
 - Neogene, 149B10:308

- normally graded sand lithofacies, 150B11:203
 overflows, 155B4:53–78
 paleoenvironment, 195A4:17–19
 paleoflow directions, 210B3:1–27
 photograph, 173A7:170; 178A8:32; 210A3:204–205, 211–212
 physical properties, 155B26:435–436
 Pliocene, 180B(synthesis):11
 provenance, 131A7:284
 reworking, 136B1:7–8
 sand, 150B11:201
 sandstone, 180B7:8–18
 sea level stands, 101B14:203
 sedimentation, 116B31:392–393; 131B3:35–43; 26:323–324; 152B1:3–18; 178A1:6; 195A5:8
 sediments, 141B6:89–92; 180B6:17–24
 Site 701, 114A8:377
 Site 798, 127/128B(1)24:419, 421
 Site 799, 128A5:259
 submarine canyons, 150B15:291–292
 Sulu Sea, 124A8:111
 volcanic ash, 128A4:153–154
 volcanic sand, 136B4:59, 61–62
See also debris flows; gravity flows
 turnover rates, planktonic foraminifers, 130B10:152
 Turonian
 authigenic carbonates, 188B15:7
 biostratigraphy, 129B8:180; 11:221; 143B2:20–21; 159B25:278–279; 26:321–322; 27:336, 338; 30:379; 35:489; 174AXS_A1:36, 43–44; 4:28–29; 5:44, 48; 6:50, 52, 56, 95, 101; 183B1:21–22; 2:6; 3:10–13; 185B5:5; 189B5:27; 198A3:20; 198B5:4; 210A3:86; 207A5:17; 6:15, 20; 7:13; 8:14, 18; 210B13:9–11
 carbonate compensation depth, 160B38:499
 clays, 159B7:63
 cyclostratigraphy, 207B2:12, 23–27
 deformation, 159B4:35–41
 geochemistry, 210A1:20
 lithology, 129B14:268; 143A9:308; 159A5:81–82; 6:168–170; 174AX_A1:32–35; 174AXS_A1:26–28, 57–58; 4:15; 5:37–41; 183A1:34; 6:6–8; 188A4:13–14; 207A5:8–9; 7:11; 210A1:14; 3:36–58, 61–63
 magnetostratigraphy, 171B_B8:8
 marginal ridges, 159B8:76–78
 ocean anoxic events, 174AXS_A(summary):2
 paleoenvironment, 210A1:17; 210B13:21–22
 paleomagnetism, 159B20:204–205; 192A5:21, 119
 paleotopography, 159B11:106
 palynomorphs, 188A4:25; 188B1:6; 2:3; 3:10–11
 periplatform deposits, 159B11:102–103
 photomicrograph, 198A3:74
 postrift sedimentation, 210B1:28–31
 remanent magnetization, 210A1:19
 sedimentation rates, 210A3:89
 sedimentology, 210B8:5–8
 sediments, 143B37:587–588; 171B_A4:107
 seismic stratigraphy, 149B39:623; 183A6:61
 stratigraphy, 160B32:412–413; 174AXS_A5:62
 strontium isotopes, 174AXS_A5:50
 tectonic models, 160B54:769
 transmission light microscopy, 207B2:29
 See also Cenomanian/Turonian anoxic boundary event; Cenomanian/Turonian boundary; Cenomanian–Turonian interval
 Turonian, intra, hiatuses, 160B40:522
 Turonian, lower
 biostratigraphy, 174AXS_A1:45; 183A6:11, 15–16, 20; 210A3:79, 81
 lithology, 198A3:13–14
 Sites 1276 and Site 398 comparison, 210A1:27
 Turonian, middle–upper, nannofossils, 183A6:15
 Turonian, upper
 lithology, 171B_A4:102–107, 110–112
 pollen, 174AXS_A1:44–45
 Turonian–Campanian interval
 lithology, 129A2:38; 129B13:254
 Site 800, 129B2:32
 Turonian–Coniacian anoxic event, 183A6:11
 Turonian/Coniacian boundary
 biostratigraphy, 129B8:184
 photograph, 171B_A4:110
 Turonian–Coniacian interval
 magnetostratigraphy, 171B_B8:8
 planktonic foraminifers, 183A6:19–20
 Turonian/Santonian boundary, lithology, 183A4:6
 Turonian–Santonian interval
 lithology, 174AX_A1:32–33; 6:38–42
 palynomorphs, 174AX_A1:41; 188A4:25
 Turritinidae, Site 766, 123B14:278
 twinning
 petrography, 187A12:4; 15:5
 photograph, 153A4:159, 166; 153B6:121
 photomicrograph, 179A4:127–128; 209A9:50, 58, 76; 10:63
 plagioclase, 179A4:50–51
 pyroxene, 179A4:51
 See also Carlsbad twinning; deformation twins; neoblasts, twinned
 twinning, deformation
 photograph, 153B6:118, 120
 photomicrograph, 209A3:100
 Tylostyles
 healed normal faults, 127/128B(2)75:1178
 Japan Sea stress field, 127/128B(2)75:1187
 Site 695, 113B54:965, 969
 Site 748, 120B(2)43:837
 Site 795, 127/128B(1)30:543
 Type 1 ash layers
 backscatter electron imagery, 201B19:23
 geochemistry, 201B19:40–43
 photograph, 201B19:23
 volcanic glass shards, 201B19:10, 23
 Type 1 basalt, petrography, 187A12:7
 Type 1 image facies, Formation MicroScanner, 166B7:77–81
 Type 1 sediments, rock magnetism, 208B4:4–6
 Type 2 ash layers, occurrence, 201B19:37–38
 Type 2 basalt, petrography, 187A12:7
 Type 2 image facies, Formation MicroScanner, 166B7:77–81

Type 2 sediments, rock magnetism, 208B4:4–6
Type 3 ash layers, occurrence, 201B19:37–38
Type 3 basalt, petrography, 187A12:7
Type 3 image facies, Formation MicroScanner, 166B7:81
Type 3 sediments, rock magnetism, 208B4:4–6
Type 4 ash layers, occurrence, 201B19:37–38
Type 4 basalt, petrography, 187A12:7

U

U-channel paleomagnetic studies
 deconvolution, 202B14:9, 28–30
 demagnetization, 157B6:60–67
 magnetic excursions, 172B11:3–6
 sediments, 178B36:10–14; 37:1–61; 202B2:6–7
U reflection
 basement isopach maps, 210A1:52
 seismic profiles, 210B1:54
 sill injection, 210B1:22
 synthetic seismograms, 210A1:31
ubiquinones, microbial divergence indexes, 205B8:9–10
ubiquinones/menaquinones ratio, vs. depth, 205B8:18–20
ugrandite, breccia clasts and matrix, 173A7:195
Ulatisian, biostratigraphy, 197B2:4
Ulmaceae, sediments, 116B21:255
ulminite, petrology, 180B10:8, 13
ultracataclastites
 foliation, 134B23:427; 173A6:148
 petrology, 180A11:5–6
 photograph, 147A3:83; 187A13:38
 shear zones, 187A13:12
ultracataclastic zones
 fabric, 153B8:148–149
 See also cataclastic zones
ultrafiltration
 clay membranes, 129B16:295, 298
 fluid flow, 146A(1):11
ultramafic rocks
 acoustic properties, 149B24:425–429
 alteration, 118A3:53–54; 147B14:257–261; 15:293–295; 195A3:11–12; 209A3:11, 23; 7:7–9
 altered tectonized, 210A1:22–23
 bulk rock and mineral chemistry, 153A3:65–69; 153B10:198–215
 classification, 118A1:12
 Conical Seamount, 125B26:431–443
 cores, 153B10:185
 deformation, 125A8:133, 164; 147A4:138–140; 179A4:53–54; 179B(synthesis):44–45
 demagnetization, 209A3:150
 fabrics, 147B20:359–361
 geochemistry, 125A6:103–104; 7:122–124; 8:154–155; 11:257–258; 12:280–281; 125B26:435; 153A3:64–68; 153B26:457–470
 ice-rafted debris, 163B15:165
 intrusions, 153B11:243–264
 Izu-Bonin forearc, 125A1:9; 4:79
 lithology, 147B20:257–261; 153B10:186–198; 209A5:9
 magnesium number, 153B10:210–211

magnetic properties, 125B33:561, 563, 570; 176B11:18–20, 63
Mariana forearc, 125A1:9; 4:79
median destructive field, 209A3:151
metamorphism, 125A4:75
mineral composition, 118B7:149; 125B26:434–438; 144B30:513–533
mineralogy, veins, and microtextures, 147B20:258–259
ocean–continent transition, 149B21:377–395
olivine-bearing, 153A3:57
oxygen isotopes, 153B26:464–468
petrography, 118A3:50; 125B26:431–435
petrology, 125A7:121; 8:153–155; 11:256–257; 12:278–279; 149B36:581; 153A3:48–62; 195B1:12–15
photograph, 209A3:58
platinum group elements, 147B4:77–90
reference materials, 147B30:493–496
seafloor alteration, 149B30:525–527
sediment provenance, 180B6:16–24
serpentine deposits, 125B14:355
serpentinization, 107B10:146; 118B9:209; 125B19:343; 26:431, 435; 153B20:381–388
Site 786, 125A15:372
sodium oxide, 153B10:232
sulfur isotopes, 147B5:91–101
tectono-metamorphic evolution, 149B22:397–412
trace elements, 125A6:104; 7:122–124; 11:258; 12:280–281
X-ray diffraction data, 195A3:148–149; 209A9:103
See also chromitite; dunites; hypabyssal rocks; intrusives; komatiites; lamprophyres; lherzolites; mafic rocks; peridotites; plutonic rocks; troctolites; websterite; wehrlites
ultramylonites
 intensity, 209A5:111; 10:100
 ocean–continent transition, 149B47:718
 petrology, 180A11:5–6
ultramylonites, pseudomorphed, 209A3:107
ultramylonitic texture. *See* textures, ultramylonitic
ultramylonitization, ridges, 149B1:13
ultrasonic borehole imaging, 206A3:322, 325–327, 330
ultrasonic data
 mineralization, 158B23:314–315
 See also seismic velocity
ultrasonic velocity, basalts, 142B7:57
ultrastructure, pteropod shells, 134B15:321–322
ulvöspinel
 alteration, 200B3:12
 basalts, 131B16:200
 lava flows, 197A3:20
 photomicrograph, 197A4:65
 Site 757, 121A11:333
 thin sections, 176A3:24–25
 titanomaghemite, 148B38:479
 See also chrome spinel
ulvöspinel-magnetite solid solution, 200B3:3–6
unblocking temperature. *See* temperature, unblocking
unconformities
 age control, 143B31:512

- Albian, 143B21:438–439; 210B1:13
basement, 180B(synthesis):5–7; 194A1:54–55
bedding, 159A6:186; 159B1:8
bioclastic sediments, 133A(1)15:626
biostratigraphy, 146B(1)4:74–75; 24:373; 149B41:655;
150B1:14; 2:27–28; 151B14:257–281; 35:641–
642; 157B29:513; 160A9:302–303; 160B7:93–95;
166A2:19–20; 166B1:3–12; 174AXS_A1:38;
6:54–55; 177A5:12; 181A8:17–20; 182A1:22–23;
10:15–16; 182B3:10, 13; 4:5–11; 183A4:6; 5:10–
13; 183B4:5, 8–9; 184B9:7–8; 188B3:8;
192A3:21–22; 6:12–14; 202A13:10–12; 204B6:2–
3; 207A5:12–14; 6:17; 208A8:9–20; 210A3:74
calcite, 159B8:75
Callovian, 129B32:589
Campanian/Maastrichtian boundary, 192A6:12
Campanian–middle to late Eocene, 188B1:6; 3:8, 10
Campanian–Miocene interval, 198A1:104; 3:57
carbonate compensation depth, 198A9:13–14
carbonates, 133A(1)1:28; 143B29:461–466;
160B38:494; 53:719; 54:743
Celebes Sea, 124A13:350
Cenomanian–Coniacian interval, 159B12:116–117
Cenozoic, 130B12:233; 134B2:28–31; 144B41:684–
686; 145B37:560–564, 569–570; 174A_A1:9;
182A1:4–5
chert, 159B2:16–17
clay mineralogy, 150X_B5:63
composite depths, 160A8:242–246
continental margin, 150B20:376; 152A13:288–292
continental slope, 152B1:7–17
correlation, 134B26:471–474; 135B6:98–99;
150X_B12:155–157; 16:208–209; 152B41:521–
522
Cretaceous, 159B2:14, 16; 186A1:4; 186B1:3
Cretaceous–Cenozoic, 129B12:234; 132B2:15–36
Cretaceous/Tertiary boundary, 183B4:11–14
cross section, 163X_A1:15
crust, 152B41:518–519
décollement structures, 159B3:28
deposition, 173A7:177; 188A4:16–17
depths and duration, 192A3:153; 6:105
“doubthouse” sequences, 150A2:15
Eocene, 133B21:299; 150B25:430–431;
150X_B17:238–241; 183B4:15–16; 208A6:12,
16; 7:11
Eocene/Miocene unconformity, 165A6:321
evolution, 180A3:4–5, 7
fission-track data, 159B11:105
gamma rays, 150X_B6:67–68; 207A5:32
glauconite, 150B10:179–181
Hauterivian, 185B5:5
Jurassic, 173B7:14
lithofacies, 131B27:337–338; 150B11:206, 223–226
lithology, 130A10:504–508; 133B20:283–288;
149A7:221; 150X_A1:19; 150X_B2:16–22;
152A8:92–94; 159A6:186; 160A7:199;
160B37:476; 161A9:397; 161B7:84–86; 44:560;
165A6:301; 174AX_A1:18, 22–26, 32;
174AXS_A1:20; 2:18–23; 3:19, 21; 180A8:57;
181A1:17–18; 4:5; 6:8; 182A1:9–10; 5:7; 9:7;
183A3:4; 5:5, 29; 188A4:14; 194A8:4–9;
198A3:13; 9:13–14; 10:5, 7; 204A7:4; 210A3:39
locations, depths, and maximum ages, 198A1:146
lower Aptian–Miocene interval, 192B1:4
Lower Cretaceous, 129B31:559, 567
lower Oligocene/Neogene boundary, 188A4:15
magnetic polarity, 150A7:158; 150B8:137
magnetostratigraphy, 134A8:159–160; 181A8:27
marine isotopes/Stages, 181B1:13
mass accumulation rates, 198A4:23; 208A1:5; 7:24–25
middle–upper Eocene interval, 192A1:18, 20
Miocene, 131B27:341; 133A(1)9:310; 10:353;
134A1:14; 149A5:145; 150X_B11:144; 14:170;
166A6:89; 180A1:17–21; 180B(synthesis):7;
208A7:10, 14
Miocene/Pliocene boundary, 161B42:538–539; 44:568
Miocene–Pliocene interval, 150B4:58–61
Neogene, 133B1:15–16; 134B4:61–64
New Hebrides island arc, 134B2:24–29
nondeposition, 144A4:119
oceanic anoxic events, 198B16:11–12
Oligocene, 130B9:114, 121; 150X_B15:190–205;
184B9:18
Oligocene–Miocene, 159B36:494–495; 184B10:10
orientation, 134B24:433–434; 135B20:325–326
origin, 198A1:25–27; 4:4–6
Palawan Island, 124B4:54
Paleocene, 150X_B19:272–274; 159B2:16; 183B4:14–
15
Paleogene, 130B25:423–444; 144B12:241–244
Paleogene/Neogene boundary, 165A6:342
photograph, 150A6:78; 8:215, 217; 150X_B3:42, 45–
48; 159A6:169; 160A7:174; 160B27:348;
165A6:304; 184A4:47; 210A3:144
platform drowning, 143A1:7–8
Pleistocene, 133B25:353–364; 170A1:12
Pliocene, 135B22:367–370; 160A17:516
Pliocene–Pleistocene interval, 208A6:11
post-Miocene interval, 161B44:569–570
Quaternary, 133B11:129–161; 134B3:51
rifting, 180B(synthesis):9; 210B1:11
sandstone, 159A6:188
seafloor spreading, 149B1:17–18
sedimentary sequences, 133A(1)7:208–210;
134A8:165, 167
sedimentation, 143B2:20–24; 150A6:89–90; 7:159–
162; 9:280–282; 10:326–328; 152A11:225;
159A6:184; 180A1:3; 180B(synthesis):33;
181B1:14; 198A5:24–25; 6:21–23; 7:21–22;
8:19–20; 9:25–26; 207A6:27
sediments, 150X_B3:27–35; 4:50; 15:203–205;
22:296–304; 151B26:446–447; 161B5:70–73;
178A2:12–13; 183A1:16; 195A1:21; 207A4:8
seismic data, 204A3:58
seismic facies, 165B12:211–212
seismic profiles, 135B21:346; 150B16:293–307;
161B25:336–338
seismic reflectors, 150A7:184–188; 8:241–243;
157B2:27; 161B26:348–352; 171B_A6:294;
199A4:5

- seismic sequences, 133B24:327–351; 178A9:24;
178B19:9; 182A4:40–42
- seismic stratigraphy, 132B1:5–6, 12; 133A(1)9:314;
162A6:205
- seismic units, 161A6:247–250; 178B(synthesis):6–9;
16:13; 188B8:3–10; 204B2:6
- Site 801, 129A3:112
- Sites 1276 and 398 comparison, 210A1:27–28
- soft-sediment deformation, 133A(1)15:621
- stratigraphy, 129B3:91; 130B25:427, 431;
145B29:437–452; 181A1:47; 198A1:43; 8:2–3
- strike-slip faults, 189A1:26
- strontium isotope stratigraphy, 150B6:107–109
- Sulu Sea, 124A11:277–278
- summary, 198A1:8–9, 146; 3:116
- synthetic seismograms, 151A6:150
- tectonics, 134A12:438; 134B35:617; 160B50:673
- tektites, 150B13:258
- thermal history, 159B5:45; 7:65
- transform faults, 159A1:10–11; 9:305–306
- turbidites, 135B11:168
- Turonian, 159B21:205–206
- upper Aptian, 192A6:12
- upper Miocene, 188A1:4
- uranium/thorium ratio logs, 162A9:326
- veining, 159B1:5
- volcanism, 152A5:49–50; 165A8:388–390
- well-logging, 133A(1)5:169
- See also* biostratigraphic hiatuses; breakup unconformity; disconformities; discontinuities; Eocene/Miocene boundary; erosional contacts; erosional events; erosional surfaces; hiatuses; Marshall Paraconformity; Miocene/Pliocene unconformity; omission surfaces; Paleocene/Eocene boundary; paraconformities; seismic discontinuities; stratigraphic discontinuities
- unconformities, angular
geologic history, 207A1:4
lithology, 204A10:5–6; 207A4:10
seismic Horizon Y, 204A6:7–8
synrift sediments, 180A2:18
- unconformities, basal, Oligocene, 150X_B15:195
- unconformities, erosional, sedimentation, 180A6:32–33
- unconformities, regional
accretionary complexes, 204A11:7–9
lithology, 204A11:5–7
- unconformities, seismic, lithology, 204A11:3
- undeformed zones, structural domains, 180A9:29–30
- undercompacted systems, high-porosity and low-velocity mudstone, 210A3:101
- undercompaction
porosity, 146B(1)20:331–334
sedimentation rates, 180A1:4
- underconsolidation
density, 171A_B3:8–10
gas escape, 150B21:384
Japan Sea, 127/128B(2)71:1129–1130
low density, 171A_B3:6
proto-décollement zone, 171A_A7:101
sediments, 135B48:787–795
Site 798, 127/128B(2)75:1176–1178; 128A4:143
- stress, 131B23:288–289
See also consolidation; overconsolidation
- underplating
accretionary wedges, 134B1:13–18
basement, 173A1:11
carbonate compensation depth, 192A3:16
décollement zone, 131B32:403
plate tectonics, 205A1:8–10; 205B1:6
seismic units, 204B2:8
subduction zones, 204B1:3–5
- underthrust domain, structure, 190A5:13
- underthrust section
compaction, 170A4:137
décollement zone, 196A4:30
fluid flow, 171A_A5:67–68; 6:89–90
kinematic evolution, 170B3:11–12
prisms, 131A6:119–120
Sites 1044 and 1046 comparison, 171A_A5:66
Sites 1044 and 1047 comparison, 171A_A6:88
structural domains, 156A6:126–127; 170A4:113–115;
7:226–227
structural setting, 170B4:3
structures, 170B3:7–8, 12
- underthrust terrigenous sequence, sandy, 171A_B3:19
- underthrusting
brecciation, 205A6:11
Caribbean plate, 171A_A1:5–6
clastic sediments, 205A6:9
convergent margin, 186A1:4–5
crust, 160B51:694–695
décollement zone, 156B22:286
geology, 204B1:4–5
hydrology, 205B1:5–7; 6:4–5
photograph, 205A1:67; 5:46
porosity, 190/196B11:1–23
quinones, 205B8:20
seismic reflection, 156A2:18
structural domains, 156A7:215
- underway geophysics
Amazon Fan, 155A5:83
Australia NE, 133B58:819–851
Chile margin, 141A4:33–35
Cote d'Ivoire-Ghana transform margin, 159A4:61–62
cruise EW9903, 206A4:1–49
Hawaiian arch, 136A3:27–34
Lau Basin, 135B56:909–921
Leg 149, 149A3:35–37
Leg 152, 152A3:41–43
Leg 166, 166A5:67
Mid-Pacific Mountains, 143A3:31–74
New Jersey margin, 150A4:43–50
Norwegian-Greenland Sea, 151A3:47–48
Pacific Ocean equatorial, 138A(1)3:43–63
Site 871, 144A3:45–47
Site 872, 144A4:110–111
Site 873, 144A5:150–151
Site 874, 144A6:211–212
Site 879, 144A11:415–417
Site 950, 157A4:52–53
Site 951, 157A5:106–107
Site 954, 157A8:397

- Site 955, 157A9:435–436
 Site 956, 157A10:499–500
 Site 1203, 197A3:46–47
 Site 1204, 197A4:33–34
 Site 1205, 197A5:28–29
 Site 1206, 197A6:24–25
See also geophysical surveys; site geophysics
 undulatory extinction, clasts, 173A4:199–201
 undulose extinction, lithology, 179A2:5
 unfite deposits, Marsili Basin, 107B17:281
 Unitary Association zones, 185B6:15; 198A9:23
 unloading slope, vs. consolidation index, 139B40:635
 unroofing
 detachment faults, 179A4:7
 massifs, 179A4:56
 rift-to-drift models, 210B2:10–11
 schematic models, 179A4:150
 unsaturation indexes
 alkenones, 146B(2)19:257–264; 165B16:239–247;
 167B12:185–186; 190/196B13:3–4
 sea-surface temperature, 161B39:499–500;
 167B26:297, 301–302
 time series analysis, 167B32:360–361
 vs. depth, 161B39:493–499; 167B12:186
 untriacontane. *See n-untriacontane*
 upflow zones, hydrothermal alteration, 139B11:226;
 158A2:19–20
 uplifts
 across transfer zones, 126B38:564
 age constraints, 204B3:4–5
 Andes N, 165A4:207
 backarcs, 186B1:5
 blocks, 118A6:91, 207–208
 Broken Ridge, 121A4:87–89, 457
 carbonate crash models, 206B4:10–12
 clay mineralogy, 117B8:187–188; 181B1:27
 cobblestone topography, 160A5:88
 collisions, 160A17:513–520; 160B53:716
 continent/ocean margin, 159B11:102
 cross sections, 176A1:49–50
 crust, 152A13:291–292; 152B41:521–522
 cyclic processes, 159B12:120–121
 debris flows, 149B47:719–721
 deformation, 134A4:43
 deposition, 204A5:5
 duration, 121B21:444
 Eocene–Miocene interval, 160B38:496–499
 erosion, 184A1:11
 exposure, 159B8:71–79
 fanglomerate, 160B43:545–566
 flexure, 160B39:513
 gabbros, 179B2:3–4
 gas hydrate stability zone, 204B2:12–13
 geochronology, 116B32:399
 geology, 195A1:23–27
 Himalayas, 116B8:100–102; 32:398–399, 409
 hydrothermal circulation, 159B5:46
 indicators, 135B53:847–849
 intrarift ridge, 147A1:13
 Islas Orcadas Rise, 114B1:9
 Izu-Bonin-Mariana region, 126A1:8
 Japan Sea region, 127/128B(2)83:1343–1344
 Kerguelen Plateau evolution, 120B(2)47:892
 lithofacies, 160B43:551, 558–559
 lithology, 117A19:595; 161A6:196–197
 Lower Cretaceous, 189A1:7
 lower oceanic crust, 176B(synthesis):20–22; 9:22
 Maastrichtian unconformity, 121A13:467
 mantle dome, 149B22:410
 marginal ridges, 159A9:301
 median ridges, 118A3:56
 Meteor Rise, 114B26:478
 microstructures, 159B2:18
 monsoonal upwelling, 117B5:138
 Northeast Georgia Rise, 114B2:29–33
 occurrence, 127/128B(2)75:1190–1193
 oceanic crust, 176B1:1–24
 Oman margin N, 117B5:139
 paleobathymetry, 161B5:73
 Paleocene/Eocene boundary, 189B1:7, 20
 phosphate, 127/128B(1)5:64
 plate boundary, 160B54:731
 plate tectonics, 149B25:438–440; 209B1:13–15
 Pleistocene, 160B54:733
 Quaternary, 134A3:33–42
 rates, 134A3:37–41
 rifting, 121A1:5; 126A11:418; 126B38:566;
 152B41:517–518
 seamounts, 160B51:689–690; 53:719–720
 sediment transport, 167A(1)13:372
 sedimentary record, 121A1:17; 127B15:310–311
 sedimentation, 116B32:393; 134B5:86–87;
 160B43:563–564; 180A6:32–33
 Sierra Nevada, 167B32:371–372
 siliceous veins, 128A5:312
 Site 698, 114A5:115–117
 Site 699, 114A6:152–154; 12:800–801; 114B35:663
 Site 700, 114A7:256, 304, 307; 114B35:663
 Site 701, 114A8:412
 Site 747, 120B(2)47:885
 source areas, 119B3:52–53; 121A4:89; 13:500
 Southern Ocean, 114B35:662
 tectonics, 147B28:472–473; 160B52:704; 161B44:570;
 178A2:19; 204B2:10; 210B9:30–31
 temperature changes, 108B29:468–470, 479
 thermal history, 159B4:41; 11:108
 thermal upwelling, 135B11:170
 thrust stacks, 160B50:672
 Tibetan Plateau, 108B14:224; 29:481; 116B8:93, 100–
 102, 111; 32:399, 407, 409; 184A1:3–4
 tilting, 159B1:10
 transform walls, 118B14:264
 turbiditic–pelagic transition, 117A10:300–301
 unconformities, 135B22:369
 uplifts, flexural
 Broken Ridge, 121B36:740
 magnitude, 121A1:9–10; 4:86
 rifting duration, 121A7:172
 upper alteration zone, pillow margins, 192A5:16
 upper crust. *See* crust, upper
 upper methanogenic zone, carbonates, 164B30:307–309
 upper ocean signatures, isotopes, 202B12:22–24

- upper opaque unit
 - lithology, 129B31:559–563
 - middle Pliocene–lower Miocene interval, 129B31:561
 - seismic character, 129B31:562
- upper rise, sedimentation, 152B1:3–18
- upper slope
 - mass accumulation rates, 182B1:7–9
 - sedimentation, 133B24:327–351
 - seismic sections, 188B14:23
- upper slope-basin facies, lithology, 190A6:4–6
- upper transparent unit
 - acoustically transparent layer, 129B21:563
 - lithology, 129B31:563
- upper water stratification, foraminifers, 184B11:7
- uptake rates
 - anisotropy, 127A5:229
 - fluoride in plagioclase pyric basalt, 127A5:217
 - Sites 798–799, 127/128B(1)5:66
 - velocity vs. sediment depth, 127/128B(1)5:65
- upward-fining sequences
 - Izu-Bonin forearc, 126B4:88
 - sources, 126B4:94
 - tectonic controls, 126A23:347–348
- upwelling
 - Antarctic region, 114B6:127
 - Arabian Sea W, 117A1:5–6
 - basement, 127A7:389
 - Benguelan system, 208A1:11
 - biogeography, 198B7:15–16
 - biostratigraphy, 117A1:9; 3:40; 4:49; 117B17:296–299; 123B15:313, 315; 127/128B(1)7:105; 16:299; 27:466, 469; (2)80:1283–1284; 144B7:148; 151B12:214; 159B40:551–552; 164B33:338–339; 167B3:67, 103–104; 175A3:67, 69; 4:95, 98; 5:126; 6:159; 9:250–251, 257; 11:320; 12:342, 363; 17:528; 175B3:1–16; 7:5–8; 202A6:10; 9:13–14; 202B6:4
 - calcium carbonate, 117B19:338; 145B20:298–300
 - carbon, 167B11:180
 - carbon isotopes, 115B31:597
 - carbon/sulfur ratio, 117B31:526
 - chronology, 167B10:159
 - Circumpolar Deep Water, 177B(synthesis):11
 - corrected analyses, 127/128B(2)63:990–1015
 - Cretaceous, 113B47:842; 143B2:24–25
 - crustal structure, 127/128B(2)69:1078–1083
 - currents, 146A(2)2:19; 167A(1)1:6–7; 175A1:7–21
 - dark–light cycles, 127/128B(1)33:591–594
 - diagenesis, 168A6:176–177
 - dissolution, 134B13:302–303
 - dolomite, 175B15:1–17; 201B13:9–10
 - ecologic response, 117A3:40
 - Ekman transport, 117A1:6
 - Eocene increase, 113B53:949
 - Eocene/Oligocene boundary, 113B49:875
 - Eocene–Oligocene transition, 189B1:14
 - geochemistry, 168B8:103
 - geographic patterns, 175B(synthesis):41–42
 - glacial–interglacial cycles, 117B6:156; 19:339–340
 - glaciation, 201B15:7–8
 - gyre-margin core-log comparison, 127/128B(2)80:1279–1280
 - halogens, 195B6:9–10
 - humid glacial climate, 117B6:156
 - hydrography, 138B22:512; 175B11:3
 - indicators, 117B19:338–339; 138B34:708–709
 - initiation, 115B38:707
 - Japan Basin N, 127A5:199
 - Japan Sea, 127/128B(1)19:337; (2)80:1279–1280, 1283
 - katabatic winds, 113B9:128
 - lipids, 175B5:1–26
 - lithofacies, 175A16:487–504
 - lithology, 181A8:11; 201A8:13; 9:11–12
 - lithosphere, 152B31:380
 - lower Quaternary, 175B21:1–31
 - magnetic susceptibility, 115B41:767; 117B19:338
 - mantle, 209A1:6–12
 - mass accumulation rates, 159B43:600
 - Miocene, 107B31:505
 - Miocene–Holocene interval, 117A4:47
 - Miocene–Pleistocene interval, 117A3:40–41; 175B6:1–19
 - Northern Hemisphere glaciation, 127A6:271; 127/128B(2)72:1141
 - ocean circulation, 138B33:675; 165A4:154
 - oceanography, 167B32:342
 - Oligocene, 113B53:951
 - Oligocene–Miocene interval, 150B10:181
 - onset, 117A3:40
 - opal, 117A10:303–304; 175B(synthesis):82–83; 4:1–16
 - opal-A/opal-CT transition, 127/128B(1)1:18, 21
 - organic carbon, 117B19:338
 - oxygen isotopes, 121B22:452; 138B13:305–306
 - oxygen minima, 115B31:598–599
 - paleoceanography, 167B3:100; 175A17:505–531; 175B(synthesis):1–102
 - Paleogene interval, 199A1:2
 - pelagic sedimentation, 165A8:379–380
 - phosphorus sources, 144B22:423–424
 - Pleistocene vs. modern processes, 117A13:425
 - Pliocene–Pleistocene interval, 117B5:139
 - pore water, 125B21:375–377
 - productivity, 117B3:55; 18:315, 318; 19:338–339; 23:419; 120B(1)12:175; (2)33:598; 46:867; 121B44:931; 127A6:267; 129B2:39; 175B18:1–24; 178B23:13; 210B8:17
 - Quaternary cyclicity, 117A3:36
 - reduction, 145B21:322
 - resting-spore laminae, 127/128B(1)31:551
 - sapropels, 161B31:409–410
 - sedimentation, 117B19:338; 138B43:846; 175B9:5; 192A3:18
 - sediments, 113B6:76–77; 117A4:47; 117B19:338; 159A1:14–15; 175B10:7; 195A3:35–37
 - serpentinite seamounts, 125B25:426
 - Site 698, 114A5:118, 122
 - Site 704, 114A11:664, 687; 114B11:224, 227; 23:410, 420; 24:438, 449–450; 25:463, 468–469, 472; 26:479; 28:529–530; 36:671–674, 677
 - Site 794, 127A4:127–134, 139; 128A3:102
 - Site 795, 127A5:224–229; 127/128B(2)80:1283

- Site 796, 127A6:290–295; 127/128B(2)80:1283
 Site 797, 127A7:383–391; 127/128B(2)80:1283
 Site 798, 127/128B(2)80:1283; 128A4:181, 205
 Site 799, 127/128B(2)72:1137, 1140; 80:1283;
 128A5:326, 350–351, 359
 stable isotopes, 117B19:337
 strength, 175B21:25
 temperature, 202B1:18
 thermocline, 199A3:14, 19–20
 vs. age, 175B19:16
 vs. loss on ignition, 127/128B(2)80:1291
 vs. porosity, 127A4:140; 7:395; 127/128B(1)1:25–27;
 (2)63:1005; 80:1286, 1290
 wind patterns, 130B23:403
See also Eastern boundary upwelling; endo-upwelling
 upwelling, coastal, sedimentation, 146B(2)21:283, 290,
 292
 upwelling, equatorial
 felsic sediments, 157B3:30–31
 oxygen isotopes, 201B7:5–9
 radiolarians, 129B30:530
 sedimentation, 130B34:574–575
 stable isotopes, 138B39:803–804
 upwelling, monsoonal
 cycles, 117A9:241, 244; 10:298; 117B17:239
 ecologic response, 117A9:243
 effects, 117A1:6, 9; 3:40
 glacial–interglacial cycles, 117B14:269; 35:571
 Himalayan uplift, 117A9:243
 Miocene, 117A9:197
 onset, 117A9:242–244; 117B13:260
 organic content, 117B12:252–253
 planktonic foraminifers, 117B13:259; 17:265
 pollen index gradient signal, 117B14:271
 pressure gradient, 117B1:26
 productivity, 117A1:4; 117B5:138–139
 seasonal variations, 117A1:4; 117B17:291; 32:529
 sedimentary components, 117A4:45
 silica production, 117B5:138–139
 upwelling, thermal, uplifts, 135B11:170
 uralitization, chemical effects, 148B4:49
 uranium
 alteration, 148B10:131; 193B1:19–20, 36–37, 48
 anomalies, 114B34:654; 123B35:639
 anoxic conditions, 115B39:713
 basalts, 130B1:7–10, 14–20; 142B5:37–38
 basement, 173B3:2
 black shale, 198A9:33; 210B8:16; 10:5
 Celebes Sea, 124A10:174–175; 124B42:543–546, 549–
 550
 concentration, 129B34:638; 143A4:76
 diagenesis, 167B23:265–266
 estimation errors, 156B14:194
 Galicia margin W, 103A8:157–160; 9:275, 279, 284;
 10:446–448
 gamma ray intensity, 165A4:190–191
 jasperoids, 193B9:5
 lava, 121B31:602–603
 Little Bahama Bank, 101A6:141, 152
 loss, 166B3:25–27
 mass accumulation rates, 138A(2)15:847
 mineral separates, 158B2:32–33, 37, 39
 natural gamma ray, 156B14:187; 195B12:6–9, 33
 particulates, 202B1:4
 pelagic chalk, 160B32:410
 peridotites, 209B1:17–18
 posttoxic conditions, 157B32:569; 38:631
 radioactivity, 191A4:42
 reference concentrations, 156B14:193
 residual harzburgites, 209B1:32
 sediments, 167B23:264; 171B_B4:4–5; 202A9:20;
 202B8:1–19
 Site 700, 114A7:296; 114B34:651–653
 Site 747, 120B(2)58:1058
 sulfides and sediments, 158B3:44; 169B4:3–5; 193B10:4
 Sulu Sea, 124A11:270–271, 278–279
 uncertainties in laboratory analyses, 156B14:190
 uranium series dating, 134B3:47–48
 volcanic rocks, 161B27:370
 vs. depth, 138A(2)16:9; 139A7:405; 156B14:188;
 160A8:271; 164B15:162; 171B_B4:9; 185B1:28;
 195B12:19; 202B8:14; 206B6:6
 vs. iron, 148B10:142
 vs. loss on ignition, 148B10:141
 vs. phosphorus oxide, 148B10:142
 vs. potassium oxide, 148B10:141
 vs. sulfur, 148B10:142
 vs. thorium, 125B13:248–249
 vs. thorium/uranium ratio, 148B10:142
 See also niobium/uranium ratio; potassium/(thorium
 + uranium) ratio; protactinium-231/uranium-
 235 ratio; radium-226/uranium-234; thorium-
 230/uranium-234 ratio
 uranium-234
 vs. age, 166B3:28
 See also thorium-230/uranium-234 ratio
 uranium-235. *See* protactinium-231/uranium-235 ratio
 uranium-238
 sulfides, 158B9:112
 vs. depth, 169B4:13
 uranium/aluminum ratio
 lithology, 207B8:25
 sediments, 171B_B4:4
 vs. depth, 171B_B4:12
 uranium isotopes, fission track
 age calculations, 116B7:80–91
 apatite, 116B7:75–78
 uranium-lead dating
 gabbros, 180B2:24
 rhyolite clasts, 180B2:10, 27, 33
 zircon, 180B2:6
 See also thorium-230/uranium-234 ratio; uranium-se-
 ries chronology; uranium-thorium dating
 uranium/lead ratio, vs. thorium/uranium ratio, 185B1:28
 uranium logs
 Atlantis Bank, 118A6:178; 118B15:280
 basalts, 144A8:321; 185A3:42; 200A1:17
 black shale, 198A9:33

- comparison of methods, 191B6:5–6
 concentration calculation, 145B46:678–679
 core vs. log correlation, 167A(1)8:197–198
 correlation, 172A5:240; 181A7:46
 cyclostratigraphy, 166B7:85–87; 174A_A5:183–184
 data, 114A11:693–696; 123B33:604; 125A18:335;
 125B39:665; 126A7:216–220; 8:289;
 126B43:655; 130B48:777–779; 133B57:798;
 136B13:154–155; 159B17:173–174; 166A8:199,
 201; 10:324
 formation evaluation, 193A3:95–96
 gouge, 161B25:334
 gypsum, 160A8:263
 igneous rocks, 209A10:40
 lithology, 160B38:485
 logging-while-drilling, 204A3:92
 Maldives Ridge, 115A12:941–942
 Oman margin, 117A11:358–360, 368; 16:526–533
 onshore processing, 149A6:201
 organic carbon, 117A19:623
 Owen Ridge, 117A10:293, 303
 power spectra, 189A5:112
 recording, 134B36:628
 series disequilibrium, 117B28:465–472
 Site 808, 131A6:218–219
 Site 814, 133A(1)7:234
 Site 846, 138A(1)11:309–310
 Site 852, 138A(2)17:1016
 statistical analysis, 159B17:167
 vs. depth, 131A6:236–237; 139A6:275; 143A7:247;
 8:294; 9:355; 144A3:94; 5:196–197; 6:247;
 10:388–389; 145A3:76; 5:184; 6:279;
 146A(1)6:287, 364; 147A3:103; 149A6:204;
 150A10:340–341; 151A7:205; 8:258; 9:302;
 152A9:128; 154A6:217; 8:401; 155A9:227;
 14:267; 20:366; 156A5:86; 157A4:88, 96–102;
 6:167, 177–178; 7:377; 9:472; 10:539;
 160A6:144–147, 150–151; 7:200–202, 208–210;
 8:264–271, 274–277, 282–284; 9:323–324;
 11:404–408; 12:446–447; 14:491; 161A4:101–
 104, 109–110; 5:162–166; 6:266–270, 273, 276;
 7:340–341; 9:415–416; 161B24:322; 164A6:156–
 157; 165A3:94, 104; 4:194; 5:273; 6:339;
 166A6:102–104; 8:198; 9:261; 10:323;
 166B15:160, 162; 167A(1)8:210–211;
 168A6:207–210; 169A3:132; 5:231; 170A3:86;
 4:143–144; 6:212; 7:241; 171A_A3:25; 4:44;
 5:65; 6:83; 7:99; 171B_A4:164; 5:233; 6:315;
 172A5:244; 6:301; 173A4:96; 7:213; 8:260;
 174A_A4:137, 139; 5:185; 175A9:271; 10:311;
 12:383; 13:427; 15:484; 177A8:64; 178A4:89;
 5:84; 9:67; 178B32:19; 179A4:155; 180A5:102;
 6:182–185; 8:99–100; 9:131–134; 12:132–136;
 181A7:110; 9:55; 182A4:77–78; 5:34, 53–54;
 6:80–81; 7:62–63; 8:61, 64; 9:51–52; 10:64–65;
 12:52–53; 183A5:159–160; 7:175–176, 178;
 8:92; 184A4:75; 5:71; 7:68; 9:81; 185A4:138;
 186A4:94; 5:84; 188A3:161; 4:90; 189A3:111;
 5:107, 113; 6:119, 124; 7:98; 190A4:82;
 191A4:115; 191B6:16; 193A3:256; 4:217, 226;
 194A5:76, 80–82; 6:64, 66; 7:105, 107, 111–113;
 9:53; 194B5:30; 195A4:154; 197A3:132;
 198A3:109; 9:87, 89; 199A11:79; 12:90;
 200A4:150; 201A6:71–72; 7:76–77; 9:57; 10:61;
 11:77; 202A9:69; 10:67; 12:69; 203A3:75;
 204A4:91; 6:63; 9:69; 10:84; 11:40; 205A4:161;
 206A3:161, 323; 207A4:71, 74; 5:75; 7:73; 8:70;
 208A4:62; 6:76; 7:120; 10:148
 vs. total organic carbon, 202A9:74
 wavenumber, 178B32:35, 37
See also gamma ray logs; geochemical logs; potassium
 logs; thorium logs
 uranium/molybdenum ratio
 sediments, 202B10:3
 terrigenous input, 202B1:9
 vs. depth, 202B10:6
 vs. oxygen, 202B10:5
 uranium/potassium ratio
 Oman margin S, 117A16:530
 well-logging, 123A4:219; 155A9:227
 uranium-thorium dating
 age models, 166B2:15
 carbonates, 166B6:64–65
 highstands, 166B3:23–31
 uranium/thorium ratio
 alteration, 121B32:624
 basalts, 142B5:37–38
 basement, 206B6:3
 carbonate, 123B8:185
 disequilibrium, 117B28:465–468
 Izu-Bonin forearc, 125B13:248–249
 lava, 121B32:625
 lithology, 150B23:417
 Oman margin S, 117A16:530
 productivity correlation, 117B28:466, 468
 Site 765, 123A4:219
 Site 799, 128A5:366
 volcanic ash, 128A5:339
 vs. depth, 144A5:197; 10:388–389; 155A9:227;
 157A4:91; 157B32:569; 161B24:322;
 164B15:163; 165A3:94; 4:194; 5:273; 6:339;
 171B_B4:13; 189A3:118; 201A10:61; 206B6:7
 vs. lanthanum, 121B32:640
 vs. lead/uranium ratio, 185B1:28
 vs. uranium, 148B10:142
 winnowing effects, 117B28:468–469
 uranium-series chronology
 oceanic crust age, 185B1:14–15
 subsurface basalts, 142B5:37–39
 urea adduction, carbon isotopes, 208B5:6–7
Uvigerina peregrina
 oxygen isotopes vs. age, 175B21:22; 23:42
 Pleistocene, 177B14:21–23
 sediments, 175B21:27–31
 stable isotope stratigraphy, 184B3:1–8; 17:15
Uvigerina spp.
 carbon isotopes, 175B21:7
 Mascarene Plateau, 115A11:855
 oxygen isotopes, 115B31:599–604
 Pleistocene, 133B26:371–374
 sulfide/oxide aggregates, 175B21:7–8
 uvigerinids, hispid, Mascarene Plateau, 115A7:742

V

- vadose environment, air inclusions, 144B48:864
 vadose zone, lithology, 194A5:4
 vaesite, iron-nickel-sulfur-oxygen system, 209A3:97
 Vai-Exxon sequence stratigraphic model, 150B11:217–220
- Valanginian
 anoxic events, 185B1:10
 biostratigraphy, 129B10:205; 11:221–222; 173A7:175–182; 185A4:21; 185B5:5–6; 6:1–17; 191A4:20
 greenhouse effect, 198A1:15
 hydrocarbons, 198A9:27
 lithology, 129A2:44; 129B14:268; 173A8:234–236; 210A3:28
 organic matter, 198A1:62–63
 paleomagnetism, 129B23:435
 reduction, 198A9:16
 rifting phases, 149B1:9–11; 39:627; 210B1:9–11
 sedimentation, 185A1:53; 210B1:25–27
 sediments, 198A9:4
 tectonics, 173A7:216–217
 unconformities, 173B7:14
 Unitary Association zones, 198A9:24
- Valanginian, lower
 biostratigraphy, 198B7:8
 pelagic drape, 173A8:237
- Valanginian, upper
 biostratigraphy, 198B7:8
 lithology, 185A4:15–17
- Valanginian–Albian interval, lithology, 129A3:112
 Valanginian–Campanian interval, 173A8:256–258
 Valanginian/Hauterivian boundary, 123A5:301; 123B38:735
- valine, racemization, 174AXS_A7:27–29
- valleriite, breccia, 173B2:1–9
- valleys, channels, 155A3:31–41
- valleys, transform
 median ridges, 179A4:7
 tectonics, 179B(synthesis):5
- valvulinids, abundance in carbonates, 144B6:131
- van der Waal's interactions, gas hydrates, 146B(1)8:151; 10:175
- van Krevelen diagram, organic matter, 144A5:183
- vanadium
 alteration, 153B10:208; 200A3:31
 amphibolites, 173A6:133
 basalts, 121A11:330, 333; 12:399, 402; 15:527; 130B1:7–10, 14–20; 145A6:220; 195A4:23; 210B9:16
 black shale, 210B8:16; 10:5
 breccia clasts, 173A7:195
 bulk sediments, 199B14:4, 15
 detrital component, 167B23:267–270
 ferrogabbros, 176B12:13
 fine-grained sediments, 210B8:14
 gabbros, 176B6:18–19; 8:4–14; 12:4–5, 14; 179A4:45–47; 205A4:34; 209A6:30; 10:25
 hydrothermal sediments, 199B15:3
 igneous rocks, 209A5:37, 39; 10:26
 igneous units, 163X_A6:22–23
- inorganic sediments, 154B36:509–516
 lava, 183A1:14
 limestone, 143B13:211, 214, 221
 lithology, 121A10:280, 282; 183A4:19; 207B8:10; 210A3:54
 mass balance, 169A3:98
 metalliferous sediments, 138B37:771, 774
 metasedimentary rocks, 152B10:136
 mineral separates, 158B2:30
 mobility, 183B15:9–10
 oceanic anoxic events, 210A3:98
 Paleocene/Eocene boundary, 199B16:3
 peridotites, 153B29:518; 209A3:34; 6:29; 7:22; 9:18–19
 pore water, 116B13:146, 153
 post-oxic conditions, 157B32:567
 quartz gabbros, 180A11:6
 sediments, 167B23:265; 170A3:77; 4:140–141; 6:206; 171B_B4:4–5; 180B6:7, 11, 13, 16; 205B3:4
 serpentinites, 149B30:523
 shipboard vs. shore-based digestion, 206B3:14
 shore-based flux vs. shore-based microwave acid digestion, 206B3:12–13
 Site 784, 125A12:281
 sulfides and sediments, 158B3:45
 Sulu Sea, 124A11:265
 tholeiitic basalts, 192A5:14–15
 troctolites, 209A10:23
 turbidites, 135B10:155–158
 volcanic rocks, 183B17:2
 vs. alteration percentage, 148A2:62
 vs. aluminum oxide, 209A3:139; 5:152; 6:104, 107; 7:96; 9:87; 10:118
 vs. chromium, 141B28:358
 vs. clinopyroxene number, 176B8:25
 vs. depth, 135B7:114; 139A6:224, 226; 139B11:229–250; 148A2:61–62; 3:158; 148B2:15, 19; 10:137; 149A7:235; 149B30:524; 156B13:179, 181; 157B27:454; 160B16:201; 164B15:157; 167B23:268; 170A3:82; 171B_B4:10; 173A6:140; 176B6:49; 179A4:124; 183A4:59; 199B15:6; 16:7; 205A4:114; 206A1:84; 3:197; 210B8:54
 vs. iron oxide, 180B6:38
 vs. loss on ignition, 148B10:140
 vs. magnesium/(magnesium + iron) ratio, 144B28:481, 484
 vs. magnesium number, 148A2:59; 3:156; 176B8:25
 vs. magnesium oxide, 137/140B4:48; 206A1:89; 3:200
 vs. magnesium oxide/(magnesium oxide + iron oxide) ratio, 141B28:360
 vs. nickel, 141B28:358
 vs. niobium, 121A12:402
 vs. platinum + palladium, 147B4:85
 vs. scandium, 209A5:158
 vs. silica, 151B19:360
 vs. subbasement depth, 148A3:159
 vs. titanium, 135B35:599; 183A4:60; 195A1:59; 4:113; 195B2:26; 210B9:57, 60
 vs. titanium oxide, 135B38:643; 176A3:50, 171–172; 176B12:11; 195B4:24; 205A4:115; 205B9:25; 209A5:157; 10:121

- vs. water content, 148A2:62; 3:160; 158B19:265
- vs. zirconium, 157A7:363; 8:418
- xenoliths, 193B6:3
- vanadium, acid-soluble fraction, vs. carbonate, 150B17:318
- vanadium/aluminum oxide ratio, vs. depth, 131B35:444
- vanadium/aluminum ratio
 - lithology, 207B8:25
 - oceanic anoxic events, 210A3:98
 - Oman margin N, 117B23:412–413
 - Owen Ridge, 117B23:412–413
 - sediments, 171B_B4:4
 - vs. age, 184B12:24
 - vs. depth, 157B32:568; 160B17:210, 212; 171B_B4:12; 210A3:280
- vanadium/FMM ratio, vs. aluminum oxide/FMM ratio, 153B10:216
- vanadium oxide, electron microprobe transects, 147B8:164
- vanadium/scandium ratio
 - gabbros, 176B3:3–5
 - vs. sodium number, 176B3:10
- vanadium/titanium oxide ratio, vs. magnesium number, 205B9:26–27
- vanadium/titanium ratio
 - igneous rocks, 209A10:26
 - intrusives, 123A5:326
 - Site 791, 126A7:190
 - volcaniclastic sand/sandstone, 126B31:471, 477
- vanillyls. *See* cynnamyls/vanillyls ratio
- vapor pressure. *See* saturation vapor pressure
- variable-density stack sections, velocity, 178B16:13
- variance density spectra, frequency, 154B7:147–148
- variegated color, photograph, 164A5:71–72
- variolites
 - glassy rims, 168B10:126
 - mass balance, 169A3:96, 98–99
 - pillow lava, 169A3:94
 - petrography, 168B10:120–121
 - photograph, 158B18:247
 - See also* subvariolites
- variolitic basalt. *See* basalts, variolitic
- variolitic diabase. *See* diabases, variolitic
- variolitic texture. *See* textures, variolitic
- varves
 - climate optimum, 178B34:5–6
 - composition, 146B(2)6:77–87
 - laminated diatom ooze, 160B28:358
 - lithofacies, 165B7:131–133, 138–139
 - lithology, 169S_A2:24–25
 - pollen, 146B(2)20:271–275
 - sediments, 165B7:127–128
 - X-radiography, 146B(2)26:333–346; 169S_A2:28
 - See also* laminations
- vegetation
 - Celebes Sea, 124B27:369, 371–372
 - glacial–interglacial cycles, 167B32:361–362
 - Holocene, 202B1:6
 - Neogene, 133B10:115–125
 - Oligocene–Miocene interval, 151B15:289–296
 - paleoclimatology, 155B23:381–396; 167B17:217–226; 20:239–245; 169S_A2:14–15
 - paleoenvironment, 188B1:20–22
 - palynomorphs, 155B23:391; 188B2:10–11; 3:8–9, 11–12
 - phytoliths, 155B25:411–418
 - pollen, 146B(2)20:270–275
 - Quaternary, 133B9:107–114; 161B36:464–466
 - sediments, 145B10:171–176; 167B32:361–362; 175B10:5, 7–10
 - See also* grasses; pollen; paleovegetation
- vegetation index, cold-adapted sedimentation, 155B23:385–388
- See also* paleovegetation; vegetation
- vegetation zones, Africa W, 159B41:558–559
- vein connectivity, histograms, 209A3:93
- vein density
 - alteration, 147A3:73–74; 192A5:17
 - correlation, 169A3:111
 - vs. cumulative piece length, 147A3:78
 - vs. depth, 147B31:498; 153B9:172; 163B4:40; 169A3:104; 169B9:8, 24; 10:10; 185A3:22–23
- vein dip
 - distribution, 169A3:104
 - histogram, 168A4:76
 - structure, 192A3:32
 - vs. depth, 153A3:102, 104; 4:163–164, 166; 5:209; 7:271; 153B3:57; 9:172; 32:557–558; 169A3:105; 173A6:146
 - vs. frequency, 183A6:142
- vein fillings
 - alteration assemblages, 197A4:20, 23; 5:18–19
 - carbonates, 129B17:323
 - chalcedony, 159B1:4
 - mineral chemistry, 147B15:301–302
 - photograph, 197A1:90; 3:104–105
 - sphalerite, 193B3:3
 - vs. depth, 197A3:101–102; 5:73; 6:75
- vein fragments, accretionary prisms, 141B1:5
- vein minerals
 - vs. depth, 192A3:122
 - X-ray diffraction data, 156A6:116
- vein networks
 - magnetic susceptibility, 176B11:15–16, 55
 - massive sulfides, 169B9:1–25
 - photograph, 206A3:274
 - structure, 148B17:250–251
- vein orientation
 - gabbros, 147B28:467, 471–472
 - structure and deformation, 148A3:157
 - vs. stable magnetic declination, 147B28:468–469
- vein shape
 - irregular, 209A3:93
 - kinked, 209A3:93
 - sigmoidal, 209A3:93
 - straight, 209A3:93
- vein strike, vs. depth, 153B3:57; 32:557–558
- vein structures
 - anastomosing, 126B13:198, 201
 - backarc settings, 126B13:205
 - banded, 209A3:93

- beardlike, 126B13:205
- braided, 126B13:196, 198, 206
- composite, 209A3:93
- dip orientation, 126B13:204–205
- distribution, 131B9:127, 129
- fish style, 126B13:195, 200, 204
- formation, 126B13:205–206
- Izu-Bonin forearc, 126B13:195–206
- lithology, 126B13:195
- mixed, 209A3:93
- mud, 126B13:196, 198
- Owen Ridge, 117A10:302–303
- radiolarian content, 126B13:198, 201
- shape and arrangement, 126B13:200–202
- sigmoidal, 117A3:39; 126B13:198, 203–204, 206
- subvertical, 126B13:205–206
- tectonic implications, 126B14:205–206
- uniform, 209A3:93
- X-ray radiographs, 126B13:197
- vein width
 - distribution, 169A3:104
 - histograms, 147B10:192
 - structure, 192A3:32; 5:18
 - vs. depth, 185A1:48, 54; 3:110; 4:111; 192A3:127
- veining
 - phases, 173A6:148
 - retrograde, 173A6:144–145
 - serpentinized peridotites, 153A3:85
 - ultramafic rocks, 147B14:263–264
- veinlets
 - andesine fluid inclusions, 118B9:189
 - folding, 206A3:75
 - Izu-Bonin forearc, 126A10:408
 - lithology, 170A4:104
 - native copper, 173A9:279
 - overpressure, 160B50:668–669
 - petrology, 193A5:5–6
 - photograph, 148A3:147; 149A4:80; 153A3:59, 82–83, 87, 89; 4:138; 5:196, 203, 205; 6:245; 153B22:402; 158A10:181; 161A4:68; 8:368; 183A4:65; 206A3:272
 - photomicrograph, 193B9:16; 206A3:266, 269; 209A10:89
 - plagioclase, 118B9:188
 - pyroxenites, 147B2:37
 - quartz, 193B9:4–7
 - saponite, 206A3:78–79
 - silicification alteration, 193A3:42–47
 - Site 787, 126A5:69
 - Site 792, 126A8:246
 - Site 793, 126A9:333–345
 - sulfide mineralization, 169A3:71
 - troctolites and gabbros, 147B14:269
 - X-ray diffraction data, 200A3:97
- veinlets, anhydrite
 - photograph, 169A3:108
 - structures, 169A4:169
- veinlets, anhydrite-pyrite
 - photograph, 193A3:124, 145, 159
 - photomicrograph, 193A3:205–206
- veinlets, carbonate, photomicrograph, 209A10:95
- veinlets, chlorite, photograph, 169A3:106
- veinlets, chrysotile, photomicrograph, 209A9:61
- veinlets, cristobalite-pyrite, photomicrograph, 193A3:205–206
- veinlets, opaline silica, photograph, 193A3:140
- veinlets, orthopyroxene, photograph, 147B2:46
- veinlets, quartz-pyrite-magnetite, photomicrograph, 193A3:149
- veinlets, serpentine-magnetite, photomicrograph, 209A9:61
- veinlets, sigmoidal, subvertical, 125A12:285, 287
- veinlets, sulfide, photograph, 169A3:105–106
- veinlets, talc-pyrite, photomicrograph, 209A3:79
- veins
 - abundance, 176A3:137; 176B1:9; 183A6:141; 192A3:130
 - alteration, 118B8:171–174; 123A4:173, 190, 192–193; 135B20:317–318; 136A5:79–80; 137/140B14:158; 15:179, 182; 139A7:338–339; 139B10:155–201; 147A3:71–74; 147B10:203; 13:250–251; 15:293–298; 148B10:123; 34:426; 153A3:76–78; 158A7:108–109; 8:161; 10:196–199; 163A5:62–64; 163B13:149–153; 168A4:74–75; 6:174; 168B10:122–123; 176B1:3–6; 6:6; 179A2:5; 183A4:21; 5:39–43; 6:50–52; 7:44; 9:31–35; 185A3:19–20, 23–31; 4:25–26; 187A1:11; 7:5–8; 10:3–4; 13:9–11; 14:4–5; 15:9; 187B1:7–8; 5:7, 11; 192A1:20–21, 26; 3:31–32; 5:17; 6:19; 7:9; 192B6:2–3, 5–6; 193A3:38–41; 4:10–41; 6:6; 193B1:21; 203A3:15–17; 206A1:31–32; 3:66, 68, 71–72, 218; 209A3:16–17; 9:8–11
 - amphiboles, 176A1:15
 - anhydrite, 193A1:26
 - anorthosites, 173A6:141, 143
 - assemblages, 153B9:161–165
 - basalts, 147A3:73–74; 163B4:37–38; 169A5:213, 271; 187A6:7–8; 7:9; 11:10; 192B7:22–28
 - basement, 161B44:565–568; 183A7:19, 37; 9:26; 200A1:51–52; 4:114–115
 - borehole elongation, 147B18:345
 - breccia, 173A4:197–201
 - calcite, 149B33:553–558; 152B9:120; 173A6:126; 9:279
 - carbonates, 168B11:139
 - cataclasites and shear zones, 153A4:162–163
 - chemical composition, 185A3:126
 - clasts, 180A12:26
 - clay minerals, 152B34:418
 - claystone, 159A7:240
 - composition, 148A2:50–53; 3:147; 180A1:8; 185A3:111–112; 209A5:80, 87, 92, 97; 6:65, 71; 7:71
 - compressional wave velocity, 192B7:4
 - contour plots, 153A3:114; 163B4:39
 - convergent margins, 141B8:109–110
 - Cretaceous, 159B2:14, 16
 - crosscutting relationships, 148B18:263; 185A3:23
 - crystallization, 153B10:208–213
 - décollement zones, 156B22:288–289
 - deep copper zone, 169A3:76–78

- deformation, 137/140B20:233–234; 147A4:141–142;
147B13:239–242; 148A2:63–66; 153A3:97;
159B1:9–10; 2:14; 173A9:285–288; 180A6:146;
8:26, 80
- density, 118B26:494–496; 140A2:75; 153B9:165–167;
187A12:9; 209A3:32–33
- diabases, 180A7:14
- dikes, 137/140B24:274–275; 148B8:97–109
- dilation, 193B1:28–29
- dip, 118A6:209; 118B26:492–493, 499, 511; 28:555;
140A2:86–91; 148A3:164; 148B18:271;
176A3:201–203, 244; 193A3:204, 222; 4:178,
190
- distribution, 118B26:506; 148A3:165; 153A4:133;
6:228; 183A4:6; 193A4:177, 189
- electron microscopy, 185B9:26
- epidote, 180A8:17
- equal-area stereographic projections, 148A3:164;
148B18:265
- evolution, 148A3:163
- faults and fractures, 148A3:157–158; 180A6:145
- fill textures, 137/140B20:233
- fluids 148B7:94; 153B21:397; 22:410; 156B17:236–
237
- formation mechanism, 137/140B20:231–243;
140A2:95–96; 148A2:66; 3:154; 176B9:19–22
- Formation MicroScanner imagery, 148B16:237;
197A1:81; 209A10:153
- frequency with depth, 160A7:183
- gabbro sills, 205A4:27–28
- gabbros, 147A1:10–11; 3:72–73; 147B12:228; 28:466–
467, 470; 153A4:162–163; 5:201–202, 207–208;
6:241–242; 7:269–271; 173A9:284; 180A11:8;
205A4:29; 209A3:16
- gas hydrates, 164A8:251, 254
- generations, 147B14:265; 153B3:52
- geochemistry, 156B25:317; 176B9:60–61
- geology, 188A1:7–8
- geometry, 137/140B20:232–233; 169A3:74–76;
173A6:145; 7:203; 180A6:143; 193A3:61, 64;
4:43, 45; 6:7–8
- granite porphyry, 180A7:13
- halos, 192B6:4–5
- harzburgites, 195A3:17; 209A3:13–16
- histograms, 147A3:87; 147B10:203, 205; 148A3:147
- hydrogen isotopes, 147B13:249
- hydrothermal circulation, 169A1:11; 3:73–87;
169B10:9–10, 37
- igneous rocks, 163A4:36
- infrared imagery, 204A8:56
- intensity vs. depth, 176A1:64; 3:200; 209A3:124
- isotopes, 146B(1)7:137–148; 148B5:65; 10:145;
176B1:14
- jasperoids, 193B9:6–7
- lava flows, 163A3:27–28; 5:55
- lithology, 152A9:116; 166A8:178; 170A4:108; 5:195,
197; 171B_A6:257–258; 173A6:128, 130; 7:175–
177; 180A6:28, 36; 8:15–16; 12:8; 183A1:25, 31;
185A3:12; 4:15–16; 192A1:13; 193A3:30–33;
194A9:6; 198A9:13; 210A1:22
- mafic rocks, 153A3:98–100
- magnesium number, 153B12:272
- magnetic fabric, 153B23:422–423
- magnetic susceptibility, 153B32:553
- mantle exhumation, 210B1:14–15
- melt channels, 153B10:211
- meta-anorthosite, 173A6:131
- metamorphism, 153B22:401–404; 195A3:54
- microbial alteration textures, 206A3:86–87
- microstructural characteristics, 148A2:63–64
- mineral composition, 139B38:603; 148B11:155–156;
34:421–428; 153B9:167–170; 30:523–529;
159A6:186; 193A3:62, 203, 209–210; 4:42–45,
173, 186–187; 6:7–8; 200A4:39–40; 209A3:157;
5:176; 6:121; 7:70, 123; 9:67, 104; 10:86–87, 97–
98
- mineral texture, 176A3:19
- mineralization, 118A6:136; 134A4:45
- morphology, 148A3:153–154
- mylonites, 153B2:30
- number vs. depth, 148A2:52, 65; 176B11:57, 59
- olivine gabbros, 153A5:208
- orientation, 140A2:108; 147A4:142–143; 148A2:63;
148B18:263–265; 153A4:163; 173A6:145;
176A3:61
- paragenesis, 193A3:61–65; 4:42–45; 200A4:39
- peridotites, 153B3:35–59; 14:294
- petrography, 147A1:11–12; 147B15:299; 149B34:559–
569; 173A6:132; 176B9:3–8; 187A8:6–7;
200A4:32–33
- petrology, 140A2:72–76; 144B29:499; 147A1:13;
4:130, 133–136; 148A2:46; 3:144–146;
153A3:62–64; 158B1:11–17; 168A5:130–131
- photograph, 137/140B19:227; 20:242–243;
140A2:71–74; 146B(1)6:136; 147A3:74–75;
4:137; 148A2:51; 3:164–165; 148B8:102;
17:253–254; 149A4:80; 6:174–175; 7:240;
153A3:70, 83, 87–92, 96–100, 105; 4:134, 138–
139, 144, 155–158, 163; 5:183–184, 190, 198,
201, 203; 6:225, 243; 7:268, 270; 153B1:12, 15;
3:39, 45–56; 9:160; 22:403; 156A6:117; 7:219;
158A8:148, 157–158, 161; 10:181, 185, 197;
11:217–218; 158B18:247–251; 159A6:172;
160A8:248; 161A6:231; 165A6:327; 168A5:130–
131, 136; 169A3:73–79, 100; 5:218; 169B10:36–
37; 173A6:129; 7:189–190; 180A5:54; 6:130;
11:28, 30; 12:102, 104; 183A1:91; 4:43, 63–64;
5:131; 7:140, 142, 145; 9:76–77, 79, 103–105;
185A3:79, 113, 115; 187A14:24; 192A7:45;
193A3:213–214; 4:182–183; 194A7:63;
195A3:140–142; 4:101–102; 197A1:21, 80;
3:128; 198A9:67; 200A4:98, 103; 205A4:87–88,
91, 93–96, 100–101, 104; 206A3:213, 218–219,
224, 231–232, 269, 273–274; 209A3:95, 129
- photomicrograph, 160B45:594; 161B3:56;
168A5:136–137; 168B10:136; 173A9:288;
180A8:65, 76, 79; 11:16, 29; 12:91; 180B3:28;
183A5:106; 7:126; 185A4:84; 187A10:10–11;
191A4:107; 192A3:119–127; 5:80, 91; 6:79;
193A1:82; 3:205–206; 6:20; 193B9:20;
198A9:68; 200A3:102–103; 205A1:58, 61;
206A3:205–212, 225, 269–270, 309; 209A3:94

- physical properties, 192B7:7–8
pillow lava, 169A3:94
poles superimposed on Kamb-contour plot, 148B16:233
postkinematic minerals, 118B8:166
pyroxenites, 209A3:16–17, 157
quartz, 158A8:144
rare earths, 158B12:155–159
reorientation, 137/140B21:248–249; 147A3:88–89; 206B11:14–26
replacement minerals, 149B31:532
scanning electron micrograph, 147B13:242
secondary minerals, 137/140B15:189; 180B3:8; 206A1:93–94
sediments, 159A5:100–101; 159B2:16
serpentines, 149B22:406
serpentinite muds, 125B36:609
serpentinization, 125A8:164–165; 149A4:88–90; 173A7:192–193; 9:280–282; 195A3:138–139; 209A3:17
shape histograms, 209A3:93
shear wave velocity, 149B24:428–429
sills, 139B6:94; 169A3:93
Site 786, 125A14:331
Site 892, 146A(1)7:326
Sites 504 and 896 comparison, 148B18:271–272
spreadsheets, 176A1:38
stable isotopes, 149B33:557
Stage E, 159B8:77
stereographic projection, 153A3:104; 153B32:557
structure, 118B8:172–173; 147A3:83, 85–87; 147B32:516–529; 148A3:151–155; 148B16:231–233; 17:250–257; 18:261–266; 159A8:280–281; 169A3:107–112; 5:216–217; 6:272–273; 180A5:22–23; 6:41–43; 183A4:22–23; 187A13:12; 14:5–6; 190A4:10, 54; 8:10; 193A1:15, 59–65; 206A1:32–33; 3:75–76; 209A3:93
sulfides, 158A11:211
sulfur isotopes, 158B1:19–21; 5:76
synlithification, 159B2:17
temperature, 153B9:167–170; 176B9:17–19
textures, 158B15:195
thermal anomalies, 204A7:47
thermal conductivity, 158B24:332
thickness, 149A6:168; 193A3:203, 221; 4:177, 189
thin sections, 148A2:52, 64–65
timing and conditions of alteration, 209A3:17–18
timing of events, 209A3:96
tochilinite, 173B2:7
transform faults, 159A9:303
troctolites and gabbros, 147B14:268–269
types, 176A3:267; 176B9:27, 38; 185A4:170–171; 206A3:76–78
underthrust section, 170A4:113–115
volcaniclastic sand, 180B7:7
volume percentage, 148A2:49; 209A3:92
vs. depth, 148A3:146; 148B18:270–271; 35:438–443; 152A9:134; 153A3:101, 103; 6:250–251; 158A7:81–83, 89; 160A8:244; 163B13:152–153; 176A1:58; 3:149; 176B9:28; 183A4:62, 66; 5:128–129, 138–139; 6:140; 9:98–99; 185A1:48, 54; 3:110; 4:111; 192A5:95–96; 205A4:87–88, 93–98, 100–104; 206A3:204, 248–249
vs. proportion of massive units, 148B35:442
websterite, 153B16:329
well-logging, 148A2:118; 3:190; 163B13:149–153
X-ray diffraction data, 147A4:135; 153A3:86; 156A7:225; 173A7:194, 196; 176A3:144–145; 200A4:37–39, 116–120
zeolite and prehnite, 176A1:16
See also apophysis; breccia; chabazite; clasts; fracture + vein density; illite; iron oxyhydroxide; microveins; paleoveins; saponite; slickensides; vein fillings; vein fragments
veins, actinolite
dip, 148B16:232
petrology, 148A2:49–51
photograph, 153B9:165, 167
secondary minerals, 148B6:85
structure, 148B16:231–233
veins, actinolite-chlorite
downhole variations, 153A6:250–251
gabbros, 153A4:162; 5:202, 207; 6:242; 7:269–270
photograph, 153B9:167–170
veins, alteration
deformation, 209A6:25–26
description, 209A7:10–11
dip, 209A3:125–126; 5:27–28, 126; 7:85; 10:111
distribution and orientation, 209A10:20–21
gabbros, 209A3:27–28; 5:27–28
generations, 209A9:15–16
harzburgites and dunites, 209A5:23, 31–32
igneous rocks, 209A7:16–17
intensity, 209A6:98–99; 7:84; 9:72; 10:106, 108
orientation, 209A3:136; 6:26
photograph, 209A6:45, 93; 7:83; 9:78–79; 10:109
stereo plots, 209A5:127, 132, 143–144
vs. depth, 209A3:124, 140; 5:124, 140
veins, amphibole
abundance, 176B1:9
assemblages, 153B9:162
Atlantis II Fracture Zone, 118B26:499
composition, 118B27:545; 176B9:43
crosscutting relationships, 118B9:187; 26:504
deformation, 118A6:136; 118B26:504; 140A2:112; 147B13:239; 176A3:67, 212
density, 118B9:186
dip, 176A3:201
Galicia margin, 103B16:243–244
lithology, 209A5:4
mineral chemistry, 118B9:208; 27:543
oblique slip, 118B26:497
orientation, 118B26:505–506; 147B10:204
oxygen isotopes and hydrogen isotopes, 147B14:280
petrography, 176B9:4–5
petrology, 137/140B18:210–213
photograph, 147B10:210, 211; 13:254; 153B9:164–166, 174; 176A1:60; 209A10:88–89
photomicrograph, 176A3:194; 209A5:55; 6:85; 10:89
proportion vs. total veins, 176A3:150
Site 504, 137/140B20:236

- Site 735, 176A3:43
slip direction bimodal distribution, 118B26:501
vein type vs. red-brown amphibole type, 118A6:136
vs. depth, 147B31:498; 176A1:58; 3:149, 211
See also veins, hornblende
- veins, amphibole-chlorite
assemblages, 153B9:162–164
photograph, 153B9:168
- veins, analcime
actinolite inclusions, 118B8:166
alteration, 148B35:443
Ohmachi Seamount, 126B12:189
- veins, anastomosing
deformation, 209A6:25–26
hydrothermal alteration, 209A6:13
lithology, 210B9:11–13
photograph, 210A4:25
photomicrograph, 193A4:142
- veins, anhydrite
alteration, 193A3:41; 193B1:58
petrology, 158A7:68, 81–83; 11:211; 158B1:22;
28:392; 193B1:17
photograph, 158A7:75–76, 86, 91, 98–109, 120;
158B5:84; 12:147–149; 169A3:85; 193A3:215;
4:92, 133, 181, 184
photomicrograph, 193A3:174
separates, 193B7:16–23
strontium and sulfur isotopes, 193B1:30–32
- veins, anhydrite-pyrite-silica-magnetite
parageneses, 193A3:53
structure, 193A3:59–60
- veins, aragonite
deformation, 209A6:25–26
generations, 209A9:10–11
hydrothermal alteration, 209A6:14
isotopes, 147B16:311–313
photograph, 148A3:146; 201A8:33; 209A5:100; 9:64
stereographic projection, 148A3:165
Site 779, 125A7:128, 137
- veins, barite
deformation, 159B2:14
sediments, 159A5:100–101
sketch, 159A5:101
- veins, basaltic andesite, petrology, 135B37:616
- veins, bastite, photomicrograph, 209A3:94
- veins, black-green serpentine, dip vs. depth, 209A7:85
- veins, breccia, magnetic susceptibility, 176B11:15–16
- veins, brown amphibole, genesis, 209A5:19–20
- veins, brown clay-carbonate, photograph, 209A10:110
- veins, brown clay-iron oxyhydroxide-carbonate, photograph, 209A10:110
- veins, brucite, petrography, 147B15:299
- veins, calcic amphibole, composition, 147B10:194
- veins, calcite
alteration, 183A8:20–22; 185A3:20, 29–31; 187A1:11;
6:6–7; 8:8
amphibolites, 173A6:130–131
basalts, 144B29:497
basement, 149A4:108–112; 7:239–240
breccia, 149A6:168–169; 173A4:198–199; 7:194–195
claystone, 159A7:240; 159B1:6–7
composition, 149B33:553–558; 34:559–569
conjugate sets, 173A6:145
deformation, 159B1:5–6; 11:106
dip, 173A6:145–146; 183A4:22–23
distribution, 149A6:170–172, 187–188
fabric, 149B36:581–583
faults, 159A8:279
fluid inclusions, 210B5:13–14
geochemistry, 159B8:71–79
lithology, 163X_A5:4; 173A6:129; 7:176–177;
176A3:43; 190A8:9; 194A4:10; 210B9:7–8
Lower Cretaceous, 159B2:17
mineralogy, 159A6:186
oceanic crust, 124B17:237
petrology, 136B10:123; 11:135; 138A(1)10:208;
180A11:4
photograph, 144A3:80; 4:134; 6:240; 146A(1)7:332;
149A4:88; 6:167, 184, 187–189; 7:239;
149B34:561–568; 35:589; 159A8:266, 280;
170A6:200; 173A7:178, 200; 180A5:54; 10:39;
12:102; 183A9:100–106; 187A4:14–15; 6:24–26;
7:23; 8:39; 11:22, 24, 29–30; 14:20–21;
192A5:76; 7:45; 210A3:238; 4:20, 27–28;
210B9:48
photomicrograph, 180A8:77–78; 11:25; 12:91;
187A1:39; 6:21, 28, 31–32; 11:29; 14:22;
187B5:19; 192A5:92–93; 6:79; 197A3:78
sediments, 159B2:16
strontium isotopes, 144B25:454–455
structure, 159A8:280–281; 180A10:13
thickness vs. depth, 149A6:168
volcanic rocks, 183B17:1
volcaniclastic rocks, 119A7:244
vs. depth, 183A4:66
- veins, calcite + pyrite, sill/sediment contacts, 210A3:66
- veins, calcite-smectite
photograph, 192A5:84, 94
X-ray diffraction data, 200A4:39
- veins, calcite-zeolite, photograph, 180A12:102
- veins, calcium silicate, static alteration, 118A6:86
- veins, carbonate
abundance, 176B1:9
Atlantis Bank, 118B9:186
breccia zone, 118B8:173, 175
calcite spar, 112B1:14
composition, 206A1:31–32; 3:72; 209A5:92
crosscutting veins, 118B27:552
décollement zones, 156B5:79–96
deformation, 209A6:25–26
dip, 148B18:265; 176A3:202; 209A6:100; 9:80
generations, 209A9:10–11
genesis, 209A5:20
geochemistry, 156B5:85–87; 29:356; 206B10:1–6
harzburgites and dunites, 209A5:17
history, 148B35:448
isotopic values, 121B22:453–455
mineralogy, 156B5:84–85
origin, 112B1:10; 136B10:124–125; 146B(1)6:127
Peru margin, 112B1:4, 14
petrography, 176B9:7
petrology, 148A3:145; 176A3:43; 176B1:4

- photograph, 148A3:161–163; 156B5:82–91;
 176A3:162; 209A10:109
 photomicrograph, 168B11:147–148; 183A8:56;
 209A5:93
 proportion vs. total veins, 176A3:150
 Site 896, 148B11:155–156
 structures, 183A5:44
 temperature of formation, 121B22:453
 types 1–4, 156B5:80–84
 vs. depth, 148B35:438; 176A1:58; 176B9:28;
 185A4:112; 206A3:248–249
 X-ray diffraction data, 148B19:283; 200A4:38
 veins, carbonate + clay
 dip histograms, 148B18:265
 orientation and distribution, 148B18:264
 poles, 148B18:266
 veins, carbonate-iron oxyhydroxide, photograph,
 209A10:109
 veins, celadonite
 alteration, 185A3:20–21, 29–31
 composition, 206A3:71–72
 photograph, 206A3:251
 vs. depth, 206A3:248–249
 veins, celadonite + goethite, photomicrograph,
 192A3:120–121
 veins, chalcedony
 alteration, 185A3:21
 photograph, 185A4:78
 veins, chalcopyrite, photograph, 209A5:88
 veins, chlorite
 abundance, 176B1:9
 alteration, 187A11:9–10; 209A3:16
 amphibolite clasts, 173A7:190–191
 assemblages, 153B9:164
 composition, 147A3:72–73, 86; 4:134
 density, 140A2:74
 dip, 148A2:63; 148B16:232; 173A6:146
 gabbros, 153A5:202; 6:242
 lithology, 173A6:129; 190A8:9
 meta-anorthosite clasts, 173A7:191
 occurrence, 103B16:245; 137/140B18:210;
 139A7:338–340; 140A2:74
 petrography, 147B15:299; 176B9:7–8
 photograph, 153B9:168, 170; 158A7:118; 169A3:92;
 176A3:164
 photomicrograph, 173A6:145; 180B7:53–54
 Site 504, 148A2:50–51
 Site 896, 148B18:269–270
 stereographic projection, 148A3:165; 173A6:146
 structure, 140A2:90–91; 148B16:231–233
 volcaniclastic sand, 180B7:7
 volume percentage of minerals, 209A3:92
 vs. depth, 176A1:58; 3:149; 176B9:28; 209A3:91
 veins, chlorite-actinolite, structure, 148B16:231–233
 veins, chlorite-amphibole, deformation, 140A2:113
 veins, chlorite-calc-silicate
 alteration, 147B10:196–197; 28:467
 composition, 147B10:201
 orientation, 147B10:200, 204
 photograph, 147B10:200, 212
 vs. depth, 147B31:498
 veins, chlorite-iron oxides, assemblages, 153B9:164–165
 veins, chlorite-plagioclase-quartz, assemblages,
 153B9:164–165
 veins, chlorite-prehnite
 assemblages, 153B9:164–165
 photograph, 147B13:239, 241
 veins, chlorite-prehnite-clay, alteration, 147B13:238–239
 veins, chlorite-quartz, photograph, 153B9:171
 veins, chlorite-saponite mixed-layer minerals, alteration,
 127/128B(2)55:886–887
 veins, chlorite-smectite
 abundance, 176B1:9
 alteration, 147B10:197; 28:467
 composition, 147B10:201
 orientation, 147B10:200, 204
 petrology, 176B1:4
 photograph, 147B10:202, 212
 vs. depth, 147B31:498
 veins, chrysotile
 dip, 209A7:85
 generations, 209A9:9–11
 harzburgites and dunites, 209A5:16–17
 hydrothermal alteration, 209A5:12
 microfolding, 173A7:204
 photograph, 195A3:82, 90–91; 209A6:93; 9:78–79
 photomicrograph, 195A3:92; 209A3:81, 94; 5:79, 90,
 99
 serpentinites, 209A3:11
 Site 779, 125A7:128, 135
 veins, chrysotile-magnetite
 hydrothermal alteration, 209A5:12
 photomicrograph, 209A3:75
 veins, clastic
 cores, 141A6:99
 photograph, 149A6:189
 veins, clay
 dip, 148B18:265
 gabbros, 147A3:72–73; 4:134–135
 orientation and distribution, 148B18:264
 petrology, 148A3:145
 photograph, 148A3:146, 161
 stereographic projection, 148A3:165
 structures, 183A4:22–23
 vs. depth, 183A4:66
 X-ray diffraction data, 200A4:38
 well-logging, 171A_A3:29–31
 See also veins, carbonate + clay
 veins, clay minerals
 alteration, 123A5:322–323
 gabbros, 153A7:270–271
 veins, clay-pyrite, petrology, 148A3:145
 veins, clay-zeolite-calcite, photomicrograph, 168A5:137
 veins, clinopyroxene, Costa Rica Rift, 137/140B20:236
 veins, composite
 assemblages, 153B9:164–165
 glassy rims, 168B10:126
 photomicrograph, 206A3:278–280
 veins, composite green-black serpentine
 dip vs. depth, 209A6:100
 stereo plots, 209A6:101
 veins, composite serpentine, photograph, 209A7:83

- veins, concentric, massive alteration, 168B10:129
- veins, conjugate set
 Atlantis Bank, 118A4:106
 photograph, 206A3:276
 types and geometry, 206A3:77
- veins, crack-seal
 serpentinization, 153B3:51–52
 structure, 148B17:256–257; 19:281–288; 169A3:111;
 169B10:10, 37
- veins, cristobalite-anhydrite-pyrite, photomicrograph,
 193A3:174; 193B6:13
- veins, crosscutting
 deformation, 137/140B20:234
 distribution, 140A2:96–97, 114–116
 gabbros, 147B10:191
 photograph, 147A4:135; 209A3:95; 7:83; 10:109, 110
- veins, crustiform-banded, photograph, 158A7:98–103
- veins, dendritic, volcanoclastics, 152B9:122
- veins, diopside
 Atlantis Bank, 118B8:166, 180; 26:504
 dip orientation, 118B26:502
 fluid inclusions, 118B9:197
 hydrothermal origin, 118B27:546
 olivine gabbros, 118B26:466
 petrography, 176B9:6
 proportion vs. total veins, 176A3:150
 temperature of formation, 118B28:545
 titanite photograph, 176A3:153
 vs. depth, 176A3:149; 176B9:28
- veins, diopside + amphibole, 176A3:42–43
- veins, diopside-hornblende-plagioclase, 118B8:175
- veins, dioritic
 alteration, 153A4:157
 photograph, 176A3:154
- veins, dolomite
 alteration, 183A8:20–22; 187A1:11
 photograph, 187A13:34
 photomicrograph, 187A13:37
- veins, en echelon
 assemblages, 153B9:164–165
 photograph, 153B9:168; 169A3:80
- veins, epidote
 alteration, 148A2:50–51, 63
 amphibolite clasts, 173A7:190–191
 assemblages, 153B9:164–165
 clasts, 173A7:200
 conjugate sets, 173A6:145
 dip, 173A6:145
 folds, 173A6:143–144
 gabbros, 153A5:208
 occurrence, 147A3:72–73
 petrography, 176B9:7–8
 photograph, 149A7:239; 176A3:165
 photomicrograph, 180B7:53–54
 stereographic representation, 173A6:146
 volcanoclastic sand, 180B7:7
 vs. depth, 153A6:251
- veins, epidote-clay minerals, photograph, 153B9:167
- veins, epidote-prehnite, gabbros, 153A5:202; 6:242
- veins, epithermal, hydrothermal solutions, 157B26:436
- veins, extensional, structures, 131A6:120; 169A3:107–
 112; 169B9:4–9
- veins, felsic
 alteration, 118B26:504–505; 153A4:157; 176A3:151–
 152; 209A10:13–15
 assemblages, 153B9:161–162
 Atlantis II Fracture Zone, 118B26:448
 chemical composition, 176B8:13–14; 9:33
 deformation, 176B11:18–20
 dip orientation, 118B26:502
 gabbros, 153A4:162; 5:207–208; 176B8:7
 intensity, 176A3:131
 lithology, 176A3:21, 28–29, 41–42; 176B(synthe-
 sis):10–11; 179A4:31–34; 179B(synthesis):63
 magmatic structures, 176A3:59
 magnetic susceptibility, 176A3:226; 176B11:11–15,
 48, 50–51
 olivine gabbros, 118B26:466
 origin, 118A6:119; 118B27:546; 176B8:9–10
 oxide gabbros, 176B11:17
 paragenesis, 118B26:503
 petrography, 176B9:3–4; 179A4:38–41
 petrology, 179A4:30–42
 photograph, 153A4:157–158; 5:198; 6:245;
 153B9:161; 22:401; 176A1:59; 3:132;
 179A4:106, 144; 209A10:91, 93, 110
 photomicrograph, 176A3:194; 176B9:62–63;
 209A10:93
 plagioclase, 176B10:9–11
 proportion vs. total veins, 176A3:150
 structure, 179B(synthesis):7
 trondhjemitic appearance, 118B26:504
 vs. depth, 153A6:250; 176A3:149; 176B9:28;
 179A4:97
 zoned mineral assemblages, 118B27:545
- veins, felsic magmatic, petrology, 153A4:134
- veins, fibrous
 dip, 148A3:164
 photograph, 148B19:287–288
 stereographic projections, 148A3:165; 148B18:267;
 19:282
 structure, 148A3:152–153; 148B17:256–257; 18:261–
 262
 types, 148B19:282–284; 206A3:77–78
- veins, fibrous calcite-clay, photomicrograph, 168A5:136
- veins, fissure, thaumasite, 129B4:131
- veins, folded, photograph, 209A5:90; 210A3:244
- veins, fracture, photograph, 170A3:62
- veins, gabbroic
 alteration, 209A3:12–13
 photograph, 153A3:70, 72, 83–85; 209A3:122; 5:90,
 107, 134–136, 142; 209A6:89
 photomicrograph, 173A9:284; 209A6:84, 94
- veins, gas hydrates
 computed tomographic analysis, 204B21:3, 7
 photograph, 201A11:81; 204A8:43–46, 62
- veins, ghost
 Lima Basin, 112B3:35, 41
 origin, 112B1:9–10
 Peru margin, 112B3:34–35
 photograph, 209A3:95

- photomicrograph, 209A3:94
- Site 680, 112B3:41
- veins, glass, lithology, 170A3:60
- veins, glauconite, secondary minerals, 180B3:8
- veins, granophyre
 - photomicrograph, 209A10:77–78
 - stereo plots, 209A10:112–113
- veins, green amphibole, Atlantis Bank, 118A6:105
- veins, green amphibole-chlorite, 209A10:110
- veins, green picrolite serpentine, photograph, 209A6:93
- veins, gypsum, photograph, 134A12:432; 13:495
- veins, hairline, photomicrograph, 192A3:115–116
- veins, harzburgite, Site 779, 125A7:128
- veins, hematite, harzburgites and dunites, 209A5:16–17
- veins, high-temperature microscopic
 - occurrence, 176B4:25, 43–44
 - origin, 176B4:12–13
 - petrography, 176B4:6–9
 - photomicrograph, 176B4:28–30, 39–40
 - vs. depth, 176B4:22
- veins, hornblende
 - Atlantis Bank, 118A6:136; 118B27:549
 - dip orientation, 118B23:414; 24:427
 - ductile deformation and density, 118B8:171
 - mineralogy, 118B8:177
 - See also* veins, amphibole
- veins, hornblende-actinolite-chlorite, photograph, 153B9:168
- veins, hornblende-andesine, alteration, 118B9:212
- veins, hornblende-plagioclase, mineralogy, 118B5:114
- veins, hydrothermal
 - alteration, 176A3:41–45
 - Atlantis Bank, 118A6:105; 118B26:502
 - bulk-rock and mineral chemistry, 153B10:199–205
 - carbonates + pyrite + clay minerals, 153A3:80
 - distribution and orientation, 153B3:44
 - formation, 118B9:208, 212
 - gabbros, 153A3:85–86; 5:201–202; 6:242
 - inclination, 118B27:545
 - magmatic veins, 153A3:85–86
 - mineralogy, 153A7:267
 - nonsynkinematic veins, 118B24:427
 - petrology and structure, 153B9:155–178
 - photomicrograph, 173A9:283
 - serpentine + amphibole + chlorite + talc, 153A3:79
 - serpentine + carbonate + pyrite + clay minerals, 153A3:79–80
 - serpentine + magnetite, 153A3:79
 - serpentinization, 153A3:79–80; 153B3:39–44
 - X-ray diffraction data, 153B3:50
- veins, hydrothermal, stages, 118A6:138; 159B11:104–105
- veins, igneous-hydrothermal, composition, 176B9:1–66
- veins, iron oxide, vs. depth, 206A3:248–249
- veins, iron oxyhydroxide
 - alteration, 185A3:21
 - composition, 206A3:72
 - dip, 148A3:164; 148B18:265
 - genesis, 209A5:20
 - petrology, 148A3:145
 - photograph, 206A3:251
 - vs. depth, 148B35:438; 185A4:112
- veins, kaolinite
 - microfolds, 159B1:5
 - photograph, 159B7:68
 - sediments, 159B2:16
 - thermal history, 159B5:45
- veins, late magmatic
 - basalts, 206A3:63–64; 206B5:5–6
 - inclination, 118B27:545
 - photograph, 206A3:208
 - photomicrograph, 206A3:192–193, 222
- veins, leucocratic
 - deformation textures, 153B6:105
 - diopside-plagioclase association, 118B8:168
 - mineralogy, 118B8:155
 - petrology, 153A6:226; 153B4:68–71
 - photograph, 153B5:79; 6:121
 - replacement minerals, 118B8:172–173
 - seawater hydration, 118B9:209
 - zircon, 118B8:155, 163, 165, 172
- veins, leucocratic diopside-bearing
 - Atlantis Bank, 118B9:186, 198
 - fluid inclusions, 118B9:204–205
 - isotopic composition, 118B9:207
 - petrography, 118B9:188–189, 215
 - petrology, 118B9:206
 - temperature of mineral formation, 118B9:211–212
- veins, leucocratic gabbro, photograph, 179A4:146
- veins, lithic, alteration, 187A8:8
- veins, lizardite
 - alteration, 209A3:27–28
 - microfolding, 173A7:204
 - photograph, 209A3:121, 127
- veins, macroscopic
 - alteration, 147B10:195–197; 13:239–242; 28:466–467
 - gabbros, 147B10:195–199
 - orientations, 147B10:199–201
- veins, magmatic
 - alteration, 176A3:41–45
 - brittle structures, 179A4:54–56
 - contour plots, 205A4:126
 - deformation, 173A9:290; 209A6:20
 - dip, 173A6:146; 176A3:201; 209A3:131
 - early series, 209A3:28–29
 - gabbroic intrusions, 209A3:29–30
 - gabbros, 153A5:201; 6:241–242
 - hydrothermal veins, 153A3:85–86
 - intensity, 209A3:123
 - lithology, 210A4:8
 - orientation, 209A3:132; 6:22, 83
 - petrology, 153A5:187–190; 179A4:37
 - photograph, 153A6:246; 209A3:101, 121; 10:109
 - pyroxene gabbro, 205A4:125
 - pyroxenite and gabbro, 209A5:22, 29–30
 - stereo plots, 209A5:132
 - ultramafic samples, 153A3:72
- veins, magnesian chlorite, composition, 147A4:134
- veins, magnetite
 - photomicrograph, 209A3:74
 - textures, 209A5:21–22

- veins, massive sulfide
 - alteration, 209A3:13–14
 - dip, 209A3:125–126
 - volume percentage of minerals, 209A3:92
- veins, massive talc
 - alteration, 209A3:14–15
 - dip, 209A3:125–126
 - volume percentage of minerals, 209A3:92
- veins, metagabbroic, photograph, 153A3:84
- veins, metamorphic
 - alteration, 209A3:13–18; 5:13–19; 6:11, 14; 10:13–15
 - composition, 147B31:497–513; 209A9:9–11
 - gabbros, 209A5:17
 - harzburgites and dunites, 209A5:16–17
 - photomicrograph, 209A5:84
 - vs. depth, 209A3:91
- veins, micritic calcite, photomicrograph, 187A8:34–36, 40–42, 44–45
- veins, microgabbro, photograph, 153B9:160
- veins, microscopic
 - alteration, 147B13:237–238; 28:466
 - composition, 147B10:193
 - distribution in grain-boundary regions, 147B10:193
 - gabbros, 147B10:191–193, 195, 198
- veins, mineralized
 - alteration, 129B22:425; 131B16:198–199
 - basaltic rocks, 131A6:155–156
 - calcite, 131A6:196
 - chemical profiles, 131B7:90
 - overpressure, 131B7:89
 - photograph, 190A4:54
 - Site 800, 129A2:68
 - Site 801, 129A3:136, 142
 - Site 802, 129B4:125
 - tubular-cylindrical structures, 131B32:406
 - volcaniclastic sandstone, 129B7:173
- veins, monomineralic, pyroxene, 118B8:169
- veins, mud, photograph, 162A9:306
- veins, mud-filled
 - décollement zone, 171A_B3:6–7
 - vs. depth, 171A_A6:88
- veins, mylonite gabbro, photomicrograph, 209A5:130
- veins, mylonitic gabbroic/pyroxenitic, 209A5:133
- veins, oxide
 - deformation, 209A6:25–26
 - photograph, 209A6:93
 - vs. depth, 209A3:91
- veins, nacrite, thermal history, 159B7:66
- veins, natrolite, Torishima Forearc Seamount, 125B25:423
- veins, nonfibrous
 - structure and deformation, 148A3:152
 - true dip histogram, 148A3:164
- veins, oceanic crust, lead isotopes, 121B31:597
- veins, olivine gabbro, photograph, 176A1:54
- veins, oxide gabbro, cutting oxide-free olivine gabbros, 118B26:462, 464
- veins, palagonite
 - alteration, 187A11:9–10
 - photograph, 187A11:27
- veins, paragrannular and transgranular chrysotile, vs. depth, 209A9:68
- veins, paragrannular serpentine, vs. transgranular serpentine veins, 209A5:102
- veins, phillipsite, photograph, 156A7:219
- veins, picrolite
 - hydrothermal alteration, 209A6:14
 - photograph, 209A9:78–79; 10:109
- veins, plagioclase
 - Atlantis Bank, 118B26:504
 - composition, 161B19:268–269; 176A3:42; 176B9:35–36
 - petrography, 176B9:3–4
 - photograph, 153A4:128
 - proportion vs. total veins, 176A3:150
 - vs. depth, 176A3:149
- veins, plagioclase-amphibole
 - Atlantis Bank, 118B27:551
 - crosscutting relationship, 118B9:187
 - density, 118B9:186
 - formation, 176A3:42; 176B9:18–19, 37
 - petrography, 176B9:5
 - photograph, 176A3:155–156
 - photomicrograph, 176B9:62–64
 - proportion vs. total veins, 176A3:150
 - vs. depth, 176A1:58; 3:149; 176B9:28
- veins, plagioclase-diopside
 - Atlantis Bank, 118B26:504
 - chemical composition, 176B9:34
 - oxygen isotopes, 118B8:171
 - petrography, 176B9:6, 18–19
 - photograph, 176A1:59; 3:157
 - photomicrograph, 176B9:62, 64
 - Site 735, 176A3:42–43
 - temperature of formation, 118B26:506
 - vs. depth, 176A1:58; 176B9:28
- veins, plagioclase magmatic, photograph, 210A4:28
- veins, plagioclase-quartz, photomicrograph, 176B9:62
- veins, postkinematic
 - pyroxenite, 209A3:105
 - serpentine, 209A3:105
- veins, prehnite
 - petrology, 176A3:44–45; 176B1:4
 - composition, 147A3:72–73, 78–79, 86; 4:136; 147B20:364, 366
- veins, pyrite
 - accretionary prisms, 141B1:5
 - alteration, 185A3:21
 - composition, 206A3:72
 - mineralogy, 159A6:186
 - petrology, 159A7:240
 - photograph, 169A3:68, 105
 - photomicrograph, 206A3:250
 - sediments, 159A5:101; 8:280–281; 159B1:4–5
 - vs. depth, 206A3:248–249, 255
- veins, pyrite-anhydrite
 - lithology, 193A4:15–23
 - photograph, 158A7:93; 193A1:58–60; 3:121, 207
 - photomicrograph, 193A1:54, 57; 3:175–176, 205–206, 212
 - structure, 193A3:60

- veins, pyrite-hematite
 - photograph, 209A3:95
 - photomicrograph, 209A3:94
- veins, pyrite-quartz
 - lithology, 158A10:178; 193A4:15–23
 - photograph, 158A7:118–122, 130; 193A1:74; 3:211; 4:73, 172, 174
 - photomicrograph, 193A3:146, 148, 218; 4:122, 124, 171, 175–176
- veins, pyroxenite
 - digital images, 209A6:89
 - hydrothermal alteration, 209A5:12
 - photograph, 209A3:104, 130; 5:134–136
 - photomicrograph, 209A5:59
- veins, pyrrhotite, photograph, 169A3:109; 204A6:35
- veins, quartz
 - alteration, 139A7:497–499; 185A3:21
 - deformation, 159B11:106; 161A6:221–223
 - folds, 159A8:279
 - high-grade schist, 161A6:215
 - hydrothermal fields, 193B1:28
 - lithology, 183A4:12
 - paleofluids, 159B6:49–52
 - petrography, 176B9:7–8
 - petrology, 173A8:245–249
 - photograph, 153B9:171; 161A6:229, 236, 240–241; 180A7:35; 8:62, 64, 76
 - photomicrograph, 161A6:239; 169A3:95; 180A7:35–36, 44; 187A13:17, 31; 190/196B3:26, 28; 193A3:119, 205–206; 4:119, 157
 - sediments, 159B1:4–5
 - Site 732, 118A3:53
 - thermal history, 159B5:45
- veins, quartz-anhydrite
 - photograph, 193A4:188
 - photomicrograph, 193A4:82, 175–176
- veins, quartz-anhydrite-pyrite
 - lithology, 193A4:10–23
 - photograph, 193A3:173; 4:76–77, 88
 - photomicrograph, 193A4:120, 128, 141, 143
- veins, quartz
 - chalcopyrite, 169A3:92–93, 107
 - chlorite-sulfide, 148A2:63
 - clay, 193A3:219–220
 - pyrite-magnetite, 193A4:94, 133
 - sphalerite-pyrite, 193A4:135
 - sulfate, 193A4:10–23
 - sulfide, 169A3:93
- veins, radial, massive alteration, 168B10:129
- veins, rip-up, photograph, 180A10:39
- veins, saponite
 - alteration, 185A3:20, 29–31
 - composition, 148B11:155–156; 35:442–443; 206A3:71
 - photograph, 206A3:252
 - photomicrograph, 206A3:253–254
 - vs. depth, 148B35:438; 185A4:112; 206A3:248–249, 255
- veins, saponite-carbonate-phillipsite, petrology, 148A3:145
- veins, segregation, volcanic glass, 183A5:34
- veins, serpentine
 - alteration, 209A3:15
 - Conical Seamount, 125B26:431
 - deformation, 149A6:186–188; 173A4:199
 - dip, 209A3:125–126
 - generations, 209A9:9–11
 - harzburgites and dunites, 209A5:16–17
 - peridotites, 149B22:406
 - petrography, 147A4:134–135; 147B15:299
 - photograph, 149A4:88–89, 91–92; 6:187; 173A9:281, 287; 209A3:95; 5:98, 100, 110, 136, 142; 6:93
 - photomicrograph, 149B36:589; 173A9:289; 195A3:88, 92; 209A3:81; 5:93, 99, 131; 9:77
 - serpentinized peridotite, 173A7:192–193
 - Site 779, 125A7:121–122
 - Site 780, 125A8:165
 - Site 783, 125A11:262–263; 125B19:352
 - Site 784, 125A12:290
 - stereo plots, 173A7:203; 209A7:86
 - talc alteration, 209A3:16
 - ultramafic rocks, 125A8:136
 - volume percentage of minerals, 209A3:92
- veins, serpentine-magnetite
 - description, 209A7:10–11
 - dip, 209A6:100; 9:80
 - generations, 209A9:9–11
 - photograph, 209A6:63, 93; 7:83; 9:79
 - photomicrograph, 209A3:74–75
 - stereo plots, 209A6:101
- veins, serpentine-sulfide, photograph, 209A3:117
- veins, serpentinite, projection, 147B28:471
- veins, shear
 - photograph, 206A3:277
 - reorientation, 206B11:14–26
- veins, siderite, petrology, 159A7:240
- veins, sigmoidal fibrous chrysotile, 209A7:10–11
- veins, sigmoidal mud
 - formation, 112B1:10
 - Peru margin, 112B1:4
 - See also* vein structures
- veins, silica
 - composition, 206A3:72
 - photograph, 187A1:38; 11:23; 193A4:92–93, 137, 181, 185; 206A3:252
 - photomicrograph, 187A10:10, 16; 187B5:19; 206A3:253–254
 - vs. depth, 206A3:248–249
- veins, silica-clay-anhydrite, photograph, 193A3:207–208
- veins, silica-clay-pyrite-anhydrite, structure, 193A3:61
- veins, silica-pyrite
 - dip, 193A6:23
 - lithology, 193A4:10–23
 - photograph, 193A3:201
 - photomicrograph, 193A3:205–206
- veins, silica-pyrite-anhydrite
 - paragenesis, 193A3:52–53
 - photograph, 193A1:48; 3:142–144, 153, 167, 200
 - photomicrograph, 193A3:205–206
- veins, siliceous, lithology, 189A6:18
- veins, simple, glassy rims, 168B10:126
- veins, slip-fiber, photograph, 153B3:43

- veins, smectite
 - abundance, 176B1:9
 - composition, 147A3:72–73, 86
 - dip, 176A3:202
 - oxygen isotopes and hydrogen isotopes, 147B14:280
 - petrology, 176A3:44; 176B1:4
 - photograph, 176A1:61; 3:146, 160, 164; 179A4:147–149
 - proportion vs. total veins, 176A3:150
 - vs. depth, 176A1:58; 3:149; 176B9:28
- veins, smectite-carbonate, Atlantis Bank, 118B27:505, 508
- veins, smectite + prehnite + carbonate, petrography, 176B9:6–7
- veins, sparry calcite
 - alteration, 187A11:8–10
 - photograph, 187A6:15
 - photomicrograph, 187A8:35–36, 40, 43
- veins, stepped, photograph, 206A3:275
- veins, stockwork
 - photograph, 169A3:77; 193A1:52; 3:106, 144, 153
 - photomicrograph, 193A3:148; 4:105
- veins, subhorizontal, photograph, 190A8:39
- veins, sulfide
 - Formation MicroScanner imagery, 169A3:133–136
 - lithology, 193A6:5
 - petrology, 139A6:206
 - photograph, 169A3:106; 169B10:36–37; 204A6:55; 209A5:101
 - vs. depth, 209A3:91
 - with sediments, 169A3:75–76
- veins, synkinematic
 - minerals, 118B8:160, 163, 171
 - plastic deformation, 118B8:172
 - temperature of formation, 118B8:172
- veins, talc
 - alteration, 209A3:16
 - hydrothermal alteration, 209A5:13
 - photograph, 209A5:88
 - photomicrograph, 209A3:81, 94; 10:95
- veins, talc-chlorite, hydrothermal alteration, 209A5:14
- veins, talc-pyrite
 - alteration, 209A3:14
 - dip, 209A3:126
 - photograph, 209A3:95
 - photomicrograph, 209A3:75
 - volume percentage of minerals, 209A3:92
- veins, talc-serpentine
 - dip, 209A7:85
 - hydrothermal alteration, 209A5:12
 - photograph, 209A3:70, 83, 101, 130
 - vs. depth, 209A3:91
- veins, tectonic
 - lithology, 159A7:231
 - photograph, 159A8:269
- veins, thomsonite, Atlantis Bank, 118B8:179
- veins, tonalite, lithology, 173A6:126, 140
- veins, transgranular, 209A5:102; 9:9–11
- veins, trondhjemitic
 - Atlantis Bank, 118A6:106; 118B2:27, 35
 - alteration, 153A4:157
 - crosscutting mylonite, 118B26:465
 - dip orientation, 118B26:502
 - formation, 118B26:488
 - origin, 118B26:503; 27:545
 - oxide-bearing gabbros, 118B26:503
 - petrography, 118B26:447–448
 - photograph, 153B22:403
 - plagioclase isotopic composition, 118B9:207
 - temperature of formation, 118B27:545
- veins, vuggy aragonite, description, 209A7:11
- veins, zeolite
 - crosscutting felsic veins, 118B27:552
 - dip, 176A3:202
 - electron microscopy, 185B9:26
 - petrology, 135A(1)11:604; 176A3:44–45; 176B1:4
 - photograph, 180A12:102
 - photomicrograph, 173A9:283; 180A12:91; 187B1:27
 - Site 894, 147A3:72–73, 86
 - Site 895, 147A4:135
 - vs. depth, 148B35:438; 176A1:58; 3:149; 176B9:28
 - X-ray diffraction data, 200A4:38
- veins, zeolite-calcite
 - alteration, 147B10:197–198; 28:467
 - orientations, 147B10:200, 205
 - photograph, 180A12:102
 - photomicrograph, 192A5:81
 - vs. depth, 147B31:498
- veins, zeolite + prehnite, abundance, 176B1:9
- veins, zeolite + prehnite + carbonate, petrography, 176B9:7
- velocimetry
 - in situ pressure, 188B10:26
 - sediments, 152A6:68; 7:85; 12:274–275; 188A3:59
 - Site 916, 152A8:103
 - Site 917, 152A9:143–144
 - Site 918, 152A11:241, 245
- velocity
 - accretionary prisms, 146A(1)10:402
 - accretionary wedges, 146A(1)9:395
 - acoustic impedance, 115A6:419–420; 123B1:463–464
 - acoustic units, 119B2:36
 - alteration, 102B8:97–98; 118B11:233
 - amplitude vs. offset distance, 146A(1)10:417
 - Atlantis Bank, 118A6:164; 118B11:227–231
 - Atlantis II Fracture Zone, 118A1:19; 4:73–74
 - attenuation, 176B2:3–4, 15–17
 - Barbados Ridge, 110A4:105; 110B1:5; 20:313–315; 156B21:263–275
 - basalts, 121A10:297; 142B7:53–56; 148B28:366–368; 163B2:20–21, 23–24; 203A3:21
 - basement, 115A5:271; 10:766; 121A11:344; 123A4:205; 203A1:12–13
 - boreholes, 159B23:242; 199B13:6–7
 - bottom-simulating reflectors, 146B(1)10:177–78
 - Broken Ridge, 121A1:58–59
 - bulk density, 173A8:257
 - Cagayan Ridge, 124A12:332–336; 14:409, 411
 - calcareous chalks, 121B12:256
 - calculation, 146B(2)13:196
 - carbonates, 133B43:633–647; 166A3:35

- Celebes Sea, 124A10:163–165, 174–176; 13:358–359, 362, 374–375, 379–381; 124B4:66
- check shot survey, 178A4:29
- chemical composition, 118B11:232
- chert layer, 121A6:149
- climate models, 199A3:29–30
- coherence function, 183A5:155
- compaction, 119A10:393
- comparisons, 107B38:625; 155B29:480–482; 190A4:29
- composite section, 175A7:187–188
- compressional wave logger, 139A7:353
- continental shelf, 178B16:1–25
- core-log correlation, 102B4:49; 10:168; 110:177; 119A11:435; 8:326–327; 121A6:149–150, 160; 7:185; 14:503; 124B6:78–83; 162A4:122–124; 6:202–203; 10:366–367; 168B3:29, 34; 178B17:29–35; 185B8:4
- Cornaglia Terrace, 107A9:603, 617, 622
- corrections, 138B24:541
- Costa Rica Rift, 111A3:93, 100–101, 111, 123, 129; 4:281–282, 285–286; 111B15:171–176; 16:180–181
- crack porosity, 118B11:233–235; 12:247
- crust, 102B11:157; 118B11:227; 124B6:75–76, 79–80, 89–90; 144B39:650–652; 148B33:409–410; 152B39:471; 176B5:14–15
- crust and mantle, 147B25:417–440
- crystalline rocks, 118A6:157
- data, 102B1:5
- De Marchi Seamount, 107A12:963–965
- depth conversion, 180A9:158; 12:161
- derived from resistivity, 171A_B3:5
- dipping and truncated sequences, 121A13:497
- discontinuities, 119A6:162, 202–203
- discrete samples, 141A7:223–224; 183A5:56–58; 209A3:163; 6:125
- elastic constants, 118B11:236, 242–243
- elastic waves, 102B4:49–62
- experiments, 164B28:276–277
- factors, 102B6:71
- foliated gabbros and metagabbros, 118A6:157–159
- formation factor, 106/109B20:250; 126A8:267–268
- gabbros, 118A6:209; 179A4:59–60
- Galicia margin W, 103A8:157, 159–160; 9:223, 260–268, 271, 290–294; 10:434–448; 11:452–461, 542–544, 548–549; 12:590–597, 603–605; 103B20:240–241, 243
- gas hydrates, 164A1:6–7
- geochemical and petrological constraints, 147B29:477–490
- glacially overconsolidated sediments, 119B2:31
- Gortani Ridge, 107A11:880–881, 892–896, 904–906
- gypsum and interbedded marls, 107A10:772
- Hashin-Shtrickman bounds, 111B16:181, 185
- high-velocity refraction, 119B2:33, 34, 36
- histogram in cores, 149A4:108
- igneous rocks, 123A5:326–330; 126A9:388; 209A3:162; 5:41, 181–182; 6:33; 7:27–28, 126; 9:22, 108; 10:29–30, 161; 210A1:24
- impedance logs, 188B10:25, 28
- in situ properties, 199B13:7–9
- index properties, 124B37:507–508
- inversion, 102B8:104–106; 119A8:292; 11:400
- ISONIC, 196A1:13–14
- isotropic gabbros, 118B11:244
- Jane Basin, 113A12:714
- Kane Fracture Zone, 106/109A6:171
- Kerguelen Plateau evolution, 120B(2)48:897
- Lambert Glacier-Amery Ice Shelf, 119B5:62
- Lingayen Gulf, 124E_A13:80, 83, 86–87
- lithofacies, 190A1:32–33
- lithology, 121A11:344; 121B27:521; 126A9:386, 388; 7:201–202; 186A1:14
- longitudinal vs. transverse velocity, 180A5:93, 129–130; 6:172, 272–278; 7:86; 8:95, 135; 9:125, 203–209; 10:61, 73; 12:128, 199–204; 180B5:16–19
- Mariana Basin E, 124E_A18:130, 132
- Marsili Basin, 107A6:133, 153
- Mascarene Plateau, 115A5:270, 272, 275–283, 288
- measurement errors, 119A3:46
- metagabbros, 118A4:60; 6:157
- methods, 118B11:227, 229–231
- Mid-Atlantic Ridge, 106/109A2:18; 7:187–188, 190, 192–193; 8:221–222
- model from depth-focused analysis, 173A6:159
- mud cake formation, 123B31:591
- multichannel sonic data, 110A5:251
- multisensor track, 159A5:112–113
- Nazareth Bank, 115A4:150, 161–162
- Ninetyeast Ridge, 121A2:58–59
- Norwegian Sea, 104A4:179–181, 183, 185–191
- opal-A/opal-CT transition, 121B12:256–257
- open-hole intervals, 131A6:188–194
- ophiolites, 111B15:173, 175–176
- oscillations, 119A6:214; 7:275
- peaks, 120B(2)49:909–910
- pelagic caps, 121A13:495; 121B12:254
- plate motions, 186A1:6
- pore fluids, 159B22:229–233
- porosity, 188A3:65–67
- postdepositional processes, 126B36:545
- profiles, 139A7:364; 142A2:40
- ratio in sediments, 143B18:295, 297
- ray-trace model vs. smoothed log profile, 119B2:30
- refraction, 119A3:46
- relation to porosity and clay, 155B29:480–481
- reversals, 119A9:372; 11:434
- rms and intervals, 119A3:46
- Sardinian margin, 107A8:405, 429–431, 447; 10:751, 770, 771, 773
- scattering, 119A10:391–392
- sediment/sill contacts, 210A3:104
- sedimentary rocks, 119A5:125
- sediments, 139B44:709–711; 157A8:421, 426; 159B22:232–233; 162A9:319; 165A4:185–187; 5:265–268; 169B7:6–8, 17–19; 171B_A5:210; 180A6:77–79; 210A1:21
- seismic-borehole correlation, 210A3:107–108
- seismic-core correlation, 210B14:6–9
- seismic facies, 166A6:110

- seismic reflection, 188B10:5–8
- seismic waves, 102B4:49
- semblance calculation, 118B14:266
- Serocki Volcano, 106/109A4:78–81
- serpentinized peridotites, 125B34:581–583
- Site 689, 113A5:101–102
- Site 690, 113A6:202, 204
- Site 693, 113A8:351; 113B19:240, 242–244
- Site 695, 113A10:541–542
- Site 703, 114A10:580–582
- Site 704, 114A11:675
- Site 708, 115A6:417–418, 424, 427
- Site 709, 115A7:483–484, 495–496, 498
- Site 710, 115A8:610–611, 620–622
- Site 711, 115A9:678, 680, 688–691
- Site 712, 115A10:756, 762
- Site 713, 115A10:757
- Site 714, 115A11:859–860, 869–872
- Site 715, 115A12:936, 939
- Site 736, 119A5:150, 153
- Site 737, 119A6:204
- Site 738, 119A7:264, 266–269
- Site 739, 119A8:319; 119B8:145, 148
- Site 740, 119A9:365, 369
- Site 742, 119A11:428, 434, 436; 119B8:146
- Site 743, 119A26:469–470; 119B8:146, 148
- Site 744, 119A13:499
- Site 745, 119A28:520, 522–524
- Site 746, 119A15:548
- Site 747, 120B(2)49:910
- Site 748, 120B(2)48:898–899
- Site 750, 120B(2)48:898–899, 912
- Site 752, 121A6:141, 146–147, 163
- Site 753, 121A1:183
- Site 754, 121A7:217–219, 223–224
- Site 755, 121A9:252, 254
- Site 756, 121A10:289, 292, 295–296
- Site 757, 121A12:339–340, 348
- Site 758, 121A12:404, 414, 432–434
- Site 765, 123A4:168–169; 123B23:456–459
- Site 766, 123A5:309, 311, 314; 123B1:460–462
- Site 778, 125A6:109
- Site 779, 125A7:143
- Site 780, 125A8:167–168, 172
- Site 781, 125A9:191–192, 194
- Site 783, 125A11:266, 270
- Site 784, 125A12:293
- Site 786, 125A14:334, 348
- Site 787, 126A5:93, 95
- Site 788, 126A6:123, 126
- Site 790, 126A7:195, 197, 200
- Site 791, 126A7:200–201, 208
- Site 792, 126A8:279, 284–285, 312
- Site 865, 143A6:148, 150, 154, 156–157
- Sites 846 and 847 comparison, 138A(1)12:381
- Sites 914–917, 152A10:159–160
- slow-spreading environment, 153B25:437–454
- small-scale fluctuations, 119B8:148–149
- sonic logs vs. vertical seismic profile, 146B(1)34:462
- sonobuoy seismic studies, 119A3:107; 5:125; 6:161; 7:276; 119B2:29–35; 121A6:151, 164; 7:187; 8:234; 9:258; 10:293
- spectra, 195B2:20
- Stoneley waves, 102B4:49; 107A11:898, 905
- structure, 131B17:213; 176A1:51; 186B1:16
- Sulu Sea, 124A11:252–254, 257, 268–273; 124B5:72–73
- summary, 178B17:5–7
- synthetic seismograms, 119A6:212; 138A(1)9:181
- Tiburon Rise N, 110B20:313–315
- time-depth conversion, 210A3:109–110
- tomographic inversion, 164B28:277
- truncated limestone-chert/prograding wedge, 121A4:73, 75
- turbidites, 210A3:103–104
- Tyrrhenian Sea, 107A7:311–314
- unconformities, 121A7:217; 186A1:5
- unlogged section, 139B37:587
- velocimetry, 159A5:113–114
- vertical seismic profiles, 126B39:583–585; 164A9:305–307
- vertical vs. horizontal layers, 118A6:162–163
- volcanic basement, 165B13:219–220
- vs. absorption, 158B25:348
- vs. attenuation, 118B13:258–259
- vs. bulk density, 144B39:654; 147A3:100, 156; 153A3:118; 173A6:154–155; 7:209, 211; 200A3:134; 206A3:314
- vs. carbonate content, 110A4:114; 210A3:292
- vs. confining pressure, 148B28:367
- vs. density, 102B3:39–40; 115A7:483; 118B11:231–232, 238–239; 121B34:684; 147A4:154; 195B1:4–5; 11:9; 204B8:22
- vs. density and magnetic susceptibility, 157A8:423
- vs. density porosity logs, 204B22:19
- vs. depth, 110A7:422; 8:499; 111B16:186; 113A5:104–105; 6:209; 7:304–305; 8:353, 354; 9:467–469; 10:543, 546–548; 11:626–629, 631; 12:719; 113B3:30; 131A6:235–236, 251; 131B17:215; 138A(1)10:244; (2)14:790–792, 796–797; 15:870; 16:948; 139A7:403; 139B37:589; 44:705, 709, 711–712; 141A6:135; 8:283; 9:339; 141B29:371; 143A6:155–157, 161–167; 7:243; 9:349–353; 143B18:290–291; 144B39:651; 145A4:118; 146A(1)4:105; 5:207–209, 211, 221; 6:276, 280–281; 7:365, 392; 146B(1)23:362–363; 148A2:81; 148B23:321–346; 28:370; 149A4:107; 5:140; 6:196–197; 7:252; 149B18:344, 351; 150A6:104–106; 7:174–177; 8:237; 9:292; 10:335; 151A5:88, 94; 6:136; 7:195, 199; 8:247–248, 250; 9:257, 293–294, 297; 11:377–378; 152A7:86; 8:104; 11:245; 12:275; 155A16:485; 18:561; 156B23:299; 157A4:81–82; 5:129–130; 6:160–164, 168; 7:367–369, 374; 8:420, 422, 427; 9:463, 465–467; 10:529, 531–533, 537; 157B28:486; 159A5:112, 115, 117–119; 6:196, 199; 7:249; 8:286, 289; 159B22:234–235, 239; 160A11:402, 443; 161A4:94–99; 5:154, 156–161; 6:262–264; 7:333–334, 8:388; 9:414; 161B24:321; 162A3:82–83; 4:120–121; 5:164;

- 6:198–199, 203–204; 7:250; 8:282; 9:322;
10:376; 163B2:23; 164A5:94–95; 6:134, 137;
7:195–197, 206–208; 8:255–258; 9:305–306;
165A3:89, 92; 6:334; 8:381; 165B10:178;
12:207–208, 210–211; 20:334; 166A3:35;
167A(1)4:82; 5:114; 167B32:354; 168B3:26–29;
173A6:153–154; 7:209, 211; 8:256; 9:292;
174A_A3:78–79, 91; 5:179; 175A3:76, 85; 4:104–
105, 110; 5:137, 139; 6:169–170, 174; 7:195,
198; 8:217–218, 221; 9:261, 268; 10:301, 307;
11:329, 335; 12:377, 379; 13:413, 423; 14:447,
453; 15:475, 482; 176A1:69; 177A3:36; 4:50;
5:55; 6:46; 7:40; 8:57; 9:43; 178A4:104; 5:78, 95,
97; 6:54; 9:73; 178B17:13, 15, 17, 20; 19:18;
180A6:221; 8:94, 98; 9:159; 10:60; 180B5:2–3,
14–15; 182A10:68; 183A5:149–150, 157, 161;
6:155–156, 163; 7:165–166, 172–173; 8:82–83,
89–90; 9:113–115; 186A4:153–154; 190A1:82–
83; 191A1:46–47; 192A3:138; 4:106; 5:103;
6:86; 7:13, 50; 192B7:14–16; 194A6:56; 7:100;
8:57; 9:48; 195A4:145; 200A3:133; 200B1:42;
204B8:17–19; 206A1:55; 3:310–311, 392–394;
207A1:80; 4:76–77; 5:84; 6:72–73, 76; 7:79;
8:75; 210A1:74–75; 3:289, 303; 4:32; 210B7:16;
14:23–25
- vs. differential pressure, 200B1:34
vs. distance from ridge, 168A1:11
vs. dolomite percentage, 143B18:299
vs. effective pressure, 143B18:298; 149B18:347;
156B9:131
vs. effective stress, 115B42:774–775; 146B(1)22:349–
358
vs. final depth, 178B19:34
vs. formation factor, 133B45:667
vs. fractional porosity, 138A(1)12:376; 142B7:56
vs. gamma ray attenuation bulk density, 200A4:135
vs. gamma rays, 157A8:422; 9:466; 10:533
vs. magnetic susceptibility, 157A8:422; 9:466; 10:533
vs. neutron porosity, 146A(1)5:210
vs. orientation, 131B7:86
vs. porosity, 102B3:31, 35, 45; 11:166–167; 106/
109B20:247–248; 111B16:186; 118A6:159, 161–
162; 124B7:93; 125B34:583; 126B36:545–546;
131A6:192–194, 239; 133B45:662–663;
139A2:31; 139B45:712; 142B7:51–59;
143B18:292, 295; 145A7:332; 146A(1)4:108;
146B(1)20:332; 147A3:100; 4:154; 153A3:118;
155B29:481; 159B22:233; 168A5:155; 6:194;
168B3:29, 34; 173A6:154–155; 7:209, 211;
8:257; 190/196B11:1–23; 194A5:70; 6:57; 7:94,
101; 8:58; 9:49; 200A3:134; 204B8:22;
206A3:48, 316
vs. resistivity, 107A11:899; 130A5:154
vs. seismic stratigraphy, 107A10:779; 115A4:152;
118A6:163; 120A6:143
vs. serpentinized fraction, 153B25:447
vs. shear strength, 204B8:23
vs. signal level, 157A8:425
vs. sonic and vertical seismic profiles, 118A6:159–161
vs. subbottom depth, 146A(1)10:410
- vs. travelttime, 139A2:31; 159B22:229, 236, 240;
178A7:70–71; 210B14:27–30
vs. water content, 110A4:114
waveforms, 164A6:147
See also acoustic properties; acoustic units; acoustic
velocity logs; anisotropy; attenuation; compres-
sional wave velocity; density/velocity models;
geotechnical properties; porosity-velocity trans-
forms; resistivity-velocity logs; resistivity-veloc-
ity-natural gamma ray logs; seismic velocity;
shear wave velocity; sonic velocity logs
- velocity, acoustic
basalts, 148B29:376; 163A3:29; 4:43–44; 5:65–66
cores, 149A5:140–141; 6:196–197; 7:251–253
corrected and uncorrected values, 169S_A2:38, 45
discrete samples, 149A4:101; 154A4:112–116; 5:196–
202; 6:264–266; 7:314–319; 8:382–390
gas hydrates, 164A6:144
histogram in basement rocks, 149A7:253
lithology, 205A4:39
metamorphic rocks, 173A6:154–155
sediments, 154A4:104; 5:193–195; 6:251–253; 7:308–
309; 8:363, 367–368; 164A5:91–93; 6:133;
7:201; 8:269; 9:303–304; 165A3:93–94; 4:194;
5:272–273; 6:340; 169S_B1:28, 31–32;
172A5:233–235; 6:291; 173A4:92–93; 6:154
tools, 164A7:215; 188A3:59; 189A7:46–47; 190A4:27,
76; 5:31–32, 78; 6:22–23, 53; 7:19, 45; 8:22–23;
9:25; 207A4:28; 5:31–32; 6:33–34; 7:31–32; 8:30
unconformities, 119B1:11
volcanic rocks, 152A9:145
vs. bulk density, 143A6:163
vs. depth, 148B29:376; 152A9:144
vs. porosity, 148B29:377
- velocity, acoustic longitudinal
measurements, 131A6:165–169
tuffs, 131B22:277
vs. anisotropy, 131A6:167–169
vs. bulk density, 131A6:212
vs. depth, 131A6:211
- velocity, average
vs. porosity, 185A4:134
vs. wet bulk density, 185A4:134
- velocity, compressional wave logger, 149A5:141; 7:252;
167A(1)4:81; 5:113
- velocity, discrete acoustic, 149A5:141
- velocity, fluid, convection, 139B44:671
- velocity, Hamilton Frame
rocks, 149A4:107
vs. depth, 141A7:221
- velocity, high-pressure
basalts, 129B28:501–506
vs. depth, 129B29:513–514
vs. two-way travelttime, 129A4:231
- velocity, horizontal
vs. depth, 134A7:126; 8:170, 172; 9:231–235; 10:298;
11:355
vs. vertical velocity, 206A3:317
- velocity, in situ
sedimentary rocks, 149B18:343–350
vs. in situ bulk density, 188B10:18

- velocity, interval
 - Atlantis Bank, 118B10:222–223, 225
 - calculated from discrete compressional wave velocity, 171B_A6:310
 - deformation zones, 118B10:223
 - Prydz Bay, 119A10:378, 400
 - sedimentary sections, 119A11:398
 - seismic reflectors, 171B_A6:293–295
 - semblance in X–T, 123B34:630, 632
 - Site 745, 119A14:506
 - Site 765, 123B32:588, 591
 - vertical seismic profiles, 123B34:632–634
 - vs. depth, 131B33:418–419; 139A2:32; 171B_A3:88; 4:152, 161; 5:225; 6:301; 7:343; 178B17:16, 18–19
 - weighted-average calculations, 123B34:633, 635
- velocity, long offset, vs. depth, 141A7:227
- velocity, long-spaced, vs. depth, 138A(1)12:373
- velocity, merged, vs. depth, 138A(1)10:255; 11:323; 12:384; (2)13:730; 14:800; 15:879; 16:958; 17:1018; 18:1060; 138B24:545, 547–549
- velocity, one-dimensional, model inversion of refraction data, 206A1:55
- velocity, pseudo, vs. depth, 168B3:32
- velocity, refraction
 - acoustic basement, 119A12:232
 - Prydz Bay, 119A8:292; 9:348
 - sedimentary sections, 119A11:400
 - Site 736, 119A6:125, 127
 - Site 738, 119A12:233
- velocity, seismic
 - accretionary prisms, 131B17:211–220
 - basalts, 121A12:393
 - Broken Ridge, 121B34:682
 - data, 130A9:459; 10:520, 531
 - Ninetyeast Ridge, 121A11:347
 - profiles, 131A2:18
 - Santonian–Turonian interval, 121B34:683
 - sediments, 131B20:257–258
 - sonobuoy solutions, 121A9:254; 121B34:686
 - two-way traveltime, 190/196B12:16
 - vs. carbonate content, 154B9:162–166
 - vs. measured data, 121A12:414
- velocity, short offset, vs. depth, 141A7:227
- velocity, sonic
 - basement, 126B26:389–390, 399; 28:435–436, 444
 - Bengal Fan, 116A4:81, 82; 5:124–127; 6:172, 176, 177; 116B3:28–29, 31; 6:71–72; 25:312, 315; 30:372, 374
 - digital sound velocimeter, 141A10:413; 143A9:347
 - discrete sediment samples, 141A8:286
 - Fourier transforms, 133B15:196; 198–199
 - gas hydrates, 204B24:1–38
 - Hamilton Frame, 134A9:220–221; 11:353; 12:449–450
 - in situ corrections, 130B36:607–622
 - lithology, 186A4:51–52
 - Little Bahama Bank, 101A7:238
 - olivines, 126B26:396
 - sediments, 130B35:590; 131B20:247–260; 136A4:58; 191A4:36–37
 - seismic waves, 102B4:49
 - Site 828, 134A8:163
 - Site 830, 134A10:285–286, 299
 - Site 831, 134A11:349–350
 - Site 832, 134A12:427, 430
 - Site 833, 134A13:516–517
 - Site 859, 141A6:124
 - Site 860, 141A7:213–215
 - Site 861, 141A8:276
 - Site 862, 141A9:334
 - Site 863, 141A10:403
 - Site 865, 143A6:156–157
 - Site 869, 143A9:344–346
 - Sites 867–868, 143A8:292
 - stacked waveforms, 208A6:85
 - Straits of Florida, 101A5:70–71
 - transit time in basalts, 124B6:78, 80–81
 - vs. bulk density, 143A7:239–240
 - vs. calculated velocity, 143B19:310
 - vs. compressional wave velocity, 143B18:296
 - vs. core density, 208A4:67; 6:83
 - vs. density, 141B18:247
 - vs. depth, 133A(1)14:597; 134A12:444; 134B29:515–527; 136A4:61–62; 5:78–79; 141A10:409, 414; 178B17:12; 180A1:72; 203A1:28; 3:66; 208A6:84
 - vs. downhole density, 208A4:67; 6:83
 - vs. grain density, 203A1:26; 3:65
 - vs. lithology, 134A7:120
 - vs. porosity, 143A7:239; 203A1:26; 3:65
 - vs. well-logging, 146A(1)4:98
 - vs. wet bulk density, 203A1:26; 3:65
 - well-logging, 151A5:104
- velocity, splice-core, lithology, 199A8:58
- velocity, stack, semblance analysis, 129B31:552
- velocity, tomographic, vs. depth, 178B16:22
- velocity, transverse
 - fault gouge, 180A11:11
 - properties, 180A9:225–226
- velocity, vertical
 - vs. depth, 134A7:126; 8:170, 172; 9:231–235; 10:298; 11:355
 - vs. horizontal velocity, 206A3:317
- velocity, ultrasonic
 - basalts, 142B7:57
 - cores, 137A2:29–30
 - measurement, 102B4:50
 - pore pressure, 156B9:125–135
- velocity, x-direction
 - sill/sediment contacts, 210A3:294
 - vs. carbonate content, 210A3:293
 - vs. depth, 210A3:289–294, 303, 308; 210B14:22, 27
- velocity, y-direction, vs. depth, 210A3:290–291, 308
- velocity, z-direction
 - histograms, 210A3:310
 - vs. depth, 210A3:290–291, 308; 210B14:22
- velocity anisotropy
 - anelastic strain recovery, 123B24:487–488
 - basalts, 129B27:489
 - Broken Ridge, 121A6:147–148; 8:217, 225–226; 9:252
 - data, 123B24:486–487; 131B29:365–378; 139A7:357–358
 - horizontal vs. vertical profiles, 121A6:142; 8:218

Ninetyeast Ridge, 121A10:288; 11:340, 349; 12:404
particle alignment, 117B11:237
Site 754, 121A7:152–189, 191–226
Site 757, 121A11:349
temperature corrections, 139B37:588
vs. depth, 129A2:63; 3:130; 4:213; 130B40:665–667;
134B29:518, 521, 525; 139A7:398–399;
190A4:76; 195A4:147; 207A6:73; 210A3:295–
296
velocity anomalies, mantle, 195B2:5
velocity fields, vs. depth, 178B16:17–21
velocity logs
basalts, 185A3:43–44; 185B1:24
carbonate-rich sediments, 133B43:639–641; 44:649–
659
compaction trend, 117A11:360
comparison with neutron porosity and bulk density
logs, 178B19:29
correlation, 133A(1)8:273–275; 9:321–322; 12:474–
476; 14:603; 17:785–786; 135B21:331–365
cyclical deposition, 133A(1)8:290–291; 143B20:320–
326
data, 117A8:186; 19:621, 623; 118B12:246; 119B1:8,
19; 178B19:25, 32; 193A4:61
free gas, 204B22:1–25
gamma ray attenuation density, 133A(1)17:793
gas hydrates, 164B20:193–198; 25:247–249;
204B22:1–25
Indus Fan, 117A8:170, 176
lithology, 185A4:45–46; 200A4:53; 200B7:11;
205A4:62–63
Oman margin, 117A2:26; 11:339
Ontong Java Plateau, 130A8:332, 334, 337–338, 341
Owen Ridge, 117A2:26
porosity, 164B20:194
power spectra, 133A(1)9:329
ratio to resistivity log plots, 133A(1)14:606
raw and processed velocity logs, 129A2:74; 3:149;
4:225
resistivity and geochemical logs, 117A19:624–626
sediments, 133A(1)10:373; 146A(1)4:90; 5:194;
6:275–276; 7:349
seismic stratigraphic tool string, 133A(1)14:604
siliceous microfossil productivity, 117A11:361
Site 721, 117A9:224, 233
Site 722, 117A10:274, 287, 299
Site 725, 117A13:436
Site 726, 117A14:457, 460
Site 728, 117A16:510, 518, 528–529
Site 730, 117A18:571
Site 731, 117A19:609, 612; 117B11:224, 226
Site 735, 176A3:84–87
Site 794, 127A4:134, 139–142, 144–146; 127/
128B(2)68:1069; 128A3:107, 119–120
Site 795, 127A5:232, 237–238
Site 796, 127A6:302–305
Site 797, 127A7:393–395, 398, 400–402; 127/
128B(1)1:7
Site 798, 128A4:185–187, 212, 225–228
Site 799, 128A5:332–338, 362–364, 380–382, 393–397
Site 812, 133A(1)5:160–164, 167

Site 814, 133A(1)7:222–225, 227, 232–233
Site 817, 133A(1)10:398–399
Site 820, 133A(1)13:533, 535–536, 551, 555–556
Site 821, 133A(1)14:589
Site 823, 133A(1)16:723–724
Site 825, 133A(1)4:111–112, 129–130
Site 844, 138A(1)9:175
Site 845, 138A(1)10:234–236
Site 856, 139A6:254
Site 871, 144A3:78–79, 81
Site 925, 154A4:122
Site 950, 157A4:54
Sites 722 and 731 correlation, 117A19:626
Sites 867–868, 143A8:286–288
statistical analysis, 159B16:166
synthetic seismograms, 139B37:591–593
time vs. depth curves, 133B44:649–650
turbidites, 117A19:623–627
unconformities, 133B20:286
vs. compressional wave velocity, 184A4:76
vs. density, 117A10:275, 287; 18:575; 19:609, 612,
615; 159B23:246, 248; 174A_A4:149
vs. depth, 133A(1)7:227, 236; 8:276; 9:325, 327;
10:383; 11:439; 12:497, 499; 13:541; 15:661,
665; 16:729–730, 742–743; 17:795;
133B44:650–651; 45:661–686; 135B21:331–365;
141A10:419; 143A8:293; 9:354; 143B20:321;
144A5:196; 145A3:77; 6:282; 146A(1)4:93;
149A6:199; 150A6:111; 7:183–184; 8:240;
9:295; 10:337; 152B37:442; 38:457; 154A4:129,
132; 5:211; 6:266; 7:325; 8:398; 155A7:159, 165;
9:226; 11:305; 12:363; 16:490, 496; 20:622;
22:683; 155B26:423–424; 157A7:378; 9:473;
10:540; 159B22:231, 235, 239; 23:244;
160A7:211–213; 8:267–270, 278–281; 9:325–
326; 12:447; 14:491; 161A5:167, 170–171;
6:276; 7:342, 344; 162A4:123; 6:203–204; 9:326;
10:377; 164A6:139, 142–143; 7:210, 213–214,
217; 9:308–309; 165A3:92, 104; 4:192;
165B11:195, 199; 13:223; 17:272; 166A6:101;
8:197; 9:259; 10:322; 167A(1)5:118; 168A6:201,
203–204; 169A3:132; 5:231; 170A4:144; 7:243;
172A5:243; 6:300; 173A4:97; 174A_A3:92, 94–
95; 4:137–138, 142; 5:184, 188; 175A9:271;
10:311; 12:383; 13:427; 15:484; 176A3:236;
176B5:26; 178A9:66; 178B19:10–13, 24–25, 27;
179A4:156; 179B1:16; 180A6:181, 186–189,
195–201; 9:135–138; 181A3:66; 7:106, 111;
8:83; 182A6:85; 183A7:175–178; 8:93–94;
184A1:74; 4:73–74; 5:68–69; 7:67, 70; 9:80, 82–
83; 185A4:139; 185B8:11–12; 186A4:94, 158;
5:34–35, 84, 87; 188A3:160; 4:89, 93–94;
188B10:20, 24; 189A3:110, 115; 5:106, 111;
7:97, 101; 192A6:88, 90; 194A5:76, 80; 7:105–
107; 195A1:54; 4:153; 197A1:41; 3:131;
198A3:108; 199A11:81–83; 12:85–86;
201A11:77; 203A1:27; 3:69, 73; 204A4:93; 6:65;
9:71; 11:48, 50; 205A1:55–56; 4:71–73, 162,
164; 205B9:22; 13:13; 207A4:68–70; 5:79–81;
7:71–72, 75–77; 8:68–69, 72–73; 209A7:34, 112;
10:148

- vs. porosity, 133B44:654–655; 159B23:246, 248
- vs. resistivity, 133A(1)15:667; 174A_A4:149; 188A4:96
- vs. traveltime, 133A(1)7:233; 8:289; 9:336; 14:607;
16:744; 17:798; 174A_A4:143
- well-logging, 128A3:103
- See also* acoustic logs; compressional wave logger;
compressional wave velocity logs; far velocity
logs; gamma ray-density-porosity logs; imped-
ance logs; near velocity logs; resistivity-velocity-
natural gamma ray logs; secondary wave veloc-
ity logs; shear wave velocity logs; sonic logs;
sonic velocity logs; sonic velocity logs
- velocity logs, sonic
 - Site 835, 135A(1)5:234, 237–238
 - Site 838, 135A(1)8:384
 - Site 839, 135A(1)9:464
 - Site 840, 135A(1)10:551–552
 - Site 841, 135A(1)11:658
 - vs. depth, 135A(1)4:166; 10:552–553
 - See also* velocity logs
- velocity models
 - basement tectonics, 149B38:608–609, 613
 - seismic refraction profiles, 209A1:82
- velocity-natural gamma ray logs, 149A6:207–208
- velocity profiles
 - data categories, 178B19:21–22
 - digital coherency mapping, 178B19:23
- velocity profiles, composite
 - transects, 178B19:1–34
 - vs. depth, 178B19:28
- velocity profiles, hypothetical, a’a lava, 197A6:33
- velocity ratio
 - velocity/resistivity ratio, 133B45:670, 675–678
 - velocity structure, 176B5:1–71
- veneers, hardgrounds, 133B36:531–533
- vent communities, serpentine, 195A1:13
- vent fields, geology, 139A7:435–436
- vent fluids
 - Conical Seamount, 125A8:148
 - geochemistry, 125A8:148; 125B29:507; 36:595, 597
 - hydrocarbons, 125A2:12
 - microorganisms, 168B14:169–172
 - pore fluids, 139B20:407–408
 - sediments, 164A8:249
 - sources, 125B1:8
 - strontium isotopes, 125B23:398–399
- ventilation
 - basins, 146B(2)23:320–323
 - bottom water, 189A1:34
 - deposition, 189A6:19–21
 - early Oligocene, 189B3:12
 - Eocene–Oligocene transition, 189A7:24–25
 - history, 165B4:96
 - lithology, 189A7:18–19
 - lower–middle Eocene interval, 189B1:11
 - Paleocene–Eocene interval, 189A1:51
 - upper Quaternary, 167B7:138–139
- venting
 - cemented layers, 146B(1)15:265
 - mud domes, 160A1:11
 - sediments, 146B(1)27:406–409
 - See also* gas venting; fluid venting
- venting, hydrothermal, East Pacific Rise, 142A2:33
- vents
 - axial summit caldera, 142A2:34–35
 - bacterial profiles, 169B2:1–18
 - basement, 139B44:700–704
 - cross sections, 139B43:683
 - fluid flow, 139B29:514–515; 169B10:13–14
 - geology, 139A7:536–543
 - heat flow, 139A2:36–39
 - hydrothermal alteration, 139A6:230–231;
139B10:157–161; 11:210–212
 - hydrothermal circulation, 169A1:7–9
 - hydrothermal fields, 158A1:8; 193A1:5–7
 - hydrothermal mounds, 139B20:395–410
 - north-south variability, 204B3:1–15
 - subduction zones, 204B1:4–5
 - See also* summit vents; vent communities; vent fields;
vent fluids
- vents, active, location, 169A4:197
- vermiculite
 - dating, 113B5:59
 - mixed layers, 107B6:159–160
 - sediments, 174A_B(synopsis):8–9
 - Site 699, 114B37:688–689, 698
 - Site 739, 119B3:86
 - X-ray diffraction data, 210A3:237
- vermiform texture. *See* textures, vermiform
- vernadite, iron
 - ferromanganese crusts, 144B44:751, 758
 - hardgrounds, 144B22:421–423
 - manganese nodules, 138B40:808–810
 - photograph, 144B44:765
- vernadite, Izu-Bonin forearc, 126B7:115
- vertebrates, evolution, 120B(1)12:175
- vertical incidence profiles, seismic reflectors, 176A1:25
- vertical seismic profiles (VSP)
 - Atlantis Bank, 118B26:553
 - attenuation and dispersion, 123B31:591
 - basement and subbasement reflections, 123B32:592
 - calculations, 131A6:202–203
 - Cascade accretionary prism, 146B(1)34:461–463
 - data acquisition system, 123A12:237–238; 126A8:294,
301; 9:395
 - data processing, 118A6:186–188; 118B10:221–222;
123B31:587–589
 - deconvolved seismograms, 118B10:221–223;
123B32:589, 598–599
 - error sources, 118A6:189
 - geologic setting, 118A6:183, 185
 - gun mooring, 118A6:190
 - gun signatures, 118A6:191
 - hand sample velocity correlation, 118A6:189
 - methods, 102B11:157, 165; 118B10:219–221
 - minimal cut set correlation, 126A8:314
 - navigation and weather, 118A6:187
 - Norwegian Sea, 104B46:965–972
 - objectives, 118A6:182
 - oblique seismic experiment, 102A3:97
 - oceanic crust, 203B1:6–7
 - operations, 118A6:187–188; 123A4:74–75

- origin, 118B10:225
physical properties correlation, 126B39:585
previous oceanic seismology, 118BA6:182–183
receivers, 118A6:185, 192; 123B32:585–586, 593
recording systems, 118A6:185, 188; 123B32:586–587
scientific applications, 123B32:583
sediments, 146A(1)7:363, 366
seismic reflectors, 118A6:190
seismic sources, 118A6:186–187, 192; 123B32:584–585
Site 504, 148A2:80–81
Site 765, 123A4:65, 235–241, 248
Site 792, 126A8:294, 301, 306, 311, 313; 126B39:582, 585
Site 793, 126A26:389, 395, 401
Site 889, 146A(1)5:208, 210–212
Site 891, 146B(1)21:337–348
sonic log and lab velocity correlation, 123B32:589–591, 597, 600
sonobuoy and sonic log correlation, 123B34:634–635
stacked seismograms, 118A6:190, 194–196, 199
summed traces, 123B32:586
testing and calibration, 118A6:185
three-component seismometers, 118A6:185, 197
time-depth relationship, 146A(1)6:280–281
timing signal flow, 118A6:189
traveltime distances, 118A6:189, 197
vertical-component seismometers, 118A6:185, 197
vs. laboratory and in situ measurements, 126A8:312
water gun record, 118B10:222
waveform processing, 123B32:588–590, 592, 594–596
well-logging cable attenuation, 118A6:186
zero-offset, 123A4:235–237; 126B39:578–579
See also seismic profiles
- vertical tectonics
Pliocene–Quaternary, 160A5:88
Quaternary, 134A3:33–42
reefs, 134B3:48–50
See also uplifts
- vertical velocity. *See* velocity, vertical
- Verwey transition
Cretaceous, 210B15:9
demagnetization, 154B10:176
low-temperature properties, 183B12:8
magnetic minerals, 178B14:2–4
magnetic properties, 173B8:9
paleomagnetism, 203B1:5
saturation isothermal remanence, 178B14:6
- vesicle cylinders
photomicrograph, 197A4:56
volcanology, 197A3:18
- vesicle fillings
alteration, 168A4:74; 6:174; 197A4:20, 23; 5:18–19; 6:75; 203A3:15–17
lithology, 163X_A4:13
order of filling, 127/128B(2)55:888
paragenesis A and B, 119B8:302, 307
petrology, 142B9:72; 168A5:129–130
photograph, 197A5:74; 6:76–77
photomicrograph, 163X_A6:39; 168B10:136
secondary mineral chemical variation, 119B8:308
Site 765, 123A4:193
Site 766, 123A5:318, 321–322
sphalerite, 193B3:3
vs. depth, 197A3:100; 4:72–73; 5:73; 6:75
- vesicles
alteration, 163A4:41–42; 5:62–64; 183A3:25–26; 7:43–47; 9:31–35; 183B15:6–9; 187A6:5–6; 9:6–7; 15:8–9; 187B1:7–8; 5:7; 192A4:18; 192B6:3–4; 193A3:41–47
basalts, 127/128B(2)55:887–888; 128A3:88–91; 142A4:59; 144B29:497–500; 163A3:27–28; 169A6:271–272; 185A4:24; 191A4:30–32; 192A6:16–17; 201A12:11
basement units, 183A6:25–35, 37–46; 7:15–35; 8:13–16; 9:13–16; 183B14:3–8
blue tuff, 127/128B(1)8:117–119
clay minerals, 127/128B(2)55:887; 152B34:418
density vs. depth, 183A7:94, 96, 107; 8:43, 45, 47–48; 9:50, 53, 57, 60
distribution, 183A4:45; 8:15; 9:128
fillings, 148B11:155
flattening, 157B14:212–213
Formation MicroScanner imagery, 183A5:164
gas composition, 142B3:27
geopetal structures, 183A5:40
groundmass, 193B2:7–8
Hole 801C, 129A3:141–142
igneous rocks, 163A4:36–37; 163X_A6:22–23
igneous units, 200A4:29
imagery, 209A4:12
lava flows, 163A5:54–55
lithology, 163X_A4:6; 168A4:60–70; 180A6:9–10; 183A1:25; 4:11, 14, 18; 5:14–17, 39–43; 185A3:12; 187A3:4–6; 6:3–5; 7:5; 9:5; 11:4; 14:4; 15:4–7; 193A3:22–23; 4:11–12, 18; 193B2:6
petrography, 187A8:4; 15:5–6; 195A4:16; 203A3:10–12
petrology, 129B5:147; 152A7:81; 193A5:4; 209A8:2
photograph, 152A11:229; 152B8:113; 158A7:116, 200; 163A4:36, 39; 5:59, 63; 183A1:91; 4:43–44; 5:77–81, 131–132, 135; 6:105, 117, 119; 7:105, 140–143; 8:51, 71; 9:51, 55, 59, 100, 103; 183B14:17–18; 185A3:88–89, 113; 191A4:99; 193A1:80; 4:71, 88; 6:4, 15; 195A4:96, 100–102, 107–109; 200A4:100; 206A1:75; 3:168–169
photomicrograph, 129B4:134; 168A4:68, 74–76; 5:132–135; 180A6:103; 187A6:16, 23; 10:14–15; 11:21, 32; 15:17; 187B5:17; 191A4:107–108; 192A4:94, 96–97; 5:53; 6:78; 193A3:145, 166, 182; 4:145, 149; 193B6:11; 195B8:13; 197A3:62, 84–85, 95; 4:55; 200A3:98, 100; 206A3:206, 214, 226, 230, 262, 269; 210A3:174
pillow basalts, 187A4:3
plunge vs. depth, 193A4:179
population density vs. diameter, 209A4:13
reddish brown zone, 168B10:130
sills, 169A3:92
size distribution, 183A7:95, 97, 108; 209A4:3–4
sketches, 168A5:131
textures, 131B16:198
volcanic ash, 127/128B(2)48:791

- vs. depth, 163B13:152–153; 183A4:46, 62; 5:78, 98, 128–129, 140; 6:140; 192A1:68; 6:62; 197A3:57; 4:72–73; 5:73; 6:75
- vs. pressure, 157B24:419
- See also horizontal vesicular zones; megavesicles; microvesicles; pipe vesicles
- vesicles, calcite-filled, photograph, 200A4:95
- vesicles, clay-lined, photograph, 200A4:95
- vesicles, elongated
 - basement units, 183A7:17–19
 - photograph, 183A7:93, 101
- vesicles, flattened, basalts, 206A3:74
- vesicles, gas
 - petrology, 168A4:65
 - pillow basalts, 168A6:172–174
- vesicles, pipe, photograph, 183A8:44; 206A3:169
- vesicles, ragged, photograph, 183A6:97
- vesicles, segregation
 - origin in volcanic rocks, 135B37:615–623
 - petrography, 200A4:31, 34
 - petrology, 168A4:62, 65
 - photomicrograph, 168A4:62; 5:134; 200A4:104
 - Site 765, 123A4:183; 123B4:204, 213
- vesicles, spherical, basement units, 183A7:22
- vesicles, spheroidal, basement units, 183A6:26, 37–38
- vesicles, tube, photomicrograph, 183A6:87–88; 193A3:117–118
- vesicles, vertical pipe, photograph, 163A4:38
- vesicles, vertically elongated, photograph, 183A6:111
- vesicles, zeolite-filled
 - basement basalts, 123A4:199
 - cores vs. logs, 124B6:78–83
 - index properties, 124B37:507–508
 - porosity, 124B7:93
 - Sulu Sea, 124A11:252–254, 257, 268–273; 124B5:72–73
- vesicles/matrix ratio, vs. depth, 183A5:128–129
- vesicular basalt. See basalts, vesicular
- vesicular sheets, volcanology, 197A3:18
- vesicular texture. See textures, vesicular
- vesicular zones
 - basalts, 192A3:26
 - horizontal, 183A5:22–27
 - photograph, 192A3:80–82
- vesicularity
 - alteration, 197A5:19
 - basalts, 123A4:183; 135B50:809; 136A5:78; 165A6:330; 8:393; 168B10:134
 - basement units, 183A5:15–16, 20–22, 26; 6:25–46; 7:16–35; 9:13–16, 20–22
 - geochemistry, 135B30:535–536
 - lava flows, 163A4:38, 44; 183A8:16
 - petrography, 200A4:32
 - photograph, 168A4:64; 183A7:98–99
 - volcanic glass, 136B4:62
 - volcanic rocks, 129B5:145, 147; 135B25:454
 - volcanology, 197A3:17–18
 - vs. depth, 183A5:78, 81; 7:94, 96, 107; 8:43–48; 9:50, 53, 57, 60; 203A1:25; 3:41
 - See also paleovesicles
- vesiculation
 - photograph, 157A8:407
 - volcanology, 197A3:17
- vesuvianite
 - clasts, 173A9:283
 - deformation, 173A9:289
 - veins, 153B30:524
- VGP. See virtual geomagnetic pole
- vibration-isolated television frame, Luzon Strait, 124E_A16:103
- Vibrio diazotrophicus*, microbial community, 201B3:7
- Vibrio mediterranei*, cultured isolates, 201B2:9
- Vibrio* spp.
 - cultured isolates, 201B1:16; 2:9
 - microbial community, 201B3:6–9
- VICAP. See Volcanic Island Clastic Apron Project
- video sequences
 - coring, 194A4:34; 7:46
 - X-ray imagery, 151B21:381–383
- Vine-Matthews-Morley type initial magnetization, gabbros, 188B16:301, 304, 309
- violarite, veins, 153B30:524
- virtual axial dipole moment
 - remanent magnetization, 138B38:786, 791–792, 794–795
 - vs. age, 197A1:30; 197B1:32
 - vs. depth, 182A5:39
- virtual geomagnetic poles (VGP)
 - Atlantic Ocean equatorial, 121B17:385, 388
 - Brunhes/Matuyama reversal, 121B17:377; 126B23:345
 - Cretaceous, 143B27:407–409
 - demagnetization, 157B6:60–67
 - Kerguelen Plateau, 120B(1)7:95
 - latitude vs. longitude, 145B32:481
 - magnetostratigraphy, 199A10:32; 11:54–55; 12:58–60; 13:18; 14:33; 15:24
 - movement, 145B32:475–482
 - natural remanent magnetization, 126B23:343
 - rapid migration, 126B23:342, 345–346
 - reliability criteria, 121B17:385, 387
 - tectonics, 126B23:342–351
 - See also geomagnetism; magnetic field; paleopoles
- viruses, bottom water, 209A3:170
- visco-elastic response, vs. elastic response, 147B20:368
- viscosity
 - lava, 183B14:3–8; 197A5:13
 - lithology, 173A4:74
 - thermal structure, 186B1:7
 - vs. depth, 197A1:27
 - vs. strain rate, 183B14:16
- viscous flow
 - critical melt fraction, 118B22:403
 - magmatic foliation, 118B24:427
 - solidifying gabbroic magma, 118B22:400–401, 403
- visible and near-infrared spectroscopy, high-resolution mineralogy, 199B11:1–23
- visual microanalysis, methods, 127/128B(1)4:57–62
- VIT. See television surveys; vibration-isolated television frame
- vitric ash, basaltic, photograph, 197A4:42

- vitric fragments
 lithology, 200A3:15–19
 photomicrograph, 180B7:49–50, 57–58
 sandstone, 180B7:9–13
 silica, 180B8:18
 volcaniclastic sand, 180B7:6–7, 21
 vitrinite
 abundance, 180B10:7–9, 13
 Broken Ridge, 121A13:496; 121B24:472
 coal, 180B10:10–11
 dispersed organic matter, 180B10:10
 Galicia margin W, 103B34:569–573
 geothermal gradient, 139B27:490–493
 indigenous nature, 119B4:60
 maturation, 143B12:181–183
 mud, 131B30:379, 382–385
 Ninetyeast Ridge, 121B24:472
 organic materials, 139B28:499–503
 photomicrograph, 180B10:23–25, 28, 31–35
 phytoclads, 180B10:8–9
 Prydz Bay, 119B22:408
 reflectance, 119B22:410; 121B24:476; 141B9:128,
 130–131; 160B50:668; 180B10:11–12, 20–21
 sediments, 141B9:125; 143B12:183–184; 152B24:285;
 157B21:366–367; 164B5:50–56; 180B(synthe-
 sis):15
 Sites 798–799, 127/128B(1)38:670
 South Orkney microcontinent, 113B15:193–194
 vs. carbon isotope ratio, 139B25:474
 vs. depth, 139B28:500, 502–503; 164B5:51
 See also inertinite/vitrinite ratio; phytoclads; telinite;
 telovitrinite
 vitroclasts, petrology, 157B16:268, 270–271
 vitrodetrinite, sediments, 143B12:183–184; 152B24:285
 vitrophyre
 petrography, 195A4:14–16
 photomicrograph, 195A4:85–86, 89
 Site 793, 126A9:360
 vivianite
 abundance, 155A6:108; 7:145; 12:332
 carbon/nitrogen/phosphorus ratios, 155B31:515
 crystals, 155A12:336
 early diagenesis, 155B30:498–501; 41:672
 lithology, 155A9:207–209; 15:443
 photograph, 155A15:445
 sediments, 155A15:448–449; 172B2:4–6
 void fillings, miarolitic, reddish brown, 168B10:130
 VNIS. *See* visible and near-infrared spectroscopy
 void gas, methane in situ, 201B20:1–11
 void ratio
 altered volcanic rocks, 193A3:76–77
 Cagayan Ridge, 124A12:332, 334–335; 14:409–410
 Celebes Sea, 124A10:163–164; 13:358–359, 361
 discrete samples, 207A6:105–108; 7:108–111
 effective stress, 154B8:152
 fluid pressure, 156B17:236–237
 grain size, 190/196B8:9–10
 Mariana Basin E, 124E_A18:130–132
 rocks, 192A3:162–164; 4:122–125; 5:121; 6:113; 7:63
 sediments, 131B19:242; 133A(1)5:160; 141B33:407–
 410; 150B21:380–381; 188A3:56–58; 5:27;
 189A5:164–167; 6:172–176; 7:147–149;
 195A3:169; 207B15:27–29
 Site 794, 127A4:128–133
 Site 795, 127A5:224–227
 Site 796, 127A6:291–293
 Site 797, 127A7:383–389
 Site 798, 128A4:197–198, 202–205
 Site 799, 128A5:345–349
 Site 809, 132A3:70
 subbottom depth, 155B1:1–2
 Sulu Sea, 124A11:250–251, 257
 vertical effective stress, 164B40:427–428
 vs. clay content, 168B6:70, 74–75, 77, 79–80, 82–84;
 190/196B8:19
 vs. coefficient of rebound, 138B16:364
 vs. compression index, 150B21:382
 vs. compressional wave velocity, 139B40:636
 vs. consolidation, 133B41:618; 150B21:382;
 164B40:427–428
 vs. depth, 132A4:73; 133A(1)13:538; 133B42:628;
 135A(1)4:158; 5:235; 6:285; 7:327; 8:373; 9:451;
 10:546; 11:660, 664; 151A5:96; 6:143; 7:200;
 8:256; 10:339; 11:378; 155B6:141; 157A4:85–86;
 8:428; 159A5:114; 6:198; 7:248; 8:288;
 161A6:265; 7:334; 8:388; 9:414; 167A(1)4:82;
 5:114; 6:152; 7:173; 8:207; 10:268; 11:307;
 12:341; 13:375; 14:417; 15:457; 16:482;
 181A3:59; 4:42; 5:48; 6:77–78; 7:99; 8:78;
 186A4:138, 140; 5:81–82; 188A3:148; 4:83;
 5:73; 198A3:102; 4:77; 5:73; 6:68; 7:62; 8:61
 vs. effective stress, 131B21:269; 23:286; 133B42:629;
 138B16:358, 360–363; 139B40:631–633;
 141B33:410–411; 145B36:538, 540–541, 550;
 156B7:111; 17:231; 167B31:334–336; 194B7:9–
 15; 199B12:14; 205B10:9; 207B15:21
 vs. hydraulic conductivity, 146B(1)17:286–289;
 28:419; 156B7:114; 204B12:31–47; 207B15:23–
 26
 vs. mean grain size, 168B6:70–71, 74–75, 77, 79–80,
 82–84
 vs. permeability, 139B40:637; 150B21:383;
 156B24:308
 vs. rebound coefficients, 199B12:15
 vs. stress, 144B56:986, 988; 207B15:23–26
 vs. vertical consolidation stress, 204B12:31–48, 50,
 52, 54, 56, 58, 60, 62, 64, 66
 vs. wet-bulk density, 139B40:636
 See also pore morphology; porosity
 voids
 correlation with color, 167B29:321–322
 gabbros, 205A4:27–29
 lithology, 199A10:7; 202A6:8–9; 204A3:4–8
 photograph, 205A4:93–94, 97–98, 102–103
 thermal anomalies, 204A7:48
 vs. depth, 205A4:87–88, 93–98, 100–104
 X-ray line scanner images, 204A10:72
 Voight-Reuss-Hill average, iron-titanium oxide gabbros,
 118B11:233–234
 volatile fatty acids. *See* acetate; formate
 volatile hydrocarbons. *See* hydrocarbons, volatile; vola-
 tiles

- volatiles
 along faults, 125B36:611
 alteration, 136B11:139; 209A3:36–37
 andesites, 135B25:449–453
 basalts, 142B3:23–29; 4:31–36
 chimneys, 193B1:33–35
 fluid inclusions, 144B48:861–864
 geochemistry, 139A6:197–200
 impact craters, 165A1:8
 inclusions, 157B23:403–410; 27:454
 magmas, 135B55:897
 sediments, 139A7:319–320; 8:479–482
 sideromelane, 157B25:423, 425–426
 Site 786, 125B9:149
 subduction zones, 195B6:9–10
 submarine basaltic volcanic glass, 187B4:1–8
 volcanism, 183A1:38; 183B1:17–18
See also gases; hydrocarbons
- volatiles, magmatic
 evolution, 153B22:407–409
 rodingitization, 147B14:283–284
- volcanic arcs
 Borneo N, 124B9:128–129
 Cagayan Ridge, 124A3:38
 evolution, 141B13:184–185; 180A3:4–5
 Lau Ridge, 135A(1)4:92
 Pacific Ocean W, 124B34:463
 Philippine mobile belt, 124A3:39–40
 sediment provenance, 180B6:16–24
 tectonics, 134A1:5
 tephra, 124B34:459–465
 Tofua arc, 135B1:3
 volcanic arcs, intraoceanic, 125A1:5; 126A1:5
- volcanic arcs, “subduction factory,” 185A1:35
- volcanic ash
 acoustic impedance, 121A13:471; 121B25:490
 age, 125B15:281–282; 126B1:15; 127/128(2)B61:963;
 128A4:123, 155–156; 5:288, 300
 alteration, 110B11:174–175; 114B39:721, 730;
 121A15:523; 121B18:398–399; 20:424, 428;
 44:941; 123A4:94; 5:286; 124B30:406; 34:460–
 461; 36:490–491; 127A1:22; 4:109–110; 7:363–
 364; 127/128B(1)36:641, 643, 646; 40:701;
 (2)79:1267; 87:1375–1378; 128A4:151; 5:288;
 129B16:301; 131A6:134–135; 136A4:39–40;
 156B25:317; 165B19:294–296; 180A9:40;
 183A6:50; 185A4:28–29; 186B14:9; 205A1:11–
 13
 aluminum vs. silica oxide, 127/128B(2)87:1380
 areal distribution, 127/128B(2)48:791
 argon isotopes, 185B13:1–20
 ash fall distribution, 107A6:134
 Aso-4 volcanic ash, 127/128B(1)33:581
 Atlantic Ocean E tropical, 108A4:228
 atomic absorption data, 130B27:457
 backarcs, 186B1:5
 backscattered electron images, 161B8:109
 Barbados Ridge, 110A4:76–79, 81–83; 7:406–409
 barium anomalies, 127/128B(2)87:1377–1378
 basaltic shards, 119B17:326
 basement, 115A10:756; 183A6:22
 bentonite, 123A4:104
 bioturbation, 128A4:153
 boron, 127/128B(1)36:639–640
 Broken Ridge, 121A6:112, 120; 8:191–192, 194–195,
 199; 9:237–238; 13:460, 463–464, 468, 471,
 499–500; 15:525
 Brunhes Chron sediments, 127/128B(2)61:963
 Cagayan Ridge, 124A12:304, 306, 339; 14:401;
 124B34:461–462; 36:491–492
 calc-alkalic type geochemistry, 145B44:664–665
 calcareous chalk contact, 121A6:153
 calcium, 127A6:280; 127/128B(2)87:1383
 Campanian/Tertiary boundary, 121A13:491
 carbonate content, 121A12:401
 Celebes Sea, 124A10:128, 131, 140–143; 13:346;
 124B14:206–209
 cementation, 121A13:498
 chronology, 191B1:5, 17
 clay mineralogy, 123A4:100; 131B28:350–351
 color, 126B2:27; 128A4:151
 composition, 135A(1)5:198–200; 151B18:333–350;
 161B8:106; 162B16:217–230
 consolidation rates, 121B12:260
 core-log correlation, 127/128B(1)23:398, 401;
 (2)65:1025
 core recovery, 127/128B(2)82:1319–1320
 Cornaglia Terrace, 107A9:609
 correlation, 145A3:47; 4:92; 171B_A5:175–176;
 186B8:12, 22; 198B18:17–19, 24–26
 counted and calculated parameters, 198B18:21–23
 Cretaceous, 192A1:6, 14
 Cretaceous/Tertiary boundary, 121A6:149; 14:507,
 512–513
 cross-stratification, 115A10:740
 crystal fraction, 127/128B(2)48:791; 128A4:150
 dark-light cycles, 127/128B(1)33:581
 dating, 110B2:8
 deep-sea sediments, 185B7:4–5
 definition, 128A4:150
 density, 121A10:288
 deposition, 121A11:311, 350; 12:360; 126B14:225;
 156A6:100–101; 171B_A7:324–325
 diagenesis, 110B7:107–109; 134B8:127–129;
 192A3:19–20
 discrete layers, 135A(1)6:257; 7:300; 165B6:122–123
 distribution, 130B27:465; 132A4:84; 152A12:263;
 152B5:62–64; 190A5:45; 8:28
 Dronning Maud Land margin, 113A7:299–302
 erosion, 128A4:153
 eruptions, 180A9:28
 evolution, 120B(1)10:146–147
 expandable minerals/illite ratio, 112B5:75
 fallout, 135B4:52–53
 faulting, 125A14:330
 feldspar composition, 127/128B(2)87:1388
 flux rates, 121A13:465, 468; 121B20:428; 44:939–940
 Formation MicroScanner imagery, 127/
 128B(1)23:398, 400; 128A4:153, 184; 204A3:96
 frequency, 127A4:95–97; 5:190, 193; 7:346, 350; 127/
 128B(2)48:794, 798; 82:1313, 1319–1320;

- 87:1375; 128A4:157, 159; 5:300–301;
202A1:110
geochemistry, 112B28:469–477; 114B40:741;
120B(1)10:140–144; 121A6:135–136; 11:327;
13:472–477, 480–482; 125B7:124; 9:156;
126B2:40; 131A6:135–138, 170–172;
131B26:317; 28:360; 134A11:341–342; 12:414;
13:502–504; 145B23:345–381; 43:661–669;
151B17:309–331; 152B6:67–84; 165B19:291;
171B_A6:287; 205B1:17–18
geochronology, 120B(1)11:156
geotectonic significance, 120B(1)10:144–145
Gortani Ridge, 107A10:885, 887
graded bedding, 127A4:186; 127/128B(2)48:793, 802;
128A4:151–153; 5:285
grain size, 126B2:27, 34; 127/128B(2)48:791;
128A4:150
green bands, 198A6:12–13
green clay, 184B15:15
Hawaiian Islands, 121B32:633
history, 180A1:19–20
homogeneity, 127/128B(2)48:793, 801–802;
128A4:151–153; 5:285
host sediment contacts, 121B14:276
hotspots, 121A10:262
ice sheets, 177B(synthesis):13–14
identification, 144B42:698–699
in situ transformation, 107B19:307
incompatible elements, 121A15:525
intercalcations, 121A15:523
intermediate composition, 127/128B(2)48:793
intersite correlation, 112B28:468–469
inventory, 130A9:387
iridium/cesium ratio, 121B19:417
iron vs. silica oxide composition, 127/128B(2)87:1381
islands, 157A2:14
Islas Orcadas Rise, 114A9:489–491
Izu-Bonin arc, 126B2:23–35, 43–45
Jane Basin, 113A12:708–710
Japan Sea, 127/128B(2)82:1316, 1319–1321;
128A1:32–33
Jurassic–Cretaceous interval, 170A1:7
Kerguelen-Heard Plateau N, 119A5:130; 6:168;
119B17:325–329
Kerguelen Plateau, 120B(1)10:138–139; 11:153;
121A13:463
Kerguelen sediment ridge, 119B17:325, 329
lanthanum vs. ytterbium, 127/128B(2)87:1386
lapilli, 121A11:311
layer thickness vs. depth, 162A7:251; 8:267
layering, 121B14:285–286; 136A4:40; 161A4:62;
170A5:161; 202A4:65; 5:53; 8:83–84; 9:85;
10:78; 11:68; 12:83–84; 13:64
Lesser Antilles arc, 110A5:218–219
Lima Basin, 112A11:163; 18:735, 19:807, 832;
112B28:468
lithic composition, 124A11:218
lithofacies, 165A6:322–324, 347–348; 8:385–391
lithology, 127/128B(2)48:791; 129B14:269;
134A7:125; 8:146; 11:336–338; 135A(1)10:512–
516; 11:585, 589–590; 144A12:443–444;
145A6:218; 7:306; 8:342; 149B45:688;
151A5:69; 152A6:57–62; 12:262–264;
156A7:202–203; 157A7:329–332; 160A4:59;
6:129–130; 7:161; 8:222; 9:294–295; 14:469–
470; 161A4:59–64; 162A5:149; 6:181, 184;
7:227, 231; 8:261; 165A3:54–55, 59–60; 4:142–
148, 150; 6:300–302, 308; 167A(1)5:87, 89;
7:161; 8:181, 183; 10:247; 12:318–320; 14:437–
438; 169S_A2:21–23; 170A3:53, 55–56; 4:104–
108; 5:159; 7:220–221; 171A_A3:27; 5:60, 62;
6:84; 7:100; 171B_A4:118; 7:323; 177A5:6;
178A8:3–4; 180A6:9–10, 17, 19, 22; 7:8–11; 9:6–
11; 12:12–15; 180B6:5, 9–10, 13; 183A1:23;
5:20; 6:4–5; 7:5, 13–14; 184A4:9–10; 5:8; 7:7–8;
8:4; 9:7–8; 185A4:11–12; 186A1:9; 4:18–22; 5:8–
9, 14–15; 190A4:6–9, 41; 5:7–9; 6:4–6; 7:5–6;
9:6–9; 191A4:11–12, 16; 192A3:6–7; 4:5;
196A3:18; 198A4:11–12; 9:13; 199A10:6–7;
201A8:13; 9:7–11; 202A4:8; 5:6–8; 6:7–9; 7:7–
10; 8:7–11; 9:7–11; 10:8–10; 11:8–10; 13:7–9;
204A3:9–10; 4:6–8; 7:4; 9:6–7; 206A3:23–26;
208A3:6–7; 4:6–8; 5:5; 7:7–9; 8:5–9; 210A3:49
low density, 171A_B3:6
Madingly Rise, 115A7:465; 9:671
magmatic composition, 127/128B(2)48:793
magnesium/calcium ratio, 117A19:617
magnesium, 117B30:508; 127A5:280; 127/
128B(2)79:1265; 87:1382
magnetic properties, 114A8:395; 115A4:140; 8:606–
607; 9:671; 10:746; 115B11:113; 41:741;
120B(1)15:238–239; 121A8:206; 9:247; 12:423;
13:475, 482–483, 488, 491; 121B14:276;
15:307–309; 16:307–309; 39:779, 784, 796, 798,
801; 125A10:220–221; 127A3:105; 4:199;
134B25:448; 136B3:45–46; 165A4:159–160
magnetic susceptibility and lightness, 208A6:52
magnetostratigraphy, 162B4:132, 135
major elements, 125B15:279–292; 131B14:175–183;
170A5:180
mantle sources, 125B9:157
marine sediments, 201B19:1–43
Mascarene Plateau, 115A5:240–241, 244
mass accumulation rates, 121A13:471; 121B25:490;
126B2:27, 33; 165A6:324; 165B20:301
massive layers vs. concentrated beds, 121A12:415
Maud Rise, 113A6:194
maximum age range, 121B14:275
microscopic description, 121B14:277
mineralogy, 121B14:277; 127/128B(2)87:1379;
145B43:657–660
minor elements, 170A5:138
Miocene, 165B5:101–113
Miocene–Holocene interval, 125B37:620
Miocene–Pleistocene interval, 185B1:10; 191A1:5–6
Miocene/Pliocene boundary, 115A7:461
modal analysis, 134A12:412
nannofossil-rich clay, 126A7:154
nannofossils, 190A7:9
Nazareth Bank, 115A4:126, 128, 132–133
neodymium vs. zirconium, 127/128B(2)87:1386
Neogene, 198B1:15

- Ninetyeast Ridge, 121A15:531; 121B10:229
 number of layers, 180A9:94; 12:87; 186A4:180–181
 occurrence, 114B1:17; 127/128B(2)87:1373–1393;
 160A14:480
 Oligocene/Miocene boundary, 115A7:465
 Oligocene–Miocene interval, 192A3:18
 origin, 119A14:514; 121B36:731; 128A4:156–157;
 5:291–292
 oxide stratigraphy, 125B15:287–292; 126B33:512
 oxygen isotopes, 121B22:452–453; 127/128B(1)3:52
 Pacific Ocean W, 124B14:211, 214–215
 paleoenvironment, 152B5:51–64; 184A1:30
 paleolatitude, 121B39:801–802
 patch frequency, 186B1:18
 Peru margin, 112B28:477
 petrography, 114B40:738–739; 125B15:279;
 128A4:150–153; 5:284–288; 161B3:47; 190/
 196B2:1–9; 198B18:1–26
 petrology, 134A13:500–501
 phase chemistry, 156B28:343–351
 photograph, 130A5:111–112; 134A13:500;
 135A(1)4:105; 141A8:247; 145A3:44, 46; 8:345;
 152A12:262–263; 152B6:70; 160A4:62; 10:342;
 13:456; 161A4:63–64, 68–69; 162A4:107; 5:155;
 6:186–187; 8:266; 165A3:56, 80; 6:325;
 169S_A2:25; 170A4:116; 177A9:30; 180A6:89;
 9:68; 12:73; 184A4:48; 6:30; 7:46; 185A4:62–63,
 69–70; 186A4:96–99; 186B8:12; 190A1:56; 4:43–
 44; 5:42; 6:29; 7:24–26; 191A4:69; 192A3:52, 57,
 74, 76; 198A3:66; 4:44; 199A10:25; 201A9:32;
 202A4:34; 6:34; 7:43; 8:48; 10:48; 11:43; 13:41;
 204A3:51, 59; 4:50; 9:59; 205A4:80
 photomicrograph, 180A6:90; 192A4:74–75;
 204A7:33; 205A4:78; 5:51
 physical properties, 121A8:206; 10:247; 13:475, 482,
 488, 491; 121B12:257; 135A(1)4:106–107
 Pisco Basin W, 112A18:709–710, 735; 19:832;
 112B21:358, 359; 28:468
 plagioclase crystallization temperature, 127/
 128B(2)54:873
 planktonic productivity, 121B20:428–429
 pore water, 127/128B(2)79:1265; 131B14:181, 183
 post-middle Miocene supply, 181B1:48
 potassium vs. silica oxide composition, 127/
 128B(2)87:1385
 primary layers, 141B12:173–174
 provenance, 107A6:131; 114B40:738–741;
 120B(1)10:145–146; 11:153–154; 121A13:465;
 121B24:477; 32:633; 126B33:515–516; 127/
 128B(2)48:791; 128A4:122, 198; 132B5:57–66;
 134B21:403–412
 pyrite, 165B19:290
 pyroxene composition, 127/128B(2)87:1388
 radiolarians, 202B6:4–5, 26–28
 recrystallization, 130A9:393
 redeposition, 123B4:104; 43:805
 Salaverry Basin, 112B28:468
 sample intervals and age estimates, 198B18:20
 Sardinian margin, 107A10:757, 784
 secondary mineralogy, 127/128B(2)87:1375–1378
 sediment alteration, 185A4:32–34
 sedimentary types, 127/128B(2)48:793
 sedimentation, 128A4:151–153; 5:284–288; 180A1:4,
 9; 6:34–35; 180B6:24; 181B1:8–9, 99; 192A6:10
 sediments, 152B8:95–113; 165B6:115–124; 184A4:86;
 5:79; 6:54; 7:81; 8:36; 9:97; 185A1:25
 seismic stratigraphy, 121B37:744; 128A4:122, 125,
 153–155; 5:344–351, 379; 131A2:15–16
 silica diagenetic evolution, 127/128B(2)87:1375–1377
 siliceous microfossils, 144A3:64
 Site 682, 112A14:367
 Site 685, 112B5:74; 28:466
 Site 688, 112B28:468
 Site 699, 114A6:156–162; 114B33:612–613
 Site 700, 114A7:261, 264, 266, 300, 305; 114B6:126;
 34:653
 Site 701, 114A8:364, 369–378, 389, 393, 495, 408,
 413; 114B33:614, 617; 39:721–722; 40:733–734
 Site 702, 114A9:490
 Site 703, 114A10:555–556, 558; 114B1:9
 Site 704, 114A11:631–632, 634; 114B1:9; 39:721–722
 Site 708, 115A9:671
 Site 713, 115A10:734, 739
 Site 745, 119A14:513
 Site 747, 120A6:103
 Site 751, 120A10:348
 Site 752, 121B18:398–399
 Site 754, 121A8:199
 Site 757 comparison with Broken Ridge, 121A11:306
 Site 758, 121A12:368, 372, 374, 415; 121B14:286–287
 Site 765, 123A4:91, 93
 Site 782, 125A10:202
 Site 783, 125A11:255
 Site 784, 125A12:275–276
 Site 790, 126A7:142–144
 Site 791, 126A7:147
 Site 792, 126A8:232–236, 238
 Site 793, 126A9:331
 Site 794, 127A4:90; 127/128B(2)87:1374
 Site 795, 127A4:186; 127/128B(2)87:1374
 Site 796, 127A5:251, 264; 127/128B(2)87:1374
 Site 797, 127A5:341; 127/128B(2)87:1373–1374
 Site 798, 127/128B(1)23:397–398; (2)48:791–793;
 61:963; 87:1374; 128A1:33, 35; 4:122–124, 137,
 139–140, 150–157, 196–198
 Site 799, 127/128B(1)34:605; (2)48:791–793; 61:963;
 87:1373; 128A1:33; 5:240, 256, 284–291, 296–
 297
 Sites 798–799 comparison, 128A5:291–292, 301
 slumps, 128A5:285
 sodium vs. silica oxide composition, 127/
 128B(2)87:1384
 sourced basal contacts, 121A15:521–522
 South Orkney microcontinent, 113A10:533, 535;
 11:620
 stratigraphy, 130B25:423, 425, 428–433; 152B41:509–
 510; 205A5:15–16
 strontium, 127A6:280; 127/128B(1)34:607
 Sulu Sea, 124A11:201, 208–210, 212, 218–219, 221;
 124B14:206–209; 30:406; 34:461–462; 36:491–
 492
 Sumisu Rift, 126B1:10

- Sunda arc origin, 121B39:822
 syngedimentary/postsedimentary processes, 128A4:153
 synthetic seismograms, 128A4:184
 temporal variations, 121A13:474–475; 186B9:7–8
 tephra fall deposits, 183B9:7–8
 tephra markers, 127/128B(2)48:793–796, 798–799; 128A4:157; 5:291–292
 thermal conductivity, 121A6:147
 thermomagnetic behavior, 134B28:498
 thickness, 121B14:277; 126B2:27; 127/128B(2)48:791, 795, 799; 61:963; 82:1319; 87:1375; 128A4:157; 5:301; 131A6:84; 151B17:314; 18:335–350; 31:556; 34:599; 165A4:173, 175; 180A6:121
 thickness/core ratio vs. age, 165A3:83
 thorium/uranium ratio, 128A5:339
 thorium vs. zirconium, 127/128B(2)87:1386
 Tiburon Rise N, 110A5:214–216
 titanium/aluminum ratio, 205B3:4
 Toba ash correlation, 121A15:520; 121B25:489
 trace elements, 121A12:393; 134A8:154; 170A4:139; 5:181
 transport mechanisms, 121A13:465; 126A7:158
 Trujillo Basin, 112A16:530; 112B28:465
 turbidite sedimentation, 134B7:106
 turbidity flows/slumps, 127/128B(2)48:793; 128A4:153–154
 Turonian–Eocene flux rate, 121A4:90
 types, 121A13:471
 Tyrrhenian Sea, 107B9:134
 volcanic glass, 112B28:469; 128A4:150
 volcanoclastics, 157A8:414–415
 volcanism, 127/128B(2)48:796–797, 800; 165A4:195; 181B1:24–26
 vs. age, 144B42:720; 165A8:388, 391; 180A1:51; 202A11:46; 206B4:23
 vs. calcium carbonate, 121B27:521
 vs. calcium oxide, 185B7:14
 vs. depth, 136B7:86; 145A3:43; 4:90; 5:129; 6:217; 8:342; 165A6:320; 8:392, 397; 165B19:296; 177A5:37; 184A5:42; 185B7:13; 186A5:49–50; 190A4:6–9, 41; 5:45, 62; 6:28–29, 31; 8:28; 197A5:36; 202A4:32; 8:47
 vs. sodium, 177B(synthesis):47
 vs. terrigenous component, 165A3:76–79
 well-logging, 120B(1)58:1056–1059; 128A5:288, 339–340; 171A_A5:62
 X-ray diffraction data, 131A6:107; 190A4:114; 5:47, 102; 6:74; 7:7, 65; 8:68
 X-ray fluorescence data, 121A12:403; 128A4:151; 132A4:85; 170A3:76–79; 4:137–141; 5:177–178; 171A_A5:62
 Yaquina Basin, 112A15:443, 450; 112B28:465–466
See also chalk-chert-volcanic ash layer; palagonite/volcanic ash ratio; tephra; vitric ash; volcanic glass; volcanoclastics; welded ash
- volcanic ash, acidic
 composition, 127/128B(2)48:793; 128A4:151, 158; 5:287
 Peru margin, 112B28:478
 volcanic ash, air fall, composition, 135B3:43–44
 volcanic ash, altered
 lithology, 145A5:132–133
 photograph, 205A5:50
 X-ray diffraction data, 210A3:237
 volcanic ash, basaltic
 composition, 152B6:70–71, 79–84; 201B19:11–12
 lower Oligocene, 183A6:35–36
 volcanic ash, basanitic, Miocene–Quaternary, 119B17:326, 333
 volcanic ash, basic, composition, 127/128B(2)48:793; 128A4:151; 5:285–286; 151B17:318–323; 18:339–343
 volcanic ash, bioturbated
 lithology, 130A9:387
 photograph, 186A4:98
 vs. depth, 186A5:49–50
 volcanic ash, black sandy
 nannofossil-rich claystone, 126A5:72
 Site 787, 126A5:74
 volcanic ash, dispersed
 bulk sediments, 165A8:394, 396
 chromium, 165A5:261
 cumulative percentage, 165A4:173
 cycles, 185B7:19
 distribution, 165A5:262–263, 275
 geochemistry, 165A6:321–322
 vs. age, 165A4:173
 vs. depth, 165A4:173; 185A4:32–34, 125
 volcanic ash, glauconite-bearing, 121A11:331
 volcanic ash, graded, photograph, 178A8:31; 190A9:30
 volcanic ash, inclined, photograph, 190A9:31
 volcanic ash, indurated, Mediterranean Sea, 107A9:613
 volcanic ash, interbedded, lithology, 165A5:238–239, 241, 243–248
 volcanic ash, laminated bioturbated, photograph, 190A1:71; 8:34–35
 volcanic ash, nannofossil, lithology, 145A5:132; 171B_A3:51–54
 volcanic ash, overturned bed, photograph, 190A6:31
 volcanic ash, plinian-type, geochemistry, 145B44:664–665
 volcanic ash, pumiceous, Site 793, 126A9:328
 volcanic ash, radiolarian-bearing clayey, lithology, 185A4:11–14
 volcanic ash, reworked
 photograph, 186A4:97, 99
 vs. depth, 186A5:49–50
 volcanic ash, rhyolitic
 derivation, 186A1:8–9
 Kerguelen–Heard Plateau, 119B17:326, 328
 volcanic ash, sandy, X-ray diffraction data, 126A7:148
 volcanic ash, silicic, distribution, 165A4:174–176
 volcanic ash, tholeiitic-type, geochemistry, 145B44:664–665
 volcanic ash, trachytic
 Chagos Bank, 115A10:739
 Pliocene, 183A6:35–36
 volcanic ash, vesicular, vs. depth, 144B3:66–67, 74
 volcanic ash, vitric
 alteration, 129B5:142
 Cagayan Ridge, 124A12:304

- Celebes Sea, 124A10:141–142
components, 129B5:140, 148
definition, 125B40:675
lithology, 134A12:400; 13:490; 135A(1)4:101;
138A(1)9:124–126
photograph, 134A13:494; 145A5:131–132, 136;
6:221, 226; 170A3:56–57; 7:225, 227;
171B_A4:103–104
shards, 145B23:371, 376; 44:664–667
Site 783, 125B40:680
Site 786, 125A17:316
Site 793, 126A9:331
Sulu Sea, 124A11:201, 208, 218
volcaniclastics, 134B9:133–144
volcanic ash, volcanoclastic, deposition, 126B14:228
volcanic ash, white
 photograph, 202A5:31
 Site 790, 126A7:150
volcanic ash, zeolitic
 Cornaglia Terrace, 107A9:613
 lithology, 157A4:68
volcanic ash bands, photograph, 157A4:69–70
volcanic ash-chert-chalk sequence, Cretaceous/Tertiary
 boundary, 121B21:424
volcanic ash fall layers
 age, 165A5:263–264
 correlation, 157B15:262; 27:467
 emplacement, 157B14:201–218
 geochemistry, 157B18:315–328
 geochronology, 157B19:329–341
 grain size, 157B18:317–318
 lithology, 157A7:332
 mass accumulation rate, 165A4:175–176; 5:265
 photograph, 157A7:333; 8:405; 9:445; 10:510;
 157B16:290; 165A3:80; 4:143, 147; 5:241, 244,
 247
 photomicrograph, 165A4:178
 Pleistocene, 157B25:421–428
 sediments, 195A1:18
 smear slides, 157A7:333
 thickness, 157B16:273
 turbidites, 157B30:529–531
 units, 157B14:205–211
 volcaniclastics, 157A9:454, 456
 volcanism, 157A2:17
 vs. age, 165A4:175; 6:324; 8:386
 vs. depth, 165A5:263
 See also volcanic ash
volcanic ash flows, islands, 157A2:14–15, 19–22;
 157B15:282–283, 285; 27:465–467
volcanic ash layers
 correlation, 171B_B8:1–10; 201B19:12–13, 31
 description, 201B19:35–36
 geochemistry, 201B19:11–12, 40–43
 lithology, 151A6:118–119
 location, 201B19:34
 number, 186A5:102–103
 photograph, 151A5:65–68; 6:124; 167A(1)4:56;
 202A9:50; 206A3:124
 stratigraphy, 151B18:337
 summary, 171B_A7:324
 thickness and number, 201B19:32
 units, 152B8:102
 vs. age, 186A1:34
 vs. depth, 151A5:62
volcanic ash patches, photograph, 186A5:60
volcanic ash-pumice beds sequence, vs. age, 144B42:716
volcanic breccia. *See* breccia, volcanic
volcanic bombs, pyroclastic, photograph, 144A5:186
volcanic centers
 New Hebrides island arc, 134A1:8; 134B35:616
 Ninetyeast Ridge, 121A15:534
 oceanic anoxic events, 198B16:12
 vs. age, 197B1:33
volcanic clasts. *See* clasts, volcanic
volcanic complexes, volcanic stratigraphy, 163B1:3–16
volcanic component
 core catcher samples, 183A6:185; 7:194
 sediments, 152A11:236–237
 vs. depth, 134A7:104; 8:147; 9:190; 10:270–271;
 12:403; 13:492; 189A7:61
 vs. terrigenous/continental component, 145A6:220
volcanic cycles, explosive volcanism, 201B19:1–43
volcanic debris
 clay, 190/196B4:9
 petrography, 198B16:24–29
volcanic domes, hydrothermal fields, 158A1:7
volcanic edifices
 ancient oceanic crust, 129B32:574
 geochronology, 143B17:283
 lithology, 193A1:4
 structures, 129B12:240; 143A1:7
 tectonics, 198A1:6–8
volcanic-enriched base, composition, 135A(1)5:199–200
volcanic eruptions
 catastrophic, 144B17:343–344
 nature of volcanic ash layers, 128A4:152–153
 tephra, 152B8:99, 101
volcanic events
 Aptian, 129A2:47
 Cretaceous, 129A2:81
 mid-Cretaceous, 129A3:158–159; 129B1:6; 18:349–
 351; 31:563
 Site 802, 129A4:235–236
volcanic facies
 fluid flow, 193B1:32–33
 volcanism, 193B1:9–12
volcanic fragments
 length and width, 136B7:90
 Paleocene, 210B2:9
 photograph, 193A1:75; 4:69–70, 75, 180
 photomicrograph, 193A4:82, 129; 210B2:33, 35
 sandstone, 180B7:8–17
 vs. depth, 180B7:30–33, 37, 39–42
volcanic fronts
 geochemistry, 126B26:388; 30:462
 Izu-Bonin arc, 126B42:640
 migration, 127/128B(2)82:1324, 1330; 186B1:22
 Miocene–Holocene interval, 180B(synthesis):4
 Neogene interval, 126B26:386
 Pliocene interval, 126B26:393
 subduction angle, 186B1:6

- volcanic glass
- accessory component, 188A3:74; 188B4:12–13
 - alkalis-magnesium oxide-iron oxide (AMF) diagram, 127/128B(2)53:865
 - alteration, 115B8:91; 118B17:344; 121A13:472; 121B27:521; 123B2:67; 124B13:191, 199; 36:492–493; 125B8:137; 14:266; 131B28:344–345; 168A6:174; 183B15:6–9; 185A3:26; 187A1:10–11; 6:25; 7:5–8; 187B1:8–9; 192A3:31; 6:19; 7:9; 192B6:5; 193A3:44–47; 200B3:13–14; 205A4:32–33; 6:10; 206A3:67
 - analytical methods, 125B8:131, 135–136; 15:277–279
 - andesitic magma series, 127/128B(2)87:1378
 - backscattered electron images, 161B8:109; 178B22:16
 - basalts, 121B29:549; 152B30:362; 165B15:233–235; 169A6:272; 183A5:31–32; 191A4:144; 195A4:21–22; 195B8:4–5; 197A5:10
 - basement units, 183A8:15, 20–22
 - Beloc Formation, 165A1:7
 - biodegradation, 187A6:30
 - bubble walls, 123B4:110
 - Cagayan Ridge, 124A6:93; 12:304–306, 311–314, 339; 14:402–403; 124B36:491–492
 - carbon dioxide and water content, 125B8:136
 - Celebes Sea, 124A10:141–142; 13:360, 362–369; 124B36:490
 - classification, 125B40:675–676
 - composition, 147B9:176; 148B3:22–23; 11:167; 161B8:106; 163B9:98; 193B2:30; 198B18:13; 200B3:35
 - crystallinity, 125B15:279
 - deposition, 171B_A7:324–325
 - diabases, 210A1:15
 - diagenesis, 135A(1)11:596–597
 - discoloration, 121A13:471
 - dissolution, 127/128B(2)87:1375, 1389; 165B19:294
 - distribution, 132A4:84; 139A6:232
 - electron microprobe data, 135B4:54–55; 142B1:6; 147B9:183; 178B22:23
 - energy dispersive X-ray fluorescence spectrometry (EDS), 112B28:473
 - enrichment/depletion diagram, 169A3:99
 - evolution, 120B(1)10:146–147
 - feldspars, 112B28:475–476
 - fractional crystallization, 192B1:6
 - fragments, 132B5:58–59; 136B4:57
 - framework-grain composition, 125B40:677–678
 - fresh glass, 124B36:491–492
 - Galicia margin W, 103A8:130
 - geochemistry, 107B14:300; 18:298–302; 19:311; 38:657; 112B28:473–474; 114B40:736, 743–745; 115B3:38; 119B17:337–343; 120B(1)10:142; 121A13:471–472; 123B10:205–206; 33:568; 36:603–613; 52:839–840; 53:851–853; 124B36:494–495; 127/128B(2)87:1374–1379; 129B17:330; 134B21:407–409; 135A(1)7:301–304; 9:416–417; 135B3:41–42; 4:55–61; 6:92–94; 25:431; 27:500–503; 29:529–530; 30:533–542; 141B12:174; 27:331–348; 142B11:83–85; 152B6:67–84; 187A4:22; 5:22; 6:41–42; 7:38–39; 8:56; 9:26; 10:29; 11:41–42; 12:47; 13:46; 14:33; 15:48; 201B19:10, 39; 203B2:3–8, 28, 30–34; 209A1:88, 103
 - geochronology, 120B(1)11:157
 - groundmass, 193B2:5–8; 206A3:57–59
 - hyaloclastite, 143B16:268
 - hydration, 191A4:33
 - ice-rafted debris, 120B(1)14:210; (2)63:1098
 - impact craters, 165A1:8
 - index of preservation, 165A4:177
 - interlaboratory comparison, 152B7:85–91
 - isocons, 169A3:99
 - Jurassic quiet zone, 185A1:19–20
 - Kerguelen-Heard Plateau N, 119B11:218
 - Kerguelen Plateau, 120B(1)11:153
 - lava, 197A3:15; 5:15
 - lead-206/lead-204 ratio vs. lead-208/lead-204 ratio, 187B1:31
 - liquid line of descent, 125B15:280–281
 - lithology, 134B5:79; 135A(1)4:101; 9:416–417; 11:589–590; 160A8:220–222; 13:454; 165A4:147; 6:305, 308; 167A(1)4:55; 5:87, 89; 6:132–135; 9:227; 11:288–291; 12:318–320; 15:437–438; 170A3:53, 55–60; 4:103–104, 108; 5:161; 6:195; 7:219–221, 223; 171B_A4:100; 180A5:7; 7:8–10; 9:8–11; 10:7; 12:5, 8–9, 11, 13–15; 180B6:5–7, 10, 12–14, 16; 183A1:28; 4:12–13; 7:7; 185A3:12; 4:11–12; 186A1:9; 4:17–18; 5:9–11; 187A11:4; 189A6:13–15; 7:12–18; 190A4:8; 5:8–9; 8:5–9; 191A4:13, 16; 192A1:12, 25; 193A3:23; 197A5:5; 198A5:11–12; 10:5; 199A14:6; 200A1:23–30; 201A12:7–11; 202A4:7–8; 5:6–8; 7:7–10; 12:6–10; 204A3:9–10; 4:6–8; 6:6–7; 7:4; 9:4–7; 205A6:9; 206A1:27–28, 116–117; 3:54–55; 208A7:7; 210A3:28
 - location, 185A4:167
 - magmatic affinities, 124B35:475–476
 - magnetic properties, 120B(1)15:238
 - magnesium oxide vs. calcium oxide, 153B17:348
 - major elements, 115B3:25; 125B8:136, 138–139; 135B3:27–32; 26:475; 142B6:44; 148B39:483–487
 - margin rapid cooling, 129B18:346
 - Marsili Basin, 107B19:319; 38:668
 - Mascarene Plateau, 115A5:235
 - melting regime, 153B10:184–185
 - microbiology, 185A3:50–51; 193A3:225–227; 6:26; 206A3:86
 - mineral chemistry, 115B3:28–29, 31–32; 152B33:412, 416; 200B3:8
 - mineralogy, 118B21:382
 - minor elements, 170A3:77
 - montmorillonite composition, 125B14:269
 - morphology, 114B40:738–739, 748–749
 - norms, 124B35:472–473
 - occurrence, 187A3:29
 - oxides, 112B28:469
 - oxygen isotopes, 124B36:503
 - Pacific Ocean W, 124B35:468–469
 - paleoenvironment, 152B5:51–64
 - parental magmatic composition, 127/128B(2)87:1377
 - Peru margin, 112A17:602; 112B28:474

- petrography, 161B12:139–148; 168B10:120–121;
14:169; 187A8:5–6; 15:6–7; 200A4:29–36
- petrology, 135B55:888–905; 158A10:199–200;
191A1:15; 193A5:5; 6:4
- petrophysics, 143B18:303
- phase equilibria, 152B30:367
- photograph, 135A(1)11:640–641; 139B6:81–84;
141A9:312; 141B12:175, 179–180; 142A3:44;
146A(1)7:317; 148B14:208; 152B8:112–113;
157A7:338; 158A10:196, 201; 158B18:248;
161A4:63; 169A3:93; 170A3:56–57, 60;
171B_A4:111; 180A7:29; 9:69, 71; 183A1:91;
4:65; 7:79, 84; 8:71–72; 9:56; 185A4:72;
187A1:38; 8:32; 10:7, 16, 18; 11:27; 12:20; 14:9;
15:28; 192A3:80–84; 5:75, 78; 195A4:97–98,
100–102; 197A1:35; 3:67, 128; 204A3:59; 4:50;
9:36; 206A1:76; 3:170–171, 234–235
- photomicrograph, 129B4:134; 5:152; 157A7:357;
161B12:145; 168A4:74; 5:137; 169A3:94–95;
180A6:103; 8:63; 9:73; 10:23; 183A1:92; 7:80–
82, 86; 8:52, 58; 185A1:57–58; 187A5:12; 12:28;
15:31, 38–39; 187B5:16, 19; 191A4:68;
192A1:58; 3:94; 4:74, 76, 78, 87–92, 95–98;
193A1:78, 81; 5:8; 6:16; 193B2:17; 194A4:60;
197A3:71; 198B16:20, 23; 204A4:52; 5:26;
205A4:90, 108; 206A3:240; 209A4:11
- phyllitic secondary products, 112B28:4
- Pigafetta Basin, 129B5:140, 143; 6:155, 158, 159
- pillow lava, 169A3:93–94
- potassium/argon dating, 123B43:805
- pyroclastic sequences, 124B13:187
- quartz + clinopyroxene + olivine system, 135B25:445
- recovered samples, 203A3:85
- refractive indexes, 135A(1)4:107
- replacement, 124B14:211; 148B11:155
- reworking, 135A(1)5:199
- rhyolites, 135B57:923
- samarium/neodymium ratio, 187B3:5
- sandstone, 127/128B(1)7:104
- secondary minerals, 142B9:72
- secondary textures, 148A3:134
- sedimentation sources, 180A6:34–35
- sediments, 136B5:69; 146A(1)6:253; 171B_A4:107;
180B6:17–24; 189A5:69
- shard morphology, 118B17:344
- shoshonitic group, 112B28:474; 127/128B(2)87:1378
- silica variation, 135A(1)1:17
- sill zoning, 210A3:67
- Site 681, 112B28:466–467
- Site 693, 113B6:78
- Site 698, 114A5:107
- Site 699, 114B37:687–688
- Site 700, 114A7:261
- Site 701, 114A8:369, 375
- Site 703, 114A10:557; 114B22:387, 395
- Site 748, 120B(1)8:118
- Site 765, 123B10:202–203
- Site 781, 125A10:184
- Site 786, 125B8:138
- Site 801, 129B2:36
- spinels, 135B34:586–587
- Sulu Sea, 124A6:93; 11:201, 209–214, 253, 257, 259–
263; 124B13:183–186
- tephra, 205A4:20
- textures, 119B17:325
- trace elements, 170A3:78
- Tyrrhenian Sea, 107B38:667
- vesiculated vs. shards vs. blocky textures, 198B18:14
- volcanic ash, 156B28:347–351; 190/196B2:4;
198B18:5–8
- volcanic sand, 136B4:55–59; 180B7:6–7
- volcaniclastics, 136B7:87; 180B8:8–9
- vs. age, 178B15:12
- vs. depth, 135A(1)4:102; 5:192; 141A9:314;
146A(1)5:142; 160A5:96; 7:164; 8:228;
170A3:61; 186A4:84; 6:77–78; 189A7:65;
192A1:68; 3:79; 5:52; 6:62; 197A3:52, 57;
202A6:30; 7:41; 8:45; 11:38; 12:48; 13:37;
204A4:51; 9:42; 205A4:79; 5:53; 6:28; 208A3:30
- vs. lithology, 141A10:351
- xenoliths, 193B6:3
- X-ray diffraction data, 202A11:45; 204A4:53
- Yaquina Basin, 112A15:441–443, 445–446, 449–450;
112B28:465
- See also* basalt glass; basalts, vitric; clasts, vitric; devit-
rification; glass inclusions; glass shards; perlite;
pseudotachylite; sideromelane; tachylites; Tran-
sitional Pacific-type glass; vitric ash; vitric frag-
ments
- volcanic glass, alkaline, volcanic ash, 127/
128B(2)87:1378, 1387
- volcanic glass, altered
- basalts, 183A4:17–19
- basement, 183A7:15, 26
- chemical composition, 168B10:128, 130, 134
- gabbro sills, 205A4:27–28
- photograph, 185A3:80, 114; 197A4:46; 206A1:77
- photomicrograph, 183A4:47; 8:56; 210B2:33
- volcanic glass, andesite
- geochemistry, 126B26:386–387
- photograph, 135A(1)6:271
- Site 787, 126A5:69
- volcaniclastic breccia, 126B28:433
- volcanic glass, banded, photograph, 158A8:150
- volcanic glass, basaltic
- alteration, 115B9:94; 121A15:521; 148B13:191–206
- calcium vs. magnesium number, 118B21:384
- composition, 118B4:88; 148B10:125
- geochemistry, 142B3:23–29
- lithology, 192A6:8
- major oxides, 118B4:86–87
- melt composition, 147B6:120
- microbial activity, 148B14:207–214
- phosphate, 118B4:88, 103
- photograph, 148B14:214; 187A12:39
- photomicrograph, 187A6:30; 209A8:8
- Pigafetta Basin, 129B14:275
- potassium oxide, 118B4:88
- reflective index, 136B7:92
- Site 864, 142A4:57–60
- sulfur content, 118B4:88–89, 99
- type 2 and 3, 118B4:86–87

- volatiles, 142B4:31–36
- volcanic glass, boninitic
 - alteration, 125B8:137
 - water content, 125B8:136–138
- volcanic glass, brecciated, photograph, 183A8:59
- volcanic glass, brown, petrography, 134A11:338
- volcanic glass, calc-alkaline
 - occurrence, 127/128B(2)87:1378, 1387
 - Tyrrhenian Sea, 107B14:299–300
- volcanic glass, chloritized, strontium and oxygen isotopes, 158B22:302
- volcanic glass, dacitic, petrology, 125B8:136–138
- volcanic glass, detrital, alkalis-magnesium oxide-iron oxide (AFM) diagram, 135B6:98
- volcanic glass, devitrified
 - andesites, 134A8:154
 - basalts, 185A3:95; 191A4:27; 192A6:17
 - lithology, 187A3:5–6; 209A7:3
 - photomicrograph, 185A3:93; 187A7:25; 192A5:60; 200A4:105
- volcanic glass, experimental, composition, 152B30:362
- volcanic glass, felsic, composition, 135B52:833–838
- volcanic glass, groundmass, vs. depth, 185A3:101
- volcanic glass, highly vesicular altered, photomicrograph, 192A4:93
- volcanic glass, isotropic, glassy rims, 168B10:128
- volcanic glass, mafic, alkalis-magnesium oxide-iron oxide (AFM) diagram, 141B27:343
- volcanic glass, mid-ocean-ridge basaltic, 203B2:1–36
- volcanic glass, palagonitized
 - lithology, 187A7:3–5
 - photograph, 187A1:26; 6:29; 7:13; 200A4:101
 - photomicrograph, 200A3:83, 90–94, 98; 205A4:85
- volcanic glass, peralkaline, composition, 127/128B(2)87:1378
- volcanic glass, perlitic
 - hydrothermal alteration, 193B1:16–18
 - photomicrograph, 193B6:13
- volcanic glass, quenched, photomicrograph, 187A15:17; 192A1:49; 3:100
- volcanic glass, recrystallized, Broken Ridge, 121A11:324
- volcanic glass, rhyolitic
 - Bonin/Mariana region, 125B8:136–138
 - photomicrograph, 165A3:81
 - Tyrrhenian Sea, 107B18:300
- volcanic glass, silicic
 - geochemistry, 152B5:57–64
 - photomicrograph, 165A4:177–180
- volcanic glass, spherulitic, photomicrograph, 187A6:22
- volcanic glass, submarine basaltic
 - geomagnetism, 197B1:10–11
 - volatiles, 187B4:1–8
- volcanic glass, tachylitic, photomicrograph, 157A7:358
- volcanic glass, vesicular
 - backscattered electron imagery, 201B19:23
 - photomicrograph, 161B3:55; 193B6:7–15
- volcanic glass, vitrophyre, composition, 157B15:241–243, 254, 256
- volcanic glass, xenomorphic, gabbro sills, 205A4:27–28
- volcanic glass fragments, photomicrograph, 157B14:218
- volcanic glass margins
 - photograph, 206A1:75; 3:168–169
 - photomicrograph, 206A3:177
- volcanic glass particles, photograph, 134B9:171
- volcanic glass/pumice ratio, volcanic ash, 201B19:8–10
- volcanic glass residue, smear slides, 199A6:15
- volcanic glass rims
 - alteration, 148B13:202–204
 - rims, 157B14:218
- volcanic glass rinds
 - alteration, 187A4:4; 7:5–8; 11:7–10
 - basalts, 192A3:26
 - geochemistry, 141B27:346–347
 - lithology, 187A3:5–8; 9:3–5; 14:3–4; 209A7:5
 - petrography, 203A3:10–12
 - photograph, 187A14:9; 15:27
 - pillow basalts, 187A4:3; 5:2–3
- volcanic glass rip-ups, photograph, 183A6:120
- volcanic glass/variolithic zone, quench textures, 148A3:133
- volcanic grains
 - lithology, 180A5:13; 180B6:13
 - photomicrograph, 180A5:50–52
 - vs. age, 195B3:24
- volcanic groundmass, photomicrograph, 178B22:16
- Volcanic Island Clastic Apron Project (VICAP), volcanism, 157A2:11–25; 157B27:465–467
- volcanic islands
 - deposition, 144A3:53–54; 5:163–164
 - drilling, 157A2:11–25
 - flooding, 144A3:86
 - geology, 129B6:160
 - lithology, 202A7:9–10
 - near emergent, 129B5:147
 - volume, 157B27:447
 - See also* guyots; seamounts
- volcanic oceanic plateaus
 - basement, 192A1:1–75
 - oceanic anoxic events, 198B16:10–11
- volcanic piles
 - basalts, 129B24:448
 - Jurassic, 129B24:447
 - post-Calloviaian rotation, 129B25:459
 - Site 766, 123B31:577–578
- volcanic plateaus, rifts, 152B41:517
- volcanic provinces, demagnetization, 152B21:263–264
- volcanic rock fragments
 - lithology, 180A12:8–11
 - photomicrograph, 190/196B3:25, 27
 - quartzose sand, 190/196B3:7
 - sand, 190/196B3:6
 - sedimenticlastic sandstone, 190/196B3:9
- volcanic rocks
 - age, 135B14:221, 223
 - alteration, 129B14:275; 135B40:662; 148B34:419–421; 35:435–450
 - analytical methods, 126B26:383–385
 - basement, 180B(synthesis):6; 183A9:16–17, 19–20; 197A6:8–14
 - Cagayan Ridge, 124A6:93–97; 14:402–405
 - CIPW normative mineralogy, 135A(1)9:447

- classification, 134A11:345; 193A6:24
 clasts, 134A8:152–154
 clay minerals, 124B31:428; 178B8:8–9
 composition, 152B27:315–330; 28:331–357; 35:425–429; 183A1:71–72; 183B12:24
 correlation, 180B1:3
 flow morphology, 163A5:56
 forearc generational environment, 126B27:422
 geochemistry, 123B42:793–796; 124A12:314–315; 126B26:386; 134B16:337–352; 19:383–401; 135B24:385–425; 38:625–646; 141A9:316; 141B27:331–348; 161B27:357–373; 163B7:63–75
 geology, 169A1:12
 group D composition, 137/140B7:94
 Harker variation diagrams, 135A(1)1:38–39; 141A9:318
 hydrothermal alteration, 135B40:653–663
 incompatible elements, 135A(1)1:40
 Izu-Bonin forearc, 126B27:426
 Japan, 126B29:449
 land suites, 124B35:477
 lithology, 135B16:248–249; 152A9:123–125; 183A1:20, 25; 8:6; 194A4:10; 200A3:14–19; 205A6:10
 magnetic susceptibility, 152B23:271–280
 mineral chemistry, 152B33:403–416
 nitrogen geochemistry, 148B1:3–7
 paleomagnetism, 144B34:585–604
 petrography, 126B28:432; 195A4:20–22
 petrology, 134B16:337–352; 18:363–373; 135A(1)11:643–644; 135B55:888–905; 152A13:279–281
 petromagnetics, 141B4:51–57
 photograph, 152A9:129–134; 194A4:59; 8:40
 physical properties, 119A7:266
 point counts, 193A3:269; 4:235; 5:12; 6:36
 potassium-argon age, 124B23:329–330, 333–334
 prebreakup, breakup, and postbreakup series, 163X_A1:3–4
 quartz-potassium feldspar-plagioclase phases, 193A6:25
 Rajmahal, 120B(1)2:36
 regional comparisons, 135A(1)1:36–37
 Réunion, Mauritius and Deccan traps, 115A4:128–129
 rift valleys, 147A1:6–7
 rifted margins, 163X_A1:3–4
 Site 698, 114A5:95
 stratigraphy, 126A7:184–185; 143B15:247; 152A11:227; 197A1:14–15
 Sulu Sea, 124A6:93–97
 thrust sheets, 134B2:21–26
 Tortonian, 161A1:11
 trace elements, 183A5:120; 193A3:284–285, 290–291
 vesicularity, 135B37:615–623
 X-ray fluorescence data, 152B36:431–435
See also andesites; basalts; boninites; breccia, volcanic; conglomerate, volcanic; dacites; hawaiites; komatiites; lamproites; lapillistone; obsidian; phonolites; picrite; pumice; rhyodacites; rhyolites; scoria; trachyandesite/trachydacite field; trachy-
 basaltic composition; trachydacites; trachydacitic composition; trachytes; trachytic alignment
 volcanic rocks, acidic
 hemipelagic sediments, 126B32:498
 photomicrograph, 180A5:63; 7:32; 9:72, 84
 volcanic rocks, alkalic, magmas, 183A7:40–42
 volcanic rocks, altered
 photograph, 193A4:170, 181–182, 188
 photomicrograph, 193A4:99–100, 171; 205A5:55
 volcanic rocks, altered aphyric
 lithology, 193A3:21–33; 4:15–23
 photomicrograph, 193A4:101
 volcanic rocks, altered felsic, X-ray diffraction data, 193B11:1–19
 volcanic rocks, altered fractured, lithology, 193A3:21–33
 volcanic rocks, altered vesicular, lithology, 193A3:21–33
 volcanic rocks, aphyric, lithology, 193A4:16–23
 volcanic rocks, aphyric vesicular, lithology, 193A4:16–23
 volcanic rocks, basic, photomicrograph, 180A10:31–32
 volcanic rocks, bimodal, composition, 126A7:155; 9:344
 volcanic rocks, bleached
 lithology, 193A3:21–33; 4:10–23
 photomicrograph, 193A4:121, 122
 volcanic rocks, brecciated, lithology, 193A3:27–33
 volcanic rocks, calc-alkalic
 sediment provenance, 180B7:21
 Tyrrhenian Sea, 107B1:10
 volcanic rocks, disturbed, basement, 183A9:17, 20
 volcanic rocks, felsic
 chemical composition, 183A5:127
 geochemistry, 183A5:36–37
 volcanic rocks, flow-laminated, photograph, 193A3:112, 200–201
 volcanic rocks, fractured bleached, photograph, 193A3:153
 volcanic rocks, layered, orientation, 193A4:41, 43; 6:7
 volcanic rocks, magnetite-rich, lithology, 193A3:28–33
 volcanic rocks, microlitic, photomicrograph, 155A10:255
 volcanic rocks, perlitic flow-banded, lithology, 193A3:21–33
 volcanic rocks, plagioclase-phyric
 lithology, 193A3:28–33
 photograph, 193A3:124; 4:94
 volcanic rocks, plagioclase-rich poikiloblastic, photomicrograph, 193A4:124
 volcanic rocks, rhyolitic, potassium-argon dating, 123B43:803
 volcanic rocks, silicic
 composition, 141B28:355–358
 sediment provenance, 180B7:21
 volcanic rocks, silicified
 lithology, 193A3:22–23, 27–33; 4:16–23
 photograph, 193A4:73, 184
 photomicrograph, 193A4:88, 123, 128
 volcanic rocks, vesicular
 lithology, 193A4:11–23
 photograph, 193A1:51; 3:108, 110, 150; 4:133
 volcanic rocks, vesicular aphyric, photograph, 193A1:65; 3:108; 4:95, 132; 5:7

- volcanic stratigraphy
 physical properties, 163B2:19
 seismic reflection, 163B1:3–16
 Site 896, 148A3:129–132
 Sites 504 and 896 comparison, 148A3:141
- volcanic substrate
 construction, 144B27:574–577
 drowning, 144B17:341–342
 formation, 144B45:782
 guyots, 144B47:820–821; 49:884–885; 53:937–938
 lava, 144B53:942–943
 size, 144B27:577–578
 weathering profiles, 144B14:275; 18:366
 well-logging, 144A7:284
- volcanic terrains, bioclastics, 194A8:13
- volcaniclastic facies
 hydrocarbons, 190A8:18
 lithology, 190A4:8; 8:7–9; 196A1:6; 3:18
 subduction, 190/196B3:3
 volcanic ash, 190/196B2:3
 well-logging, 196A3:21–22, 54
 X-ray diffraction data, 190/196B5:7
- volcaniclastic-hemipelagic intercalation, Sumisu Rift, 126B33:509; 39:576
- volcaniclastic sand. *See* sand, volcaniclastic
- volcaniclastic sandstone. *See* sandstone, volcaniclastic
- volcaniclastic silt. *See* silt, volcaniclastic
- volcaniclastic siltstone. *See* siltstone, volcaniclastic
- volcaniclastic turbidites. *See* turbidites, volcaniclastic
- volcaniclastic units, stratigraphy, 157B15:219–266; 16:276–278
- volcaniclastics
 acoustic basement, 165A4:133–134
 acoustic properties, 143B18:287–303
 across transfer zones, 126B38:566
 across transform zones, 126B42:644
 age, 126B31:467; 42:634; 157B19:329–341; 161B12:148
 alteration, 134B9:131–176; 152B9:115–128; 183A6:50–52; 7:42–43; 193A3:39–41; 197A4:23–24; 6:17
 apatite, 129B7:170
 Aptian–Albian–Cenomanian interval, 129B3:96
 arc rhyolite correlation, 126B26:393
 backarc spreading, 126A1:8–9
 basalts, 191A4:28–35
 basement, 165A8:392–393; 180B3:3–4; 183A5:32, 40–43; 6:22, 24–25, 36–37; 185A1:16–19; 197A1:9–10
 bed thickness, 135A(1)9:416
 biostratigraphy, 129B12:229; 197B3:2–5
 Bonin–Mariana forearc, 126A1:6
 bulk chemistry, 129B5:143
 calcite veins, 119A7:244
 calcium oxide–aluminum oxide–potassium oxide diagram, 200A1:64; 3:106
 Cascadian pulse, 126B3:63
 Celebes Sea, 124A10:140–141
 chemical evolution, 157B27:453–455
 classification, 120B(1)10:137–138; 121A2:41–42; 125A2:23–24
 composition, 107B4:53; 129B5:142; 6:153; 135A(1)7:301–304; 135B52:833–838; 144B55:973–981; 157A8:416–417; 10:524–525; 157B13:185–189; 15:240–243; 27:451–453; 161B12:137–156
 core ages, 129B2:33
 Cornaglia Terrace, 107B38:657
 correlation, 157B15:262
 Cretaceous, 129B1:4
 Cretaceous/Paleogene boundary, 192A3:17–18
 crust, 195B2:8–9
 De Marchi Seamount, 107B38:657–658
 deposition, 107B18:293–294; 125B14:269; 134B7:97–107; 157A7:340–341; 9:448–449; 10:514–515; 157B16:273–274; 27:451; 165A3:103; 192A3:12–13; 6:12; 210B8:18
 diagenesis, 180A9:42
 dropstones, 145B12:196–203
 emplacement, 157B15:219–266; 16:267–291
 Eocene, 126B42:629–632; 192A3:17–18
 eruptions, 180A9:28; 183A1:37; 192A1:57; 4:54
 evolution, 135B53:850–853; 157B9:101–114
 fluid inclusions, 157B26:429–439
 frequency in tephra pods and layers, 186B9:19, 29
 genesis, 157B14:215–216; 165A3:83–86
 geochemistry, 107A7:300; 107B4:51–53; 126B31:482; 134B19:383–401; 135B43:690–694; 157B12:151–155, 157–159; 170A1:13–14; 171B_A5:209
 geochronology, 107B18:304
 Gortani Ridge, 107B38:658
 grain size vs. modal abundance, 136B7:89
 green clay, 184B15:5–8, 15
 histograms, 186A4:77
 history, 126A9:348
 hydrothermal event frequency, 193B1:24–25
 ice-rafted debris, 152A13:283
 infillings, 107B18:304
 islands, 157A2:14, 22–23
 Izu–Bonin region, 126A1:9; 126B10:160–161; 42:648
 Jurassic–Cretaceous interval, 170A1:7
 lava flows, 152A9:126–127
 lithofacies, 135B3:26; 141B12:170–171; 144B45:781; 192A1:75
 lithology, 129B2:33; 135A(1)5:198–200; 6:255–258; 7:296, 297; 8:346; 9:414–417; 10:508–518; 143A2:24–26; 144A3:71–72; 4:116–117; 152A7:76; 8:93; 9:115; 10:170–174; 11:204; 157A4:65–68; 7:331–339, 356–357; 8:402–407; 9:443–448; 10:507–514; 161A4:62; 163A5:52–54; 165A3:59–60, 62; 6:308; 167A(1)6:134–135; 170A3:60–61; 177A8:7–8; 9:6–7; 180A5:14; 6:9–10, 12, 24, 33–34; 7:7–8; 8:5, 12; 180B6:10, 13; 183A1:21, 24, 33; 5:177; 6:9, 23, 35, 181; 7:8, 36–39; 184A6:5–6; 7:7; 8:4; 186A4:21–22; 5:13–14; 186B10:15–18; 196A3:18; 6:4–6; 8:8–9; 192A1:15–16; 4:5–8; 193A1:4; 3:21–33; 194A8:7–9; 195A4:12–14; 197A3:12–14, 155; 4:6; 5:6–7, 20; 200A1:23–30; 202A12:9; 206A3:54–55; 210A1:22; 210B9:5–14, 32
 lower Eocene, 192A1:17

- magnetostratigraphy, 126A9:318; 134B27:475–490;
28:491–507; 143B22:373–379; 180A1:4
- Marsili Basin, 107B17:282; 38:656–657
- mass flows, 183A4:13
- material flux, 145B34:502
- metamorphic rocks, 152B10:129–144
- mid-Cretaceous, 129B20:389
- middle Eocene, 192A4:17
- mineralogy, 134B9:133–144; 157B13:190; 15:230–
239; 180B8:9–10
- Miocene, 157B15:229–230
- nannofossils, 197A6:5–6
- Neogene, 185A4:18–19
- oceanic anoxic events, 198B16:8–9
- Paleocene, 210B4:7–8
- Paleogene, 152B6:71
- paleomagnetism, 129B23:431–432; 143B27:405–418
- petrography, 129B5:137–152; 161B3:39; 180B8:1–44;
192A4:119; 195A4:14–16; 197A3:19
- petrology, 134A13:501; 143B16:263–276;
144B29:501–502; 157A7:351, 353–355; 8:414–
415
- photograph, 145A7:307; 152A8:95; 152B8:112–113;
157A4:70; 157B12:175–181; 13:198; 165A3:60,
83; 177A8:37; 180A9:71; 183A5:83, 134;
191A4:96; 192A4:42; 6:59; 193A3:111, 151;
194A8:41; 197A1:51; 206A1:77; 3:172;
210B9:47–52
- photomicrograph, 157B13:199–200; 165A3:83;
180B8:41; 183A5:84–85; 192A6:51; 193A3:152;
210A3:152; 210B9:53
- physical properties, 126B36:543–549
- Pigafetta Basin, 129B1:19
- Pliocene–Pleistocene interval, 180A1:18–19
- postrift sedimentation, 210B1:30–31
- primary deposits, 107B18:292
- protoremnant arcs, 126B38:559
- provenance, 107A7:300; 107B18:292–293; 38:656,
661; 125B14:267; 129B5:147–148; 135B4:51–74
- quantitative estimate, 157B4:42–43
- radiometric dating, 143A1:9
- remanent magnetization, 197A3:119–120
- reworking, 157B16:277–278
- rift basins, 126B38:557
- rift-to-drift models, 210B2:10–11
- rifting, 189A1:6
- sand, 157A7:331; 9:444; 10:508; 161B3:52; 190/
196B3:5–6
- Sardinian margin, 107B38:657
- secondary deposits, 107B18:292; 119B18:364
- sedimentation, 135A(1)1:14, 16, 20; 135B2:20–21;
3:43–44; 53:846–847; 136B7:85–95; 157A8:407;
9:454, 456–457; 10:520–521, 523; 157B13:183–
200; 173A9:293; 180A1:7, 15
- sedimentology, 135A(1)11:595–596
- sediments, 152A1:15; 173A9:272; 180B6:1–53;
183A1:16; 185A1:7–8; 195A1:20–22
- seismic stratigraphy, 120A6:143; 157B2:25–26
- shear strength/overburden stress ratio, 126B36:546–
547
- single source, 126B33:515
- Site 738, 119A7:241–243
- Site 747, 120A6:102, 147
- Site 786, 125A14:316–318; 125B14:264–269
- Site 800, 129A2:33; 129B7:170
- Site 802, 129B4:121, 124
- source areas, 157B12:166–168; 25:426–427; 27:459–
462; 192B1:7–8
- stratigraphy, 152B40:484; 183A6:82
- structural controls, 126B38:555
- Sulu Sea, 124A11:218–220
- summary, 183A4:86; 7:193
- suprasubduction zone, 126B42:631
- tectonics, 160B54:761; 180B8:9–13
- temperature history, 129B7:171
- tephrochronology, 186B9:1–29
- thickness, 135A(1)11:595; 157B16:274–275
- tholeiitic/calc-alkaline transition, 126B30:461–462
- trace elements, 107B4:53
- type diversity, 107B18:304
- Tyrrhenian Sea, 107A7:323; 107B38:657
- velocity vs. porosity, 126B36:547
- vitric ashes, 135A(1)4:101–104
- volcanic components, 107B18:303–304; 157A9:456–
457
- volcanism, 157A2:17; 165A8:388–390
- vs. depth, 135A(1)6:259; 157A8:403; 180B7:30–35,
39–42; 183A7:139; 186A4:78; 202A12:55–56
- well-logging, 120B(2)58:1056–1058; 144A11:434;
197A3:43
- wireline logs, 157B3:29–37
- Zijderveld diagrams, 192A4:99
- See also* arc volcanism; conglomerate, volcaniclastic;
lapilli tuff; tephra; tuffs; volcanic ash; welded
ash
- volcaniclastics, acidic
- composition, 126A9:346; 190A1:4–5
- Miocene–Pliocene interval, 131A6:88–89
- provenance, 131B26:316
- turbidites, 131B2:22
- volcaniclastics, bimodal, petrology, 126B2:35; 3:62–63;
42:648
- volcaniclastics, bulk, stratigraphy, 157B15:256, 258
- volcaniclastics, calc-alkaline, composition, 107B17:292
- volcaniclastics, felsic, eruptions, 157B16:274–276
- volcaniclastics, gravely sandy, volcanism, 193B1:9–11
- volcaniclastics, rhyolitic, petrology, 135A(1)11:631–643
- volcaniclastics, sheared and altered, units, 183A7:15, 26
- volcanogenic component, vs. depth, 186A5:52
- volcanism
- activity changes, 115A1:7; 145B22:343
- age, 115B4:44–45, 50; 120B(1)5:75; 141B35:425;
144B53:937–938; 180A3:15; 197B1:13–14
- air fall deposits, 121A15:520–521
- Antarctic region, 114A12:800–801
- arc evolution, 125B1:6
- architecture, 193B1:9–12
- argon isotopes, 178B22:6–10
- Australian NW margin, 123A1:7; 123B41:789, 792–
793
- backarc basins, 135B33:565–583
- basal sediment record, 121B26:507

- basalts, 163X_A1:5; 165A6:330; 169A6:257
basement, 152A5:49–50; 168A1:12–14; 4:51;
198A1:15–16
Cagayan Ridge, 124A12:301, 307–309, 312–313;
14:404, 410–411; 124B1:8; 4:55–56, 60; 34:461–
462
Campanian, 165A6:322–324
carbonate platforms, 144B52:929–932
Celebes Sea, 124A10:124–125, 138, 140–142;
124B34:460–461
Cenozoic, 145B38:592
characteristics, 121A15:524
chemical evolution, 135B52:837–838
chronostratigraphy, 157B11:127–140
continental margin, 152A1:5–16; 152B41:503–533;
163A1:9, 11
continental–oceanic transition, 152B28:348
correlation, 170A5:162
Cretaceous, 123B2:67; 143A2:26; 144A1:3;
144B29:495–512
Cretaceous–Tertiary interval, 165A4:174–176
crust, 152B39:465–469; 163B6:59–61; 185B1:25
dating, 180B2:12–13
debris flows, 143A2:29
Deccan traps, 115A1:8; 115B1:7
deposition, 124A11:220–221; 144A5:163; 202A8:11–
12; 11:9–10
diagenesis, 124B36:494
dispersed ash source, 165B6:121–123
dominant systems, 124B34:460–461
environment, 197A1:83
Eocene, 165A8:388–390; 165B20:309; 192A1:29
Eocene–Oligocene transition, 193A1:3–5
epiclastic sedimentation, 180A12:25
eruptions, 115B5:57; 141B12:175–176; 144A4:138;
6:220–221; 151B18:343, 345–347; 152B6:67–68;
40:486–489; 165A8:389; 183A1:23; 183B1:19;
186A1:4; 192A4:15–16
europium anomaly, 127/128B(1)42:731–732
evolution, 157A2:19–22; 157B9:101, 104, 109, 111–
114; 17:293–294; 181A1:41, 45; 181B1:1–111
factors, 127/128B(2)82:1320–1321
forearc models, 125B16:308; 135B38:625–646;
186B1:4, 10
gap in activity, 157B27:453
geochemistry, 135B24:386–425
geochronology, 143B16:272–274; 163B6:53–62;
165B20:299–314
geotectonic significance, 120B(1)10:144–145
Gondwana, 120B(1)2:43
Hawaiian volcanoes comparison, 121A1:15–16,
121B31:633
history, 151A1:11–16; 151B1:10–11; 180A1:19–20
hotspots, 115B4:43; 121B32:639; 144B35:605–613
igneous provinces, 183A1:1–101; 183B1:1–48
Indian Ocean W, 115A12:921
indicators, 135A(1)10:518–520
iridium, 113B12:161–163; 121B19:417
island arcs, 132B5:62–63; 135B3:23–49; 51:824
islands, 157A2:14
Islas Orcadas Rise, 114B1:19–20
Izu-Bonin arc, 125B1:3
Japan Sea, 127/128B(2)82:1319, 1321; 128A1:33
Kerguelen Island, 120B(2)51:941
Kerguelen Plateau, 120B(1)3:60–61; 10:135; (2)48:903
large igneous provinces, 198B1:4
late Neogene, 181B1:23–26
lava flows, 192A1:28
lithology, 124B13:183
locations and age, 143B17:278
magnetic properties, 120B(2)15:238–239; 121A13:475
mantle, 152B31:373–386
Mariana backarc basin, 125B1:3
Mauritius Island, 115B1:4
Meteor Rise, 114A3:31; 10:550; 11:622; 114B1:7, 9,
17, 19–20, 22
Mid-Atlantic Ridge SW, 114A8:371, 378
mid-Cretaceous interval, 129B18:350
Miocene, 135A(1)4:92; 165A8:386–388; 165B5:111,
113; 191B1:8
mud domes, 160A1:10–14
Northeast Georgia Rise, 114A5:100; 114B2:37
northward progression, 115B4:49
oceanic anoxic events, 198B16:8–11
oceanic plateaus, 183A1:36–38
Pacific Ocean W, 124B14:203–204; 30:406
paleoceanography, 151B36:651–652
Paleocene, 165A8:390
paleolatitude, 121B38:768
petrology, 135B25:433–455
phase geochemical expression, 129B1:16
Philippine Sea, 124B3:44
phreatic eruptions, 121A11:306; 15:520–521, 524,
531
plagioclase markers, 124B31:421
plate boundaries, 181B1:59
plateau origins, 120B(1)5:71, 76
Pleistocene, 107A3:63; 107B29:656; 44:722
Pliocene, 157A2:21–22
potassium-argon age, 124B26:336–337
pulses, 127/128B(2)87:1373–1374
radiometric dating, 115B1:4; 135A(1)1:10
Raggatt Basin, 120B(1)9:129–130
rejuvenescent phases, 115A1:7; 115B4:44
Réunion Island, 115A1:5, 7
rhyolites, 135A(1)11:649–650
rifting, 125B11:208
sandstone, 180B7:21
seafloor spreading, 115B4:49–50
seamounts, 143A6:143; 143B31:526
sediment provenance, 180A6:34–35; 180B6:19, 23–24
sediment recycling, 185B1:16–17
sedimentation, 135B2:20; 141B10:141; 145A6:219;
190/196B6:10–11
seismic reflectors, 198A11:3
shoshonite, 161B26:350
Sicily, 107B1:26
silicic magmatism, 165A4:184
Site 786, 125B14:269–271
Site 794, 127/128B(2)87:1374
Site 795, 127/128B(2)87:1374
Site 796, 127/128B(2)87:1374

- Site 797, 127/128B(2)87:1373–1374
 Site 798, 127/128B(2)48:796–797, 800; 87:1374;
 128A1:35; 4:156, 196–198
 Site 799, 127/128B(2)48:796–797, 800; 87:1373;
 128A5:288–291
 Site 1184, 192A4:16–17
 Sites 798–799 comparison, 128A5:291–292
 source areas, 121B38:763; 135B6:99; 165A3:103;
 4:183–184; 192A4:9
 Southeast Asia, 124B34:463–464
 sporomorphs, 120B(1)17:260
 stages and breaks, 127/128B(2)82:1320–1321;
 152B41:514
 stratigraphy, 163X_A8:13–16; 185A1:9–10; 206B1:8–9
 stress field, 127/128B(2)82:1319, 1321, 1325
 subaerial eruptions, 115B2:18
 subduction, 125A10:199; 125B11:208; 185B1:17–18;
 205A1:5–6
 submarine eruptions, 115B2:11; 192A3:26
 subsidence, 183A1:36–38; 183B1:16–18
 Sulawesi, 124A3:40–41; 124B4:59
 Sulu Sea, 124A11:212–213, 280; 124B1:6; 4:56–57,
 59–60; 34:461–462
 tectonics, 141A3:23–25; 143B31:504–508;
 160B54:771; 165A3:85; 186A1:15–16; 191A1:5
 tephra, 124B35:487; 152B8:99–107; 181A7:12–13;
 181B1:24, 105; 186B10:3–4; 205A4:26
 Tertiary, 192A1:6
 thorium/scandium ratio, 127/128B(1)42:732
 Turonian–Santonian interval, 121A13:465
 volcanic ash, 120B(1)11:153; 124B34:459; 35:477,
 481–482; 127/128B(2)61:963; 145B23:376
 volcanic reactivation logging facies, 144B17:342–343
 volcanoclastics, 180B8:9–13
 vs. age, 186B1:26
See also eruptions; explosions; hydrovolcanics; igne-
 ous provinces, large; Neovolcanic Zone; phrea-
 tomagmatic eruptions; plateaus;
 tephrochronology; volcanic ash; volcanic edi-
 fices; volcanic glass
 volcanism, acidic, sources, 135B22:369
 volcanism, age-progressive, Ninetyeast Ridge,
 115A10:735
 volcanism, alkaline
 basement, 192B1:4
 composition, 121A15:530
 Cretaceous, 129B21:405–413
 intraplate lavas, 129B21:411
 lower Aptian, 129B32:581
 Mesozoic, 129B20:390
 Sardinian margin, 107B1:24
 seamounts, 129B6:161; 19:383
 volcanism, alkaline synrift, petrology, 126B33:514
 volcanism, andesitic, Sumisu Rift, 126B31:482
 volcanism, basaltic
 petrology, 107B1:15
 tectonic models, 210B9:29
 volcanism, boninitic, Izu-Bonin forearc, 126B27:426
 volcanism, breakup, development, 152A13:287–288
 volcanism, calc-alkalic
 composition, 107B3:46; 38:722, 724–725
 post-middle Miocene supply, 181B1:48
 Sulu Sea, 124B19:255
 volcanism, constructional
 Atlantis II Fracture Zone, 118B21:366, 376
 geology, 121A13:499; 121B30:559
 volcanism, continental flood basalt (CFB), mantle
 plume, 115B5:54
 volcanism, eruptive, lithology, 144B45:771
 volcanism, explosive
 conditions, 126B25:371
 cooling, 165B20:312
 geochemical evidence, 145B44:665
 Izu-Bonin arc, 126B3:62–63
 Neogene, 121B14:277
 oceanic plateaus, 165A1:11
 Pliocene–Pleistocene interval, 151B17:309–331
 Site 791, 126A7:159
 Site 793, 126A9:346
 Sites 881–884, 145B23:345–381
 Sumisu Rift, 126B1:10; 19:285
 volcanism, flood basalt
 diapir model initiation, 115B1:9
 hotspot initiation, 115B1:7
 volcanism, high-potassium
 composition, 135B3:39–40
 late Pleistocene–Holocene interval, 180B6:19
 volcanism, hydroclastic, middle Eocene, 192A4:9–11
 volcanism, intraplate
 alkaline basalts, 144B28:486–487
 islands, 157A2:15–18
 plate tectonics, 130B25:423, 425, 429–430, 432–433
 volcanism, island arc
 backarc tectonics, 126B3:47, 62; 42:639, 647–648;
 141A3:24–25
 basement, 130B1:4–5
 Cretaceous, 130B4:58; 7:96
 cyclic model, 126B42:648
 deformation, 134A12:438
 forearc volcanism, 126B27:422; 42:639
 frontal arc volcanism, 126B42:639
 geochemistry, 126A1:8–9; 135B29:519–531
 history, 135B3:42–43
 intensity and composition, 126A5:64
 Izu-Bonin arc, 126B39:584; 42:646
 Izu-Bonin-Mariana arc, 126B42:632, 638–639
 mantle plumes, 130B48:791–795
 Mariana forearc, 125B36:595
 models, 125A10:198
 Ontong Java Plateau, 130A10:535
 Peru-Chile Trench, 141A3:24
 petrology, 124B21:304–305
 Philippine Sea, 126B3:47
 plate tectonics, 130B25:423, 425, 429–430, 432–433
 postrift inception, 126B26:387–388
 prerift volcanism, 126B26:386–388
 protoremnant arc, 126B26:395
 pyroclastics, 126B42:639
 seismic data, 130B2:23–31
 tectonic effects, 125A2:10–11
 timing, 130B5:63
 volcanogenic sediments, 141B12:169–180

volcanism, late-stage, petrology, 121B38:768
 volcanism, mafic-felsic bimodal, petrology, 126A7:128
 volcanism, off-axis, origin, 147B9:182–183
 volcanism, peralkaline rhyolite, Miocene–Holocene, 180B(synthesis):4
 volcanism, postbreakup, petrology, 123B4:89, 102, 104
 volcanism, rhyolitic
 geology, 126B33:512–516
 Izu-Bonin arc, 126B3:49
 prerift and synrift, 126B33:513–514
 provenance, 126B33:515–516
 Sumisu Rift, 126B42:646
 volcanism, shield, evolution, 157B12:141–181
 volcanism, shoshonitic, Mariana arc, 126B31:463
 volcanism, submarine
 environmental effects, 183B1:19–2
 Japan Sea, 127A4:95
 Miocene, 134A1:9
 Neogene, 134A3:38
 Site 795, 127A5:219–220
 volcanism, synrift, Izu-Bonin region, 126A1:9; 126B42:647
 volcanoes
 environment, 197B1:36
 evolution models, 197B1:35
 glass inclusions, 157B24:415–416
 mass wasting, 144B33:570
 paired structures, 126B42:639
 strontium isotopes, 126B31:463
 subaerial volcanism, 135B4:72
 transform, 118B21:366, 368
 volcanology
 lava flows, 192A1:9
 oceanic anoxic events, 198B16:1–31
 Site 998, 165A3:79–86
 Site 999, 165A4:174–184
 Site 1000, 165A5:263–264
 Site 1001, 165A6:323–330
 Site 1173, 196A3:30–32
 volcanology, physical
 Site 1136, 183A4:10–17
 Site 1137, 183A5:13–28
 Site 1138, 183A6:22–46
 Site 1139, 183A7:13–36
 Site 1140, 183A8:12–16
 Site 1141, 183A9:12–16
 Site 1142, 183A9:16–22
 volume
 altered rocks, 193B1:20
 gases, 164A7:186
 pressure core sampler, 164B43:441; 201A3:10
 vs. pressure, 164B11:115, 117–124; 201A3:18–20
 vs. time, 186B17:13
 volume expansion, vs. depth, 193B1:59
 volume-pressure-time plots, vs. run time, 204A4:85; 6:58; 8:66; 9:65; 10:78–79
 volume ratio, vs. depth, 167B25:290
 volume shrinkage, electron microscopy, 185B9:16, 22–26
 VRM. *See* remanent magnetization, viscous
 VSP. *See* vertical seismic profiles

vug fillings
 photograph, 193A4:87, 134–136
 X-ray diffraction data, 200A3:20–21, 97
 vuggy texture. *See* textures, vuggy
 vugs
 alteration, 137A2:28–29; 158A7:108
 fillings, 148B11:155
 fluid inclusions, 157B26:432
 lithology, 182A4:10; 191A4:14; 197A5:6; 200A3:13
 petrography, 187A8:7
 photograph, 144A5:169; 158A7:92, 100, 121; 8:158; 10:192; 168A4:65; 173A9:288; 176A3:162; 187A7:20; 10:12–13; 206A3:218, 252
 photomicrograph, 206A3:246–247
 sulfide mineralization, 169A3:71
 vugs, anhydrite-filled
 photograph, 200A3:72
 photomicrograph, 200A3:80–81, 102
 vugs, keystone
 diagenesis, 143B13:199–200
 limestone, 143A7:206
 photograph, 144A3:54–55

W

wackestone
 carbonate platforms, 194A1:50–54
 Cenozoic, 182B1:9–10
 composition, 143B29:443, 445–446
 Cretaceous, 143B10:136–140
 deposition, 133B22:305–308; 144B18:361–380; 166A2:14–18
 diagenesis, 144B46:791–796
 Eocene–Miocene interval, 133B21:296–299
 geochemistry, 144B59:1001
 grain size, 182B15:3–4
 image facies, 166B7:78–81
 isotopes, 143B6:103
 lithofacies, 143B30:473, 477, 484–486, 492–493; 144B14:282–283; 16:319; 17:340–359; 160B38:495
 lithology, 133A(1)13:512–514; 14:574, 576; 143B12:179–180; 144A10:340–341; 144B13:267–268; 166A6:77, 79–80, 82–83; 180A6:15; 182A1:19–20, 26, 28, 31; 4:5–9; 5:4–9; 7:8–9; 8:4–9; 9:4–7; 10:7–8; 11:5–6; 12:4–6; 194A3:5–6; 4:9; 6:4–5; 7:15; 8:8; 9:3; 202A7:7–10
 microbioclastic matrix, 133B21:292–293, 297–298
 Miocene, 160B33:420–436
 outer perimeter ridges, 144B15:299
 petrography, 143B12:176; 144B48:846
 petrophysics, 143B18:301
 photograph, 143B9:129; 144A3:61; 144B14:291; 166A6:84; 11:351; 202A7:46
 photomicrograph, 160B38:506, 508; 180A6:107; 182B9:11; 192A6:61; 194A3:32–33
 planktonic foraminifers, 166B5:56
 porosity, 143B29:453
 remanent magnetization, 166B4:40
 seismic sequences, 166A8:202–205

- Site 715, 115A12:917, 922
stratigraphic sequences, 133B25:355, 358–360
transmission light microscopy, 207B2:30
velocity, 120A7:216
X-ray diffraction data, 160B33:427–428
See also biowackestone; mudstone–wackestone transition
- wackestone, algae-dominated
 photograph, 160A6:133
 Site 726, 117A16:446
 Site 729, 117A17:548
- wackestone, bioclastic
 geochronology, 182B8:4–6
 lithology, 133A(1)5:146–149; 12:462; 166A10:303;
 11:355; 182A1:33, 37; 5:5; 7:9; 10:4–6, 8, 11;
 11:5–6
 photograph, 166A10:301; 182A8:8–9; 10:41, 44
 well-logging, 133B23:317–324
- wackestone, biomicritic, lithology, 133B36:527
- wackestone, calcareous dolomitic, 117A14:450
- wackestone, caprinid-gastropod-dasyclad phosphatized,
 143A8:277–278
- wackestone, dolomitized
 lithology, 166A10:297–298
 photograph, 166A8:182
- wackestone, fenestral skeletal, 144A8:291–292
- wackestone, foraminiferal
 lithology, 134A11:326, 333; 144A10:342, 350–351;
 166A8:178–179; 10:295–303; 182A6:10–11;
 182B9:5
 lower Aptian, 192A6:9
 Oman margin S, 117A17:548
 photograph, 144B5:106; 166A10:299; 194A7:68
 photomicrograph, 192A6:60
- wackestone, gastropod
 lithology, 143A7:195
 photograph, 144A10:349
- wackestone, gray molluscan, photograph, 144A5:169
- wackestone, laminated, photograph, 133A(1)10:364
- wackestone, oncoidal, lithology, 143A7:200–201
- wackestone, partially lithified bioclastic, 166A11:355
- wackestone, peloidal, lithology, 144A10:341;
 166A7:154–156, 168; 8:177–178; 10:296; 11:352
- wackestone, porous, lithology, 143A7:195
- wackestone, radiolarian
 lower Aptian, 192A6:9
 photomicrograph, 192A6:60
- wackestone, rudist/gastropod, lithology, 143A6:122–123
- wackestone, silicified, lithology, 182A1:37
- wackestone, skeletal
 lithology, 144A5:158–159; 6:216; 8:291–292; 10:341,
 350; 11:417–420; 194A6:4; 7:6–7, 10–11; 9:3–4
 photograph, 144A11:423–424; 144B15:307;
 182B9:14; 194A6:35; 7:48
 photomicrograph, 182B9:11; 194A7:49
- wackestone, spiculitic, lithology, 182A6:4–5; 182B9:2–7
- wackestone, unlithified
 foraminiferal, 166A11:350–352
 lithology, 166A10:295–296; 11:350–355
 peloidal, 166A10:297; 11:350–355
- wackestone, white nannofossil, lithology, 182B9:5
- wackestone fragments, redeposition, 205A6:9
- Wadati-Benioff zone
 Japan Sea, 127/128B(2)68:1062; 74:1158
 modification, 134A3:33
 subduction zones, 135B55:886
 tectonics, 170A1:8–9
 Tonga Trench, 135A(1)1:7
 Tyrrhenian Sea, 107A2:16
 upper surface, 135A(1)1:8
 volcanism, 193A1:3–5
- Waiauian, biostratigraphy, 181A6:16; 7:19
- Waipipian, foraminifers, 181A8:16, 19; 9:12, 14
- wairakite
 alteration, 126B6:107; 139A7:502; 139B10:155–201;
 11:214; 200A3:25
 clasts, 173A9:283
 composition, 148B8:108
 fluid inclusions, 139B21:413–416
 formation temperature, 126B8:125
 genesis, 126B34:523
 lithology, 200A3:13
 photomicrograph, 173A9:283
 sediments, 139B8:127; 200A1:21–22
 serpentinized peridotite, 173A7:192–193
 Site 792, 126B8:135
 stability, 126B34:523
 X-ray diffraction data, 200A3:20, 97
- Waitakian, foraminifers, 181A8:17, 19
- Walker circulation, ocean circulation, 202B12:18
- wallrock alteration
 Category Z, 193B1:21
 hydrothermal fields, 158A1:9–10, 12
 petrography, 187A8:7
 photograph, 147A3:78
 photomicrograph, 193B9:15–25
 silica, 193B1:25–26
 stratigraphy, 158A7:67–68
 veining, 173A6:144–145
- Walsh color spectrum, periodicity, 117A3:42
- Walsh transforms, sediments, 135B8:141, 144, 146
- warm climate
 dinocysts, 189B5:7
 Neogene, 188B1:13
- warm/cold water ratio, vs. depth, 184B11:14
- Warm Saline Deep Water
 hypothesis, 171B_A1:6
 Paleogene, 113B49:865, 873–874; 145B18:265–281
 silica, 154B33:488
 upward displacement, 113B49:875
 See also deep water
- warm-water assemblages, fauna, 164B34:356–357;
 175A3:67, 69
- warming events
 Japan Sea, 127/128B(1)19:338
 latest Maastrichtian, 174AXS_A(summary):11–12
 pollen indicator, 127/128B(1)28:479, 484
 Site 798, 128A4:162, 164–165
- washover deposits, paleoenvironment, 174AX_A1:18
- water
 alteration, 183A7:46, 54, 153; 183B1:18
 basement units, 183A7:132

- composition, 164A6:124
explosive felsic eruptions, 183B1:19
gas hydrates, 164B2:20–22; 11:122–123
iowaite, 209A7:9
lithology, 183A7:39
mafic magmas, 157B24:411–420
melt inclusions, 157B22:383, 386–387
microbiology, 185A4:48–49
sources, 164B22:224–225
temperature, 164A7:197; 164B11:120–122
vs. carbon dioxide, 157B24:417
vs. depth, 183A7:131
vs. magnesium oxide, 157B22:387
See also calcium oxide-magnesium oxide-aluminum
oxide-silica-water diagram; rock-water reaction
zone
- water, low-oxygen, productivity, 175A1:10
water, sterile, artificial seawater recipe, 209B5:32
water budget, hydrothermal circulation, 205B6:11
water + carbon dioxide system, harzburgites, 153A3:73
water column, Pliocene, 154B17:255–268; 22:341–345
water content
 alteration, 125B8:137; 148B12:175, 177; 168B10:128;
 185A3:27–28; 193A3:76–77; 209A3:36
 Atlantis Bank, 118B11:230–231
 basalts, 163A4:44; 168A5:123; 185A3:35–36
 basement, 123A4:204; 127A7:389
 Bengal Fan, 116A4:70, 75–77, 79–80; 5:116–117, 119–
 123; 6:172, 174–176
 boninite mantle source, 125B38:641
 Broken Ridge, 121A6:140, 144; 7:182–183; 8:217;
 9:250–251; 13:505
 Cagayan Ridge, 124A12:332, 334–335; 14:409–410
 carbonate content, 177B6:3
 Celebes Sea, 124A10:163–164; 13:358–359, 361
 compaction, 204B15:10–11
 core void gas, 204A4:112–113
 cores, 146B(1)15:274
 corrected analyses, 127/128B(2)63:990–1015
 crystalline rocks, 153A3:112–113; 4:172; 7:273
 decrease, 134A9:222–223
 density, 192B7:29
 diabases, 148B1:4; 209A7:23
 diatom ooze, 119B19:383
 discrete samples, 207A6:105–108; 7:108–111
 enrichment cultures, 187B6:6
 Exuma Sound, 101A9:353, 358–360; 10:405, 409–411;
 11:450–451, 458–461
 fluid inclusions, 153B22:405–406
 fluidized sediments, 155B28:467–469
 gabbros, 176B6:18; 209A3:35; 10:24
 glass shards, 126B33:512; 148B3:30
 grain size, 117A1:400–401; 190/196B8:9–10
 gravimetric determination, 132A4:102–105
 harzburgites, 153A3:73
 host sediment and pore water influence, 121B1:27
 hydrogen isotopes, 137/140B8:101
 igneous rocks, 123A5:326, 330; 209A5:35
 Indus Fan, 117A8:169
 intermediate-calcium boninite, 125B10:185
 Japan Sea, 127A1:26
 Jurassic basement, 185A1:18
 large variations, 113A5:101
 Lingayen Gulf, 124E_A13:79–80, 85
 lithology, 123B25:494–495; 126A8:278–279;
 177A9:6–7; 199A8:56; 9:44; 10:61; 11:29, 116–
 117; 12:119–120; 13:87; 200A3:44; 4:46–48, 176
 Little Bahama Bank, 101A6:137–139, 150–151; 7:227,
 232–235; 8:282, 291–294
 magmas, 153B22:407–409; 192B1:6
 Mariana Basin E, 124E_A18:130–131
 Mascarene Plateau, 115A5:269, 275
 melting, 192B1:9
 Nazareth Bank, 115A4:159
 Ninetyeast Ridge, 121A10:287–288, 292; 11:337;
 12:402–404
 Northeast Providence Channel, 101A13:536, 541–542
 Northwest Providence Channel, 101A12:499–501
 organic matter, 117A12:401
 peridotites, 209A3:34; 6:28; 7:21
 phase equilibria, 125B11:187
 plasticity, 119B8:150
 porosity, 178B30:5–7
 range, 113A11:624, 626
 repressurized sediments, 204B26:5–6, 18
 resistivity, 128A3:111
 rocks, 192A3:162–164; 4:122–125; 5:121; 6:23–24,
 113; 7:11–12, 63
 sediments, 120B(1)13:185; 133A(1)5:160; 6:194, 196;
 12:471–473; 134B30:531–547; 135B48:789;
 150A6:102; 150B21:378; 154A4:98–99, 101–
 104; 159B41:561–562; 164B41:431–434;
 170A3:84; 4:142; 5:183; 6:210; 7:240; 177A3:14;
 177B6:20–22; 188A3:56–58; 4:32–34; 5:26–28;
 189A4:64; 5:51, 164–167; 6:172–176; 7:48, 147–
 149; 195A3:162; 195B1:5–6; 199A15:53;
 200A3:157; 204A3:123–125; 4:20–21, 122–123;
 5:63; 6:80; 7:73; 8:93; 9:94; 10:111–112; 11:59;
 204B12:7–8; 206A3:392–394
 silica, 119A8:312
 Site 698, 114A5:115
 Site 709, 115A7:483, 494
 Site 710, 115A8:610, 618
 Site 711, 115A9:676, 678, 687–688
 Site 713, 115A5:757, 764
 Site 714, 115A11:859, 868–869
 Site 715, 115A12:936–937
 Site 721, 117A9:222–224
 Site 722, 117A10:274–275, 286
 Site 723, 117A11:337–339
 Site 725, 117A13:430–431, 435
 Site 727, 117A15:476
 Site 728, 117A16:509–510, 517
 Site 730, 117A18:569, 571
 Site 731, 117A19:606–607, 614
 Site 736, 119A5:144–145, 148, 153; 119B50:904
 Site 737, 119B50:904–905
 Site 738, 119A7:262, 264, 266; 119B50:905
 Site 739, 119A8:319, 325; 119B8:145, 148; 50:905–906
 Site 740, 119A9:365
 Site 742, 119A11:428, 434; 119B8:146
 Site 743, 119A12:469–470; 119B8:146, 148

- Site 744, 119A13:495; 119B50:906
 Site 745, 119A14:520, 522–524; 119B50:906
 Site 746, 119A15:546–547; 119B50:906
 Site 747, 120A6:122–123
 Site 748, 120A7:213
 Site 749, 120A8:263
 Site 750, 120A9:317
 Site 751, 120A10:360
 Site 765, 123A4:164–165; 123B23:454–459; 25:494
 Site 766, 123A4:307–309; 123B23:460–462; 25:494
 Site 778, 125A6:109
 Site 782, 125A10:213
 Site 786, 125B8:132–134
 Site 787, 126A5:91–92
 Site 788, 126A6:123, 126
 Site 790, 126A7:189
 Site 791, 126A8:199
 Site 793, 126A9:379
 Site 794, 127A4:127–133; 128A3:103, 105
 Site 795, 127A5:223–228
 Site 796, 127A6:290–295
 Site 797, 127A7:383–391
 Site 798, 128A4:180–181, 197–198, 202–205, 208
 Site 799, 128A5:325, 345–349, 354
 Site 809, 132A3:70
 Site 859, 141A6:122
 Site 861, 141A8:276
 solid mass, vs. depth, 186A4:138–139; 5:81–82
 spectroscopy, 206B12:10
 Sulu Sea, 124A8:110; 11:248, 250–251, 257
 total mass, vs. depth, 186A4:138–139; 5:81–82
 troctolites, 209A10:23
 volatiles, 176A3:281
 volcanics, 125B8:136, 138; 187B4:3; 193A3:286, 292
 vs. age, 114B36:674, 682
 vs. alteration, 137/140B8:102; 148B4:49
 vs. bulk density, 133A(1)15:661; 202A3:28
 vs. carbon dioxide, 187B4:6; 192B1:18
 vs. cation exchange capacity, 156B10:139–142, 145
 vs. clay content, 168B6:70, 74–75, 77, 79–80, 82–84;
 190/196B8:19
 vs. composite depth, 145B36:549
 vs. compressional wave velocity, 145A6:276
 vs. computed tomography value, 155B28:471
 vs. density, 127A5:233, 395
 vs. depth, 113A5:102–103; 6:205–206; 7:304; 8:351–
 352; 9:466–467; 10:541–543; 11:625; 12:716;
 114B36:673, 675; 37:687; 129A2:62;
 130A7:260; 8:328; 9:441; 131A6:200;
 131B32:401; 132A3:72; 4:101; 133A(1)9:327;
 11:439; 13:538–539; 15:660; 133B42:628;
 134A7:126; 8:158, 170; 9:203, 231–233;
 10:283, 298; 11:355; 12:423, 444; 13:521;
 134B29:514, 516, 520, 522, 524, 526; 30:536–
 539, 542–543, 545; 135A(1)4:158; 5:235;
 6:285; 7:327; 8:373; 9:451; 10:546; 11:660,
 664; 136A4:60; 137A2:31; 138A(1)9:169;
 10:242; 11:310; 12:369; (2)13:722; 14:788;
 15:867; 16:945; 17:1007; 18:1055; 19:1090;
 141A6:124; 7:221; 8:283; 9:337; 10:409;
 143A6:155–157, 159–160; 7:237; 8:289–290;
 9:349; 144A3:81, 83; 4:141–142; 5:189–190;
 6:243; 7:281; 8:311; 11:434; 12:448;
 144B39:652; 145A3:73; 4:117; 5:177–179;
 6:251, 265; 7:329–330; 8:365, 370, 375;
 145B35:529, 531, 533, 535; 146A(1)4:87, 89;
 5:191; 6:274; 7:347, 349; (2)2:45;
 146B(1)15:262–264; 17:282; 148B1:5; 4:48;
 34:423; 149B19:360; 150A6:104–106; 7:174–
 177; 8:237; 9:292; 10:335; 151A5:92, 96;
 6:138, 143, 147; 7:197; 8:249, 255; 9:295, 299;
 10:343; 11:375–376, 378, 382; 153A3:76;
 154A4:120; 5:195; 7:309; 155A6:115; 7:153;
 8:195; 9:222; 10:264; 11:300; 12:358; 13:405;
 14:430; 15:459; 16:485; 17:532; 18:561;
 19:586; 20:618; 21:653; 22:679; 155B6:130,
 141–142; 156A6:151; 7:244; 156B10:142;
 157A4:86; 5:133; 6:164; 7:372–373, 375;
 8:426–428; 9:467; 10:535–536; 159A5:114;
 6:198; 7:248; 8:288; 159B41:563; 160A4:83;
 5:122; 160B48:633, 637–638; 162A7:250–251;
 8:282; 164A5:94–95; 6:134; 7:205; 8:274;
 9:304; 164B41:432; 165A3:90; 4:189; 5:269;
 6:335; 166A6:99; 9:258; 167A(1)4:82; 5:114;
 6:152; 7:173; 8:207; 10:268; 11:307; 12:341;
 13:375; 14:417; 15:457; 16:482; 171B_A3:88;
 4:152, 161; 5:225; 6:301; 7:343; 172A3:66–67;
 4:141–143; 5:233–234; 6:293–294; 175A3:86;
 4:113; 5:140; 6:176; 7:199; 8:221; 9:270;
 10:310; 11:337; 12:383; 13:426; 14:455;
 15:481, 483; 176B6:46; 178A4:84; 5:76;
 181A3:59; 4:42; 5:48; 6:77–78; 7:99; 8:78;
 185A3:123; 4:132–133, 181; 185B11:14;
 186A5:81–82; 188A3:148; 4:83; 5:73;
 189A3:104; 4:23, 47; 5:101; 6:116; 7:92;
 193A3:224; 4:192, 194, 245–246; 195A3:119;
 198A1:101–102, 106, 110, 116, 120, 125; 3:55,
 102; 4:36, 77; 5:38, 73; 6:33–34, 68; 7:33, 62;
 8:30, 61; 199A13:57; 202A3:27; 4:37; 5:32–33;
 6:36
 vs. deuterium/hydrogen ratio, 137/140B8:102
 vs. dry density, 177B6:12
 vs. friction angle, 160B49:660
 vs. iron oxides, 148B11:170
 vs. lithostratigraphy, 114A5:112; 114B35:664
 vs. loss on ignition, 136B11:141
 vs. magnesium number, 168A4:71; 5:125
 vs. magnesium oxide, 209A5:148; 9:84
 vs. magnetic susceptibility, 209A3:141
 vs. major oxides, 158B19:264
 vs. matrix velocity, 144B39:653
 vs. mean grain size, 168B6:70–71, 74–75, 77, 79–80,
 82–84
 vs. NaCl-extracted sulfur, 160B20:252
 vs. oxygen isotopes, 148B10:144
 vs. paleolatitude, 165B9:171
 vs. porosity, 127A5:234; 133A(1)8:281; 9:330;
 137A2:30; 144B39:653
 vs. potassium oxide, 135B4:62; 148B12:177; 209A7:98
 vs. remanent magnetization, 133B40:583
 vs. silica, 119A13:499; 209A3:137; 5:154; 6:106; 10:114
 vs. siliceous microfossils, 114B33:619–621

- vs. strontium isotopes, 148B10:144
- vs. tectonic stress, 134B30:544–545
- vs. thorium/potassium ratio, 144B39:661
- vs. trace elements, 148A2:62; 11:160; 158B19:265
- well logging, 136A5:82–88
- See also* formation water; mass/volume moisture and density; moisture budget
- water content, dry
 - vs. bulk density, 133A(1)12:488
 - vs. depth, 133A(1)10:386; 12:486; 151A8:256; 181A3:59; 4:42; 5:48; 6:77–78; 7:99; 8:78
 - vs. porosity, 133A(1)10:388; 11:441; 12:488
- water currents, nannofossil clay, 184B12:7–8
- water depth
 - benthic foraminifers, 120B(2)34:616
 - calcium carbonate, 120B(2)61:1074–1075
 - core-log correlation, 174A_A5:184
 - Cretaceous, 120B(2)53:958
 - dinoflagellates, 120B(1)20:315–316
 - Site 747, 120B(1)23:399
 - Site 750, 120B(1)23:406–407
 - vs. age, 145B20:296–209
- water-escape structures
 - lithofacies, 135B6:90
 - lithology, 159A6:171
 - photograph, 143A9:315; 151A10:327; 159A6:172, 190; 173A8:231–232; 180A12:67; 185A4:82
 - pillars, 135A(1)5:194, 196
 - rheology, 159B2:17
 - sediments, 159A7:240–241; 159B2:16
 - Site 784, 125A12:285, 289
 - Site 799, 128A5:268–269
 - turbidites, 135B52:835
- water exchange, water circulation, 160A4:57
- water flow
 - Panama Gateway, 138B42:836
 - paleoceanography, 181B1:11–12
 - paleoclimatology, 181B1:34
 - zones, 160A8:272; 9:328; 11:408
- water flow, convective circulation
 - Bengal Fan, 116A4:61, 80; 5:109–112
 - heat flow anomalies, 116A5:110
 - Site 717 correlation, 116A5:109
- water flux, coupling, 186B1:8–9
- water fountains
 - drilling photograph, 174A_A3:73
 - origin, 174A_A3:74
- water/gas molar ratio, gas hydrates, 164A1:8; 164B2:16–20; 4:41–42
- water guns
 - pressure-time traces, 148B26:350
 - relation to whale songs, 200A4:159
 - seismic data, 200A4:61
- water-mass exchange
 - Arctic Ocean, 162A1:9–13
 - Site 701, 114A8:365
- water masses
 - biogenic productivity, 120B(1)13:192
 - carbon isotopes, 165B17:268–269
 - circulation, 120B(2)46:867; 151B13:243, 249
 - currents, 181A1:41, 45; 181B1:1–111
 - foraminifers, 164B34:358–359
 - glaciation, 181B1:21
 - isolation, 189B3:11
 - Neogene, 189A1:12–13; 198B1:13–18
 - ocean fronts, 181B1:86–87, 110
 - paleodrift, 202B1:43; 12:3–5
 - Quaternary, 133B14:181–188
 - sapropels, 160A2:23
 - subsurface, cross section, 202A1:79; 3:18; 4:23; 5:22; 6:23; 7:28; 8:35; 9:34; 10:33; 11:27; 12:28; 13:26; 202B3:11
 - See also* paleoceanography
- water-methane-carbon dioxide, fluid inclusions, 159B6:50
- water pressure, vs. time, 190/196B10:9
- water residence time
 - Panama Basin, 138B17:379–380
 - vs. carbon flux, 138B17:385
- water-rock interactions
 - age determination, 120B(1)5:74–75
 - alteration, 192A3:29–32
 - basement, 168A4:84–85
 - carbonates, 144B23:433–436
 - thaumasite veins, 129B4:131
- water/rock ratio
 - alteration, 119B16:314
 - basalts, 119B16:313
 - chloride, 118B9:208
 - ductile deformation, 118B24:423; 27:544
 - gabbros, 147B12:232–233
 - hydrothermal circulation, 139B44:710
 - isotopic composition, 118B6:135–136; 8:170, 174, 175; 9:206
 - mass ratios, 137/140B13:148–150
 - ocean crust, 124B17:233
 - plagioclase-water fractionation, 118B8:174
 - pyroxene replacement, 118B27:544
 - vein assemblages, 118B26:504, 506
 - vs. oxygen isotopes, 137/140B8:105
- water sampler temperature probe (WSTP)
 - data reliability, 127/128B(2)81:1308–1309
 - Lingayen Gulf, 124E_A13:85
 - measurements, 133A(1)14:586; 141A6:126–133; 7:215–216, 218; 8:280, 282–283, 286; 10:405, 407–408; 141B20:261–268; 146A(1)4:91–92, 94–95; 5:194–198; 7:355
 - sediments, 164A6:123–124
 - systems, 124E_A8:57
 - temperature, 141B20:261–268
 - vs. depth, 133A(1)13:533
- water sampling
 - methods, 102A3:95, 96, 102, 103
 - temperature pore-pressure tool, 131A6:204–205, 245–247
 - See also* water sampler temperature probe (WSTP)
- water saturation, well-logging, 164B19:187–189; 204A3:100; 4:98; 5:53; 6:68; 8:74
- water/sediment interface
 - green clay, 184B15:6–7
 - lithology, 201A6:12
- water squeeze cakes, pore water, 152B26:307–311

- water temperature. *See* temperature, water
water vapor, index property data errors, 127/
128B(2)63:986
Watznaueriaceae, photomicrograph, 198B7:72–73
wave amplitude, measurement, 102B1:9, 10
wave environment, lithofacies models, 174AXS_A(summary):25
wave frequency, methods, 102B4:57, 59, 60–61
wave propagation, gas expansion, 146B(2)13:195
wave sweeping, mass accumulation rates, 182A5:9
wavefield imaging, basement, 148B25:343–344
waveform images
 well-logging, 190/196B17:2–3, 11; 203A3:67–68, 71;
 205B13:6
 See also monopole sonic waveform
waveforms
 distortion, 102B4:61
 lava, 152B38:458
 methods, 102A3:113, 115, 116, 118, 149; 102B4:52–62
 Morelet wavelet, 178B32:23
 pseudo-Rayleigh waves, 102B4:54
 See also Morelet wavelet
waveforms, stacked, sonic velocity, 204B24:19–22;
 208A6:85
wavelet analysis
 Formation MicroScanner imagery, 197B5:15
 seismic reflection, 188B10:4–5, 17
 well-logging, 197B5:4–7, 18
wavelets
 physical properties, 178B32:1–43
 seismic models, 131B6:74
 transform logs, 178B32:6–7; 199A11:85; 12:87–89, 92;
 208A4:63; 6:73
 vs. amplitude, 157B28:486
wavenumber
 bioturbated intervals, 178B32:27
 gamma rays, 178B32:30, 34
 insolation signal, 178B32:24–26, 36
 magnetic susceptibility, 178B32:25–26
 porosity, 178B32:34, 37
 reflectance, 178B32:29
 thorium/potassium ratio logs, 178B32:30
 truncated insolation, 178B32:28, 36
 uranium logs, 178B32:35, 37
wax esters
 gas chromatograms, 175B5:18
 sapropels, 160B21:264
 sediments, 175B5:5–6; 10:12
waxes
 lithofacies, 155B34:551
 sediments, 150B18:337; 157B21:367
 See also alcohols, wax
weathered rocks. *See also* saprolite
weathering
 basalts, 144B19:381–398; 28:487; 29:497–498, 501–
 502
 basement, 197A5:10–11
 Cagayan Ridge, 124A12:310–311
 Celebes Sea, 124A10:138–139
 Cenomanian/Turonian boundary, 183A6:10
 chemical–physical transition, 119B10:201; 48:884
 chrome-spinel, 120B(1)9:127–128
 clasts, 180A12:26, 30
 clay mineralogy, 119B10:199; 189A6:24
 gamma ray peaks, 150B23:418
 geochemistry, 119B19:391; 144B51:911; 163A3:28;
 171B_A6:287; 200A3:31
 hematite, 152B9:117
 hydrothermal alteration, 209A6:10
 hydrothermal circulation, 169A1:10
 hydrothermal deposits, 135B5:75–76
 ice sheets, 120B(2)56:1010
 igneous rocks, 183A4:20–21; 7:42–47; 209A5:35
 lithology, 163A5:52–54; 193A6:5
 nannofossil clay, 184B12:6
 paleoclimatology, 188B13:15
 photograph, 209A5:89, 95
 photomicrograph, 197A5:56; 205A4:110; 209A9:74
 seabed morphology, 163X_A8:4
 sediments, 155A7:141; 155B8:171–172
 Site 748, 120A7:229
 Site 750, 120A9:332; 120B(1)1:27
 Site 1137, 183A5:38–43
 Site 1138, 183A6:49–52
 Site 1139, 183A7:42–47
 Site 1140, 183A8:19–22
 Site 1141, 183A9:30–33
 Site 1142, 183A9:33–35
 Site 1203, 197A3:24–30
 Site 1204, 197A4:20–24
 Site 1205, 197A5:18–20
 Site 1206, 197A6:15–18
 source areas, 133B30:468; 152B2:19–28
 stable isotopes, 119B19:381
 Sulu Sea, 124A11:217–218
 uplifts, 184A1:11
 volcanics, 144A3:72, 74; 144B12:238; 18:366;
 148B13:191–206; 165A4:169
 volcaniclastics, 144A3:53; 157B17:305–307
 See also alteration; basalts, weathered; bole horizons;
 chemical weathering; diagenesis; erosional sur-
 faces; laterization; oxidation
weathering, biogenic, Site 734, 118B25:435–436
weathering, chemical
 nannofossil clay, 184B14:2–3
 paleoclimatology, 184B19:7
weathering, gossan, 158B28:409–410
weathering, low-temperature
 alteration, 135A(1)4:147–148
 See also alteration
weathering, physical
 glacial cooling trend, 119B10:199
 sedimentary rock source area, 119B6:115
weathering, seafloor
 acoustic basement, 149B47:720–722
 geochemistry, 149B29:497–515
 serpentinites, 149B30:519–527; 31:529–540; 33:553–
 558
 Site 765, 123B9:196
weathering, subaerial, lithology, 192A1:17

- weathering, submarine
 low-temperature alteration, 192A3:30
See also alteration, low-temperature oxidative; paleo-
 sols; subaerial exposure
- weathering factor, vs. chemical index of alteration,
 207B8:19
- weathering features, lava flows, 152A9:126–127
- weathering profiles
 basalt alteration, 144A6:244
 diagenesis, 144B46:790
 guyots, 144B49:883, 884–885; 53:947
 volcanic substrate, 144B14:275; 45:782; 53:943
 vs. depth, 210A1:75
- weathering rinds, lithology, 183A5:7; 209A7:2–3
- weathering stains, joints, 209A7:12
- weathering zones
 lithology, 174AXS_A3:18; 4:12–13; 6:43–46
 paleoenvironment, 174AX_A1:18
- weblike structure. *See* structures, weblike; structures, in-
 cipient weblike
- websterite
 alteration, 149B22:399–405
 basement, 173A1:11
 chromium number, 153B12:273
 chromium oxide, 153B16:324
 composition, 106/109B4:29, 30, 45; 5:50, 52
 lead-207/lead-204 vs. lead-206/lead 204, 153B16:327
 lead-208/lead-204 vs. lead-206/lead 204, 153B16:327
 lithology, 153B10:186–198
 magmatic rocks, 153B16:328–329
 magnesium number, 153B12:272; 16:325
 ocean–continent transition, 149B47:718
 petrology, 149B21:277–395; 153A3:48–51
 photograph, 149B21:380–382, 388
 serpentinites, 149B32:543
 strontium isotopes, 153B16:326
- websterite, olivine, composition, 106/109B4:30, 37, 45
- wehrlites
 AFM diagram, 153B10:210
 aluminum oxide/silica ratio vs. magnesium oxide/sil-
 ica ratio, 153B10:213
 crystal clots, 140A2:57–58
 geochemistry, 135B25:448–452
 lithology, 153B10:186–198; 209A10:4–10
 magnesium number, 153B10:217
 oxides vs. depth, 153B10:212
 petrography, 147B7:139
 photograph, 153A6:221, 232, 236
- Weichselian, sedimentation, 152B3:36–38
- Weissert oceanic anoxic event, Valanginian, 185B1:10
- welded ash, lithology, 177A8:7–8
- welded lobes, photograph, 183A6:109
- welded margins
 lithology, 183A5:19–20
 photograph, 183A7:100
- welded texture. *See* textures, welded
- welding, vesicles, 157B14:212–213
- welding zones, emplacement, 183A7:35–36
- well-log processing, shore-based, units, 155A7:169
- well-log properties
 lithology, 138A(2)14:761; 16:928–930
- means and standard deviations, 138A(2)14:786;
 16:943; 171A_A3:26; 4:45; 5:66; 6:84; 7:100
- well-log sequence analysis
 chaotic system, 123B33:608
 core-description data, 123B33:609–610, 612, 614–615
 entropy function, 123B33:604
 ergodicity, 123B33:604, 608
 exogenous subdivisions, 123B33:604
 predictability, 123B33:604
 Site 765, 123B33:602, 604–609
 wireline logging, 123B33:610–611, 616–620
- well-log units
 characterization, 152A9:149–151; 159A5:117–119;
 171A_A3:22, 24–26
 correlation with lithology, 133A(1)8:280–281; 9:322–
 324; 10:375, 377–379; 12:476–478; 134A9:224–
 227; 160A6:141–142; 7:194–196; 8:258, 260–
 263; 9:321, 323–324; 11:399; 160B47:607–624;
 170A3:88–89; 171A_A3:28–29; 5:62–63; 6:84–
 85; 7:100; 171A_B3:4–5; 172A5:237–240; 6:298–
 299; 181A7:45–46; 8:37–38; 194A7:38–40;
 196A4:16–17
 correlation with seismics, 171A_B3:4–5
 definition, 171A_A3:27; 4:42, 45, 46; 5:57, 67; 6:85,
 90; 7:96, 101; 196A3:16–21, 47; 4:13–18
 deposition, 144B12:248–253
 drilling rates, 144A7:282–284
 fluid flow, 171A_A4:51
 formation evaluation, 193A3:95–96; 4:62, 64–65
 Formation MicroScanner imagery, 180A8:42–43;
 9:57–58; 12:49–51; 204A4:30–31
 Jurassic–Lower Cretaceous interval, 129B30:547
 lithofacies, 144A3:81–85; 144B17:341–359
 lithology, 130A7:263–264; 25:440; 161A6:242–244;
 165A4:188–194; 5:270–272; 170A3:88–90; 4:89;
 171A_A4:42–45; 7:100; 178A4:28–32; 9:20–21;
 180A6:70–76; 8:39–41; 9:53–55; 12:46–48;
 189A3:49–50; 5:53–55; 6:58–60; 195A4:43;
 196A1:6, 9; 3:2, 17–18; 4:2, 15–16; 199A11:34–
 35; 12:36–37; 207A4:30–33; 5:35–37; 7:34–37;
 8:33–37
 operations, 171B_A5:232; 6:311
 physical properties, 196A3:88; 4:67; 204A3:37; 4:29–
 30; 5:16–17; 6:22–23; 7:20–22; 8:31; 9:26–27;
 10:34; 11:19
 resistivity, 204A4:30–31
 sedimentation rates, 189A5:55
 sediments, 156A4:74–75; 164A6:138–139; 7:209–210;
 9:308–309; 164B19:182–183; 169A3:131–133;
 5:228–231; 171B_A5:220–225; 6:295–298, 300–
 301; 181A9:24–25, 53; 184A7:24–25; 9:28–29;
 188A3:63–64; 4:37–40; 5:32–33; 194A6:23–24;
 7:34–35, 38; 198A3:41–42; 9:32–33; 202A9:21–
 22
 seismic stratigraphy, 129A2:79
 Site 800, 129A2:70–74
 Site 801, 129A3:145–152
 Site 802, 129A4:220–226
 Site 803, 130A5:151–155
 Site 844, 138A(1)9:159–162
 Site 845, 138A(1)10:232–233

- Site 846, 138A(1)11:307–308
 Site 847, 138A(1)12:362–363, 366
 Site 849, 138A(2)14:757, 760–761
 Site 851, 138A(2)16:926, 928
 Site 859, 141A6:134–136
 Site 860, 141A7:221–222
 Site 863, 141A10:417–418
 Site 865, 143A6:153–154
 Site 866, 143A7:239–241
 Site 869, 143A9:340–341, 343
 Site 873, 144A5:191–194, 197–198
 Site 902, 150A6:107, 110
 Site 903, 150A7:178–183
 Site 904, 150A8:239–240
 Site 905, 150A9:294
 Site 906, 150A10:337–338
 Site 998, 165A3:90–93
 Site 999, 165A4:192–194
 Site 1000, 165A5:272
 Site 1001, 165A6:340
 Site 1050, 171B_A4:154
 Site 1051, 171B_A5:217–226
 Site 1052, 171B_A6:295–302
 Site 1119, 181A3:28–29
 Site 1124, 181A8:39
 Site 1125, 181A9:24–25
 Site 1126, 182A4:39
 Site 1128, 182A1:25; 12:26
 Site 1132, 182A1:36; 10:30–31
 Site 1134, 182A1:41; 12:26
 Site 1201, 195A4:42–44
 Sites 867–868, 143A8:287–288
 statistical definition, 171A_B2:7–8, 13–18; 196A3:47–48; 4:41
 stratigraphy, 138A(2)15:846; 201A6:33–34; 208A4:23–25; 6:28–31
 summary, 171A_A3:30; 4:48; 6:87
 visual interpretation, 196A3:46
 vs. depth, 155A7:159; 9:226; 171A_A3:24–25; 4:43–44; 5:64–65; 6:82–83; 7:95; 171A_B2:13; 208A6:79
See also core-log comparison; downhole measurements; seismic units
- well-logging
 accretionary prisms, 196A1:1–29
 acoustic properties, 160B42:535–543
 alteration, 127/128B(2)80:1282
 aridity signal, 128A4:188–192
 Asian dust supply, 127/128B(1)23:403
 Barbados accretionary prism N, 171A_B2:1–29; 3:1–25
 basalts, 123A4:222–223; 143B23:381–388; 197A1:12; 200A1:16–17; 4:9; 200B1:8–10, 44; 206A3:93–97
 basement, 128A3:69, 86, 93–95
 black shale, 207A4:72
 breccia tuff, 128A5:287
 carbonates, 138B42:822–823; 144B13:264–267; 167A(1)8:196–198
 cased-hole section, 123A4:222–223
 Ceara Rise, 154A9:438–440
 Celebes Sea, 124A13:377–378
 channel-levee systems, 155B2:13, 16–17, 24, 27
 chert and porcellanite, 127A7:394
 chloride, 164B1:4
 clays, 156B26:321–334
 composite logging-while-drilling data, 149A6:199; 170A3:87; 4:144–145; 7:242
 compressional wave velocity, 163B3:26–27; 176B5:36–37
 core-based physical properties, 145A8:361
 core data comparison, 134A9:224–227; 12:432–433; 135B19:305–306; 138A(1)9:160–161; 155A7:160; 180B5:1–25; 181A7:44–45; 8:36–37; 185B8:3; 196A4:17–18
 correlation with seismic profiles, 150B15:287
 cyclic lithofacies, 127/128B(1)23:398, 405; 128A4:125; 133A(1)8:280
 data, 127/128B(2)88:1395–1409; 89:1411–1427; 130A9:439–444, 449, 456; 137/140B27:313–319; 28:321–324; 30:339–346; 140A2:109, 112–116, 125–127; 191B1:7
 décollement zone, 196A3:83
 deep induction values, 102B6:70
 deformation, 190/196B1:4–5
 deposition, 144B12:233–253; 17:337–359; 18:361–380
 depths, 129B34:638; 131A6:215, 224–228; 138A(2)14:782; 16:942; 144B12:234; 18:362–363; 150A6:107; 7:182; 8:239; 9:297; 10:337; 162A4:122; 6:201; 9:324; 10:376; 180A1:77; 202A1:10–11
 digital sonic tool, 131B17:212
 downhole measurements, 131A6:176–185, 188–195; 133A(1)4:128; 5:158–165; 191A4:43
 electrical conductivity, 156B10:143–145
 felsic rocks, 183A7:56–58
 formation evaluation, 159B17:171–179; 164B21:199–215
 Formation MicroScanner, 148B29:375–388; 180B24:1–43
 Fourier analysis, 143B20:320–324
 fractures, 176A3:245
 gabbros, 179A4:60–65
 gas hydrates, 141B18:245–246; 164A9:309–310; 164B19:179–191; 20:193–198; 25:247–249; 26:253–264; 189A3:51–52; 204A4:32; 5:18–19; 6:24–25; 7:22–23; 8:32–33; 9:28–29; 10:36; 11:20
 geophysical tool string, 133B23:319
 graphic summary, 172A5:242; 6:299
 hemipelagic marine sediments, 168B3:21–35
 high-quality methods, 154B6:117–134
 high-resolution data, 130B36:607–622; 165B11:191–203
 intersite correlation, 127/128B(2)78:1234
 inversion lithology, 129B29:515–516; 150B22:385–409
 Japan Sea, 127A1:27–28; 128A1:33–34
 laboratory data comparison, 129B29:507–527; 130A5:153; 9:441–442; 138A(2)16:930
 Lau Basin, 135A(1)1:41–44
 lava, 152B38:458–459
 Leg 101, 101A1:21–22

- Leg 129, 129B6:153
lithofacies, 144A6:240–244; 10:377, 382–383, 392–393; 11:432–435; 160B38:490–491, 494–495, 497; 196A3:33–36
lithology, 120B(2)58:1054; 123A4:219–220; 127A7:393–395; 128A5:332–338; 129B29:507–527; 130A5:153; 9:442; 133A(1)8:280; 15:643–647; 140A2:148–149; 143B21:329–330; 154A6:260, 263; 154B7:321, 324–325; 8:371, 380; 159B16:157–170; 166A3:27; 167A(1)14:412–413; 16:477–478; 173A4:51–54; 178A5:27–28
log characteristics, 128A3:103–104; 171A_A3:22, 24–26; 4:42; 5:57; 6:80, 82–84; 7:96, 98–100
log quality, 123A4:221–222; 127A4:139; 5:232; 6:301–302; 7:392–393; 128A3:103; 4:183; 5:329–332; 133A(1)15:642–643; 16:739; 141A10:413–414, 417–421; 149A7:255–256; 150A6:107; 7:178; 8:239; 9:293; 10:336–337; 154A4:118–119; 171A_A3:26, 28; 4:42, 45, 47; 5:57, 66; 6:80, 82–84; 7:96, 98–100; 171A_B2:3–4; 196A1:5–6, 8–9; 3:14–15, 24–25, 42–43; 4:1, 12–13, 37
logging runs, 166A6:99; 10:321; 198A3:107
magnetostratigraphy, 144B38:641–647; 145B30:455–468; 178B31:1–23; 37:9–12, 15, 35, 61
mass transport deposits, 155B6:131–133
microfossils, 120B(1)24:445–446
Milankovitch cycles, 129B30:532–534
mineralogical inversion, 156B16:219–227
natural gamma ray activity, 151B20:369–376
Neogene, 130B35:587–606
neutron absorption cross section, 149B37:595–599
new algorithm, 197B5:4–7
noise, 120B(2)49:907
obliquity, 127/128B(1)23:403
oceanic crust, 102B11:155–180; 144B39:649–663; 40:665–671; 148B33:409–414
opal content variations, 127/128B(1)23:398–400
opal-A/opal-CT transition, 127/128B(1)1:15–16, 19, 21–22
opal-CT/quartz transition, 127/128B(1)1:23
operations, 102A3:95; 102B11:157–159; 127A1:27; 4:139, 142; 5:183–186, 230, 232, 236; 6:260, 296, 301–302; 7:325, 338–339, 389–390, 392, 398; 127/128B(1)23:395–396; (2)89:1411–1412; 128A3:85, 103, 106; 4:211; 5:253–255, 329, 361; 130A9:447; 181A3:64; 7:104; 8:81; 191A4:40–46; 195A4:152, 223–224; 201A9:26–28, 72; 10:78; 11:105; 206A3:321, 396; 208A4:60, 85; 6:25–28
orientation, 179B3:21–22
Pacific Ocean N, 145B46:677–688
paleoclimatology, 127/128B(1)23:393–407; 128A1:33–34; 4:187–192; 5:341–342
periodicity resolution, 127/128B(1)23:396–397
physical properties, 127A4:139, 128A5:338; 135B50:815; 139B40:635, 637, 640–641; 44:705, 708; 155B26:421–446; 159A5:116–123; 6:200–204; 159B22:225–240; 196A3:23–26; 4:23–26; 204A4:31; 5:17–18; 6:23–24; 7:21–22; 8:31–32; 9:27–28; 10:35–36; 11:20
plans, 203A1:8–9
pore morphology, 133B45:661–686
primary downhole logs, 133A(1)17:796
principal results, 188A1:15–16, 19, 22–23, 189; 5:32–34; 188B14:31
sea level changes, 143B20:322–326
seamounts, 144B37:631–638
sediment/basement interface, 203A1:11–12
sediments, 127/128B(1)23:402–403; 138B4:47–57; 146B(1)20:313–335; 151A13:407–409; 157A6:166; 7:376; 161B44:562–565; 178B(syn-thesis):12–13; 180A5:40–42; 181A3:27–29; 186A1:12, 14–15; 188B9:1–16
seismic stratigraphy, 123A4:217, 228–234; 128A4:224; 5:351–353, 379; 133A(1)13:551; 156B20:259; 196A1:7, 11; 3:3, 27–28; 4:3–4
sequence stratigraphy, 130A7:262; 133B25:359; 143B10:142–147; 144B47:823–824, 831–832
sheeted dike complexes, 137/140B26:305–311
shore-based processing, 102B3:31, 34–39; 150A6:117; 7:190; 8:245; 9:301; 10:345; 154A4:117–123, 131–152; 5:210, 218; 6:267, 273; 7:329; 8:381, 402; 155A9:235; 10:270; 11:315; 12:374; 16:497; 20:629; 22:689; 156A6:175, 184; 157A4:95; 6:174; 7:387; 9:481; 10:546; 159A5:134; 6:208, 213; 8:293; 160A6:149; 7:207; 8:273; 9:329; 11:409; 12:448; 14:493; 160B38:497; 161A4:106; 5:169; 6:280, 295; 7:347; 9:420; 162A4:121–124, 130; 6:210; 9:333; 10:381; 164A6:155, 166; 7:166; 8:226; 9:319; 165A3:108; 4:210; 5:283; 6:351; 166A6:117; 8:208; 9:269; 10:331; 167A(1)5:121; 8:213; 10:275; 12:346; 13:381; 14:423; 16:486; 168A6:202; 169A3:143; 5:236; 174AXS_A3:54
silica diagenetic transitions, 127/128B(1)1:3
Site 418 correlation with coring, 102B2:19–23; 4:32–33; 11:170, 174
Site 504, 148A2:73–81
Site 747, 120A5:74; 6:137, 150; 120B(2)58:1053–1060
Site 748, 120A7:195–196
Site 749, 120A8:254
Site 750, 120A9:305, 324–329
Site 765, 123A1:9; 3:53–54; 4:72–76, 215–221, 248, 253–267
Site 766, 123A3:53–54; 5:331–334, 346–352
Site 794, 127A4:73, 135–142, 144–167; 127/128B(2)66:1037–1046; 68:1069; 128A1:34; 3:69
Site 795, 127A5:174, 230
Site 796, 127A6:251, 296
Site 797, 127A7:325, 389; 127/128B(1)1:7; (2)66:1037–1046
Site 798, 127/128B(1)23:393–407; (2)65:1021–1035; 128A1:33–34; 4:125, 182
Site 799, 128A1:34; 5:245, 329
Site 800, 129A2:68–75
Site 801, 129A3:144–152; 144A9:316, 318–325; 185A1:45
Site 802, 129A4:219–227
Site 803, 130A5:149–155
Site 805, 130A7:260–266
Site 806, 130A8:329–335

- Site 814, 133A(1)7:222-226
Site 815, 133A(1)8:272-284
Site 816, 133A(1)9:321-324
Site 817, 133A(1)10:373, 375, 377-379
Site 818, 133A(1)11:441
Site 819, 133A(1)12:473-479
Site 820, 133A(1)13:531-533, 535-537, 539-541;
133B23:315-325
Site 821, 133A(1)14:588-592
Site 822, 133A(1)15:642-649
Site 823, 133A(1)16:719-725
Site 824, 133A(1)17:785-788
Site 829, 134A9:223-229
Site 830, 134A10:286, 288-291, 293
Site 831, 134A11:351-354
Site 832, 134A12:431-435
Site 833, 134A13:518-520, 524-526
Site 834, 135A(1)4:159-169
Site 835, 135A(1)5:230-231, 234, 237-242
Site 840, 135A(1)10:549-557
Site 841, 135A(1)11:655-660
Site 844, 138A(1)9:159-162, 182
Site 845, 138A(1)10:232-236
Site 846, 138A(1)11:307-311
Site 847, 138A(1)12:362-370
Site 848, 138A(2)13:705, 709-711
Site 849, 138A(2)14:756-757, 760-762
Site 850, 138A(2)15:844, 846-848, 859
Site 851, 138A(2)16:899, 926, 928-930
Site 852, 138A(2)17:969-970, 973, 999-1002
Site 859, 141A6:80, 134-139
Site 860, 141A7:163, 218-222
Site 863, 141A10:349, 412-414, 417-422
Site 865, 143A6:117, 147-148, 150-154, 156-157;
143B24:389-393
Site 866, 143A7:190, 237-241
Site 869, 143A9:337, 340-341, 343
Site 871, 144A3:45, 77-79, 81-85
Site 872, 144A4:137-138
Site 873, 144A5:150, 188-198
Site 874, 144A6:212, 238-244
Site 877, 144A8:309-310
Site 878, 144A10:377, 382-396
Site 879, 144A11:415, 432-435
Site 881, 145A3:55-57
Site 883, 145A5:155-157, 160-161, 163-167
Site 884, 145A6:216, 247-251, 264-265, 270-271
Site 887, 145A8:340, 359-361
Site 888, 146A(1)4:95-98
Site 891, 146A(1)6:278-282
Site 892, 146A(1)7:359-369
Site 894, 147A3:52-53, 102-105
Site 896, 148A3:166-175
Site 899, 149A6:198-200
Site 900, 149A7:253-256
Site 906, 150A10:336-338
Site 907, 151A5:92-95, 102, 107
Site 908, 151A6:139-149, 154
Site 909, 151A7:200-205, 211
Site 910, 151A8:255-261, 264
Site 911, 151A9:297-304, 308
Site 917, 152A9:145-151
Site 926, 154A5:202-232
Site 927, 154A6:255-260, 263-268, 270-279
Site 928, 154A7:319-336
Site 929, 154A7:371; 8:380-417
Site 931, 155A7:148, 150, 153, 155-160
Site 933, 155A9:222-228
Site 934, 155A10:262-264
Site 935, 155A11:302, 304-305
Site 936, 155A12:354-355, 358, 360
Site 940, 155A16:482, 484-485
Site 944, 155A20:614-615, 617-619
Site 946, 155A22:679-682
Site 947, 156A5:73-76
Site 948, 156A6:160-164
Site 950, 157A4:54, 81-87, 96-104
Site 952, 157A6:160-164
Site 953, 157A7:363, 365-372
Site 955, 157A9:464-468
Site 956, 157A10:530-533
Site 965, 160A6:141-142
Site 966, 160A7:192, 194-196
Site 967, 160A8:255, 258-263
Site 968, 160A9:321-324
Site 970, 160A11:399; 160B47:610-611
Site 971, 160A12:444-445; 160B47:613-614, 618-619
Site 973, 160A14:489-491
Site 974, 161A4:91-93
Site 975, 161A5:153
Site 976, 161A6:242-244
Site 977, 161A7:323, 328
Site 979, 161A9:409
Site 984, 162A6:201-204
Site 986, 162A9:317, 319-320
Site 987, 162A10:365-368
Site 994, 164A6:136-144; 164B19:183
Site 995, 164A7:207-215; 164B19:183
Site 997, 164A9:307-310; 164B19:184
Site 998, 165A3:88-95
Site 999, 165A4:186-194
Site 1000, 165A5:269-274
Site 1001, 165A6:336-341
Site 1003, 166A6:98-104
Site 1005, 166A8:195-201
Site 1006, 166A9:258-260
Site 1007, 166A10:320-324
Site 1011, 167A(1)5:109-110
Site 1014, 167A(1)8:196-198
Site 1016, 167A(1)10:264-266
Site 1018, 167A(1)12:334-336
Site 1019, 167A(1)13:371-372
Site 1020, 167A(1)14:411-414
Site 1022, 167A(1)16:477-479
Site 1035, 169A3:130-134
Site 1036, 169A4:188-196
Site 1037, 169A5:227-231
Site 1038, 169A6:292-293
Site 1039, 170A3:80-89
Site 1040, 170A4:142-151
Site 1042, 170A6:207-208
Site 1043, 170A7:238-247

- Site 1071, 174A_A3:88–95
 Site 1072, 174A_A4:135–146
 Site 1073, 174A_A5:182–187
 Site 1084, 175A12:379–380
 Site 1093, 177A8:20
 Site 1105, 179A4:60–65
 Site 1109, 180A6:69–76, 295; 180B25:55–57
 Site 1114, 180A8:38–43, 139; 180B24:15
 Site 1115, 180A9:224; 180B25:83–85
 Site 1118, 180A12:211; 180B25:27–30
 Site 1149, 185A1:54
 Sites 1028–1032, 168A6:180–181
 Sites 1060–1062, 172A5:235–245
 Sites 1063–1064, 172A6:294–304
 Sites 798–799, 128A5:342
 Sites 867–868, 143A8:286–288
 Sites 875–876, 144A7:280, 282, 284
 Sites 889–890, 146A(1)5:201, 203, 205–208, 210–216
 Straits of Florida, 101A5:71, 74
 stratigraphy, 127/128B(2)77:1221; 130A9:451;
 138B2:25–30; 201A6:33–34; 7:36–37, 96
 structures, 196A3:22–23; 4:18–22
 summary, 157A10:538; 171A_A4:48; 174A_A5:183;
 177A1:24–25; 178A1:51; 4:165; 5:81, 136; 9:19–
 22, 65, 83; 178B17:5–7; 19:1–13; 181A3:36–38;
 4:27–28; 5:29; 6:42–45; 9:30–33, 52; 182A1:19,
 21–22, 24–25, 27–28, 30, 33, 36–37, 41; 4:109;
 5:89; 6:78–82; 7:26–28, 86; 8:97; 9:82; 10:62;
 12:79; 183A5:202; 7:213; 8:121; 184A4:72, 103;
 5:67, 97; 7:66, 101; 9:79, 121; 186A4:145, 203;
 5:119; 188A4:88, 109; 5:32–34, 96; 189A1:38–
 40; 3:47–49, 108; 5:104; 6:117; 7:95; 190A4:146;
 192A6:117; 194A6:92; 7:147, 149; 9:75;
 199A11:77, 125; 12:83, 128; 205A4:159, 184;
 207A4:66; 5:76; 7:69; 8:66; 208A6:72, 102
 synthesis, 198A1:58–60
 synthetic seismograms, 176B5:38; 196A4:26–27, 63
 tectonics, 147B18:329–330
 temperature, 204A4:32–33; 6:25; 9:28–29; 10:37;
 11:20
 temporal resolution, 127/128B(1)23:396, 404–405
 tephra, 181A9:60
 terrigenous/biogenic opal cycles, 127/128B(1)23:398
 thrust faults, 146B(1)23:362–364
 time schedule, 129A3:144; 4:221; 165A3:92; 4:191;
 5:271; 6:337
 tools, 102A3:97, 100, 102, 145; 102B2:19; 127/
 128B(1)23:396; 202A9:66; 10:61; 12:65
 turbidites, 166B5:47–48
 unconformity correlation, 150A9:293–307
 value in soft sediments, 102A3:113–114; 102B2:19
 velocity, 130A7:271, 273; 130B2:25; 138B24:541;
 155B29:482
 vertical aperture, 127/128B(1)23:396
 vitric tuff, 127/128B(1)2:37
 volcanic ash layers, 128A5:288
 volcanic basement, 165B13:220–222
 vs. cores, 150A5:51–59
 vs. depth, 129B29:512; 130A7:263; 134A13:533;
 134B28:497; 143B21:351–371; 157A7:366–368;
 9:465–466; 10:531, 533; 166A9:258; 188A1:43–
 44; 5:81; 188B14:6–10; 206A1:101
 vs. discrete measurements, 166A8:194–195
 vs. laboratory physical properties, 138A(1)10:236
 well-logging units, 180A9:53–55
See also aluminum logs; aluminum oxide logs; bulk
 density logs; caliper logs; capture cross section
 logs; chloride/hydrogen ratio logs; chloride
 logs; clay-indicator ratio logs; Cline (wireline
 logging coreline); color density logs; compen-
 sated neutron tool (CNTG); composite logs;
 compressional wave logger; compressional wave
 velocity from the monopole source logs; com-
 pressional wave velocity logs; cyclic processes
 logs; deep induction logs; deep resistivity logs;
 density logs; density-natural gamma ray logs;
 density porosity logs; density-porosity-natural
 gamma ray logs; density wire logs; depth-shifted
 resistivity logs; deviation logs; differential cali-
 per logs; dipmeter logs; downhole logging;
 downhole measurements; electrical logs; epi-
 thermal neutron porosity logs; factor logs; far po-
 rosity logs; field anomaly logs; formation
 capture cross section logs; formation density
 logs; formation evaluation; formation factor;
 Formation MicroScanner imagery; gamma ray-
 density logs; gamma ray-density-porosity logs;
 gamma ray logs; gamma ray-porosity logs;
 gamma ray-resistivity-rate of penetration logs;
 gamma ray-tension-velocity logs; gamma ray
 wire logs; geochemical logs; geochemical spec-
 tral tool logs; geochemical tool string logs; geo-
 physical combination logging; geophysical logs;
 graphic logs; horizontal acceleration logs; Hos-
 tile Environment Litho-Density Sonde; induced
 anomaly logs; induction logs; inclinometry
 logs; integrated resistivity logs; intermediate re-
 sistivity logs; impedance logs; laterologs; lime-
 stone porosity logs; lithodensity logs; lithology
 logs; logging-while-drilling; low-resolution sus-
 ceptibility logs; magnetic field logs; magnetic
 logs; magnetic susceptibility logs; magnetome-
 ter logs; medium resistivity logs; microconduc-
 tivity logs; microresistivity logs; miniaturized
 temperature loggers; multisensor core logging;
 multisensor spectral gamma ray logs; near po-
 rosity logs; near velocity logs; neutron porosity
 from core logs; neutron porosity logs; neutron
 porosity wire logs; normalization factor logs;
 normalized vertical tool acceleration logs; nu-
 clear logs; paleomagnetic inclination logs; per-
 meability logs; petrophysical logs; phasor
 induction logs; photoelectric absorption index
 logs; photoelectric effect logs; porosity logs; po-
 rosity-natural gamma ray logs; potassium logs;
 quad-tool string logs; quartz logs; radioactivity
 logs; radiography logs; regression coefficient
 logs; remanent anomaly logs; remanent mag-
 netic intensity logs; resistivity logs; resistivity-
 velocity-natural gamma ray logs; resistivity
 wireline logs; ring resistivity logs; salinity logs;

- Schlumberger logs; sedimentological logs; seismic reflection coefficient logs; seismic stratigraphic tool-string logs; self-focusing resistivity logs; shallow resistivity logs; shallow spherically focused current logs; shear wave velocity logs; shear wave velocity slowness logs; sonic caliper logs; sonic induction tool; sonic logs; sonic traveltime logs; sonic velocity logs; SPECMAP logs; spherically focused resistivity logs; spontaneous potential logs; temperature logs; thermal neutron porosity logs; thorium logs; time-after-bit logs; total magnetic field logs; total spectral gamma ray logs; transient temperature logs; traveltime logs; ultrasonic borehole imaging logs; uranium logs; velocity logs; velocity-natural gamma ray logs; Well Seismic Tool; wireline logging
- well-logging facies, lithology, 143B21:331–332
- well-logging signature, calcified beds, 188A3:65
- Well Seismic Tool
- data summary, 203A3:83
 - interval velocities, 203A3:84
 - traveltimes, 203A3:21–22; 203B1:16
- wellbore breakouts
- intervals, 123B26:505
 - principles, 123B26:503–504, 509–511
 - Site 765, 123B26:512
- westerlies, Oligocene ice sheets, 120B(2)56:1019
- wetness
- samples, 155B10:195
 - vs. depth, 189A3:47, 91; 5:90; 6:56, 103
- Whaingaroan, foraminifers, 181A7:20–21; 8:17, 19
- whale songs
- Hawaii-2 Observatory, 200A4:158–159
 - seismic data, 200A4:61
- white smokers
- geochemical section, 158B27:366
 - hydrothermal fields, 158A1:8–10; 158B22:307
 - lead isotopes, 158B8:104–109
 - major and trace elements, 158B4:52, 57–59
 - rare earths in anhydrite, 158B12:152, 158
 - sulfur isotopes, 158B5:76–77
 - See also* black smokers
- whole-rock compositions, 183B17:2
- winchite
- mineral chemistry, 129B17:313–314
 - Site 778, 125B25:416, 418, 422, 423
 - See also* ferriwinchite
- wind circulation and transport
- deposition, 145B14:219–230
 - dust, 130B28:471–490
 - evolution, 184A1:45
 - gateways, 189B1:18, 21
 - grain size distribution, 208B2:1–13
 - ice sheets, 120A5:84; 120B(2)56:1023
 - ice-rafted debris, 120B(2)63:1098
 - Japan Sea, 127/128B(1)24:409, 411; 26:447
 - lithology, 181A4:7
 - Pacific Ocean W, 124B34:459–460
 - palygorskite, 159B15:148–149
 - pollen, 127/128B(1)19:333
- productivity control, 175B18:12–14, 23
 - provenance, 160B16:202; 17:213; 18:225
 - sedimentation, 175A9:235, 237
 - sediments, 175B5:4–5
 - Site 701, 114A8:375
 - tephra, 165B5:103–104
 - terrigenous organic carbon, 159B41:570–571
 - upper Pleistocene, 198B19:2, 5
 - vs. age, 175B23:29–30
 - See also* eolian transport; westerlies
- windows, Miocene, 134A3:37
- winnowing
- Antarctic Circumpolar Current influence, 121A4:90
 - bioclasts, 194B5:11–13
 - carbonates, 115B25:473, 482–484; 144B17:340
 - coarse fraction, 121B15:309
 - Cretaceous, 130B5:74
 - Cretaceous/Tertiary boundary, 165A4:151
 - deposition, 171B_A6:262
 - foraminifers, 130B14:261; 29:499; 37:629
 - guyots, 144B2:42
 - lithology, 183A8:7
 - mass accumulation rates, 130B44:732–733, 736–738
 - nannofossils, 138B9:169–170
 - Oman margin S, 117A4:48
 - pelagic ooze, 121A13:458, 460, 469, 471, 497, 500; 121B8:212; 37:753
 - sedimentation rates, 177A7:13–14
 - sediments, 130B35:591; 144B41:684; 159B43:599; 177A1:16
 - sequence stratigraphy, 133B25:360
 - Site 699, 114B37:695
 - Site 704, 114B33:630
 - Site 787, 126B9:144, 147
 - Site 788, 126A7:157
 - Site 798, 128A4:165
 - thorium modifications, 117B28:468–469
 - upper Eocene, 189B1:12
 - See also* reworking
- winnowing, current
- lithology, 178A4:5; 178B25:4
 - sedimentation, 133B36:533
- wireline logging
- borehole orientation comparison, 135B19:302–306
 - clay-porosity-velocity, 155B29:493
 - comparison with logging-while-drilling, 204A3:36; 4:29; 6:21–22; 9:25–26; 10:33–34
 - data, 129B6:155, 160–161; 177A8:20–22
 - heave, 193A3:255; 4:216, 225
 - lithofacies, 144B16:319
 - N-value, 123B33:608
 - packer description, 131A5:62
 - physical properties, 155B26:421–446
 - sediments, 135B8:140, 143–146
 - seismic correlation, 123B43:805
 - Site 765, 123B33:602, 616–623
 - Site 859, 141A6:134–139
 - Site 863, 141A10:412–414, 417–422
 - Site 982, 162A4:121–124
 - Site 984, 162A6:201–204
 - Site 986, 162A9:317, 319–320; 162B10:155

Site 987, 162A10:365–368; 162B10:163
 Site 1143, 184A4:26–29
 Site 1144, 184A5:22–24
 Site 1146, 184A7:22–25
 Site 1148, 184A9:26–29
 sonic logs, 190/196B16:1–15
 summary, 204A3:35–36, 132; 4:27–28, 131; 6:20–21,
 84; 9:24–25, 100; 10:31–33, 119; 11:17–19, 62;
 209A10:38–39
 vertical sequence, 129B6:159
 volcanoclastics, 157B3:29–37
 vs. core-description lithostates, 123B33:611
 vs. depth, 190/196B16:10; 193A3:256
 vs. thermal data, 201A4:16
 winch operations, 124E_A2:32
See also lithostates
 Wisconsinan, geology, 169S_A2:14
 wispy flaser texture. *See* textures, wispy flaser
 wollastonite
 chemical composition, 135B3:39; 176B4:9–10
 gabbros, 176B10:13–14
 mineral chemistry, 153B26:459
 vs. chromium oxide, 137/140B15:169
 vs. sodium oxide, 137/140B15:169
 wollastonite projection, basalts, 152B30:369–371
 wood fragments
 accessory component, 188B4:16–17
 Antarctica, 120B(1)18:273
 biostratigraphy, 183A6:22
 carbon isotopes, 184B20:6, 13
 clasts, 190A7:6
 deposition, 155A21:645–646
 kerogen, 183B3:5–6
 lithology, 126B15:233; 129B5:147; 150X_A1:13–14;
 152A6:60–62; 8:93; 155A12:331–332; 22:661;
 167A(1)9:226–227; 16:468; 169A5:208;
 174A_A3:45, 56–57; 174AXS_A7:13; 181A6:9;
 183A6:8–9; 184A6:5; 192A4:8; 197A5:6;
 204A4:9
 paleosols, 144B19:386
 photograph, 144A11:425; 146A(1)6:251; 150A10:317;
 152A8:95; 11:203; 155A10:247; 21:642;
 183A6:77–78; 184A6:29; 190A8:30; 9:35;
 192A1:53; 4:50, 52
 Site 748, 120A7:175, 229; 120B(1)23:409–410
 subsidence, 120B(2)52:949
 textures, 174A_B3:4, 9
 volcanic substrate, 144B53:943
 volcanoclastics, 192B1:7
 vs. depth, 192A1:52; 4:40, 48
See also lignaceous fragments; plant matter; roots
 wood fragments, carbonized, basalts, 192A4:14
 Wood's emulsion equation, gases, 123B23:461–462
 Woods Hole Oceanographic Institution, vertical seismic
 profile tool, 118A6:96
 woody material. *See* wood fragments
 woody texture. *See* textures, woody
 woody tissues, photomicrograph, 180B10:22–23
 world ocean, foraminifers, 130B19:341
 World Stress Map Project, methods, 123B37:671–672
 World Wide Standard Seismograph Network, 136A1:3

worm casts
 lithology, 175A4:91; 5:119
See also echiurids; polychaetes; serpulids
 worm tubes, serpulid
 lithology, 183A6:7–8
 photograph, 183A6:73, 75–76
 worms. *See* echiurids; Polychaetes
 wrench tectonics. *See* tectonics, wrench
 WSBW. *See* bottom water, warm saline
 wurtzite, hydrothermal circulation, 169A1:11
 Wykeham-Farrance data
 sediments, 144A12:448
 shear strength, 144A3:88; 4:140; 5:195

X

X-event
 Eocene Thermal Maximum-3, 208B1:16
 lower Eocene, 208A1:42
 X-ray amorphous constituents, lithology, 125B17:316
 X-ray computed tomography
 deformational structures, 131B7:87–90, 98, 101;
 29:371
 gas hydrates, 164B2:14–15, 17
 lithology, 185B12:1–18
 magnetic fabric, 159B19:192
 scan image analysis, 131B10:135–140
 sediments, 145B35:526–527, 543–546;
 146B(1)11:191–199
 textures, 158B16:201–210
 vs. wet bulk density, 185B12:14
 X-ray diffraction data
 altered felsic volcanic rocks, 193B11:1–19
 Atlantic Ocean E tropical, 108A5:352
 authigenic carbonates, 202A6:3; 204B5:1–8
 basalts, 163B2:20–21; 195A4:194
 biogenic opal, 108A17:1048
 breccia, 173A7:193–195; 173B1:8–14; 9:285
 Broken Ridge, 121A6:140; 121B8:214–215; 27:520–
 521
 bulk sediment samples, 108A3:112; 5:337; 6:415;
 116B1:5, 7–13; 131A6:100–107
 calcite, 204A7:31; 9:37; 204B12:24–26, 75–80
 carbonates, 146B(1)6:121; 160B33:427–428;
 194A4:22; 5:17–18; 7:25; 204A6:34; 10:50
 chalk, 202A9:54
 chlorite/saponite mixed layer clay, 127/
 128B(2)55:886
 clasts, 173A9:284
 clay, 190/196B4:26–28; 6:23, 27–36
 clay mineralogy, 143B12:181–184; 155B9:183, 185–
 186; 156B1:9, 11–13, 18–19, 22; 159B6:57–63;
 178A4:163; 5:134; 6:50; 190/196B6:5–7;
 195A4:94; 204B7:1–15; 208A6:51
 clay-size fraction, 188A4:63–65; 5:55–57; 190/
 196B5:26–28; 204B12:27–29, 81–83;
 205A5:102–103
 clayey silt, 146A(1)4:69
 CuK-lansfordite and magnesite, 127/128B(1)6:81
 dark-light cycles, 127/128B(1)33:579, 584–588
 diagenetic carbonate, 127/128B(1)6:79–80, 86–87

- dolomite, 127/128B(1)6:79–80
 fault gouge, 180A11:40
 fine-grained sediments, 210A3:52–55
 gas hydrates, 164B2:17–19
 green color banding, 202A8:53
 green grains, 159B43:595
 hydrothermal alteration, 158A7:133–134; 198A9:49
 igneous rocks, 134A11:345; 205A4:173; 209A3:156;
 6:120; 10:156
 iron sulfides, 155B13:248
 Izu-Bonin forearc, 126B6:101–104
 Labrador Sea, 105B9:122, 126
 lansfordite, 127/128B(1)6:80
 limestones and clay, 144A3:78
 lithiophorite, 208A5:37; 6:46
 lithology, 123A4:98–101; 125A2:32; 125B7:115;
 17:313; 19:362; 126A2:30; 129B3:85; 6:157;
 29:516–517, 520; 173A7:194–196; 177A3:5, 43;
 4:7, 57; 5:7, 62–63; 6:52; 7:42; 8:67–68;
 183A3:6, 51; 4:85; 5:175; 6:178–179; 7:190;
 8:107; 9:125; 184A9:11; 188A3:17–18; 4:15–16;
 5:12–13; 190A4:9, 107, 111, 114; 5:9–10, 102–
 103, 108; 6:8, 34, 70–74; 8:9, 68–69; 9:9, 36, 76–
 79; 200A3:19–21; 4:37–39
 magnesite, 127/128B(1)6:80
 mass flow units, 160B37:474
 mineral abundances and peak area ratios, 190A4:111–
 113; 6:72–73; 7:64; 8:69–70; 9:78–79
 mineralogical inversion, 156B16:222–226
 minerals, 169A4:168–169; 5:213; 6:270; 193A3:279–
 283; 4:240–242; 5:13; 6:37; 193B8:18; 11:10–19;
 200A3:145; 4:175; 209A5:175
 modal composition, 176B6:62–63
 mud volcanoes, 160B45:582–583; 47:609; 48:628
 normalization factors, 190/196B5:1–28
 normalized relative mineral abundances, 190A5:108–
 111
 opal-A/opal-CT transition, 127/128B(1)1:10, 17–18
 opal-CT/quartz transition, 127/128B(1)1:24
 palygorskite clays, 159B15:144–148
 peak height and intensity comparisons, 127/
 128B(1)33:589; 155A6:93–94, 104; 7:130–131,
 137; 8:180–181, 183, 185; 9:207, 212; 10:248–
 249, 255; 11:281, 287; 12:335–336, 342; 13:391,
 393; 14:415–418; 15:444, 448; 16:470, 474;
 17:510–512, 520, 545; 18:548; 19:576, 578;
 20:603, 606; 21:645–646; 22:663, 670;
 190A4:107–110; 5:103–107; 6:70–71; 7:62–63;
 8:65–67; 9:76–77
 physical properties residues, 156A6:106–107, 109–114
 porcellanite, 177A9:29
 pore water, 156A6:102–103; 7:206
 “proto-chert” nodules, 208A6:54
 random powder sample, 204B12:21–23, 72–74
 relative intensity of main peaks, 174A_A3:59; 4:117;
 5:163
 rhodochrosite, 127/128B(1)6:79–80
 sand and silt, 146B(2)7:100
 secondary minerals, 163A4:43; 5:64; 183A9:131;
 200A4:37–39
 sediments, 102B11:165; 105B7:84–85; 127/
 128B(2)78:1236–1244; 133A(1)4:104; 5:155–
 159; 6:190–191; 7:217–219; 8:267–269; 9:316–
 317; 10:370, 378; 11:432–433; 12:468–469, 477;
 13:524–525; 14:584–585; 15:634–635; 16:709–
 710; 17:783; 136B5:65–76; 141A6:84–85; 7:172–
 174; 8:251–253; 146A(1)5:153–154;
 152A11:198; 156A3:29–37; 7:206–212, 216–217,
 220; 160B18:222–225; 161B1:7, 11–12;
 164A5:75; 164B15:155–163; 165A4:140–141;
 5:240; 6:303; 168A4:60; 172A3:37; 4:86, 91;
 5:169–170, 173; 6:257; 174A_B7:28; 177A9:50;
 178A4:23, 162; 5:133; 180A6:246–247; 7:76;
 8:125; 9:181–182; 10:67; 12:178–179; 180B6:43;
 182A4:99–100; 5:21, 78–80; 6:30, 102–103;
 7:21, 75–76; 8:25, 87–88; 9:19–20, 71–72; 10:25,
 77; 11:14, 43; 12:21, 70; 182B7:1–16; 183B7:5,
 25; 185A4:66; 186A4:85–87, 179; 5:100;
 190A7:6–7, 30, 62, 64; 192A3:150–151;
 194A6:14; 195A4:16–17, 93, 192–193;
 198A3:120; 6:40–41, 71; 198B16:5, 30–31;
 202A11:45; 205A4:22–23, 170–171; 5:18–19,
 95–103; 6:11, 46–49; 206A3:339, 383
 seismic horizon B, 204A3:53
 serpentinites, 195A3:14–15, 75
 silica, 128A5:292
 siliceous rocks, 198B17:6, 40–43
 silt, 146B(2)7:92
 Site 778, 125A6:101
 Site 779, 125A7:120
 Site 787, 126A5:74, 78–79
 Site 788, 126A6:112–114
 Site 790, 126A7:148, 164
 Site 791, 126A7:150, 165–166, 184
 Site 792, 126A8:240–243, 246–247, 269
 Site 793, 126A9:338, 340–342
 Site 795, 127/128B(1)1:8–10
 Site 797, 127/128B(1)1:11–14
 Site 798, 127/128B(1)23:400–401
 Site 1276, 210A3:318–322
 Sites 672 and 1048 comparison, 171A_A7:103
 turbidites, 200A3:144
 ultramafics, 195A3:148–149
 vein mineralogy, 156A6:116; 209A7:122
 volcanic ash, 190A5:47, 102; 6:74; 8:68
 volcanic glass, 204A4:53
 volcanic rocks, 163A3:29
 vs. age, 154A9:440
 vs. depth, 131A6:109, 111; 133A(1)4:105; 15:635;
 17:784; 145B43:659; 156A6:162; 163B2:23;
 166A6:80; 171A_A5:59; 6:78; 7:94; 186A5:53–
 55; 192A4:121; 194A7:89
 whole-round samples, 156A6:105
 X-ray diffraction data, energy-dispersive, microfabric,
 135B49:798
 X-ray fluorescence data
 altered basalts, 163A5:62
 basalts, 127/128B(2)54:872; 142B10:75–81;
 144B29:495–512; 158A10:204; 163B10:113–
 117; 163X_A4:23; 5:5–6, 13–14; 6:47–48; 7:14

- basement, 127/128B(2)58:912–916; 183A7:198–200;
8:110; 9:130
Broken Ridge, 121A2:47–48, 50
carbonates, 146B(1)6:120–121
core scanning, 175B20:1–10
dark–light cycles, 127/128B(1)32:569
diabases, 180A12:180–181
geochemical logs, 127/128B(2)65:1025–1029;
88:1402; 89:1416–1417, 1420–1421, 1427
igneous rocks, 152A11:230; 185A4:169
igneous units, 183A6:188–189
incompatible elements, 128A3:69
intrusives, 123A5:324
Kleiner-Hartigan diagrams, 127/128B(2)65:1030
lava, 152B36:431–435
lithology, 125A2:32–35; 125B7:115; 17:316;
126A5:31–32, 34–35
loss on ignition as alteration proxy, 127/
128B(2)56:892–893; 58:909
magnetic results, 127A7:358–359
microfabrics, 185B9:7
mud, 158A8:163–164
Ninetyeast Ridge, 121A2:47–48, 50
petrology, 163B2:20–21
phosphate, 127/128B(1)5:64–65
physical properties, 127/128B(2)80:1283
precision of shipboard analysis, 135B58:925–929
sedimentary rocks, 152A9:117
sediments, 127/128B(2)65:1022–1027, 1031–1035;
128A4:151; 5:292; 131B35:432–437; 165A3:57–
58; 171B_B4:4–5; 175B13:1–31; 180B6:44–53;
185A4:175
ship vs. shore data comparison, 127/128B(2)47:779
silica, 128A5:281
Site 765, 123A4:150, 156
Site 788, 126A6:121
Site 790, 126A6:121; 7:188–189
Site 791, 126A6:121; 7:188–189
Site 792, 126A6:121
Site 794, 127A4:123, 126; 127/128B(2)54:872;
56:892–894; 58:912–913; 89:1420–1421;
128A3:68, 96
Site 795, 127A5:219, 223; 127/128B(2)58:913–914
Site 797, 127A7:381–383; 127/128B(2)54:872;
56:892–894; 58:914–916; 89:1427
Site 798, 127/128B(2)65:1022–1027, 1031–1035;
89:1402
Site 799, 128A5:292
statistical analysis, 142B8:61–68
trace elements, 128A3:69
volcanic ash, 128A4:151
volcanic rocks, 152A9:136, 138; 152B28:333–334;
35:425–429
X-ray imaging
cores, 151B21:377–388
structures, 210B6:1–21
X-ray line scanner images
cracks, 204A10:72
sulfides, 204A10:72
voids, 204A10:72
X-ray pole figure goniometry, strain, 131B11:141–155
X-ray radiography
bioturbation, 178B10:21
computer tomograms, 127/128B(2)71:1133
cores, 167B25:278–280
sedimentary structures, 172B(overview):3; 7:4–12, 20–
37
varves, 146B(2)26:333–346
See also tomography
X-ray scan, sediments, 156B11:151–159
X-ray spectroscopy, geochemistry, 129B3:85
XCB. *See* extended core barrel
Xenascus ghanaensis, dimensions, 159B24:267
xenoblastic texture. *See* textures, xenoblastic
xenocrysts
basaltic andesites, 135B32:559–560
basalts, 187A1:9
basement units, 183A7:18
clinopyroxenes, 137/140B11:121–130
geochemistry, 192A3:28–29
lithology, 187A13:3–4; 209A6:6–7
petrography, 161B27:358
photograph, 209A6:55, 82
photomicrograph, 180A7:47; 183A7:119, 122; 13:17–
18; 192A3:93, 106
plagioclases, 153B5:82–83, 93
vs. depth, 192A5:52
xenoliths
basalts, 192A3:26; 193B6:1–19
Conical Seamount, 125B24:401, 407
core photograph, 176A3:195
fabric, 193B6:2–3
geochemistry, 193B6:3–4, 19
lava, 183A1:14
lithology, 163X_A6:12; 193A3:31–32; 4:20; 209A6:4
macroscopic description, 192A6:16; 7:7
microgabbros, 183A4:18–19; 5:34
Norwegian Sea, 104A4:92, 96
peridotites, 125B30:528–529
petrography, 192A3:26–28
petrology, 140A2:56–58
photograph, 144A3:80; 209A6:55, 60, 82
photomicrograph, 161B23:313; 183A4:52; 5:102;
192A3:93, 99; 193A3:134; 4:110–111; 6:18;
193B6:7–15; 209A6:60
poikilitic clinopyroxene and plagioclase, 142B1:5–6
Site 765, 123A4:185, 189
vs. depth, 192A1:68; 3:79; 5:52; 6:62
zoned plagioclase, 180A7:16
xenoliths, anorthositic, photograph, 147B2:41
xenoliths, cumulate gabbroic, lithology, 192A1:12
xenoliths, plagioclase-rich
basalts, 192A3:26
photograph, 192A1:49; 3:85–86
photomicrograph, 192A1:49; 3:100–103
vs. depth, 192A1:44
xenoliths, ultramafic, composition, 144B30:513–533
xenon
global inventory, 164B16:169
pore water, 141B26:326
vs. krypton, 164B16:168
vs. neon, 164B16:168

xenophyophorians, lithology, 184A7:6
xylem, photomicrograph, 180B10:29

Y

y-component, vs. depth, 194A7:79
Y-event, lower Eocene, 208A1:42
yellow reflector, lithology, 152B1:15–16
yellow substance, pore water, 131B13:166–170, 174
yellowness, vs. depth, 201A11:49; 204A3:59
Yew
 scanning electron microscopy, 169S_A2:61
 sediments, 169S_A2:60
yield limit, sediments, 131B20:253–256; 21:261–273
yield strength, sediments, 178A5:23–24
Young's modulus
 basalts, 137/140B31:348–349
 dynamic and static moduli, 137/140B31:351
 sediments, 141B33:407–410
 Site 794, 127/128B(2)67:1050
 vs. unconfined compressive strength, 148B32:404
 vs. uniaxial compressive strength, 137/140B31:350
Younger Dryas
 age calibration, 146B(2)2:23–26
 alkenones, 146B(2)19:263
 cooling event, 146B(2)17:238–239
 cycles, 146B(2)8:118–119; 11:159; 167B25:277–296;
 32:355–357
 foraminifers, 146B(2)21:292
 glaciation, 172A1:8
 laminites, 146B(2)6:81–82
 oxygen isotopes, 177B(synthesis):45; 184B2:5
 paleoclimatology, 146B(2)23:314–323; 161B36:466;
 167B21:251–254; 169S_A2:17
 younging, domains, 141A10:374
Ypresian
 biostratigraphy, 189B5:34, 35; 210A3:85
 correlation, 171B_B9:15
 magnetostratigraphy, 171B_A5:199; 171B_B9:10;
 207A5:20
Ypresian/Lutetian boundary
 magnetostratigraphy, 171B_B9:9–10
 sedimentation rates, 189B10:14, 17
ytterbium
 alteration, 193B1:48; 12:4
 clay, 180B17:6
 gabbros, 153B6:108–109
 Paleocene/Eocene boundary, 199B16:3
 percent change from protolith, 137/140B17:203
 peridotites, 153B14:291
 Site 798, 127/128B(2)86:1370–1371
 volcanic ash layers, 127/128B(2)87:1386
 vs. aluminum, 127/128B(1)42:737
 vs. cerium, 179B(synthesis):79
 vs. cerium/ytterbium ratio, 179B(synthesis):79
 vs. depth, 153B6:111
 vs. lanthanum, 121B30:568; 144B30:525
 vs. lanthanum/samarium ratio, 137/140B4:50
 vs. lanthanum/ytterbium ratio, 153B10:230; 18:359;
 176B6:60
 vs. magnesium number, 137/140B11:126

vs. neodymium, 195B4:34
vs. scandium, 195B4:35
vs. silica, 151B19:360
vs. thorium, 195B4:34
See also barium/ytterbium ratio; cerium/ytterbium ratio; lanthanum/ytterbium ratio; neodymium/ytterbium ratio; rubidium/ytterbium ratio; samarium/ytterbium ratio; strontium/ytterbium ratio; tantalum/ytterbium ratio; thorium/ytterbium ratio
ytterbium, chondrite-normalized, vs. chondrite-normalized lanthanum, 153B10:234
ytterbium/scandium ratio, vs. lanthanum/scandium ratio, 153B18:359–360
ytterbium/zirconium ratio
 geochemistry, 125B28:491–492
 Site 786, 125B12:229
 vs. lanthanum/ytterbium ratio, 137/140B17:203
 vs. neodymium isotopes, 125B13:255
 vs. titanium/zirconium ratio, 137/140B17:204
yttrium
 alteration, 127/128B(2)58:909–911; 137/140B7:90–93; 183B15:5, 14; 193B1:48
 amphibolites, 173A6:133; 173B10:4–5
 basalts, 130B1:7–10, 14–20; 145A6:220; 165A6:329; 183A5:34–35; 187A3:9–10; 6:10–11; 8:111; 9:8–9; 11:12; 12:11; 14:8; 195A4:23, 112; 196A3:32, 96; 210B9:16
 basement, 121A11:333; 12:399; 126B27:419; 128A3:99; 183A6:4; 200B2:3–4
 boninites, 125B12:229
 breccia clasts, 173A7:195
 bulk rock vs. diabase, 118B26:484–485
 clay, 180B17:6
 clinopyroxenes, 183A6:49
 detrital component, 167B23:266–270
 felsic rocks, 183A7:41
 ferrogabbros, 176B12:13
 fine-grained sediments, 210B8:15
 fractionation index, 129B19:383
 gabbros, 153B17:342; 22:496; 176A3:50; 176B6:19; 8:4–14; 12:4, 14; 179A2:5; 4:45–47; 179B(synthesis):9; 209A6:30; 10:25
 geochemistry, 120B(1)3:56; 129B5:143
 granites, 161A6:216
 igneous rocks, 135A(1)8:371–372; 209A5:39; 10:27
 immobile elements, 137/140B7:86–87
 lava flows, 163A4:39–40; 5:59–60; 183A1:14; 197A3:22
 lithology, 183A4:19
 lower Campanian–upper Paleocene, 210B8:10
 mafic rocks, 125B24:405–406
 mass balance, 169A3:99
 melting trends, 125B12:227–228
 metasedimentary rocks, 152B10:136
 mobility, 183B15:9–10
 Ninetyeast Ridge, 121A10:280, 282
 Paleocene/Eocene boundary, 199B16:3
 peridotites, 209A3:34; 6:29
 phosphate enrichment, 125B12:222–223, 225
 pillow basalts, 187A4:7; 5:7

pore water, 193B4:4
 positive anomalies, 125B28:492
 recommended and found mean values, 142B8:64
 saponite, 168B12:154
 seawater-rock alteration, 134A8:155–156
 sediments, 167B23:265; 178A4:23; 180B6:5, 7, 10–13
 shipboard X-ray fluorescence vs. inductively coupled
 plasma–atomic emission spectroscopy analysis,
 142B2:11
 sills, 210A3:68
 Site 765, 123A4:199–200
 Site 786, 125A18:327
 Site 794, 127/128B(2)85:1363
 Site 795, 127/128B(2)85:1365
 Site 797, 127/128B(2)85:1366
 stratigraphic variation, 118A6:150
 Sulu Sea, 124A11:265–266
 tholeiitic basalts, 192A5:14–15
 troctolites, 209A10:23
 veins, 176B9:16
 vesicles, 135B37:615
 volcanics, 135B30:533–542; 152B28:337; 165A4:180,
 183; 183A7:41; 183B17:2
 volcanoclastics, 126B31:477
 vs. age, 121A15:531
 vs. alteration, 137/140B6:71; 148A2:62
 vs. aluminum oxide, 180B6:14, 36
 vs. barium, 128A3:100
 vs. cerium, 135A(1)11:658
 vs. chromium, 128A3:101; 134A11:346; 165A6:331;
 195A1:59; 4:115
 vs. clinopyroxene number, 176B8:26
 vs. depth, 131B28:350, 358; 135B7:116; 137/
 140B6:68; 148A2:61–62; 3:158; 148B2:16, 19;
 10:137; 149A7:235; 157B15:251; 164B15:160;
 167B23:267; 171B_B4:9; 173A6:140; 176A3:53,
 178; 176B(synthesis):62; 6:54; 8:12–13, 27, 29–
 30; 179A4:124; 183A5:121; 193A3:224; 4:192,
 194; 199B16:7; 200B1:28; 2:14; 205A4:114;
 206A1:83; 3:152, 196; 206B6:6
 vs. iron oxide, 180B6:14
 vs. iron oxide/magnesium oxide ratio, 200B2:16
 vs. loss on ignition, 148B10:140
 vs. magnesium number, 148A2:59; 3:156; 153A4:147;
 5:194; 6:239; 176B8:26
 vs. magnesium oxide, 137/140B4:48; 187A3:25; 4:18;
 5:18; 6:37; 7:34; 8:52; 9:22; 10:25; 11:36; 12:42;
 13:42; 14:29; 15:43; 200B2:11; 206A1:89; 3:200
 vs. niobium, 165A4:183; 183A1:75; 4:60; 5:123
 vs. phosphorus oxide, 135B43:701
 vs. silica, 134B19:385; 151B19:360
 vs. subbasement depth, 148A3:159
 vs. titanium, 183A7:138
 vs. water content, 148A2:62; 3:160
 vs. zirconium and titanium, 134A12:419
 vs. zirconium, 127/128B(2)47:783; 128A3:100;
 129B18:357; 134A10:279; 12:417;
 135A(1)8:372; 9:448; 135B25:450; 142A4:70;
 153A3:79; 4:149; 5:195; 153B19:375;
 157A7:363; 8:418; 157B12:169, 171; 13:192;
 158B19:263; 173A6:141; 7:198; 173B10:12;

183A1:75; 5:123; 9:95; 185A1:46; 3:109; 4:109;
 197A1:64; 4:71; 5:17, 72; 200B1:29; 2:12;
 209A5:158; 10:124; 210A3:251
 X-ray fluorescence data, 142B8:65–66; 152B35:427–
 429
See also cerium/yttrium ratio; cesium/yttrium ratio;
 lanthanum/yttrium ratio; neodymium/yttrium
 ratio; niobium-zirconium-yttrium plots; phos-
 phate/yttrium ratio; phosphorus oxide/yttrium
 ratio; titanium-zirconium-yttrium tectonomag-
 matic discrimination diagrams; zirconium/yt-
 trium ratio
 yttrium/aluminum oxide ratio, vs. depth, 131B35:443
 yttrium/chromium ratio
 mafic rocks, 125A6:104–105
 Site 793, 126A9:371
 yttrium/holmium ratio, volcanic ash, 152B6:80
 yttrium + niobium, vs. rubidium, 165A4:183
 yttrium/niobium ratio
 basalts, 121A11:333; 135B3:36–39; 183A5:36;
 210B9:16
 basement, 183A1:17, 19, 35–36
 Deccan-Réunion lineament, 115B2:20
 garnet-biotite gneiss, 183A5:37
 geochemistry, 125B38:639–640
 lithology, 183A1:22
 vs. age, 135B3:46–47; 53:853
 vs. barium/zirconium ratio, 144B29:509
 vs. depth, 143B15:251, 254
 vs. lanthanum/niobium ratio, 143B16:274
 vs. lanthanum/samarium ratio, 135B3:44;
 143B15:252
 vs. niobium, 135B3:44; 143B15:252
 vs. titanium, 183A7:138
 vs. zirconium/titanium oxide, 123B4:101;
 135B40:655
 vs. zirconium/titanium ratio, 210B9:56
 vs. zirconium/yttrium ratio, 152B6:84; 28:345–347;
 40:496–497; 163B8:91; 183A1:76, 82–84; 5:126;
 6:49, 139; 8:19, 69; 210B9:63
 yttrium/phosphorus ratio, sediments, 171B_B4:5
 yttrium/titanium ratio
 detrital component, 167B23:267–270
 vs. zirconium, 180A6:135
 vs. zirconium/titanium ratio, 137/140B5:55

Z

z-component, paleomagnetism, 189B10:5
 Zanclean
 biohorizons, 167B1:14–15
 biostratigraphy, 160B2:16–17, 19, 21
 magnetostratigraphy, 188B13:24
 paleoceanography, 160B9:113–123
 sedimentary cover, 161B44:562
 turbidites, 166B5:53
 See also Messinian/Zanclean boundary
 Zanclean/Piacenzian boundary
 cyclostratigraphy, 160B15:196
 sedimentation rates, 189B10:10, 16, 19
 zeaxanthin, sapropels, 160B24:298–302

- zeoglobigerinids, biostratigraphy, 124B11:160
zeolite cement. *See* cements, zeolites
zeolite facies
 alteration, 118B8:173; 26:505; 141B28:356–358;
 147A1:10; 4:137
 deformation, 147A3:74–76
 gabbros, 147A3:68–71
 metamorphism, 131B16:199; 147B13:238–239
 microfabrics, 147B14:281–284
zeolite veins. *See* veins, zeolite
zeolites
 age determination, 113A12:711; 120B(1)5:74–75
 alteration, 121B30:563; 124B36:493; 134B9:165;
 135A(1)5:223; 9:444; 10:517; 11:596–597, 644;
 135B20:317–318; 43:694–697; 137A2:28–29;
 143B16:264; 147A3:69–71; 147B15:298;
 152B35:426; 157B12:150; 26:436; 163A4:41–42;
 165B19:296; 168A4:73; 6:174; 168B10:126, 134;
 176A3:138; 183A6:50–52; 9:31–35; 183B15:6–9;
 192A4:17; 192B6:6; 197A3:27–30; 4:21; 5:19;
 6:16; 200A3:22–25; 203A3:15–17; 205A4:33;
 210A3:57
 amphibolite gneiss, 179A4:9
 Atlantic Ocean E tropical, 108B17:302, 308
 Atlantis Bank, 118B8:168
 authigenesis, 180A9:40, 42; 181A5:38; 198B16:4–5
 basaltic andesites, 127A5:217; 135B39:647–651
 basalts, 169A5:212–214; 6:271; 192A4:14; 195A4:21–
 22
 basement, 183A6:47
 blue tuff, 127/128B(1)8:119
 burial diagenesis, 121B27:521
 Cagayan Ridge, 124A12:309; 124B13:187–188
 calcium sink, 126B34:521
 Celebes Sea, 124A10:136
 chemical composition, 120B(1)10:141; 126B28:438–
 439; 137/140B20:239; 148B8:108; 10:124;
 11:166; 176B9:55; 200B3:36
 clasts, 173A9:283; 180A12:26
 clay, 136A4:40
 clinoptilolite vs. phillipsite, 126B34:521, 524
 Cornaglia Terrace, 107B18:296
 Costa Rica Rift, 111B6:62, 66
 Cretaceous, 103B35:598
 Cretaceous/Paleogene boundary, 192A3:16–18
 De Marchi Seamount, 107B18:296
 densification, 171A_B3:10
 diagenesis, 124B31:421–423
 electron microprobe data, 176B1:23–24; 183B15:35
 end-member composition, 126B34:522, 525
 euhedral, 168A4:76
 feldspar replacement, 113B1:10
 fibrous, 148A3:146
 formation, 123B41:786; 127/128B(1)9:139
 fracture fillings, 134A13:501; 171A_B1:4, 15
 gabbro sills, 205A4:28
 Galicia margin W, 103A8:130; 9:231–232
 geochemistry, 126B8:125; 152B34:417–424;
 161A4:89; 200A3:30–35
 geothermal activity, 120B(1)4:68
 glauconite, 120B(1)9:121
 Gortani Ridge, 107B18:295–296
 hyaloclastite, 143B16:265
 hydraulic conductivity, 141B32:403
 hydrothermal veins, 153A3:85–86
 igneous rocks, 163A4:36
 inclusions, 209A10:13
 Izu-Bonin forearc, 126B6:101; 8:126–129
 Kerguelen Plateau, 120B(1)10:139
 lava flows, 152A9:135; 163A5:55, 63
 lithology, 152A6:60–62; 157A4:68; 8:406–407;
 159A6:164; 165A5:241; 170A4:108;
 171B_A5:180–181, 229–231, 234; 6:246, 250–
 251, 257–258; 180B6:8; 181A8:8; 183A4:12–14;
 5:38–43; 190A4:8; 5:9; 191A4:11–12; 192A1:11,
 16; 3:8–9; 6:5–6; 7:3–4; 193A6:5; 195A3:14;
 4:11–12; 198A3:13; 199A8:5; 9:5–6; 10:6; 11:7;
 13:6; 15:4–5; 200A3:10; 201A12:8; 207A4:5–9;
 5:5–7; 6:10; 7:6–10; 8:6–7; 208A7:8–9; 210A3:24
 Marsili Basin, 107B17:289
 Mascarene Plateau, 115B37:688
 metamorphism timing, 120B(1)4:63–64
 Mid-Atlantic Ridge, 106/109A8:216
 mineralogy, 120B(1)4:66–67; 121B27:521–522;
 152B34:419–420; 176A3:37
 Neogene, 144A3:71
 Ninetyeast Ridge, 121A11:324; 121B32:629
 Norwegian Sea, 104A4:101, 103; 5:467
 opal-A/opal-CT transition, 127/128B(1)1:10
 origin, 108B17:306; 160B45:587
 oxygen isotopes, 124B36:503
 paleosols, 144B19:383–385
 petrography, 120B(1)4:64; 161B3:41; 195A4:14–16
 petrology, 144B29:501; 168A4:65
 photograph, 135A(1)11:599; 141B11:165; 153A3:89–
 91; 157A4:69–70; 10:514; 159A6:164; 7:228;
 161A4:64; 8:368; 163A4:36, 39; 5:63; 170A3:62;
 173A9:281; 183A4:43, 65; 5:132, 135–136;
 9:101; 192A3:56–57; 193A1:80; 4:71; 6:15;
 205A1:58–59; 4:80, 87–88, 95–98
 photomicrograph, 163X_A6:39; 168A5:137;
 173A9:283; 191A4:107; 192A1:54; 4:57, 88–90;
 195A4:89–92, 105; 198B16:21, 23; 200A3:98–
 103; 205A1:61; 4:78, 113
 pillow basalts, 168B10:123
 pore water, 195A4:34–36
 potassium, 129B1:28
 prismatic, 192A5:81
 pseudomorphs, 183A5:31
 pyroclastic sequences, 124B13:183–184
 pyroxene plagioclase phyric basalts, 127A5:217–219
 quartz gabbros, 180B3:5–6
 resistivity, 111B9:103–104
 reworked, 195A4:84
 Sardinian margin, 107B18:296
 scanning electron micrograph, 127/128B(1)1:30;
 159B16:153, 155
 seawater reactions with basement, 165B19:294
 secondary minerals, 126B6:105; 137/140B15:176,
 184–185; 148B11:154; 34:426; 163X_A4:13;
 168A5:126, 132; 183A1:14; 4:20–21
 sedimentation, 192A6:11

- sediments, 135B6:92; 136B5:66–68; 141A10:361;
159B43:590; 185A1:24; 195A1:20; 200A1:14
- silicon/(aluminum + iron) ratio, 127/128B(1)9:139,
141
- Site 699, 114A6:156, 160, 164, 174, 193; 114B37:689
- Site 700, 114A7:264, 279; 114B2:37
- Site 709, 115B37:688
- Site 711, 115B37:688
- Site 747, 120A6:135
- Site 748, 120A7:174, 222, 228; 120B(1)8:100
- Site 749, 120A8:268
- Site 765, 123A4:103; 123B1:19; 9:192; 15:332
- Site 766, 123A5:280, 288
- Site 779, 125B25:419
- Site 781, 125A9:184
- Site 786, 125A14:318
- Site 792, 126A8:242
- Site 797, 127/128B(1)9:142
- smectite covering, 126B8:135
- strontium isotopes, 148B10:149
- subsidence, 120B(2)52:948
- Sulu Sea, 124A11:255, 261–263
- transmission light microscopy, 207B2:30
- tuffs, 197A3:13–14
- turbidites, 131A6:95–97
- Tyrrhenian Sea, 107B19:315, 320
- veins, 134A10:273; 137/140B20:236; 148B35:442–
443; 163A3:28; 176A3:44–45; 176B9:13;
192A5:17; 209A6:65
- vesicles, 135A(1)5:229
- volcanics, 127/128B(2)87:1375–1377; 190/196B2:4
- volcaniclastics, 134B9:133–144; 136B7:87;
157A8:414–415; 9:454, 456
- vs. depth, 113A12:711; 131A6:108; 144A4:126; 5:177;
144B3:63–64; 152A9:134; 181A4:32; 183A4:62;
5:128–129, 138–139; 6:140; 8:70; 9:98–99;
195A3:76–78; 197A3:99–102; 5:73
- vs. lithology, 141A10:351
- X-ray diffraction data, 134B8:114–116, 119;
159B15:147; 185A4:71, 79; 185B9:20; 195A4:94;
198B16:5; 200A4:118, 121; 205A4:111–112
- zoning, 127/128B(1)9:143
- See also* analcime; analcime-wairakite series; cements;
chabazite; clinocllore; clinoptilolite; erionite;
gmelinite; harmotome; herschelite; heulandite;
laumontite; mesolite; microclinoptilolite;
mordenite; natrolite; phillipsite; prehnite; sco-
lecite; stilbite; thomsonite; tuffs; wairakite;
veins
- zeolites, sodium
- alteration, 129B19:367
- fractures, 129B15:292
- lithology, 129A3:99; 129B14:268, 269
- scanning electron microscopy, 129B4:134; 6:158–159
- sediments, 129B14:274
- Site 801, 129B2:36
- Site 802, 129B4:119, 124–125
- stratigraphy, 129B1:22
- Valanginian, 129B32:596
- veins, 129B4:130
- X-ray diffraction data, 129B5:143
- zeolites, vein-forming, X-ray diffraction data, 176A3:145
- zeolitization
- diagenesis, 131B28:351; 143A9:314
- glass and feldspar, 126B8:129
- photograph, 157A4:67
- provenance information destroyed, 127/128B(1)9:148
- sandstone, 127/128B(1)9:137–139
- tuffs, 129B4:129–130
- zero-field cooled curves, granulometry, 178B14:7
- Zijderveld plots
- basalts, 191A4:25, 88; 191B8:12–13, 15, 17
- demagnetization, 141A7:183–184; 8:261; 141B3:33;
5:64–69; 144B33:579–592; 145A3:60; 4:100;
5:146; 7:314; 8:353–354; 145B31:471;
146A(1)4:76–77; 5:165, 167; 6:256–257; 7:328;
147B21:379; 22:385, 389; 24:411; 157B6:60–67;
163B4:37; 164B39:412; 192A5:19; 193A4:212;
194A4:74–78; 210A3:270, 274
- discrete samples, 141A9:323–324; 10:373–376;
205A4:142; 5:81
- dunites and harzburgites, 147A4:149
- gabbros, 147A3:95
- intensity-decay curves, 193A3:240–241
- Leg 128 pilot samples, 127/128B(2)62:971
- magnetic polarity zones, 138A(1)9:146; 165B8:144
- magnetic properties, 141A6:96–97; 142A4:72;
146A(2)2:39; 191A4:82, 88; 196A3:78
- overprinting, 199A12:57
- sediments, 190A5:18, 64; 192A3:131; 5:97; 6:20, 81;
7:10, 46; 194A4:19; 5:15; 7:77, 80; 198B21:10
- Site 794, 127A4:104–105; 128A3:104–105
- Site 795, 127A5:203, 206–207
- Site 796, 127A6:277–279
- Site 798, 128A4:173
- Site 799, 128A5:316, 318–320, 322–323
- uniform vector decay, 129B24:451
- volcaniclastics, 192A4:99
- zinc
- alteration, 147B26:450; 152B35:426; 193B1:19–20,
49; 197A3:29
- amphibolites, 173A6:133
- basalts, 158B17:215, 217; 210B9:16
- black shale, 210B8:16; 10:5
- calcite, 168B10:126
- carbonates, 168B11:139, 141
- chimneys, 193B1:35
- clay minerals, 158B20:280, 283; 169B6:6, 24
- Cretaceous/Tertiary boundary, 119B39:724–725
- dark-light cycles, 127/128B(1)32:569
- depletion, 137/140B7:93–94; 17:204; 148B4:51;
34:429; 169A3:99
- detrital component, 167B23:267–270
- diabases, 148B1:4
- diagenesis, 156B12:168
- element correlations, 158B4:65; 27:382–384
- enrichment geochemistry, 158B27:377; 169A3:99
- ferromanganese crusts, 144B44:760
- fine-grained sediments, 210B8:14
- gabbros, 176B6:19; 8:4–14
- granites, 161A6:216
- hydrothermal clays, 158B17:217

- hydrothermal fields, 158A1:9–13; 158B27:367, 370–379; 28:395, 397
hydrothermal sediments, 145B27:418, 421–422; 199B15:3
jasperoids, 193B9:6
leaching, 169A3:102
limestone, 143B13:214–215, 220
lithology, 207B8:10
manganese nodules, 138B40:808
mass balance, 169A3:98
metabasaltic clasts, 158B17:217
metalliferous sediments, 138B37:771, 774
mineral separates, 158B2:30, 33, 36–37, 39; 7:94
Paleocene/Eocene boundary, 199B16:3
pore water, 116B13:146, 154; 140A2:90; 193B4:4–5; 208A3:21; 4:20; 5:15; 6:24
postoxic conditions, 157B32:567–569; 38:631
pyrite, 158B1:12; 193B3:3
relation to gold, 148B36:453–454
saponite, 168B12:154
scandium-normalized distribution, 119B39:724
sediments, 167B23:265; 170A3:77; 4:140–141; 6:206; 178A4:23; 178B4:1–12; 180B6:10–11, 16; 7:21; 205B3:4
serpentinites, 149B30:524
Site 765, 123A4:161, 199
Site 783, 125A11:258
Site 794, 127/128B(2)85:1363
Site 795, 127/128B(1)41:710; 85:1365
Site 797, 127/128B(2)85:1366
Site 798, 127/128B(2)86:1370–1371
sphalerite, 158B1:13
stratigraphic variation, 118A6:147
sulfides, 128A1:21; 158A7:93–94, 97–98; 8:156, 158–160; 10:189–191; 158B3:44; 28:405; 169A3:88–89; 169B5:5–6; 176B7:6–9; 193B1:23; 10:3–7
Sulu Sea, 124A11:264
Turonian–uppermost Santonian, 210B8:9
veins, 176B9:16
volcanic rocks, 135B30:533–542; 183B17:2
vs. alteration, 137/140B6:71; 148B4:49
vs. barium, 205B3:11
vs. copper, 148B4:53; 158B28:398
vs. depth, 131B28:350, 356; 135B7:114; 137/140B6:68; 7:92; 14:164; 140A2:90, 145; 147B26:448; 148A2:61–62; 3:158; 148B1:5; 4:48; 5:61; 10:137; 34:423; 36:454; 149B30:525; 156B12:167, 170; 13:179, 181; 157B15:251; 158A7:129; 8:160; 10:195; 158B4:53, 57–61; 27:374–376; 160B16:201; 164B15:159; 169A3:89, 97; 170A3:82; 171B_B4:9; 173A6:140; 176B6:52; 8:12–13, 27–30; 179A4:124; 193A3:224; 193B1:69; 199B15:6; 16:7; 208A3:57; 4:58; 5:48; 6:67; 210B8:53
vs. iron, 199B14:16
vs. iron oxide, 176A3:49, 170
vs. loss on ignition, 148B10:140
vs. magnesium number, 148A2:59; 3:156; 153A4:147
vs. magnesium oxide, 163X_A8:32; 180B6:14, 37
vs. manganese, 199B14:16
vs. niobium, 121A11:334
vs. platinum + palladium, 147B4:85
vs. silica, 151B19:360
vs. subbasement depth, 148A3:159
vs. sulfur, 148B10:140
vs. titanium oxide + iron oxide, 148B10:140
vs. water content, 148A2:62; 3:160; 158B19:265
vs. zirconium, 157A7:363; 8:418; 157B13:192; 197A3:108
zoning, 158B28:397
See also calcium/zinc ratio; cobalt-copper-zinc diagram; copper-lead-zinc plots
zinc, acid-soluble fraction, vs. carbonate, 150B17:318
zinc/aluminum oxide ratio, vs. depth, 131B35:444
zinc/aluminum ratio
 lithology, 207B8:25
 sediments, 171B_B4:4
 vs. depth, 157B32:568; 171B_B4:11
zinc-copper-nickel-cobalt-chromium diagram
 vs. iron/manganese ratio, 135B43:703
 vs. manganese, 135B43:702
zinc/copper ratio
 sulfides, 158A7:97–98; 8:158
 vs. depth, 158A7:129
zinc/iron ratio
 sulfides, 158A7:97–98; 8:158
 vs. depth, 158A7:129
zinc oxide
 electron microprobe transects, 147B8:164
 metamorphism, 147B8:169
zinc sulfides
 hydrothermal fields, 158A1:8
 pore water, 195A3:33
zinc/zirconium ratio
 alteration, 197A3:29; 4:22–23; 5:19–20; 6:16–17
 vs. depth, 197A3:107; 4:77–78; 5:75; 6:78
zircon
 aluminum oxide, 180B6:14
 amphibolites, 173A6:130–131
 basalts, 191A4:29–30
 clasts, 157B15:239; 173A7:191; 183B1:9
 composition, 153B11:249–251; 155B7:151; 176B9:56
 Costa Rica Rift, 111A3:58
 crystal-vitric tuff, 183A5:34
 dikelets, 153B11:246–247
 fission-track data, 159B5:43–48
 fluid inclusions, 147A3:76–78
 fluorescence, 180B10:5
 gabbros, 147B11:216; 153B17:338, 341
 granite gneiss, 180A7:13
 heavy minerals, 150X_B7:75–79; 174A_B(synthesis):10; 6:6, 9–11
 hydrothermal alteration, 193B1:16
 igneous rocks, 209A10:27
 inclusions, 157B27:455
 ion microprobe data, 180B(synthesis):5
 leucocratic veins, 118B8:155, 163, 165, 172
 lithology, 171B_A6:257–258; 209A5:9; 210A3:37
 microphenocrysts, 157B15:231
 petrography, 147A3:62–63
 photograph, 146A(1)4:64; 147A3:64; 153A3:89; 4:157; 5:184, 198; 153B3:45; 5:84; 11:248

- photomicrograph, 163X_A6:42; 183A5:116;
 191A4:102; 209A1:104; 5:76–77
 “placer sands,” 157B12:149
 provenance, 160B17:213; 209B1:18
 rare earths, 147B3:62–63
 scanning electron microscopy, 174A_B7:52, 56
 schists, 161B19:265
 sediments, 171B_B4:4–5
 serpentinization, 153B3:39
 stratigraphic distribution, 118B8:167
 tonalite gneiss, 173A6:131
 uranium-lead dating, 180B2:6, 27
 veins, 176B9:13–14
 vs. depth, 202A3:25
 zircon, euhedral, photograph, 147B1:17, 19; 11:215
 zircon grains, volcanoclastics, 180B7:6
 zirconium
 alteration, 137/140B7:90–93; 153B10:208; 183B15:5,
 14; 185A3:16–18
 amphibolites, 173A6:133; 173B10:4–5
 anomalies, 153B10:235
 Atlantis Bank, 118B6:135
 atomic emission spectroscopy, 142B2:11
 basalt fractionation, 127/128B(2)54:873
 basalts, 129B19:378, 386; 130B1:7–10, 14–20;
 135A(1)5:224; 145A5:136, 138; 6:220;
 158B17:218; 163A4:39–40; 163B7:70;
 163X_A8:11; 183A5:34–35; 187A3:9–10; 6:10;
 8:11; 9:8–9; 11:12; 14:8; 15:11; 192A6:17; 7:8;
 195A4:23, 112; 196A3:32, 96; 197A4:17–18;
 200A1:13–14; 4:36–37; 206A1:30–31; 210B9:17
 basement, 121A11:333; 12:399; 15:526; 121B30:568;
 123A4:180, 195; 128A3:99; 183A6:48; 7:132;
 8:18; 9:27–28; 200B2:3–4
 boninite vs. bronzite andesites, 125B12:226
 bulk rock vs. diabase, 118B26:484–485
 Celebes Sea, 124A13:372–373; 124B20:294–295
 clasts, 173A7:195
 clay, 180B17:6
 clinopyroxenes, 118B4:80
 component, 167B23:266–270; 183A4:20
 dacite lava, 193B2:8
 depletion, 135B4:73
 diabases, 129B18:348, 358; 153B10:227; 180A6:36;
 180B1:4; 209A7:24
 distribution relative to other elements, 129B18:357
 enrichment, 125B28:500; 38:640
 felsic rocks, 183A5:36–37; 7:41
 ferrogabbros, 176B12:13
 fine-grained sediments, 210B8:14
 fractionation, 127/128B(2)54:881; 129B19:383;
 183A7:41–42
 gabbros, 147B2:38; 153B6:108–109; 17:339–344, 346;
 22:496; 176A3:50; 176B3:4–5; 6:19; 8:4–14;
 12:4–5, 14; 179A4:45–47; 179B(synthesis):9;
 205A4:34–35; 209A6:30; 209B1:7; 10:25
 geochemistry, 120B(1)3:56; 129B5:143
 grain size, 135B43:705
 granites, 161A6:216; 180A7:13
 hydrothermal sediments, 158B17:218; 199B15:3
 igneous rocks, 135A(1)4:149–151; 8:371–372;
 163X_A6:23; 8:35; 209A5:37, 39; 10:27
 immobile elements, 137/140B7:86–87; 169A3:101
 isotopic boundary, 187B1:4–5
 lava, 123B42:796; 134A10:277–278; 163A5:59–60, 64;
 183A1:14; 197A3:21–22; 5:16–17; 6:14–15;
 206A3:65
 limestone, 143B13:221
 lithology, 183A1:29, 33; 4:19; 7:39; 207B8:7;
 210A3:29, 33, 35
 mafic rocks, 125B24:405–406
 magmas, 183A7:40
 mantle, 158B17:225; 187A1:13
 mass balance, 169A3:98
 melts, 147B2:44
 metabasaltic clasts, 158B17:218
 metasedimentary rocks, 152B10:136
 mineral separates, 158B2:32
 mobility, 148B4:47–50; 183B15:9–10
 Ninetyeast Ridge, 121A10:280–281; 11:327
 Pacific mid-ocean-ridge basalt, 125B13:256
 percent change from protolith, 137/140B17:203
 peridotite clinopyroxenes, 125B28:495–498
 peridotites, 125B28:498–500; 153B14:291; 209A3:34;
 6:29; 7:22; 9:18–19
 pillow basalts, 187A4:7
 positive anomalies, 125B28:492; 38:633
 provenance, 160B17:213; 200A3:33–34
 quartz gabbros, 180A11:6
 rhyodacites, 193A3:71
 saponite, 168B12:154
 seawater-rock alteration, 134A8:155–156
 sediments, 167B23:265; 170A3:77–78; 4:140–141;
 6:206; 178A4:23; 180B6:5–7, 10–11, 13, 15–24
 shore-based flux vs. shore-based microwave acid di-
 gestion, 206B3:12–13
 sills, 210A3:68
 Site 765, 123A4:199–200
 Site 794, 127/128B(2)85:1363
 Site 795, 127/128B(2)85:1365
 Site 797, 127/128B(2)85:1366
 stratigraphic variations, 118A6:150; 163X_A8:12
 sulfides and sediments, 158B3:43
 Sulu Sea, 124A11:220, 265, 268
 tholeiitic basalts, 192A5:14–15
 troctolites, 209A10:23
 trondhjemites, 118B26:486
 tuffs, 129B4:127
 turbidites, 123A4:161
 veins, 176B9:16; 11:15
 vesicles, 135B37:615
 volcanics, 127/128B(2)87:1386; 135B30:533–542;
 163B7:67–74; 165A3:82; 4:180; 183B17:2
 volcanoclastics, 126B31:477
 volcanism, 163X_A8:16
 vs. age, 135B3:46
 vs. alteration, 121B30:577; 137/140B6:71; 148A2:62;
 148B4:49
 vs. aluminum oxide, 180B6:14, 36; 207B8:20;
 209A3:139; 5:152; 6:105; 7:96; 9:88; 10:118

- vs. barium, 121B30:565; 128A3:100; 134A10:279;
135A(1)8:372; 9:448; 11:656; 135B4:61; 25:452;
142B2:16; 187B1:36; 197A3:94; 4:71; 6:72
- vs. calcium number, 147B1:15
- vs. chromium, 121B30:574; 129B4:128; 142A4:70;
205A4:118
- vs. clinopyroxene number, 176B8:26
- vs. cobalt, 197A3:108
- vs. copper, 137/140B7:92; 197A3:108
- vs. depth, 129B18:351; 130A9:446; 137/140B6:68;
7:90; 140A2:89, 93; 147A3:91; 147B1:13;
148A2:61–62; 3:158; 148B2:16, 18; 4:48; 10:137;
149B10:291; 153B6:111; 157B27:454;
164B15:160; 170A3:82–83; 171B_B4:9;
173A6:140; 176B(synthesis):63; 6:55; 8:12–13,
27, 29–30; 179A4:124; 179B(synthesis):81;
180A6:132; 183A1:81; 4:59; 5:121; 6:135; 8:66;
185A1:46; 3:67, 107; 185B1:24; 192A5:74;
193A4:192, 194; 197A5:69; 199B15:6; 200A1:50;
4:110; 200B1:28; 2:14; 205A4:114; 206A1:83;
3:64–65, 196; 206B6:6; 210B8:56
- vs. iron oxide/magnesium oxide ratio, 200B2:16
- vs. lanthanum, 142B2:15; 161B27:366
- vs. lanthanum/ytterbium ratio, 153B10:233
- vs. loss on ignition, 147B1:10; 148B10:1400
- vs. magnesium, 135B25:449
- vs. magnesium number, 147B1:10, 15; 148A2:59;
3:156; 153A3:79; 6:239; 153B13:282; 176B8:26;
209A1:118, 137; 209B1:29
- vs. magnesium oxide, 135B24:411; 26:478; 29:523;
137/140B4:48; 144B29:503; 145B22:337, 339;
148B4:53; 163X_A8:32; 187A3:25; 4:18; 5:18;
6:37; 7:34; 8:52; 9:22; 10:25; 11:36; 12:42;
13:42; 14:29; 15:43; 197A1:73; 3:97; 5:68; 6:74;
200A1:65; 3:108; 200B2:11; 206A1:89; 3:200;
209A7:100
- vs. major elements, 123A4:203–204; 134A11:346;
12:417; 157B12:168
- vs. modal plagioclase, 121B30:580
- vs. neodymium isotopes, 152B29:356
- vs. nickel, 121B30:574; 135B25:452; 137/140B7:89;
140A2:92; 153B19:373; 163A5:62; 183A1:94
- vs. niobium, 121A12:400; 127/128B(2)47:783;
128A3:100; 130A10:527; 134A9:200–201;
10:279; 135B3:41; 53:852; 137A2:28; 137/
140B7:90; 140A2:86; 142B2:15; 143B15:255;
16:272; 31:508; 148B37:466; 152B6:79;
165A8:393; 176B3:7; 183A1:75, 93; 5:123;
7:133; 8:68; 206A1:87; 3:202
- vs. niobium/zirconium ratio, 183A9:96
- vs. noncarbonate fraction, 165A6:323
- vs. phosphorus, 197A3:94; 4:71
- vs. phosphorus oxide, 153B17:347
- vs. potassium, 197A3:94
- vs. potassium oxide, 197A3:108; 4:79
- vs. rare earths, 137/140B6:69; 173B10:14–16
- vs. rubidium, 121B30:564; 134A10:279
- vs. samarium, 142B2:15
- vs. scandium, 152B27:324–325; 28:345; 163B7:70
- vs. silica, 134B19:385; 135B4:67; 151B19:360;
207B8:20
- vs. sodium, 197A3:94
- vs. strontium, 121B30:565, 569; 125B12:223;
134A10:279; 135B25:452; 153B17:347;
197A3:94; 4:71; 6:72; 209A7:100
- vs. strontium/zirconium ratio, 153B14:302
- vs. subbasement depth, 148A3:159
- vs. tantalum, 129B18:359; 148B37:466
- vs. thorium, 148B37:466
- vs. titanium, 128A3:101; 131A6:198; 134A8:157;
12:418; 134B16:347; 17:358; 135B25:450; 137/
140B12:136; 142A4:70; 147B6:119; 152B10:136;
183A7:138; 197A1:56; 3:94; 4:70; 6:72
- vs. titanium and yttrium, 134A12:419
- vs. titanium oxide, 121A12:401; 121B30:575;
123A4:195; 129B4:128; 130A9:446; 131B16:207;
134A10:279; 137/140B6:69; 143B15:252;
147B2:47; 153A6:240; 173A7:198; 176B3:7;
192A1:47; 3:109; 4:84; 5:71; 6:73; 7:36;
193B2:22; 206A1:87; 3:65, 202; 209A5:157;
210A3:251
- vs. titanium/yttrium ratio, 180A6:135
- vs. titanium/zirconium ratio, 137/140B4:50
- vs. trace elements, 123A4:205; 134A12:417;
157A7:363; 8:418; 157B12:169; 13:192;
183A9:95
- vs. water content, 140A2:89; 148A2:62; 3:160
- vs. yttrium, 127/128B(2)47:783; 128A3:100;
134A10:279; 135A(1)8:372; 9:448; 135B25:450;
142A4:70; 153A3:79; 4:149; 5:195; 153B19:375;
158B19:263; 173A6:141; 7:198; 173B10:12;
183A1:75; 5:123; 185A1:46; 3:109; 4:109;
197A1:64; 4:71; 5:17, 72; 200B1:29; 2:12;
209A5:158; 10:124; 210A3:251
- vs. zinc, 197A3:108
- vs. zirconium/hafnium ratio, 153B14:302
- vs. zirconium/niobium ratio, 142B2:15; 152A9:140
- vs. zirconium/titanium ratio, 183A1:72, 93; 4:61;
5:125; 6:138; 8:19, 68
- vs. zirconium/yttrium ratio, 128A3:100; 135B25:451;
137/140B7:90, 94; 143B16:273; 197A1:64; 5:72;
210B9:57, 60
- See also* aluminum oxide/zirconium ratio; aluminum/
zirconium ratio; barium/zirconium ratio; ce-
rium/zirconium ratio; chromium/zirconium ra-
tio; cobalt/zirconium ratio; copper/zirconium
ratio; lead/zirconium ratio; nickel/zirconium ra-
tio; phosphate/zirconium ratio; phosphorus/zir-
conium ratio; rubidium/zirconium ratio;
titanium-zirconium-yttrium tectonomagmatic
discrimination diagrams; ytterbium/zirconium
ratio; zinc/zirconium ratio; zirconium/zirco-
nium mid-ocean-ridge basalt ratio
- zirconium/FMM ratio, vs. aluminum oxide/FMM ratio,
153B10:216
- zirconium-hafnium enrichment, geochemistry,
125B12:229–230
- zirconium/hafnium ratio
- vs. depth, 148B37:464
- vs. zirconium, 153B14:302
- zirconium/neodymium ratio
- basement, 126B27:416

- Izu-Bonin forearc, 125B13:247, 249, 255
 vs. europium anomaly, 136B9:115
- zirconium/niobium ratio
 basalts, 118A3:54, 56; 119B16:317–318; 121A11:330;
 121B30:568, 571, 577, 581; 129B19:374;
 130A10:524–525; 131B16:206; 136B9:117;
 145A6:220; 152B40:491
 basement units, 183A7:41; 8:18; 9:27–29
 continental component, 183A4:20
 Deccan-Réunion lineament, 115B2:20
 incompatible elements, 121A10:282
 intersite differences, 121A12:393; 121B32:637
 lithology, 183A1:29
 mineral chemistry, 142B1:5–6
 postmagmatic alteration, 121A11:329
 Site 738, 119B15:294
 source differences and variations, 121A15:526, 528
 trapped melts, 118B4:83
 two-component magma mixing, 121B32:641
 volcanics, 121A12:393; 13:474; 152B28:339–340, 342
 vs. age, 135B52:840
 vs. depth, 152B40:489; 183A5:122; 8:66; 9:93, 96
 vs. iron oxide/magnesium oxide ratio, 200B2:16
 vs. phosphorus oxide, 183A9:96
 vs. titanium, 183A9:96
 vs. yttrium/niobium ratio, 121A11:334–335; 12:403–
 404; 15:527–528, 530; 121B32:644; 136B9:112
 vs. zirconium, 142B2:15; 183A9:96
 vs. zirconium/titanium ratio, 183A9:96
 vs. zirconium/yttrium ratio, 131A6:199; 142B2:13;
 183A1:72; 4:61; 5:125; 7:133, 138; 9:96
- zirconium/samarium ratio
 basement, 126B27:416
 fractionation, 125B12:230–232
 lithology, 125B38:640
 Mariana-Bonin arc-basin system, 125B13:256–257
- zirconium/scandium ratio, basalts, 121B30:568
- zirconium/strontium ratio
 basement, 126B27:416
 bronzite andesites, 125B12:226
 igneous rocks, 125B38:640
 Izu-Bonin forearc, 125B13:249
 neodymium isotope covariation, 125B13:256, 260
 volcanic rocks, 152B28:339–340, 342
 vs. depth, 183A1:81; 6:135
 vs. magnesium, 135B25:452
 vs. silica, 152B28:343
 vs. zirconium, 153B14:302
- zirconium/tantalum ratio
 basalts, 121B30:571; 129B18:350
 clinopyroxenes, 147B6:125–127
- zirconium/titanium oxide ratio
 alteration, 123B9:194; 193A4:48
 basalts, 123B10:205; 145A6:220
 basement, 126B27:416
 rhyodacites, 193A3:71
 Site 765, 123A4:203
 vs. aluminum oxide/titanium oxide ratio, 169A3:102
 vs. depth, 137/140B6:68; 193A3:224; 4:192, 194;
 193B1:54
 vs. niobium/yttrium ratio, 123B4:101; 135B40:655
- vs. silica, 193B1:65
- zirconium/titanium ratio
 basalts, 121B30:568–570; 123B10:210; 130A10:524–
 525; 183A6:49; 203A3:14; 210B9:16
 basement units, 183A1:10, 17, 19, 35; 6:48; 8:18
 continental component, 183A4:20
 detrital component, 167B23:267–270
 fractionation, 125B12:230
 intrusives, 123A5:326
 lava flows, 183A1:15; 197A6:14–15; 206A3:65
 mafic rocks, 125A6:104–105
 Mariana-Bonin arc-basin system, 125B13:256–257
 olivine gabbros, 176B3:5
 peridotites, 125B28:493
 sediments, 165A3:76–77; 4:174
 sills, 129B18:349
 Sulu Sea, 124B19:264
 vs. barium/strontium ratio, 203A3:52
 vs. depth, 140A2:93; 165A3:78; 4:175; 183A1:81;
 6:135; 8:66; 9:93; 197A1:39, 85–86; 3:98; 5:69;
 6:30; 203A3:50; 206A1:85; 3:198
 vs. lanthanum/samarium ratio, 137/140B12:137
 vs. magnesium number, 203A3:51
 vs. magnesium oxide, 183A1:64
 vs. neodymium isotopes, 125B13:254–255, 258, 260;
 126B27:428
 vs. nickel/titanium ratio, 167B23:269
 vs. niobium/yttrium ratio, 210B9:56
 vs. niobium/zirconium ratio, 183A9:96
 vs. rubidium/titanium ratio, 167B23:269
 vs. silica, 193B2:22
 vs. titanium, 140A2:92; 183A7:138
 vs. ytterbium/zirconium ratio, 137/140B17:204
 vs. yttrium/titanium ratio, 137/140B5:55
 vs. zirconium, 137/140B4:50; 183A1:72, 93; 4:61;
 5:125; 6:138; 8:19, 68
 vs. zirconium/yttrium ratio, 203A3:52
- xenoliths, 193B6:3
- zirconium/yttrium ratio
 alteration, 185A3:18
 Atlantis Bank, 118B1:5; 4:83
 basalts, 119B16:318; 121B30:568, 571, 577, 581;
 129B18:349; 19:374, 386; 130A10:524–525;
 131B16:206; 145A6:220; 152A11:229;
 183A5:35–37; 185A4:24; 191B3:4; 203A3:14;
 210B9:17
 basement, 126B27:416, 426; 183A1:17, 19, 35–36;
 5:126; 6:48; 7:41; 8:18; 9:27–29; 206B6:3
 continental component, 183A4:20
 distribution, 153B10:235; 19:374
 felsic volcanic rocks, 183A5:36–37
 garnet-biotite gneiss, 183A5:37
 igneous rocks, 135A(1)4:149–151; 209A10:27
 lava, 206A3:65
 lithology, 183A1:22, 29
 relative position, 163X_A1:16
 sediments, 165A3:77
 Site 765, 123A4:200; 5:326
 Site 792, 126A8:267
 Site 793, 126A9:370
 tholeiites, 129B19:369–370

- trapped melts, 118B4:83
veins, 118B26:486
volcanic rocks, 152B28:342
volcaniclastic sand/sandstones, 126B31:477, 480
vs. chromium, 143B16:274
vs. copper, 137/140B7:93
vs. depth, 135B4:66, 68, 70; 137/140B7:90; 140A2:89;
152A9:137; 152B31:375; 153A4:151; 183A1:81;
5:122; 6:135; 8:66; 9:93; 185A3:107; 200B2:14;
206A1:85; 3:198; 206B6:7
vs. hafnium/tantalum ratio, 142B2:13
vs. iron oxide/magnesium oxide ratio, 200B2:16
vs. lanthanum/samarium ratio, 137/140B9:115
vs. neodymium isotopes, 125B13:254–255
vs. neodymium/samarium ratio, 142B2:13
vs. nickel, 143B16:274
vs. niobium/cerium ratio, 183A1:72; 4:61; 5:125
vs. niobium/yttrium ratio, 152B6:84; 28:345–347;
40:496–497; 163B8:91; 183A1:76, 82–84; 5:126;
6:49, 139; 8:19, 69; 210B9:63
vs. niobium/zirconium ratio, 183A1:72; 4:61; 5:125;
7:133, 138; 9:96
vs. titanium/zirconium ratio, 203A3:52
vs. water content, 140A2:89
vs. zirconium, 128A3:100; 135B25:451; 137/
140B7:90, 94; 143B16:273; 197A1:64; 5:72;
210B9:57, 60
vs. zirconium/niobium ratio, 131A6:199; 142B2:13;
191B3:10
zirconium/zirconium mid-ocean-ridge basalt ratio,
135B24:410
zirconium/zirconium number ratio, 173B10:5
zoisite
 metadiabase, 180A8:17
 mica schist, 180A7:12–13
 mineral chemistry, 180B3:23
 photograph, 153A6:249
 photomicrograph, 169A3:100; 209A9:66
 secondary minerals, 180B3:8
 See also clinozoisite; saussurite; thulite
zonation
 biostratigraphy, 146B(2)20:269; 149B2:28–34; 6:166,
169–184; 10:245–248; 150B27:439–454;
152B14:201–208; 154A6:241; 155B38:579–580;
40:669; 159A7:235; 159B34:446–449; 37:509–
523; 39:533–538; 42:575–583; 161B16:224–232;
166A9:246; 175A3:67; 177A1:10; 178A8:41;
180A6:43–48; 7:49; 182A1:11–12; 182B3:4–8;
183B3:13; 8:2–3; 184B7:5–9, 23; 188B3:25;
189B6:4; 198A3:58–59; 198B3:3–4; 199A11:47–
48; 12:53–54; 13:38–39; 14:30
 bleaching alteration, 193A3:39–41
 boundaries, 149B45:701
 calcareous nannofossils, 130B6:88; 8:179; 11:181–
189; 13:245–255; 48:803; 133B2:23;
138B12:234, 239–249; 21:481–493, 495–500;
143B3:34–35, 37–44; 149B3:61–64; 4:83–90;
5:148–149; 150X_B9:92–106; 156B3:49–56;
160B7:84; 164B33:332–333; 173B4:3–4; 5:5–9,
21–22; 178B26:1–21; 180A7:18; 9:31–32; 12:31;
181B2:4; 186B4:4–7, 21; 198B6:1–60
 calculation optimal, 123B40:760, 762
 carbonate platforms, 166A3:33–34
 Cenozoic, 141B30:375
 correlation, 127/128B(2)77:1225–1226; 131B1:3–13;
134B10:179–245; 11:247–263; 12:269;
138A(2)13:693; 157B9:99, 108; 161A5:135;
6:204; 7:312–313; 8:365–366; 9:398; 170A3:63;
4:118; 6:202; 7:232; 170B5:27–29; 198B6:7
 Cretaceous, 130B5:64–84; 7:96
 diagenesis, 164B30:306–307
 diatoms, 138B7:118–127; 145B1:4–5; 2:24–28;
146B(1)4:64; 150B2:17–35; 151B5:76–78;
152B15:211, 214; 159B36:493–494; 167B3:64–
65, 99, 102; 178B29:5–9; 183B6:13, 16; 9:6–7,
12–13, 37–38; 11:3–5; 184B6:6; 186A1:10;
186B2:3–5, 22, 24; 191B2:3–34; 199B6:3–6; 9:3–
6
 fluid flow, 166A8:192
 foraminifers, 127/128B(1)12:200–201, 222–223;
129B12:230; 143B2:19; 144B2:22–26;
146B(1)5:80–81, 95, 101, 107, 111; 154A4:74–
75; 5:164–165; 6:241; 7:292; 8:350–351;
169A5:212; 180A9:32–33; 12:32; 184B9:5–6
 Japan Sea, 127A1:20
 Jurassic–Cretaceous, 129B8:179–201
 lower Miocene, 192A4:55
 magnetic polarity, 180A6:256; 198A3:25–26
 Mesozoic, 129A1:14–18
 Neogene, 130B10:139–142; 180B11:11–12
 Oligocene, 130B9:115–119
 onshore exposures, 128A1:17
 paleobathymetry, 208A3:46; 4:49; 7:46; 8:46
 photomicrograph, 183A7:121; 8:53–54; 192A3:99
 planktonic foraminifers, 130B10:148; 154B2:35–42;
166B1:4–12; 15:156–159; 167B2:44–55;
180A10:14–15; 184B8:3–7, 32; 198B4:1–56; 5:1–
15
 Pleistocene, 167B1:12, 14
 radiolarians, 129B10:203–220; 145B4:56–59; 5:93–
116; 156B2:33–48; 165B3:58–60; 180B14:18;
182B2:16; 199B3:5–12; 202B6:5–9
 remanent magnetization, 159A8:274–275
 sediments, 150B8:132–133, 139–140; 187A6:35
 Site 794, 127A4:98, 100; 127/128B(1)20:344–345
 Site 795, 127A5:196–197; 127/128B(1)20:346–347
 Site 796, 127A6:271–272
 Site 797, 127A7:353; 127/128B(1)20:348–349
 Site 798, 128A4:161
 Site 799, 128A5:304–305
 Site 902, 150A6:79
 Site 903, 150A7:150
 Site 904, 150A8:222
 Site 905, 150A9:274
 Site 906, 150A10:321
 statistical analysis, 159B16:165–166
 vs. depth, 138A(2)16:914–916; 17:982; 18:1035;
19:1074; 149B16:322, 327, 333; 45:694–696;
151A7:172; 154A4:62–66; 5:158–160; 6:236–
237; 7:286–288; 8:342–345; 162A3:67–68;
4:109; 5:156; 6:188; 7:240; 8:262, 269; 9:307;
167B23:267; 174A_A4:118; 210A3:263–265

- See also* Unitary Association zones
- zonation, probabilistic
 computation, 123B40:764–767
 correlation, 123B40:759–772
 smoothing factor, 123B40:765
- Zone A
 alteration, 187B1:8–9
 basalts, 187A4:7; 5:7; 10:6; 11:13; 12:10–11; 13:14;
 187B2:2–3
 biostratigraphy, 184B7:5–7, 9–10, 26–27
 depth anomalies, 187B3:7
 geochemical signals, 187B1:18
 geology, 187A1:1–3, 12
 isotopes along-axis profiles, 187A1:20
 lead-206/lead-204 ratio, 187A1:41
 magnetic susceptibility, 187B7:5–6
 mantle, 187A9:10; 11:13; 187B1:16–19; 3:2–3
 olivines, 187B2:23
 sediments, 187A6:8–9
 Southeast Indian Ridge, 187B1:1–3
 trace elements, 187A8:12
- Zone A-East, domain distribution, 187A1:14
- Zone A-West
 domain distribution, 187A1:14
 isotopic variability, 187B3:10
- Zone B
 alteration, 187B1:8–9
 basalts, 187B2:2–3
 biostratigraphy, 184B7:7–8, 10–12, 23, 26, 28
 depth anomalies, 187B3:7
 geochemical signals, 187B1:18
 isotopes along-axis profiles, 187A1:20
 magnetic susceptibility, 187B7:5–6
 mantle, 187B1:16–19; 3:2–3
 sediments, 187A6:8–9
 Southeast Indian Ridge, 187B1:1–3
- Zone B4, depth anomalies, 187B3:7
- Zone B5, depth anomalies, 187B3:7
- Zone C
 isotopes along-axis profiles, 187A1:20
 sediments, 187A6:8–9
- Zone D, sediments, 187A6:9
- Zone Mi1, sea level changes, 150A2:12
- Zone Mi1–Mi7, sea level changes, 150A2:12
- Zone X, sediments, 155A22:673
- Zone Z, clay mineralogy, 155B9:179–180
- Zone Z/Y boundary, clay mineralogy, 155B9:179–180
- zoning
 alteration, 158B1:11; 28:395, 397, 412; 169A3:81–87
 augite, 163A4:38
 authigenic carbonates, 164B30:301–312
 chemical stratigraphy, 176B(synthesis):17
 clay mineralogy, 155B9:189–191
 clinopyroxenes, 176B10:12
 compressional wave velocity, 163B2:27
 dolomite, 175B15:6–7
 fractures, 148B22:312–314
 garnets, 161B19:267
 lava flows, 163B2:24–25
 metagabbro clasts, 173A7:191
 metals, 169A3:89
 metamorphism, 161B23:310
 photomicrograph, 179B2:29
 plagioclase, 148A2:39; 3:134–136; 161B19:267–268;
 176B9:17; 10:10
 vesicle fillings, 163X_A4:13
- zoning, crystal
 mineral textures, 176A3:20
 plagioclase veins, 176B9:4
- zoning, growth, plagioclase, photomicrograph,
 205A4:107
- zoning, magnetism
 downhole plots, 150B19:351, 354
 New Jersey continental slope, 150B19:349–358
- zoning, mineral
 basalts, 147B9:180–182
 chrome spinel, 147B8:166
 plagioclase, 147B2:33
- zoning, optical, phenocrysts, 197A4:48
- zoning, oscillatory
 andesitic clasts, 134A11:338–339
 minerals, 129B17:308
 petrography, 187A13:5
 photograph, 148A3:135
 photomicrograph, 183A4:48; 187A9:16; 13:19;
 192A5:55
 plagioclase, 140A2:58–62; 163A2:27; 183A5:31
 secondary minerals, 140A2:77–78
 silicates, 137/140B1:4
- zoning, sector
 augite phenocrysts, 163A3:28
 photograph, 148A3:136
 photomicrograph, 163A2:28
 silicates, 137/140B1:4
- Zoophycos*
 bedding, 159A6:186
 chalk, 133A(1)16:702; 160B32:410
 claystone burrows, 119A6:171
 Coniacian, 159A9:306
 Coniacian–Eocene interval, 159B12:117–119
 distribution, 119B33:639
 environmental analysis, 135B6:96–97
 lithofacies, 135B12:179; 160B32:408; 169A3:56
 lithology, 149A4:52, 55; 5:124; 6:158; 7:221;
 152A11:196, 198, 205; 154A4:61; 5:157;
 156A7:203; 159A5:77–78, 80, 98–99; 6:164–166;
 7:228; 160A4:60; 7:161; 8:220–223; 10:340–342;
 161A5:118; 7:304–305; 8:357–358, 361; 9:394,
 396; 164A6:107; 165A4:145, 147; 5:244;
 166A10:298, 302; 167A(1)10:246–247; 14:395,
 15:437–438; 168A5:110–111; 6:168; 169A4:163–
 165; 170A3:53; 4:104, 106–108; 7:221;
 171B_A3:55; 4:99–101, 105; 5:180–181; 6:246,
 251, 253, 256–257; 7:324; 172A4:84, 90–91;
 5:164–165, 168, 170–174; 6:257–258;
 173A4:71–74; 174A_A5:159–162; 175A14:433;
 177A3:5; 178A4:6; 8:5; 180A5:15–16; 6:15–16,
 20, 23; 9:10, 17, 24; 10:9; 12:5, 13, 16;
 181A1:13, 16; 4:5–6; 6:7–9, 12; 7:5–11; 8:5–9;
 9:5–7; 182A1:22; 4:8–9; 6:4–5, 8; 7:8–9; 12:6;
 183A7:5–6; 184A4:9–10; 7:8–9; 9:8–11;
 186A1:10; 4:18–19; 188A3:16; 189A3:12; 6:14–

- 15, 18; 7:11, 13, 15–16; 190A4:7; 6:6–7; 8:6–7;
191A4:11; 192A3:6–10; 194A5:4; 197A3:8–9;
198A3:13; 4:9–12; 5:11; 6:9–10; 199A11:9; 12:9;
201A7:8–9; 202A7:9; 8:7–9; 9:8–11; 11:6–10;
12:6–10; 205A4:21; 206A3:24–26; 207A4:5–8;
5:5–7; 6:5–8; 7:5–9; 8:5–8; 210A3:32
- lysocline, 135B53:847–849
- marker horizons, 169A4:163–165
- mottling, 149B17:339
- Neogene, 159A9:308
- occurrence, 130B26:446; 152A13:283
- Pacific Ocean E, 138B10:178, 183–185, 188–190
- photograph, 130A7:239; 8:307; 135A(1)10:506, 511;
145A5:132, 134; 6:223; 149A4:57; 5:126; 7:237;
152A11:200–201, 207; 159A5:79, 81; 6:164;
160A4:66, 68; 7:169, 171–172; 8:238; 10:350;
161A8:365; 161B7:86; 166A8:181; 167A(1)5:93;
169A4:165; 170A3:55; 7:226–227;
171B_A4:104–106; 5:184, 188; 6:254–255;
174A_A5:162; 175A13:395; 177A5:35, 55;
180A12:57; 180B9:21; 181A6:55; 7:64; 8:57;
182A6:53; 184A7:48; 186A4:81; 188A3:101–
102; 189A7:66; 190A5:44; 8:29; 197A3:53;
198A3:68; 4:46, 48; 201A7:41; 202A10:471;
11:41; 205A4:81; 206A3:125; 207A4:43; 6:47;
7:46; 210A3:159–160, 173
- sediments, 116B2:17–19, 23; 119B33:636–637, 639,
641; 130A9:389; 160B37:471; 183A8:5;
184A1:27
- Site 671, 110A4:80–81
- Site 698, 114A5:95, 97, 99, 102–103, 118; 114B6:127
- Site 699, 114A6:157, 159–163
- Site 700, 114A7:259–261, 266; 114B6:127
- Site 701, 114A8:371, 373
- Site 702, 114A9:490–491; 114B6:127
- Site 703, 114A10:557
- Site 704, 114A11:634, 636
- Site 764, 122B28:484
- Site 808, 131A6:88, 95
- Site 810, 132A4:82
- Site 840, 135B(1)12:179
- Site 844, 138A(1)9:125–127, 137
- Site 845, 138A(1)10:199, 209
- Site 846, 138A(1)11:281–285
- Site 847, 138A(1)12:344
- Site 850, 138A(2)15:817
- Site 851, 138A(2)16:902
- Site 852, 138A(2)17:975, 979
- Site 853, 138A(2)18:1029
- Site 854, 138A(2)19:1068
- structural domains, 156A6:114, 118–119
- Sulu Sea, 124A11:209
- tephra, 186B9:4
- vs. depth, 181A8:51
- See also* ichnofossils
- Zoophycos?*, lithology, 174A_A4:104, 111
- Zoophycos* ichnofacies
- lithology, 181A6:12; 9:6–8
- photograph, 181A8:57
- zooplankton
- concentration, 175B10:30
- productivity, 175B18:3–4, 11–12
- sterols, 175B5:5–6