

## INDEX TO VOLUME 157

This index covers both the *Initial Reports* and *Scientific Results* portions of Volume 157 of the *Proceedings of the Ocean Drilling Program*. References to page numbers in the *Initial Reports* are preceded by “A” with a colon (A:) and to those in the *Scientific Results* (this book) by “B” with a colon (B:).

The index was prepared by Earth Systems, under subcontract to the Ocean Drilling Program. The index contains two hierarchies of entries: (1) a main entry, defined as a keyword or concept followed by a reference to the page on which that word or concept appears, and (2) a subentry, defined as an elaboration on the main entry followed by a page reference.

The index covers volume text, figures, and tables but not core-description forms (“barrel sheets”), core photographs, smear-slide data, thin-section descriptions, or CD-only tables. Also excluded from the index are bibliographic references, names of individuals, and routine front and back matter.

The Subject Index follows a standard format. Geographic, geologic, and other terms are referenced only if they are subjects of discussion. A site chapter in the *Initial Reports* is considered the principal reference for that site and is indicated on the first line of the site’s listing in the index. Such a reference to Site 950, for example, is given as “Site 950, A:51–104.”

The Taxonomic Index is an index relating to significant findings and/or substantive discussions, not of species names *per se*. This index covers three varieties of information: (1) individual genera and species that have been erected or emended formally, (2) biostratigraphic zones, and (3) fossils depicted in illustrations. A taxonomic entry consisting of both genus and species is listed alphabetically by genus and also by species. Biostratigraphic zones are listed alphabetically by genus; zones with letter prefixes are listed under “zones.”

For further information, including available electronic formats, contact the Chief Production Editor, Ocean Drilling Program, 1000 Discovery Drive, College Station, Texas 77845-9547, U.S.A., e-mail: pub\_production@ODP.TAMU.EDU.

## VOLUME 157 SUBJECT INDEX

- absolute age  
 volcanism, A:16–17  
*See also* geochronology; radiometric age
- abyssal plains  
 geology, A:5–10  
*See also* Madeira Abyssal Plain
- accumulation rates  
 biostratigraphy, B:501–520  
 datum levels, A:134, 384–385, 430, 479, 543  
 Mogán interval, B:262  
 organic matter, B:364  
 pelagic interbeds, A:164–165, 172  
 sediments, A:131–132  
 seismic units, B:495  
 Site 950, A:87, 89; B:509–510  
 Site 951, B:510  
 Site 952, A:164–165; B:510, 513–514  
 Site 953, A:372  
 Site 954, A:422–424  
 Site 955, A:468  
 Site 956, A:533–534  
 turbidites, B:626–627  
*See also* sedimentation rates
- accumulation rates, pelagic, Cenozoic, A:131–132
- advanced piston corer, magnetization, B:47–56
- aegirine  
 chemical composition, B:250  
 clastic mineral phases, B:234–235  
 photomicrograph, A:357, 416
- aegirine crystals, photomicrograph, B:266
- age  
 islands, A:14; B:99–114  
 turbidites, B:620  
 vs. pelagic thickness, A:94, 134, 172
- age vs. depth  
 Gran Canaria, B:341  
 paleoclimatology, B:76  
 Site 950, A:94; B:509  
 Site 951, A:134; B:510, 512  
 Site 952, A:173; B:511, 513  
 Site 953, A:383; B:101, 104, 113–114, 122, 186, 339  
 Site 954, A:429; B:109, 113–114, 339  
 Site 955, A:478; B:111, 113–114  
 Site 956, A:542; B:112–114, 339
- Aguimes Formation, placers, B:169
- alginate, sediments, B:366
- alkali amphiboles  
 photomicrograph, A:357–358  
 stratigraphy, B:231
- alkali basalts, altered, photomicrograph, A:416
- alkali feldspars, photomicrograph, A:356, 457, 524
- alkalinity  
 interstitial waters, A:78, 123–124, 154–155, 355, 415, 457–458  
 volcanism, A:21–22  
 vs. depth, A:78, 125, 157, 365, 419, 460, 526; B:563
- alkan-2-ones, turbidites, B:593–595, 600–601
- alkanes. *See* cycloalkanes; *n*-alkanes
- alkanes, isoprenoid  
 turbidites, B:593  
*See also* isoprenoids
- alkenes  
 sediments, B:367  
 turbidites, B:593, 601
- alkylbenzenes, turbidites, B:593–595, 601, 604
- alkylcyclohexanes, sediments, B:367
- alkylindenanes, turbidites, B:593, 596–597
- alkylnaphthalenes, turbidites, B:593, 596–597, 604
- alkylphenols, turbidites, B:593, 596, 604
- alkylthiophenes, turbidites, B:593–596, 601–602, 604
- alteration  
 clinopyroxene, “placer sands,” B:149–150  
 diagenesis, B:573–580  
 geochemistry, A:24  
 organic matter, B:581–589  
 textures, B:429–439, 455–456  
 volcanoclastics, B:189–190  
*See also* diagenesis; hydrothermal activity; oxidation; reduction
- aluminum  
 vs. magnesium, B:167  
*See also* arsenic/aluminum ratio; chromium/aluminum ratio; cobalt/aluminum ratio; copper/aluminum ratio; iron/aluminum ratio; magnesium/aluminum ratio; manganese/aluminum ratio; nickel/aluminum ratio; potassium/aluminum ratio; scandium/aluminum ratio; selenium/aluminum ratio; silicon/aluminum ratio; sulfur/aluminum ratio; tin/aluminum ratio; titanium/aluminum ratio; vanadium/aluminum ratio; zinc/aluminum ratio; zirconium/aluminum ratio
- aluminum logs, vs. depth, A:474, 541
- aluminum oxide  
 vs. calcium oxide, B:150, 240–245  
 vs. depth, B:251, 565  
 vs. iron oxide, B:261–262  
 vs. magnesium number, B:380  
 vs. magnesium oxide, B:282–283, 384  
 vs. major oxides, B:165, 236–237, 239  
 vs. silica, A:362; B:192, 324  
 vs. zirconium, B:168, 171
- ammonia  
 interstitial waters, A:78, 124, 155, 355, 415, 457–458  
 vs. depth, A:460; B:630  
 vs. sulfate, A:9, 157; B:629
- amphibole crystals, composition, B:204
- amphiboles  
 chemical composition, B:238, 307, 455  
 clastic mineral phases, B:232  
 geochemistry, B:164–166, 316, 318  
 photograph, A:118  
 photomicrograph, A:356, 416  
 “placer sands,” B:149  
 sand fraction, B:302  
 volcanoclastics, B:189  
*See also* alkali amphiboles
- Anaga Massif, reflectors, B:27
- anorthoclase  
 ash-fall layers, B:202–205, 334  
 ignimbrites, B:230–231  
 photomicrograph, B:266, 289, 291  
 resorption, B:212  
 stratigraphic plot, B:234–235  
 stratigraphy, B:231
- anorthoclase phenocrysts, argon isotopes, B:132–133, 135–136, 138
- antimony, post-oxic conditions, B:567
- apatite, photograph, B:177
- apophyllite  
 alteration, B:150  
 hydrothermal alteration, B:436  
 Raman spectra, B:434
- aprongs  
 geochronology, B:329–341  
 volcanism, A:16–17, 19–22; B:97–114, 293–294, 443–469  
*See also* volcanism
- aprongs, clastic, drilling, A:11–25
- aprongs, volcanic  
 drilling, A:11–12; B:447–451, 453  
 evolution, B:141–181  
 formation microscanner logs, B:39–46  
 seismic reflection, B:3–9, 11–27
- argon isotopes  
 anorthoclase phenocrysts, B:132–133, 138  
 geochronology, B:127–129, 329–341  
 plagioclase phenocrysts, B:131
- argon-36/argon-40 ratio, vs. argon-39/argon-40 ratio, B:335–338
- argon-39/argon-40 ratio, vs. argon-36/argon-40 ratio, B:335–338
- arsenic, post-oxic conditions, B:569, 631
- arsenic/aluminum ratio, vs. depth, B:569
- ash bands, photograph, A:69–70
- ash flows, islands, A:14–15, 19–22; B:282–283, 285, 465–467
- ash-fall layers  
 correlation, B:262, 467  
 emplacement, B:201–218  
 geochemistry, B:315–328  
 geochronology, B:329–341  
 grain size, B:317–318  
 lithologic units, A:332  
 photograph, A:333, 405, 445, 510; B:290  
 Pleistocene, B:421–428  
 smear slides, A:333  
 thickness, B:273  
 turbidites, B:529–531  
 volcanoclastics, A:454, 456
- volcanism, A:17  
*See also* volcanic ash
- Atlantic Ocean, geology, A:5–10
- Atlantic Ocean N, paleoclimatology, B:76–77
- augite  
 photomicrograph, A:357, 416  
 volcanoclastics, A:414–415
- azimuth, vs. depth, B:46
- Azulejos Member, geochronology, B:131–133
- barium, vs. zirconium, A:363, 418; B:169, 171, 192, 363
- Barranco de Balos Formation, placers, B:169
- basalt breccia  
 photograph, B:180  
 volcanoclastics, B:163–165
- basalt clasts  
 alteration, B:150  
 lithologic units, A:406–407  
 major elements, B:155–156, 160  
 petrology, B:145  
 photograph, A:337, 511, 513; B:179  
 photomicrograph, A:416  
 volcanoclastics, A:454, 456
- basalt clasts, microlitic, photomicrograph, B:313
- basalt clasts, tachylitic, petrography, A:520–521

- basalts  
 ash-fall layers, B:202–205  
 geochronology, B:129  
 islands, A:14–15  
 lithologic units, A:68, 406–407  
 photograph, A:514  
 volcaniclastics, B:189  
 volcanism, B:141–181  
*See also* alkali basalts; breccia, basaltic; glass inclusions, basaltic; gravel, basaltic; hyaloclastites, basaltic; ignimbrite, rhyolite–basalt; lapilli-stone; lava flows; sandstone; tuff; volcaniclastics
- basalts, coeval  
 submarine emplacement, B:211–212  
 vs. depth in ash-fall layers, B:211
- basalts, holocrystalline, ash-fall layers, B:204–205
- basalts, microcrystalline, ash-fall layers, B:204
- basalts, plagioclase–phyric, photograph, A:67
- basalts, submarine, composition, B:451–453
- basalts, tachylitic  
 ash-fall layers, B:204  
 photomicrograph, A:524
- basalts, vesicular, glass, B:212
- basalts, vitric, ash-fall layers, B:204–205
- basanites, petrography, A:353–355
- basin infills  
 alteration, B:619–634  
 history, B:529–531
- basins, evolution, A:23–24
- bed thickness, vs. depth, B:483–485
- bioclasts  
 ash-fall layers, B:204–205  
 genesis, B:213–214  
 petrology, B:273  
 volcaniclastics, B:189  
 vs. depth in ash-fall layers, B:212
- biostratigraphic age, vs. sodium oxide+potassium oxide, B:325
- biostratigraphy  
 ash-fall layers, B:318  
 calcareous nannofossils, B:501–520  
 Cenozoic, A:70–75, 114, 118–121, 147–152, 341–347, 407–412, 449–453, 515–520; B:97–114  
 time scales, A:23–24
- biotite  
 photomicrograph, A:457  
 sand fraction, B:303  
 volcaniclastics, B:189
- biotite phenocrysts, photograph, A:447
- bioturbation  
 lithologic units, A:60–63, 443  
 photograph, A:64–65, 68, 117, 406, 447; B:175  
*See also* burrows; *Chondrites*
- black units, volcaniclastics, B:278
- boreholes, correlation with seismic reflection, B:473–498
- Bouma A, volcaniclastics, B:215–216
- breccia  
 age, B:334  
 geochemistry, B:155–156  
 geochronology, B:134, 137  
 lithologic units, B:156, 161  
 units per core vs. depth, A:403  
 volcanism, A:22  
*See also* basalt breccia
- breccia, basaltic, photomicrograph, A:416
- breccia, mud-clast  
 lithologic units, A:513–514  
 photograph, A:513
- breccia, volcanic  
 downhole measurements, B:41–42
- photograph, A:407  
 brecciation, photograph, B:312
- Brunhes Chron  
 magnetostratigraphy, A:520  
 sediments, A:75–76
- Brunhes/Matuyama boundary  
 magnetic polarity, B:57–69, 109  
 volcaniclastics, A:454
- burrows  
 photograph, A:64–65; B:312  
 sediments, B:564  
*See also* bioturbation; *Chondrites*
- cadmium, post-oxic conditions, B:567
- cadmium/thorium ratio, vs. depth, B:568
- calcarenite  
 lithologic units, A:65–66  
 photograph, A:67
- calcium  
 interstitial waters, A:78, 124–125, 155, 358, 418–419, 459, 523; B:630  
 sediments, B:155  
 vs. depth, A:365, 420, 460, 527  
*See also* magnesium/calcium ratio; manganese/calcium ratio; strontium/calcium ratio
- calcium carbonate  
 lithologic units, A:112–113  
 volcaniclastics, A:354–355  
 vs. manganese oxide, B:556
- calcium number logs, vs. depth, A:474, 541
- calcium oxide  
 vs. aluminum oxide, B:165, 236–237, 239  
 vs. cerium oxide, B:320  
 vs. lanthanum oxide, B:320  
 vs. magnesium oxide, B:282–283, 384  
 vs. major oxides, B:150, 240–245  
 vs. silica, A:362; B:192, 325  
 vs. zirconium, B:168, 171
- caliper logs  
 Site 950, A:54, 90, 96–100  
 vs. depth, A:177–178, 378–379, 473–474, 541
- Canary Basin, geology, A:5–10
- Canary Channel S, organic matter, B:361–372
- Canary Islands  
 drilling, A:11–25  
 volcanism, B:444–445, 464  
*See also* Fuerteventura; Gran Canaria; Tenerife
- capture cross section logs, vs. depth, A:90
- carbon  
 sediments, A:79–80, 126–127, 157, 358–359, 420  
 volcaniclastics, A:461, 523, 525
- carbon, elemental, cores, A:462, 528
- carbon, organic  
 carbonate content, B:577  
 cores, A:462, 528  
 diagenesis, B:574–576  
 mineral surface area, B:587  
 oxidation, B:569  
 sediments, A:159; B:363, 583–584, 600–604  
 vs. depth, B:565, 585  
 vs. mineral surface area, B:589  
 vs. nitrogen-15, B:578  
 vs. total nitrogen, B:586  
 vs. total sulfur, B:365
- carbon, organic/sulfur ratio, vs. depth, B:565
- carbon, total, organic, vs. depth, A:80, 126, 158, 173, 366, 461, 527, 545; B:364
- carbon/nitrogen ratio  
 diagenesis, B:574–576, 632  
 sediments, A:166; B:583  
 vs. carbonate content, B:577  
 vs. depth, A:160, 462; B:585
- carbon-13  
 diagenesis, B:575–576, 584–587, 632  
 vs. nitrogen-15, B:578, 586
- carbon dioxide  
 interstitial waters, A:419  
 mafic magmas, B:411–420  
 parental magmas, B:389–390  
 vs. water, B:417
- carbonate compensation depth  
 history, A:9; B:529–531, 587  
 lithologic units, A:113  
 preservation, B:122–123  
 turbidite infill, B:525–529  
 turbidites, A:7, 68–70; B:620–621, 623
- carbonate content  
 foraminifers, B:116  
 lithologic units, A:138, 143  
 mineral surface area, B:587, 632  
 percentage, B:576–577  
 sediments, B:363–365, 564–565  
 vs. age, B:623  
 vs. carbon/nitrogen ratio, B:577  
 vs. depth, A:9, 63, 67, 114, 147, 332, 372, 403, 426, 445, 508; B:364, 526, 528, 546–553, 565, 588, 623  
 vs. organic carbon, B:577  
 vs. total nitrogen, B:577
- carbonate index logs, vs. depth, A:90
- Cenozoic  
 biostratigraphy, B:97–114  
 deposition, A:113–114  
 sediments, A:68–70  
*See also* Neogene; Paleogene; specific epochs
- cerium  
 vs. depth, B:454  
 vs. zirconium, A:363, 418; B:192
- cerium oxide  
 vs. calcium oxide, B:320  
 vs. titanium oxide, B:320
- chalk, clayey, nannofossil  
 lithologic units, A:67–68, 333–334
- chalk, nannofossil  
 lithologic units, A:403, 405  
 photograph, A:405–406; B:312
- Charis Fracture Zone  
 geology, A:5–6  
 seismic units, B:495  
 turbidites, B:627
- chemical stratigraphy  
 glass shards, B:258–260  
 sideromelane, B:260  
 subaerial deposits, B:243–245, 256  
 turbidites, B:535–558  
 volcaniclastics, B:256, 258
- chevkinite  
 clastic mineral phases, B:239  
 inclusions, B:455
- chevkinite crystals, photomicrograph, B:266
- chloride, interstitial waters, A:77–78, 123, 154, 355–356, 417, 458, 523
- chlorine  
 inclusions, B:403–410  
 sideromelane, B:423, 425  
 vs. magnesium oxide, B:283, 406, 426  
 vs. phosphorus, B:407  
 vs. potassium oxide, B:283, 427  
 vs. sulfur, B:407
- chlorinity, vs. depth, A:365, 419, 460, 526
- chlorite, photomicrograph, A:358
- Chlorophyceae, kerogen, B:599
- Chondrites*  
 sediments, B:564  
*See also* bioturbation; burrows
- chromium

- vs. depth, B:454  
vs. zirconium, A:363, 418; B:169, 171
- chromium/aluminum ratio, vs. depth, B:554
- chromium number  
vs. forsterite, B:382  
vs. magnesium number, B:381
- chromium oxide, vs. calcium oxide, B:150, 240–245
- Chron C1n, magnetostratigraphy, A:520
- Chron C1r, sediments, A:121
- Chron C1r.1n  
sediments, A:75, 121  
volcaniclastics, A:349
- Chron C2An  
sediments, A:76, 122  
volcaniclastics, A:413
- Chron C2An.1, sediments, A:76
- Chron C2An.1r, volcaniclastics, A:413
- Chron C2n  
sediments, A:121  
volcaniclastics, A:349
- Chron C2n/C2An, magnetostratigraphy, A:520
- Chron C2r.1, sediments, A:75, 122
- Chron C2r, sediments, A:122
- Chron C3Ar, volcaniclastics, A:413
- Chron C3r, diachronism, B:122
- Chron C4An, volcaniclastics, A:413
- Chron C4r, volcaniclastics, A:413
- Chron C5n, volcaniclastics, A:413
- Chron C5n.1n, diachronism, B:121–122
- chronostratigraphy  
Miocene/Pliocene, B:127–140  
*See also* geochronology
- chrons  
ages and correlated core intervals, A:351  
magnetic polarity, A:75
- clastic sediments. *See* sediments, clastic
- clasts  
petrography, A:353–355  
petrology, B:145–148, 268, 270–273, 282–283  
photograph, A:336–339, 511, 513–514  
photomicrograph, A:457–458; B:313  
sediments, A:407  
vitroclasts, B:268, 270–271  
vs. depth, B:146–147, 304  
*See also* basalt clasts; bioclasts; breccia, mud-clast; ignimbrite clasts; lithoclasts; mud clasts; phonolite clasts; pumice clasts; sideromelane clasts; tachylite clasts; vitroclasts
- clasts, rip-up photograph, A:148, 514
- clasts, volcanic  
photograph, A:407  
photomicrograph, A:416
- clay, photograph, A:68–69, 148
- clay, nannofossil  
lithologic units, A:67–68, 108, 329–332, 445, 511–514  
photograph, A:69
- clay, red  
lithologic units, A:67  
photograph, A:68–69
- claystone, lithologic units, A:405
- claystone, nannofossil  
lithologic units, A:333–338, 447–448, 510  
photograph, A:514
- clinopyroxene  
alteration, B:150  
ash-fall layers, B:203–204  
chemical composition, B:246–249, 305–307, 380  
clastic mineral phases, B:234  
composition, B:150  
composition vs. P-T conditions of crystallization, B:389  
geochemistry, B:161–162, 394–395  
inclusions, B:375–401, 403–410, 416, 457  
mineral chemistry, B:379  
photograph, B:177  
photomicrograph, A:356; B:149, 199, 416, 457  
“placer sands,” B:149  
sand fraction, B:302  
volcaniclastics, A:520–521; B:187
- clinopyroxene crystals, composition, B:205
- clinopyroxene glomerocrysts, photomicrograph, B:148
- clinopyroxene phenocrysts  
photograph, B:178  
volcaniclastics, B:148–149, 455
- cluster analysis, paleoclimatology, B:75–82
- cobalt, post-oxic conditions, B:567–569
- cobalt/aluminum ratio, vs. depth, B:568
- Cobb Mountain Subchron, volcaniclastics, A:349
- color banding, photograph, A:337, 512
- comendite. *See also* ignimbrite, comendite; ignimbrite, comendite–pantellerite; ignimbrite, subalkalic–comenditic rhyolitic
- compaction, vs. depth, B:44–45
- compressional wave velocity  
sediments, A:127, 159–160, 165, 359, 362, 374, 463–464, 469, 527, 529, 537  
vs. depth, A:367
- Concepcion Bank, drilling, A:12–13
- concretions, lithologic units, A:507
- convolute bedding  
lithologic units, A:507  
photograph, A:446
- copper  
post-oxic conditions, B:567–569  
vs. zirconium, A:363, 418; B:192
- copper/aluminum ratio, vs. depth, B:568
- cores, depth correction, B:615
- coring  
magnetic polarity, B:57–69  
magnetization, B:47–56
- correlation  
ash-fall layers, B:203–204, 262, 452  
seismic profiles, B:480–482  
Sites 950 and 952, A:162
- Cretaceous, sediments, A:13
- cross bedding, photograph, B:177
- cross laminations, photograph, A:69–70, 334
- Cruiser Fracture Zone  
deposition, A:68–70; B:627  
geology, A:5–6  
seismic units, B:495
- Cruiser Seamount  
deposition, A:68–70  
turbidites, A:7  
*See also* Hyères/Cruiser/Great Meteor seamount chain
- Cruiser Turbidite, carbonate content, B:529–530, 627
- crust  
evolution, B:447  
*See also* lithosphere
- crust, oceanic, Mesozoic, A:13
- crystal inclusions, phenocrysts, B:379–381
- crystallization, parental magmas, B:388–389, 407–408, 416–417
- crystallization, post-entrapment, glass inclusions, B:382–384
- crystals, clasts, B:271–272
- currents, reflectors, B:26–27
- cyanobacteria, sediments, B:367
- cycloalkanes, sediments, B:367
- Dacia Seamount, basins, A:13
- datum levels, accumulation rates, A:93, 134, 171, 543; B:509, 510–511
- datum levels, diachronous, age vs. depth, B:121–122
- datum thickness, vs. age, B:511–512
- debris, volcaniclastics, B:193
- debris avalanches, volcaniclastics, B:278
- debris flows  
clasts, B:145, 148  
deposition, A:514–515  
felsic sediments, B:30–31  
landslides, B:174, 449  
lithology, B:173, 459–460  
photomicrograph, B:148, 181  
reflectors, B:23–26  
sediments, A:13, 22–23  
transport, B:165–166  
turbidites, A:7; B:529–531  
volcaniclastics, A:448–449; B:163–165  
vs. depth, A:147  
*See also* gravity flows; landslides
- debreites  
formation microscanner, B:35
- geochronology, B:133–134  
source areas, B:166–168
- deformation, vesicles, B:212–213
- degassing, magmas, B:407, 419–420
- demagnetization  
cores, B:49–50, 52  
remanent magnetization, A:76; B:51  
sediments, A:153–154; B:48–49
- Zijderveld diagrams, B:60–67
- demagnetization, alternating-field, Zijderveld diagrams, A:354
- dendrites, photograph, A:67
- density  
vs. depth, A:80, 82–86, 128, 160, 367–371, 373, 421–425, 463, 465–467, 528, 530–533; B:486
- vs. gamma rays, A:425, 466, 533
- vs. magnetic susceptibility, A:422, 425, 466, 533
- vs. magnetic susceptibility and velocity, A:423
- density, bulk  
sediments, A:126–127, 359, 527  
vs. depth, A:85–86, 89, 133, 164, 168–169, 373, 427, 467, 475, 536
- density correction logs, vs. depth, A:177–178
- density, dry, vs. depth, A:85–86
- density, grain, vs. depth, A:84–86, 133, 164, 373, 428, 467, 536
- density logs  
debrite, B:36  
Site 950, A:54, 99–100  
vs. depth, A:378, 473, 540  
*See also* gamma ray–density–porosity logs
- density, matrix, sediments, A:371
- density, matrix/grain, vs. depth, A:380
- deposition  
cycles of ash fall, B:213  
history, A:113–114, 339–341, 407, 448–449, 514–515; B:349–354, 624–628
- lithologic units, A:147
- sediments, A:407
- sequences, B:297
- turbidites, A:68–70  
volcaniclastics, B:260–261, 263
- depth maps, seismic facies, B:478–479, 484, 487–490
- diachronism, age vs. depth, B:121–122
- diagenesis  
alteration, B:150, 619–634
- geochemistry, A:24

- kerogen, B:591–607  
 mineral surface area, B:587  
 organic matter, B:581–589  
 oxidation, B:573–580  
 photograph, A:68  
 sediments, A:8–9; B:367  
 silica, B:630  
 turbidites, B:559–571  
 volcanism, A:16–17  
*See also* alteration; hydrothermal activity; oxidation; reduction
- diatoms, silica, B:609–612  
 Diego Hernandez Formation, lithology, B:320  
 dikes, islands, A:14–15  
 disconformities, biostratigraphy, B:513  
 dissolution, foraminifers, B:116  
 dolomite, lithologic units, A:402  
 downhole measurements  
     Gran Canaria, B:39–46  
     Site 950, A:81–87  
     Site 953, A:363, 365–372  
     Site 955, A:464–468  
     Site 956, A:530–533  
 drill moments, simulation of magnetic effects, B:53–54, 56  
 drilling, effect on magnetization, B:47–69
- East Canary Debris Flow, reflectors, B:25  
 East Canary Ridge, reflectors, B:27  
 edenite, stratigraphy, B:231  
 edenite phenocrysts, photomicrograph, B:218  
 El Tablero Formation, geochronology, B:134, 137  
 electrical conductivity, vs. depth, B:44–45  
 Eocene  
     biostratigraphy, B:505  
     turbidite infill, B:523–531  
 epiclastic deposits  
     geochronology, B:133–134  
     photomicrograph, B:217  
     subaerial deposits, B:268, 458  
 erosion  
     mass balance, A:7–8  
     reflectors, B:26–27  
     volcaniclastics, B:163, 305–307, 460–462  
 eruptions  
     islands, A:14–15; B:280–281, 459  
     magnitude, B:212  
     rate vs. age, A:15  
 eruptions, explosive, Miocene, A:20–21  
 eruptions, submarine, volcaniclastics, B:161, 163, 418  
 ethane  
     headspace samples, A:158  
     sediments, A:79, 156–157  
     volcaniclastics, A:459–461, 523  
*See also* methane/ethane ratio  
 Eustimatophyceae, kerogen, B:599  
 event stratigraphy, tephra, B:219–291  
 explosions, volcanism, B:214–215, 459
- Fataga Formation. *See* Lower Fataga Formation; Middle Fataga Formation; Upper Fataga Formation
- Fataga Group  
     deposition, A:514–515  
     evolution, B:103, 453  
     geochemistry, A:521, 523; B:306  
     geochronology, B:133–134, 140  
     islands, A:14–15  
     photomicrograph, A:356–357  
     sedimentation, A:468  
     sediments, A:414  
     volcaniclastic units, B:228–291  
     volcanism, A:17, 19–23, 340, 456–457
- wireline logs, B:29–37  
 fatty acids, sediments, B:367–368  
 fecal pellets, photograph, A:66  
 feldspar crystals  
     composition, B:204, 455  
     vs. depth in ash-fall layers, B:212  
 feldspars  
     ash-fall layers, B:203–204  
     chemical composition, B:233, 316, 318–319  
     clastic mineral phases, B:231–232  
     crystal-size distribution, B:206, 208, 210  
     photograph, A:118  
     photomicrograph, B:199, 289  
     sand fraction, B:303  
     volcaniclastics, B:187  
*See also* alkali feldspars; anorthoclase; basalts, plagioclase–phyric; oligoclase; plagioclase; sand, foraminifer–feldspar–quartz
- felsic particles, microcrystalline, significance, B:213
- felsic rocks  
     formation, B:260–261, 263  
     geochronology, B:129  
     lithologic units, A:66; B:268
- felsic sediments, potassium logs, B:30–31
- felsic tephra, composition, B:453
- fiamme, photograph, A:511
- flame structures, photograph, A:406
- flank collapse, volcaniclastics, B:163–165, 459–460
- fluid inclusions  
     hydrothermal activity, B:429–439  
     olivine, B:381  
     phenocrysts, B:381
- fluids, parental magmas, B:389–390
- fluorine  
     inclusions, B:403–410  
     phosphorus, B:407  
     sideromelane, B:425–426  
     vs. aluminum oxide, B:236–237, 239  
     vs. magnesium oxide, B:283, 406, 426  
     vs. potassium oxide, B:283, 409, 437  
     vs. silica, B:409
- folds, photograph, A:406, 512
- foraminifer zones  
     abundance and preservation, A:74; B:97–114  
     vs. depth, A:71, 119, 149, 152
- foraminifers  
     ash-fall layers, B:205  
     preservation, A:121; B:116  
     zonation, A:348–349, 408, 412, 450, 452, 517–518  
*See also* sand, foraminifer; silt
- foraminifers, benthic  
     depth zones, B:298–299  
     turbidity currents, B:307–309
- foraminifers, planktonic  
     biostratigraphy, A:73–75, 118, 121, 151–152, 346–347, 409, 411–412, 450, 453, 519–520; B:115–124  
     first and last occurrences, B:105  
     paleoceanography, B:73–82  
     photograph, B:178, 291  
     preservation, B:122–123  
     vs. depth, B:78, 82
- foraminifers, vs. depth, B:308
- formation microscanner logs  
     debrite, B:35  
     microresistivity, A:476  
     sediments, A:86–87  
     volcanic aprons, B:39–46  
     vs. depth, A:92; B:44–45
- forsterite  
     vs. chromium number, B:382  
     vs. iron ratio, B:382
- fragmentation, volcaniclastics, B:161, 163–165
- Fuerteventura  
     basins, A:13; B:461  
     reflectors, B:26–27  
     sandstone, B:168–169
- gamma ray–density–porosity logs  
     Site 950, A:99–100  
     Site 953, A:391–394  
     vs. depth, A:486–489, 549–551
- gamma ray–resistivity–sonic logs  
     Site 950, A:96–98  
     Site 953, A:388–390  
     vs. depth, A:482–485, 547–548
- gamma rays  
     sediments, A:359, 527  
     vs. density, A:425, 466, 533  
     vs. depth, A:367, 424–425, 464–466, 529–533  
     vs. magnetic susceptibility, A:422, 425, 466, 533  
     vs. velocity, A:422, 466, 533
- gamma-ray logs  
     debit, B:36  
     vs. depth, A:88, 96–102, 167, 169, 175–178, 377, 472, 490–493, 539, 552–554
- Gauss Chron  
     paleoclimatology, B:77  
     sediments, A:75–76, 122, 153  
     volcaniclastics, A:413
- geochemical logs  
     felsic sediments, B:30–31  
     vs. depth, A:90, 103–104, 377, 472, 494–496, 539, 555–557  
*See also* potassium logs; thorium logs; uranium logs
- geochemistry  
     ash-fall layers, B:315–328  
     organic matter, B:361–372  
     pore water, B:628–632  
     sediments, B:150–157  
     sideromelane, B:421–428  
     volcaniclastics, A:354–355, 414–415, 456–457, 521, 523
- geochemistry, inorganic  
     Madeira Abyssal Plain, B:630–631  
     Site 950, A:77–78  
     Site 951, A:123–125  
     Site 952, A:154–156  
     Site 953, A:355–358  
     Site 954, A:415, 417–419  
     Site 955, A:457–459  
     Site 956, A:523
- geochemistry, organic  
     Madeira Abyssal Plain, B:631–632  
     Site 950, A:78–80  
     Site 951, A:125–126  
     Site 952, A:156–157  
     Site 953, A:358–359  
     Site 954, A:419–420  
     Site 955, A:459–461  
     Site 956, A:523, 525
- geochronology  
     abyssal plains, A:7  
     islands, A:14  
     Pleistocene, B:329–341  
     volcanism, B:127–140  
*See also* absolute age; chronostratigraphy; radiometric age
- geology, islands, A:14–15
- glaciation  
     carbonate compensation depth, B:525–529  
     lithologic units, A:113–114

glass, vitrophyre, chemical composition, B:241–243, 254, 256  
 glass fragments, photomicrograph, B:218  
 glass inclusions  
   geochemistry, B:381–384, 403–410  
   photomicrograph, B:414  
   *See also* melt inclusions  
 glass inclusions, basaltic, infrared spectra, B:415–416  
 glass rim, vesicular, photomicrograph, B:218  
 glass shards  
   ash-fall layers, B:318, 320  
   chemical stratigraphy, B:257–260  
   classification, B:426  
   clasts, B:268, 270–273  
   geochemistry, B:175, 326–328  
   lithologic units, A:112, 443, 448  
   petrography, A:520–521  
   photograph, A:67, 118, 445; B:178  
   photomicrograph, A:458, 524  
   sand fraction, B:303  
   *See also* basalts, vitric; volcanic glass  
 glass shards, deformed, significance, B:212–213  
 glass shards, felsic  
   chemical composition, B:240–243, 255  
   geochemistry, B:421–428  
 glass shards, pantelleritic, photomicrograph, B:265, 289  
 glass shards, rhyolitic, photomicrograph, B:266, 287  
 glauconite  
   photograph, A:118, 149  
   sediments, B:350–352  
 glomerocrysts. *See* clinopyroxene glomerocrysts  
 gmelinite, hydrothermal alteration, B:436  
 grain size  
   sediments, B:357–358  
   volcaniclastics, B:297, 300–302  
**Gran Canaria**  
   alteration, B:429–439  
   ash-fall layers, B:201–218, 315–328  
   biostratigraphy, B:83–124  
   chronostratigraphy, B:127–140, 329–341  
   deposition, A:514–515  
   drilling, A:11–25  
   evolution, B:445, 448–450, 456–459, 466–467  
   formation microscanner logs, B:39–46  
   inclusions, B:375–401, 403–410  
   magnetization, B:57–69  
   magnetostratigraphy, B:97–114  
   map smear slides and thin sections, A:305–313  
   organic matter, B:361–372  
   paleoceanography, B:73–82  
   seismic reflection, B:11–27  
   volatiles, B:411–420  
   volcaniclastics, B:29–37  
   volcanism, B:141–181, 443–469  
   *See also* Canary Islands  
 gravel, basaltic, petrography, A:520–521  
 gravity flows  
   deposition, A:339–341  
   sedimentation, B:184  
   ternary diagrams, B:190  
   thickness, B:186  
   thickness vs. depth, B:186  
   volcaniclastics, B:193–194  
   *See also* debris flows  
**Great Meteor Seamount**  
   deposition, A:68–70  
   turbidites, A:7  
   *See also* Hyères/Cruiser/Great Meteor  
   seamount chain  
**Guajara Formation**, lithology, B:320  
**Guigui Formation**, geochronology, B:137

hastingsite, sand fraction, B:302  
 hauyne  
   geochemistry, B:316, 318  
   geochronology, B:134, 137  
   photomicrograph, A:416  
 heavy minerals  
   exotic sandstone, B:168–169  
   photograph, B:177  
 hexacosenoic acid, sediments, B:368  
 hiatuses  
   deposition, A:514–515  
   islands, A:14–15; B:98–114, 349–354  
   lithologic units, A:406  
   Miocene, A:21–22; B:529–531  
   Miocene/Pliocene boundary, B:293–313  
   timing, B:114  
   volcaniclastics, A:454, 456  
   *See also* disconformities; unconformities  
**Hierro**, basins, A:13  
**Hogarzales Basin**  
   drilling, A:13  
   sandstone, B:169  
**Hogarzales Formation**  
   argon isotopes, B:131  
   geochronology, B:137  
 hopanes, sediments, B:367  
 hyaloclastites  
   alteration, B:150  
   chemical stratigraphy, B:260  
   deposition, A:339–341, 514–515; B:279–282  
   geochemistry, B:155–156, 416  
   lithologic units, A:513–514  
   magmas, B:419–420  
   petrography, A:353–355  
   photograph, A:338–340  
   photomicrograph, B:200, 291  
   reflectors, B:23, 25  
   source areas, B:166–168  
   *See also* tuff  
 hyaloclastites, basaltic, inclusions, B:403–410, 416  
 hyaloclastites, submarine shield stage, inclusions, B:375–401  
 hydrocarbons  
   pyrolysis, B:365–366  
   sediments, A:358  
   *See also* ethane; hopanes; methane  
 hydrocarbons, nonaromatic  
   chromatograms, B:372  
   sediments, B:369  
 hydrocarbons, volatile  
   sediments, A:79, 125–126, 156–157, 420  
   volcaniclastics, A:459–461, 523  
 hydrogen index  
   hydrocarbons, B:366  
   sediments, A:166  
   vs. oxygen index, A:173, 545; B:365  
 hydrothermal activity  
   alteration, B:429–439  
   evidence, B:433, 435  
   fluid inclusions, B:429–439  
   timing, B:435  
   *See also* alteration; diagenesis; oxidation; reduction  
 hydrothermal alteration, volcanism, A:16–17  
 hydrothermal circulation, fluid inclusions, B:433  
 hydrothermal solutions  
   composition, B:436  
   mineral precipitation, B:436  
**Hyères/Cruiser/Great Meteor seamount chain**, turbidite sources, B:624–628  
**Hyères seamount chain**, turbidites, A:7  
 igneous particles, ash-fall layers, B:204–205  
 ignimbrite  
   geochronology, B:127–129  
   mineralogy, B:230–231  
   Miocene, A:20–21; B:457–458  
   units, A:340; B:268, 282  
   volcaniclastics, A:454, 456  
 ignimbrite, comendite, geochronology, B:131  
 ignimbrite, comendite–pantellerite, geochronology, B:131  
 ignimbrite, comendite–trachyte, geochronology, B:131  
 ignimbrite, high-grade, ash-fall layers, B:201–218  
 ignimbrite, pantellerite–trachyte, geochronology, B:131  
 ignimbrite, rhyolite–basalt, geochronology, B:129  
 ignimbrite, subalkalic rhyolite, geochronology, B:129  
 ignimbrite, subalkalic–comenditic rhyolitic, geochronology, B:129, 131  
 ignimbrite, trachyphonolitic, geochronology, B:133–134  
 ignimbrite, trachyte, geochronology, B:131  
 ignimbrite, welded, photograph, A:511  
 ignimbrite A, photograph, A:447  
 ignimbrite clasts, photomicrograph, B:313  
 ignimbrite–lava flow, comendite–trachyte, geochronology, B:131  
 inclusions  
   phenocrysts, B:375–401, 403–410  
   photomicrograph, B:414  
   *See also* crystal inclusions; fluid inclusions; glass inclusions; melt inclusions  
 index properties, sediments, A:81, 129–130, 132, 158–159, 165, 362, 373, 421–422, 428, 463, 468, 527, 529, 536  
 inertinite, sediments, B:366–367  
 interstitial water. *See* pore water  
 intraplate volcanism. *See* volcanism, intraplate iron  
   inclusions, B:381  
   oxic conditions, B:565–567  
 iron/aluminum ratio, vs. depth, B:554, 567  
 iron/sulfur ratio, vs. depth, B:567  
 iron index logs, vs. depth, A:90  
 iron oxide  
   vs. aluminum oxide, B:261–262  
   vs. calcium oxide, B:150, 240–245  
   vs. depth, B:567  
   vs. magnesium oxide, B:282–283, 384  
   vs. silica, A:362; B:192, 324  
   vs. titanium oxide, B:259–260, 320  
   vs. zirconium, B:168, 171  
 iron ratio, vs. forsterite, B:382  
 iron–titanium oxides  
   clastic mineral phases, B:237  
   inclusions, B:379  
   scanning electron microscope image of shard, B:194  
   volcaniclastics, B:189  
 islands  
   drilling, A:11–25  
   volcanic aprons, B:463  
   *See also* ocean islands; volcanic islands  
 islands, submarine, seismic structure, B:20–21  
 isopach maps, seismic facies, B:478–479, 484, 491–494  
 isoprenoids  
   turbidites, B:593–594, 597–604  
   *See also* alkanes, isoprenoid  
**Jaramillo Subchron**  
   sediments, A:75–76, 121, 153  
   volcaniclastics, A:349

- Kaena Subchron  
 sediments, A:75–76, 153  
 volcaniclastics, A:413
- kaersutite  
 clastic mineral phases, B:232  
 sand fraction, B:302
- kerogen  
 diagenesis, B:591–607  
 pyrolysis, B:365–366  
*See also* alkan-2-ones; alkanes, isoprenoid; alkenes; alkylbenzenes; alkylcyclohexanes; alkylindenones; alkylnaphthalenes; alkylphenols; alkylthiophenes; fatty acids; isoprenoids; lipids; *n*-alk-1-enes; *n*-alkanes; phenols; thiophenes
- Kilauea, glass inclusions, B:415–416
- King diagram, remanent magnetization, A:121–122
- La Calderilla Formation, geochronology, B:137
- La Gomera  
 sandstone, B:168–169  
 source area, B:278–279
- La Palma, basins, A:13
- laminations  
 lithologic units, A:108  
 photograph, A:117, 337, 404–405  
 volcaniclastics, B:43–44
- landslides, debris flows, B:174
- lanthanum, vs. zirconium, B:192
- lanthanum oxide, vs. calcium oxide, B:320
- lapilli  
 photograph, A:509–510  
*See also* pumice lapilli
- lapilli clasts, petrology, B:145
- lapillistone  
 age, B:334, 457  
 geochemistry, B:155–156  
 lithologic units, A:333–339, 402, 509–514; B:156, 161  
 lithostratigraphy, B:43  
 petrography, A:353–355  
 photograph, A:335, 404–405, 511, 514; B:176  
 photomicrograph, A:357, 416; B:148, 179–181  
 volcaniclastics, A:414–415  
 volcanism, A:22  
 welded glass, B:273
- lapillistone, basaltic  
 petrography, A:520–521  
 photomicrograph, A:524
- lapillos, photomicrograph, B:148–149
- Las Cañadas caldera wall  
 ash-fall layers, B:315–328, 458–459  
 lithology, B:320
- Las Palmas Formation, geochronology, B:134, 136
- laumontite, alteration, B:150
- lava  
 geochronology, B:127–129  
 islands, A:14–15  
 shield volcanoes, A:13
- lava deltas, volcaniclastics, B:163
- lava flows  
 geochronology, B:133–134, 137  
 volcaniclastics, B:163, 268, 278  
*See also* basalts; ignimbrite
- lava flows, basaltic, geochronology, B:131
- lava fragments, felsic, petrology, B:273
- lava, subalkalic rhyolite, geochronology, B:129
- lava, trachypholitic, photomicrograph, A:457
- lignite, turbidites, B:584–587
- lipids  
 diagenesis, B:593
- sediments, B:368  
 liptinite, sediments, B:367
- lithium  
 interstitial waters, A:356–358, 417  
 vs. depth, A:365, 419
- lithoclasts, petrology, B:272–273
- lithofacies, petrology, B:450
- lithologic units  
 Site 950, A:55, 59–70  
 Site 951, A:108, 112–113  
 Site 953, A:329–341  
 Site 954, A:398, 402–407  
 Site 955, A:437, 443–448  
 Site 956, A:501, 507–514  
 thickness, B:274  
 Unit I, A:55, 59–65, 108, 112–113, 138, 143, 147, 329–332, 398, 402, 437, 443–444, 501, 507–508  
 Unit II, A:65–66, 332, 402, 444–445, 508–511  
 Unit III, A:66–68, 332, 402–405, 445, 511–512  
 Unit IV, A:68–70, 332–336, 406–407, 445, 447–448, 512–513  
 Unit V, A:336–338, 448, 513–515; B:156, 456–457  
 Unit VI, A:338; B:156  
 Unit VII, A:338–339; B:156
- lithology  
 downhole measurements, B:40–42  
 seismic structure, B:11–27  
 seismic units, B:476–478  
 synthetic seismograms, B:5  
 vs. depth, B:98, 110
- lithology-log units, sediments, A:83–84, 161–162
- lithosphere  
 volcanism, A:17; B:450–451  
*See also* crust; mantle
- lithostratigraphy  
 ash-fall layers, B:203–211, 271, 448  
 seismic profiles, A:386  
 Site 950, A:55, 59–70  
 Site 951, A:108, 112–114  
 Site 952, A:138, 143–147  
 Site 953, A:320, 329–341; B:156  
 Site 954, A:397–398, 402–407; B:161  
 Site 955, A:437, 443–449  
 Site 956, A:501, 507–515; B:161  
 tephra, B:219–291  
 turbidites, B:624–628  
 volcaniclastics, B:43–44
- Llanos de la Paz Formation, geochronology, B:137
- load casts  
 photograph, B:312  
 sedimentation, B:304–305
- Los Listos Formation, geochronology, B:137
- Lower Fataga Formation, geochronology, B:133–134, 136
- Lower Mogán Formation  
 geochronology, B:129, 131, 137  
 volcaniclastic units, B:226–227
- Madeira Abyssal Plain  
 biostratigraphy, B:501–520  
 chemostratigraphy, B:535–558  
 deposition, A:68–70, 340  
 diagenesis, B:573–580  
 geology, A:5–10  
 organic matter, B:581–589, 591–607  
 oxidation fronts, B:559–571  
 post-cruise correction of core depths, B:615  
 sedimentation, B:523–531  
 seismic facies, B:473–498  
 silica, B:609–612  
 turbidites, B:619–634
- mafie magmas. *See* magmas, mafic
- magma density, vs. pressure, B:418
- magmas  
 degassing, B:407, 427  
 volcanism, A:16; B:321, 462
- magmas, mafic, water and carbon dioxide, B:411–420
- magmas, parental  
 composition, B:407–408, 416–418  
 melt inclusions, B:387–390
- magnesium  
 interstitial waters, A:78, 124–125, 155, 358, 418–419, 459, 523; B:630  
 vs. aluminum, B:167  
 vs. depth, A:79, 125, 157, 365, 420, 527
- magnesium/aluminum ratio, vs. depth, B:555
- magnesium/calcium ratio  
 sediments, A:8–9  
 vs. depth, A:9, 79, 125, 157, 365, 420, 460, 527
- magnesium number  
 vs. aluminum oxide, B:380  
 vs. chromium number, B:381–382  
 vs. titanium oxide, B:380–381
- magnesium oxide  
 volcaniclastics, A:354–355  
 vs. calcium oxide, B:150, 240–245  
 vs. chlorine, B:283, 406, 426  
 vs. fluorine, B:283, 406, 426  
 vs. major oxides, B:282–283, 384–385  
 vs. phosphorus, B:406  
 vs. phosphorus oxide/titanium oxide ratio, B:385  
 vs. potassium oxide/titanium oxide ratio, B:385  
 vs. silica, A:362; B:192, 324  
 vs. sulfur, B:283, 406, 426  
 vs. water, B:387  
 vs. zirconium, B:168, 171
- magnetic declination, vs. depth, A:153; B:48
- magnetic domains  
 mineral grains, B:58  
 vs. paleointensity, B:59–60
- magnetic field logs, debrite, B:36
- magnetic fields  
 Matuyama/Brunhes transition, B:60–67  
 measurement, B:50–51  
*See also* paleofield; paleointensity; virtual geomagnetic poles
- magnetic inclination, vs. depth, A:75, 122; 153, 350, 413, 455, 522; B:48
- magnetic intensity  
 vs. depth, A:76, 122, 154, 352, 414, 455, 521  
 vs. magnetic susceptibility, A:154
- magnetic polarity  
 chron ages and correlated core intervals, A:351  
 chron ages and correlated cores, A:414  
 chrons, A:75, 122  
 marine sediments, B:57–69
- magnetic susceptibility  
 sediments, A:126, 359, 525, 527  
 vs. anhysteretic remanent magnetization, A:122, 456; B:59  
 vs. depth, A:76, 81–83, 122, 128, 131, 154, 161–163, 367–371, 421, 423–425, 464–466, 528, 530–533  
 vs. gamma rays, A:422, 466, 533  
 vs. magnetic intensity, A:154  
 vs. remanent magnetization, A:353  
 vs. velocity, A:466, 533  
 vs. velocity and density, A:422–423
- magnetization, coring-induced, advanced piston corer, B:47–56

- magnetization, radial, cores, B:50  
 magnetostratigraphy  
   Cenozoic, A:454, 520; B:97–114  
   Miocene, A:152–153  
   sediments, A:121–122  
 major elements  
   basalt clasts, B:155–156, 160  
   glass inclusions, B:381–385, 396–401,  
     404–405  
   sideromelane, B:423–425  
   turbidites, B:561, 577, 580  
   volcaniclastics, A:354–355, 417, 458; B:148,  
     151–155, 191–192, 252–253  
   welded ignimbrite, A:525  
   whole-rock samples, A:360–361  
 manganese, oxic conditions, B:565–567  
 manganese/aluminum ratio, vs. depth, B:556  
 manganese/calcium ratio, vs. depth, B:556  
 manganese oxide  
   vs. calcium carbonate, B:556  
   vs. calcium oxide, B:150, 240–245  
   vs. depth, B:556  
 mantle, evolution, B:447  
 mantle sources  
   volcanism, A:16  
   water, B:418–419  
 mass accumulation rate. *See* accumulation rates  
 mass balance, erosion, A:7–8  
 mass wasting, reflectors, B:23–26  
 maturity, sediments, A:166; B:369  
 maturity index, vs. depth, A:173  
 Matuyama Chron  
   sediments, A:75–76, 122, 153  
   volcaniclastics, A:454  
   *See also* Brunhes/Matuyama boundary  
 melt inclusions  
   phenocrysts, B:381–382, 384, 454  
   photomicrograph, B:148, 265, 289  
   *See also* glass inclusions  
 Mesa de Junquillo Formation, geochronology,  
   B:137  
 Mesozoic. *See* Cretaceous  
 metals, lithologic units, A:108  
 methane  
   headspace samples, A:158  
   interstitial waters, A:458  
   sediments, A:79, 156–157, 358, 420  
   volcaniclastics, A:459–461, 523  
   vs. depth, A:9, 80, 126, 157, 365, 461;  
     B:629–630  
 methane/ethane ratio, vs. depth, A:158, 461  
 micas  
   geochemistry, B:167, 170  
   *See also* biotite  
 microconductivity, downhole measurements,  
   B:39–46  
 microcrystalline particles, formation, B:213  
 microfaults  
   lithologic units, A:443–444  
   photograph, A:446, 512  
 microfossils, lithologic units, A:138, 147  
 microlites  
   photograph, B:179  
   photomicrograph, B:199, 291  
   volcaniclastics, B:189  
 microresistivity, formation microscanner, A:476  
 microthermometry, fluid inclusions, B:378, 432  
 Middle Fataga Formation, geochronology, B:134,  
   136, 138  
 Middle Mogàn Formation  
   geochronology, B:131  
   volcaniclastic units, B:227  
 Miliolina, turbidity currents, B:307–309  
 mineral chemistry  
   clinopyroxene, B:379  
   olivine, B:378–379  
   mineral precipitation, hydrothermal solutions,  
     B:436  
   mineral surface area  
     carbonate content, B:588  
     vs. organic carbon, B:589  
   mineralogy  
     clastic sediments, B:298, 302–304  
     sediments, A:77, 124, 156, 351, 353–354  
     volcaniclastics, A:414–415, 454, 456,  
       520–521; B:230–239  
 Miocene  
   biostratigraphy, A:73, 121, 151; B:503–505,  
     507–508  
   calcareous nannofossils, A:346, 449–450,  
     517–519; B:87–96  
   chemostratigraphy, B:535–558  
   deposition, A:339–340; B:449–450  
   foraminifers, A:411–412  
   geochronology, B:129–140  
   hiatuses, B:529–531  
   isopach maps, B:493–494  
   lithologic units, A:138, 143, 147, 333–339,  
     406–407, 445–448, 512–514  
   nannofossils, A:409, 411  
   planktonic foraminifers, A:347, 453, 519–520  
   rhyolites, A:20–21  
   sedimentation, B:343–360  
   sediments, A:68–70; B:350–353  
   turbidite infill, B:523–531, 631  
   volcaniclastics, B:229–230, 457  
   *See also* Miocene/Pliocene boundary  
 Miocene, upper, epiclastic sedimentation,  
   B:293–313  
 Miocene/Pliocene boundary  
   biostratigraphy, A:149; B:120–121  
   chronostratigraphy, B:127–140  
   volcaniclastics, A:448–449  
 mixing, felsic and basaltic shards, B:281–282  
 mobilization, trace elements, B:569  
 modal data  
   volcaniclastics, B:188–191  
   vs. depth, B:191  
 Mogàn Formation  
   geochronology, B:129, 131  
   *See also* Lower Mogàn Formation; Middle  
     Mogàn Formation; Upper Mogàn  
     Formation  
 Mogàn Group  
   ash-fall layers, B:202–205  
   evolution, B:103, 306  
   geochronology, B:129–133  
   magnetism, A:350  
   Miocene, A:21–23  
   petrography, A:521  
   photomicrograph, A:357–358  
   sediments, A:414  
   volcaniclastic units, B:226–291  
   volcaniclastics, A:448–449, 456–457  
   wireline logs, B:29–37  
 Montaña Horne Formation, geochronology,  
   B:131–133, 140  
 mottling  
   lithologic units, A:444–445  
   photograph, A:68  
 mud, lithologic units, A:60–63  
 mud clasts, lithologic units, A:444  
 mud, nannofossil, azimuth, B:46  
 n-alk-1-enes, turbidites, B:593–594, 603–604  
 n-alkanes  
   sediments, B:366–368  
   turbidites, B:585, 593–594, 597–604  
 nannofossil zones  
   abundance and preservation, A:72; B:97–114  
   vs. depth, A:71, 119, 149–150  
 nannofossils  
   matrix, B:273  
   preservation, A:120  
   zonation, A:408, 410, 450–452, 516, 518  
   *See also* chalk, clayey, nannofossil; chalk,  
     nannofossil; clay, nannofossil;  
     claystone, nannofossil; ooze;  
     sediments, nannofossil  
 nannofossils, calcareous  
   biostratigraphy, A:71, 73, 114, 118, 149–151,  
     341–346, 409–411, 449–453, 515–519;  
     B:83–96, 501–520  
   first and last occurrences, B:106–107  
 natrolite, hydrothermal alteration, B:436  
 Neogene  
   geology, A:5–10  
   organic matter, B:361–372  
   paleoceanography, B:73–82  
   turbidites, B:619–634  
 neutron capture logs, vs. depth, A:474, 541  
 nickel  
   post-oxic conditions, B:567–569  
   vs. zirconium, A:363, 418; B:169, 171, 192  
 nickel/aluminum ratio, vs. depth, B:568  
 niobium  
   vs. zirconium, A:363, 418; B:169, 171, 192  
   *See also* zirconium/niobium ratio  
 nitrogen  
   sediments, A:79–80, 157–158, 358–359, 420  
   Site 951, A:126  
   volcaniclastics, A:461, 523, 525  
   vs. depth, A:80, 126, 158, 366, 461, 527  
   *See also* carbon/nitrogen ratio  
 nitrogen, total  
   diagenesis, B:574–576  
   vs. carbonate content, B:577  
   vs. depth, B:585  
   vs. nitrogen-15, B:578  
   vs. organic carbon, B:586  
 nitrogen-15  
   diagenesis, B:575–576, 584–587, 632  
   sediments, B:583  
   vs. carbon-13, B:578, 586  
   vs. organic carbon, B:578  
   vs. total nitrogen, B:578  
 ocean islands, drilling, A:11–25  
 Olduvai Subchron  
   sediments, A:75–76, 121, 153  
   volcaniclastics, A:349  
 Oligocene  
   biostratigraphy, B:505  
   turbidite infill, B:523–531  
 oligoclase, resorption, B:212  
 olivine phenocrysts  
   photomicrograph, B:149, 313  
   volcaniclastics, B:148–149, 455  
 olivine pseudomorphs, petrography, A:521  
 olivines  
   alteration, B:150  
   composition vs. P-T conditions of  
     crystallization, B:389  
   geochemistry, B:163, 316, 318, 394–395  
   inclusions, B:375–401, 403–410  
   lithologic units, A:406–407  
   mineral chemistry, B:378–379  
   petrography, A:355  
   photomicrograph, A:358, 416; B:291  
   *See also* forsterite  
 ooze, photograph, A:117  
 ooze, clayey nannofossil, lithologic units, A:63,

108  
 ooze, nannofossil  
   lithologic units, A:108, 112, 138, 143, 507  
   lithology, B:173, 464  
   photograph, A:333, 405  
 ooze, nannofossil clayey, lithologic units, A:329–333  
 organic carbon. *See* carbon, organic  
 organic matter  
   geochemistry, A:24; B:361–372, 628–630  
   loading, B:587  
   Neogene, B:361–372  
   origin, A:166  
   oxidation, B:569, 581–589, 591–607  
   postdepositional oxidation, B:601–604  
   pyrolysis, A:165–166  
   quality, B:365–366  
   Rock-Eval pyrolysis, A:534–535  
   sediments, A:8; B:577  
*See also* inertinite; kerogen; lignin; liptinite;  
   pyrolysates; pyrroles; steranes;  
   sterenes; stereoisomers; sterols;  
   triterpanes; triterpenes; triterpenoids;  
   vitrinite  
 orthopyroxene  
   chemical composition, B:249–250  
   clastic mineral phases, B:234  
 oxidation  
   diagenesis, B:573–580  
   intervals, B:576  
   sediments, A:68–70  
*See also* alteration; diagenesis; hydrothermal  
   activity; reduction  
 oxidation fronts  
   organic matter, B:581–589, 591–607, 630–632  
   photograph, A:64–65  
   turbidites, B:559–571  
*See also* redox  
 oxygen fugacity, sulfur speciation, B:408–409  
 oxygen index  
   sediments, A:166  
   vs. hydrogen index, A:173, 545; B:365  
 P1 layer  
   ash-fall layers, B:202–205, 211–213, 275  
   genesis, B:213–214  
   photomicrograph, B:217  
   volcaniclastics, B:215–216  
 paleobathymetry, volcanism, A:17  
 paleoceanography  
   carbonate compensation depth, B:122–123  
   Neogene, B:73–82  
   volcanism, A:16–17; B:460–462  
 paleoenvironment, volcanism, A:17  
 paleofield  
   Matuyama/Brunhes transition, B:60–67  
*See also* magnetic fields  
 Paleogene, sediments, A:13  
 paleointensity  
   vs. magnetic domains, B:59–60  
*See also* magnetic fields  
 paleomagnetism  
   Site 950, A:75–77  
   Site 951, A:121–123  
   Site 952, A:152–154  
   Site 953, A:347, 349–351  
   Site 954, A:412–414  
   Site 955, A:453–454  
   Site 956, A:520  
   time scales, A:23–24  
 palmitic acid, sediments, B:368

pantellerite. *See* glass shards, pantelleritic;  
   ignimbrite, comedite–pantellerite;  
   ignimbrite, pantellerite–trachyte  
 paragenesis, fluid inclusions, B:432  
 paragelite, sand fraction, B:302  
 partial melting, lava, A:13  
 particles, morphology, B:191, 193  
 pelagic interbeds  
   accumulation rates, A:87, 164–165  
   lithologic units, A:63–64, 108, 112–113  
   photograph, A:117  
   thickness vs. age, A:94, 134, 172  
   volcaniclastics, B:191  
   vs. depth, A:63, 114, 147  
 petrography  
   fluid inclusions, B:432  
   sand fraction, B:297–298  
   sediments, B:359–360  
   volcaniclastics, A:351, 353–355, 414–415,  
     454, 456, 520–521; B:185–191, 347  
 petroleum potential  
   sediments, A:166, 169  
   vs. depth, A:173  
 petrology  
   ash-fall layers, B:315–328  
   volcaniclastics, A:351, 353–354, 414–415,  
     454, 456, 520–521, 523  
 phenocrysts  
   ash-fall layers, B:316, 318  
   ignimbrites, B:230–231  
   inclusions, B:375–401, 403–410, 416  
   photomicrograph, A:357, 416; B:291  
   type and relative amounts, B:229  
   volcaniclastics, B:189, 285  
   vs. depth, B:146–147  
*See also* anorthoclase phenocrysts; biotite  
   phenocrysts; clinopyroxene  
   phenocrysts; edenite phenocrysts;  
   olivine phenocrysts; plagioclase  
   phenocrysts  
 phenols, turbidites, B:601  
 phillipsite  
   alteration, B:150  
   hydrothermal alteration, B:436  
   photograph, A:69–70; B:178  
   photomicrograph, B:149  
 phlogopite  
   chemical composition, B:251, 455  
   clastic mineral phases, B:235  
   geochemistry, B:316, 318  
   photograph, B:177  
   “placer sands,” B:149  
   xenocrysts, B:169  
 phlogopite crystals, photomicrograph, B:266  
 phonolite clasts  
   photograph, A:337, 511, 513  
   photomicrograph, A:416  
 phonolites  
   ash-fall layers, B:315–328  
   geochronology, B:127–129, 133–134  
   lithologic units, A:335  
   microphotograph, A:416  
   photograph, A:337  
   volcanism, A:17  
 phosphorus  
   vs. magnesium oxide, B:406  
   vs. volatiles, B:407  
 phosphorus oxide  
   vs. magnesium oxide, B:282–283  
   vs. silica, A:362; B:192  
   vs. zirconium, B:169, 171  
 phosphorus oxide/titanium oxide ratio  
   vs. magnesium oxide, B:385  
   vs. silica, B:385  
 photoelectric effect logs, vs. depth, A:177–178,  
     379  
 physical properties  
   Site 950, A:80–81  
   Site 951, A:126–131  
   Site 952, A:157–160  
   Site 953, A:359, 362–363  
   Site 954, A:420–422  
   Site 955, A:461–464  
   Site 956, A:525, 527–530  
 Pico de Teide, time scales, A:23–24; B:458–459  
 “placer sands”  
   heavy minerals, B:168–169  
   mineralogy, B:149  
   photograph, B:177  
   tsunamis, B:174  
 plagioclase  
   alteration, B:150  
   composition, B:150  
   geochemistry, B:164, 394–395  
   inclusions, B:379–380  
   photomicrograph, A:357  
*See also* basalts, plagioclase–phyric;  
   oligoclase  
 plagioclase phenocrysts  
   argon isotopes, B:131  
   photomicrograph, B:148  
 plate dynamics, volcanism, A:17  
 Pleistocene  
   ash-fall layers, B:315–328, 421–428  
   biostratigraphy, B:116–117  
   calcareous nannofossils, A:341–342, 449, 515,  
     517; B:83–96  
   chemostratigraphy, B:535–558  
   geochronology, B:329–341  
   isopach maps, B:491  
   lithologic units, A:398, 402, 437, 443–444,  
     501, 507  
   nannofossils, A:409  
   organic matter, B:364  
   planktonic foraminifers, A:346–347, 453, 519  
   sedimentation, B:343–360, 459  
   turbidite infill, B:523–531  
   volcanism, A:21–22  
 Pliocene  
   biostratigraphy, A:73, 151; B:118–120  
   calcareous nannofossils, A:342–343, 346, 449,  
     517; B:85–96  
   chemostratigraphy, B:535–558  
   deposition, A:340–341; B:453  
   foraminifers, A:411–412  
   geochronology, B:329–341  
   isopach maps, B:492–493  
   lithologic units, A:329–333, 398, 402–405,  
     437, 443–445, 507–512  
   nannofossils, A:409  
   organic matter, B:364  
   planktonic foraminifers, A:347, 453, 519  
   sedimentation, B:353  
   turbidite infill, B:523–531  
   volcanism, A:21–22  
*See also* Miocene/Pliocene boundary;  
   Pliocene/Pleistocene boundary  
 Pliocene, lower, epiclastic sedimentation,  
     B:293–313  
 Pliocene, upper, paleoceanography, B:73–82  
 Pliocene/Pleistocene boundary  
   biostratigraphy, A:151; B:117–118  
   carbonate compensation depth, B:525–529  
   plutonic rocks, clasts, B:273  
 pore water  
   geochemistry, A:24, 77–78, 124, 154–156,  
     364, 418, 459, 526  
   sediments, A:8; B:560, 563, 628–632

- silica, B:609–612
- porosity  
estimate from resistivity, A:86  
sediments, A:163–164, 369–371  
vs. depth, A:85–86, 91, 133, 164, 171,  
372–373, 380, 426–427, 467, 477–478,  
536, 542; B:44–45  
well logs, A:467–468  
*See also* void ratio
- porosity logs  
vs. depth, A:379  
*See also* gamma ray–density–porosity logs
- potassium  
interstitial waters, A:155–156, 356–358, 417,  
458–459, 523  
sediments, A:78  
vs. depth, A:157, 419  
*See also* sodium+potassium
- potassium logs  
felsic sediments, B:30–31, 37  
vs. depth, A:88, 96–102, 167, 177–178, 377,  
472, 539
- potassium oxide  
vs. chlorine, B:283, 427  
vs. fluorine, B:283, 409, 427  
vs. magnesium oxide, B:282–283, 384  
vs. resistivity, B:35  
vs. silica, A:362; B:192, 325  
vs. sulfur, B:283, 427  
vs. zirconium, B:168, 171  
*See also* sodium oxide+potassium oxide
- potassium oxide/titanium oxide ratio  
vs. magnesium oxide, B:385  
vs. silica, B:385
- potassium/aluminum ratio, vs. depth, B:554, 566
- prehnite  
alteration, B:150  
hydrothermal alteration, B:436
- preservation, planktonic foraminifers, B:122–123
- pressure  
hydrothermal activity, B:435  
parental magmas, B:388–389  
vs. magma density, B:418  
vs. temperature, A:380  
vs. vesicles, B:419
- production capacity, vs. depth, A:173, 545
- production index  
sediments, A:166  
vs. depth, A:173, 545
- provenance  
sedimentation, B:343–360, 459–462  
turbidites, B:556–557  
volcaniclastics, B:305–307
- pseudomorphs  
photomicrograph, A:416; B:313  
*See also* olivine pseudomorphs
- pumice  
age, B:324  
geochemistry, B:316, 318, 321, 323–328  
lithologic units, A:507  
petrography, A:351, 353–355  
photograph, A:336, 511  
photomicrograph, B:266  
volcaniclastics, A:414–415  
*See also* sand; tuff
- pumice clasts  
photograph, A:514  
photomicrograph, A:357, 458
- pumice, felsic, photomicrograph, A:358
- pumice lapilli, photograph, A:509–510
- pumice sand, photomicrograph, A:524
- pumice shards, vitroclasts, B:270
- pyrite, lithologic units, A:507
- pyrite, frambooidal, photograph, A:66
- pyroclastic deposits, regional distribution, B:279–282
- pyroclastic flows, ash flows, B:215, 276–277
- pyrolysis, Rock-Eval, sediments, A:165–166, 169
- pyrolysates, turbidites, B:593
- pyrolysis  
organic matter, B:365–366, 591–607  
sediments, A:172
- pyrolysis, Rock-Eval, organic matter, A:534–535, 544
- pyroxenes  
clastic mineral phases, B:232, 234–235  
geochemistry, B:316, 318  
photomicrograph, B:414  
*See also* aegirine; augite; clinopyroxenes;  
orthopyroxene; titanomagnetite
- pyrolyses, pyrolysis, B:365–366
- quartz  
photograph, A:118  
*See also* sand, foraminifer–feldspar–quartz;  
silt
- quartz, monocrystalline, photograph, A:149
- quartzite, photograph, A:149
- Quaternary  
deposition, B:353–354  
foraminifers, A:411–412  
islands, A:14–15  
lithologic units, A:329–332  
paleoceanography, B:73–82  
*See also* Pleistocene
- radiometric age  
sediments, B:103  
*See also* absolute age; geochronology
- Raman spectra, fluid inclusions, B:432–433
- rare earths, glass inclusions, B:385–386, 390
- Red Hill Member, geochronology, B:133
- redeposition, mass balance, A:7–8
- redox  
parental magmas, B:389–390  
*See also* oxidation fronts
- redox front, fossil, image, B:564
- reduction  
sediments, A:8; B:631–633  
*See also* alteration; diagenesis; hydrothermal  
activity; oxidation
- remanent magnetization  
sediments, A:121  
volcaniclastics, A:347, 349–350, 412–414  
vs. magnetic susceptibility, A:353
- remanent magnetization, anhysteretic  
vs. isothermal remanent magnetization, A:76,  
123; B:68  
vs. magnetic susceptibility, A:122, 456; B:59
- remanent magnetization, isothermal  
vs. anhysteretic remanent magnetization, A:76,  
123; B:68  
vs. natural remanent magnetization, A:123;  
B:68
- remanent magnetization, natural  
demagnetization, A:76  
vs. isothermal remanent magnetization, A:123,  
B:68
- remanent magnetization, post-depositional,  
sediments, A:75–76
- remanent magnetization, primary, depositional,  
sediments, A:75–76
- remanent magnetization, radial, detection, A:456
- remanent magnetization, saturation, vs.  
temperature, B:58
- resistivity  
porosity, A:163–164
- vs. potassium oxide, B:35
- resistivity logs  
Site 950, A:54, 96–98  
vs. depth, A:168, 175–176, 378, 473, 540  
*See also* gamma ray–resistivity–sonic logs
- resorption, oligoclase, B:212
- reworking, volcaniclastics, A:407; B:277–278
- rhyolites  
ash-fall layers, B:202–205  
geochronology, B:129  
Miocene, A:20–21  
volcaniclastics, B:452–453  
*See also* glass shards, rhyolitic; ignimbrite,  
rhyolite–basalt; ignimbrite, subalkaline  
rhyolite; lava; tuff
- rhyolites, microcrystalline  
ash-fall layers, B:205  
photomicrograph, B:217
- rhyolites, vitric  
ash-fall layers, B:205  
photomicrograph, B:218
- richterite, stratigraphy, B:231
- rock magnetism  
paleointensity, B:58–60  
sediments, A:122–123, 153–154  
volcaniclastics, A:350–351
- Roque Nublo Group  
evolution, B:101, 110, 112, 453, 458  
geochronology, B:134, 137–138, 140  
photomicrograph, A:356  
Pliocene, A:414–415; B:353
- Roque Nublo Stratocone, Pliocene, A:21–22, 341
- Rotaliina, turbidity currents, B:307–309
- rubidium  
vs. depth, B:454  
vs. zirconium, A:363, 418; B:192
- rutile, photograph, A:118
- sandstone, lithologic units, A:68
- salinity  
fluid inclusions, B:433  
interstitial waters, A:77–78, 123, 154,  
355–356, 417, 458, 523  
vs. depth, A:365, 419, 460, 526
- sand  
lithologic units, A:138, 147  
photograph, A:118, 148–149, 404, 446  
photomicrograph, A:524  
units per core vs. depth, A:331, 403  
vs. depth, A:403  
*See also* pumice sand
- sand, bioclastic, lithologic units, A:507
- sand, calcareous, lithologic units, A:332, 512
- sand, crystal–lithic  
petrography, A:520–521  
photomicrograph, A:457  
volcaniclastics, A:454, 456
- sand, foraminifer  
lithologic units, A:329–333, 402  
photograph, B:177
- sand, foraminifer–feldspar–quartz, lithologic  
units, A:448
- sand, lithic  
lithologic units, A:333, 402  
photograph, A:332
- sand, lithic–crystal–foraminifer, photomicrograph,  
A:457
- sand, pumice  
lithologic units, A:329–332  
petrography, A:520–521
- sand, quartz–lithic, lithologic units, A:444
- sand, silty, photograph, A:67
- sand units per core, vs. depth, A:331, 444, 508
- sand, volcanic, volcanism, A:23

sand, volcaniclastic, photograph, A:513  
 sandstone  
   lithologic units, A:333  
   mineralogy, B:149  
   photograph, B:177  
   volcanism, A:22  
 sandstone, basaltic  
   petrography, A:353–355  
   photograph, B:179  
 sandstone, black, volcaniclastics, B:278  
 sandstone, calcareous, lithic, photomicrograph, A:356  
 sandstone, crystal-lithic  
   lithologic units, A:403, 405, 512; B:156  
   petrography, A:520–521  
   photomicrograph, A:356  
 sandstone, crystal-lithic-vitrific, petrography, A:353–355  
 sandstone, epiclastic, photomicrograph, B:200  
 sandstone, exotic, heavy minerals, B:168–169  
 sandstone, lithic  
   lithologic units, A:333–338  
   photograph, B:179  
 sandstone, vitric, photograph, A:336  
 sandstone, volcaniclastic, photograph, B:180  
 scandium/aluminum ratio, vs. depth, B:556  
 scoria  
   geochronology, B:131  
   volcanism, A:22  
 sea level changes, cycles, B:353–354, 460–462  
 seamounts, drilling, A:11–25; B:456  
 sediment budget, seismic reflectors, B:628–629  
 sediment flux, turbidites, B:626  
 sedimentary basins, islands, A:13; B:463–465  
 sedimentary features, gravity flows, B:187  
 sedimentation  
   concentric vs. channelized, B:279  
   deposition, A:339–341  
   provenance, B:343–360  
   turbidite infill, B:523–531  
   volcaniclastics, A:407; B:183–200  
 sedimentation, epiclastic, Miocene–Pliocene, B:293–313  
 sedimentation, pelagic, turbidite infill, B:525–529  
 sedimentation rates  
   evolution, B:100–114  
   reflectors, B:22–23  
   turbidites, A:7  
   vs. depth, B:294  
   *See also* accumulation rates  
 sedimentology, volcaniclastics, B:273–274  
 sediments  
   accumulation rates, A:87–88, 131–132, 164–165  
   aprongs, B:443–469  
   deposition, A:407  
   geochemistry, B:150–156, 459, 563–569  
   magnetization, B:47–56  
   maturity, A:166  
   mineralogy, A:77, 124, 156  
   petrography, B:359–360  
   pyrolysis, A:172  
   total accumulation rates, A:165  
 sediments, biogenic, downhole measurements, B:41–42  
 sediments, clastic  
   drilling, A:11–25  
   mineralogy, B:298, 302–304  
   petrology and geochemistry, A:351, 353–355  
   point-count data, B:296  
   time on shelf, B:309, 311  
 sediments, clayey, nannofossil  
   lithologic units, A:60–63, 67–68, 108, 437, 443–445, 501, 507–511

photograph, A:404, 513–514  
 sediments, green, volcanism, A:23–24  
 sediments, hemipelagic, Neogene, A:6–7  
 sediments, marine, magnetic polarity, B:57–69  
 sediments, mixed, photograph, A:510, 512–514  
 sediments, nannofossil, photograph, A:332  
 sediments, neritic, lithologic units, A:66  
 sediments, organic-rich, volcanism, A:23–24  
 sediments, quartz-rich, volcanism, A:23–24  
 seismic facies  
   correlation with borehole data, B:473–498  
   reflectors, A:385  
 seismic profiles  
   correlation, B:480–482, 622  
   Gran Canaria, A:17–21  
   lithostratigraphy, A:386  
   Madeira Abyssal Plain, A:6; B:478  
   Site 950, A:53  
   Site 952, A:137  
   Site 954, A:398  
   Site 955, A:436–437  
   Site 956, A:500  
 seismic reflection  
   correlation with borehole data, B:473–498  
   volcanic aprons, B:3–9, 11–27  
 seismic reflection coefficient, vs. travertime, B:486  
 Seismic Reflector band M, unconformities, B:27  
 Seismic Reflector R2, accumulation rates, B:628  
 seismic reflectors  
   accumulation rates, B:628  
   lithology, B:5–7  
   seismic facies, A:385  
 seismic stratigraphy  
   Gran Canaria, A:24; B:450  
   Madeira Abyssal Plain, B:475–476  
   Site 953, A:372–375  
   travertime, A:138  
   turbidites, B:620–621  
 seismic structures  
   islands, A:14  
   volcanic aprons, B:11–27  
 Seismic Unit 7, reflectors, B:21–22  
 Seismic Unit A0, reflectors, B:496  
 Seismic Unit A1, reflectors, B:496  
 Seismic Unit A2, reflectors, B:496  
 Seismic Unit A3, reflectors, B:496  
 seismic units  
   accumulation rates, B:495, 628–629  
   lithology, B:476–478  
   turbidite thickness, B:622  
   volumes, B:495  
 seismograms, synthetic  
   comparison to seismic reflection, B:3–9  
   density and velocity data, B:486  
   sediments, A:371–372  
   vs. travertime, A:382  
 selenium, post-oxic conditions, B:567  
 selenium/aluminum ratio, vs. depth, B:568  
 Selvagens, basins, A:13  
 shear strength  
   sediments, A:80–81, 160, 165, 374, 421, 427, 464, 469, 529, 537  
   vs. depth, A:84, 86, 133, 164, 375, 428, 467, 535  
 shear strength, undrained, sediments, A:130, 362–363  
 shield volcanoes, lava, A:13, 20  
 shore-based log processing  
   Site 950, A:95  
   Site 952, A:174  
 sideromelane  
   alteration, B:150, 412  
   chemical composition, B:284–285, 421–428  
 chemical stratigraphy, B:260  
 deposition, B:279–282  
 fractal dimensions vs. depth, B:196  
 particles, B:193  
 petrography, A:351, 353–355, 521  
 photograph, B:176–180  
 photomicrograph, B:199–200, 291  
 scanning electron microscope image of shard, B:194–195  
 ternary diagrams, B:190  
 vitroclasts, B:270–271  
 volcaniclastics, B:187  
 volcanism, A:23  
   vs. depth, B:191  
 sideromelane clasts  
   petrology, B:145  
   photomicrograph, B:149  
 silica  
   diagenesis, B:630  
   high-resolution profile, B:609–612  
   interstitial waters, A:78, 125, 155–156, 358, 417–418, 459, 523; B:609–612  
   volcaniclastics, A:354–355  
   vs. calcium oxide, B:150, 240–245  
   vs. depth, A:9, 79, 125, 157, 365, 419, 460, 526; B:251, 610–611  
   vs. fluorine, B:409  
   vs. magnesium oxide, B:282–283, 384  
   vs. major elements, A:362; B:192  
   vs. major oxides, B:192, 324–325  
   vs. phosphorus oxide/titanium oxide ratio, B:385  
   vs. potassium oxide/titanium oxide ratio, B:385  
   vs. sodium oxide+potassium oxide, B:323, 385, 426  
   vs. sulfur, B:409  
   vs. zirconium, B:168, 171  
 silica, biogenic, profiles, B:609–612  
 siliceous microfossils, photograph, A:66, 118  
 silicon, vs. sodium, B:166  
 silicon/aluminum ratio, vs. depth, B:555, 630–631  
 silt  
   lithologic units, A:138, 147, 329–333, 448  
   photograph, A:117, 510  
 silt, crystal-lithic  
   lithologic units, A:507  
   petrography, A:351, 353–355  
 silt, quartz-foraminifer-lithic, lithologic units, A:445  
 silt, vitric, petrography, A:520–521  
 siltstone  
   photograph, A:70; B:175  
   volcanism, A:22  
 siltstone, crystal-lithic, lithologic units, A:403, 405; B:156  
 siltstone, dolomitic, lithologic units, A:402  
 siltstone, lithic, lithologic units, A:333–338  
 siltstone, volcaniclastic, lithologic units, A:68  
 Site 950, A:51–104  
   accumulation rates, A:87, 89  
   background and objectives, A:52  
   biostratigraphy, A:70–75; B:503–505  
   chemostratigraphy, B:535–558  
   coring summary, A:56–59  
   diagenesis, B:573–580  
   downhole measurements, A:81–87  
   inorganic geochemistry, A:77–78  
   lithostratigraphy, A:55, 59–70  
   operations, A:53, 55  
   organic geochemistry, A:78–80  
   oxidation fronts, B:559–571  
   paleomagnetism, A:75–77  
   physical properties, A:80–81

- sedimentation, B:523–531  
 seismic units, B:476–478  
 shore-based log processing, A:95  
 silica, B:609–612  
 site description, A:51–104  
 underway geophysics, A:52–53
- Site 951, A:105–134  
 background and objectives, A:106  
 biostratigraphy, A:114, 118–121; B:505–507  
 coring, A:109–112  
 diagenesis, B:573–580  
 inorganic geochemistry, A:123–125  
 lithostratigraphy, A:108, 112–114  
 magnetization, B:48  
 operations, A:107–108  
 organic geochemistry, A:125–126  
 organic matter, B:581–589, 591–607  
 paleomagnetism, A:121–123  
 physical properties, A:126–131  
 sediment accumulation rates, A:131–132  
 sedimentation, B:523–531, 627  
 seismic profiles, A:107  
 seismic units, B:476–478  
 site description, A:105–134  
 underway geophysics, A:106–107
- Site 952, A:135–178  
 background and objectives, A:136  
 biostratigraphy, A:147–152; B:507–508  
 coring, A:139–143  
 diagenesis, B:573–580  
 downhole measurements, A:160–164  
 inorganic geochemistry, A:154–156  
 lithostratigraphy, A:138, 143–147  
 operations, A:136–138  
 organic geochemistry, A:156–157  
 organic matter, B:581–589, 591–607  
 paleomagnetism, A:152–154  
 physical properties, A:157–160  
 Rock-Eval pyrolysis, A:165–166, 169  
 sediment accumulation rates, A:164–165  
 sedimentation, B:523–531, 627  
 seismic units, B:476–478  
 silica, B:609–612  
 site description, A:135–178
- Site 953, A:317–394  
 accumulation rates, A:372  
 alteration, B:429–439  
 ash-fall layers, B:205–207  
 background and objectives, A:319–320  
 biostratigraphy, A:341–347; B:83–96, 98–102, 115–124  
 coring summary, A:321–329  
 downhole measurements, A:363, 365–372  
 inclusions, B:375–401, 403–410  
 inorganic geochemistry, A:355–358  
 lithostratigraphy, A:320, 329–341; B:156  
 magnetization, B:57–69  
 magnetostratigraphy, B:100, 117–118  
 operations, A:320  
 organic geochemistry, A:358–359  
 paleoceanography, B:73–82  
 paleomagnetism, A:347, 349–351  
 physical properties, A:359, 362–363  
 planktonic foraminifers age, B:122  
 sedimentation, B:183–200, 293–313  
 seismic reflection, B:3–9, 11–27  
 seismic stratigraphy, A:372–375  
 sideromelane, B:421–428  
 site description, A:317–394  
 volatiles, B:412  
 volcaniclastics, A:351, 353–355; B:29–37, 451
- Site 954, A:395–431  
 accumulation rates, A:422–424
- alteration, B:429–439  
 background and objectives, A:396–397  
 biostratigraphy, A:407–412; B:102–104, 115–124  
 coring summary, A:399–402  
 in-situ temperature, A:424  
 inorganic geochemistry, A:415, 417–419  
 lithostratigraphy, A:397–398, 402–407; B:161  
 magnetization, B:49–50, 57–69  
 magnetostratigraphy, B:119  
 operations, A:397  
 organic geochemistry, A:419–420  
 paleomagnetism, A:412–414  
 physical properties, A:420–422  
 planktonic foraminifers, B:120  
 sedimentation, B:293–313  
 seismic reflection, B:11–27  
 sideromelane, B:421–428  
 site description, A:395–431  
 underway geophysics, A:397  
 volcaniclastics, A:414–415; B:451
- Site 955, A:433–496  
 accumulation rates, A:468  
 ash-fall layers, B:207–209  
 background and objectives, A:434–435  
 biostratigraphy, A:449–453; B:104–107  
 coring summary, A:438–443  
 downhole measurements, A:464–468  
 hydrogen index, A:545  
 in-situ temperature, A:468–470  
 inorganic geochemistry, A:457–459  
 lithostratigraphy, A:437, 443–449  
 operations, A:436–437  
 organic geochemistry, A:459–461  
 organic matter, B:361–372  
 paleomagnetism, A:453–454  
 physical properties, A:461–464  
 production capacity, A:545  
 sedimentation, B:343–360  
 site description, A:433–496  
 underway geophysics, A:435–436  
 volcaniclastics, A:454, 456–457; B:29–37, 451
- Site 956, A:497–557  
 accumulation rates, A:533–534  
 alteration, B:429–439  
 ash-fall layers, B:209–211  
 background and objectives, A:498–499  
 biostratigraphy, A:515–520; B:108–110  
 coring summary, A:502–507  
 downhole measurements, A:530–533  
 formation microscanner logs, B:39–46  
 in-situ temperature, A:534  
 inclusions, B:375–401, 403–410  
 inorganic geochemistry, A:523  
 lithostratigraphy, A:501, 507–515; B:161  
 operations, A:501  
 organic geochemistry, A:523, 525  
 organic matter, B:361–372  
 paleomagnetism, A:520  
 physical properties, A:525, 527–530  
 sedimentation, B:343–360  
 sideromelane, B:421–428  
 site description, A:497–557  
 underway geophysics, A:499–500  
 volatiles, B:412–413  
 volcaniclastics, A:520–521, 523; B:29–37, 451
- slump deposits  
 depths and age ranges, B:352–353, 355  
 lithologic units, A:511–514  
 photograph, A:512  
 provenance, B:343–360, 459–460, 462–463
- slump folds, lithologic units, A:443–444, 507
- slumping  
 lithologic units, A:403, 405–407  
 photograph, A:335  
 volcaniclastics, B:215–216  
 volcanism, A:24; B:110  
 well logs, A:466
- smectite  
 hydrothermal alteration, B:436  
 photomicrograph, B:149
- sodium+potassium, vs. silicon, B:166
- sodium  
 interstitial waters, A:356–358, 417, 458–459, 523  
 sediments, A:78  
 vs. depth, A:365, 419, 460, 526  
 vs. silicon, B:166
- sodium oxide+potassium oxide  
 vs. biostratigraphic age, B:325  
 vs. depth, B:251  
 vs. silica, B:323, 385, 426
- sodium oxide  
 vs. aluminum oxide, B:165, 236–237, 239  
 vs. calcium oxide, B:150, 240–245  
 vs. magnesium oxide, B:282–283, 384  
 vs. silica, A:362; B:192  
 vs. zirconium, B:168, 171
- soft sediment deformation  
 clastic sediments, B:297  
 lithologic units, A:405, 443–444, 507  
 photograph, A:406, 446; B:312
- sonic logs. *See* gamma ray–resistivity–sonic logs
- sorting, thickness, B:274
- sorting mean, vs. graphic mean of clastics, B:303
- source areas  
 hyaloclastite tuffs, B:166–168  
 kerogen, B:599–601  
 volcaniclastics, B:194–195
- South Canary Channel, basins, A:13
- spheine. *See* titanite
- spinels  
 chemical composition, B:381, 392–394  
 “placer sands,” B:149
- spinels, chromian, inclusions, B:380
- stable isotopes, turbidites, B:584–587
- stearic acid, sediments, B:368
- steranes, sediments, B:367, 369
- sterenes, sediments, B:367, 369
- stereoisomers, mass spectra, B:371
- sterols, sediments, B:367
- stratification, volcaniclastics, B:43–44
- stratigraphy, subaerial, volcaniclastic units, B:226–229
- strontium  
 interstitial waters, A:358, 418–419  
 vs. depth, A:365, 420  
 vs. zirconium, A:363, 418; B:169, 171, 192
- strontium/calcium ratio, vs. depth, A:365, 420
- structures, thickness, B:274
- subaerial deposits, chemical stratigraphy, B:243–245, 256
- subaerial growth, islands, A:14, 19–22
- submarine emplacement, ash-fall layers, B:211–212, 268
- submarine growth, islands, A:14
- sulfate  
 interstitial waters, A:8, 78, 123–124, 154, 355, 415, 457–458, 523  
 vs. ammonia, A:9, 157; B:629  
 vs. depth, A:9, 78, 125, 157, 365, 419, 460, 526; B:563, 630
- sulfur  
 inclusions, B:403–410  
 sediments, A:79–80, 126, 157–158, 358–359, 420; B:583

- sideromelane, B:423, 425  
 speciation, B:408–409  
 volcaniclastics, A:461, 523, 525  
 vs. chlorine, B:407  
 vs. depth, A:80, 126, 158, 366, 461, 527; B:565  
 vs. magnesium oxide, B:283, 406, 426  
 vs. phosphorus, B:407  
 vs. potassium oxide, B:283, 427  
*See also* carbon, organic/sulfur ratio; iron/sulfur ratio
- sulfur, organic, oxidation, B:631  
 sulfur, total  
 sediments, B:363–365  
 vs. organic carbon, B:365  
 sulfur/aluminum ratio, vs. depth, B:569
- tachylite  
 photograph, B:178–180  
 photomicrograph, B:199–200  
 volcaniclastics, B:187  
 vs. depth, B:191  
*See also* basalts, tachylitic; tuff; volcanic glass  
 tachylite clasts, petrology, B:145
- tachylite fragments, photomicrograph, B:266  
 tachylite, mafic, photomicrograph, B:217  
 tachylite, trachyandesitic, ash-fall layers, B:205  
 tachylite, vesicular, photomicrograph, B:217  
 tantalum/thallium ratio, vs. depth, B:568  
 Te Bouma units, lithologic units, A:60–63  
 temperature  
 hydrothermal activity, B:435–436  
 parental magmas, B:388–389  
 sediments, A:84, 163, 369, 533  
 vs. depth, A:91, 173, 542, 545  
 vs. saturation magnetization, B:58  
 vs. time, A:430, 479–480, 543–544  
 well logs, A:466–467
- temperature, in-situ, A:424, 468–470, 534  
 vs. depth, A:480, 544  
 vs. time, A:431
- Tenerife  
 ash-fall layers, B:315–328, 458–459  
 deposition, A:514–515  
 drilling, A:12–13, 23  
 felsic tephra, B:453  
 geochronology, B:329–341  
 reflectors, B:27
- tephra  
 fallout layers, B:276–277, 458  
 geochronology, B:127–129, 133–134, 329–341, 458–459  
 islands, A:14–15  
 lithologic units, A:64, 112  
 lithostratigraphy, B:219–291  
 mineral distribution vs. age, B:319  
 photograph, A:66  
 wireline logs, B:29–37  
*See also* felsic tephra
- Textulariina, turbidity currents, B:307–309  
 textures, alteration, B:429–439
- thallium  
 post-oxic conditions, B:567  
*See also* tantalum/thallium ratio
- thermal conductivity  
 sediments, A:129, 131, 362, 421, 426, 464, 469, 527, 534  
 vs. depth, A:131, 372, 426, 469, 535
- thiophenes, pyrolysis, B:365–366
- thorium. *See* cadmium/thorium ratio; uranium/thorium ratio
- thorium/uranium ratio, vs. depth, A:91  
 thorium logs, vs. depth, A:88, 96–102, 167, 177–178, 377, 472, 539
- time scales, islands, A:23–24  
 tin/aluminum ratio, vs. depth, B:568  
 titanaugeite clasts, petrology, B:145  
 titanite  
 chemical composition, B:316, 318, 320  
 clastic mineral phases, B:235, 237  
 inclusions, B:455  
 titanium/aluminum ratio, vs. depth, B:546–553, 566, 623
- titanium oxide  
 vs. aluminum oxide, B:165, 236–237, 239  
 vs. calcium oxide, B:150, 240–245  
 vs. cerium oxide, B:320  
 vs. iron oxide, B:259–260, 320  
 vs. magnesium number, B:380–381, 384  
 vs. magnesium oxide, B:282–283  
 vs. silica, A:362; B:192, 325  
 vs. zirconium, B:168, 171
- See also* iron–titanium oxides; phosphorus oxide/titanium oxide ratio; potassium oxide/titanium oxide ratio
- trace elements  
 basalt clasts, B:155–156, 160  
 enrichment, B:559–571  
 glass inclusions, B:383, 385–386, 453–455  
 glass shards, B:320  
 pumice glasses, B:328  
 turbidites, B:577, 580  
 volcaniclastics, A:354–355, 417, 458; B:148, 151–155, 191–192, 252–253  
 welded ignimbrite, A:525  
 whole-rock samples, A:360–361
- trachyandesites  
 ash-fall layers, B:202–205  
*See also* tachylite
- trachyphonolite clasts  
 photomicrograph, A:416; B:313  
 vs. depth, B:304
- trachyphonolites  
 geochemistry, A:521, 523  
 Miocene, A:20–21  
 petrography, A:353–355  
 photomicrograph, A:457  
 volcaniclastics, A:414–415, 454, 456; B:452–453  
*See also* ignimbrite, trachyphonolitic; lava; tuff
- trachytes  
 ash-fall layers, B:202–205, 315–328  
 volcaniclastics, B:452–453  
*See also* ignimbrite, comedite–trachyte; ignimbrite, pantellerite–trachyte; ignimbrite, trachyte
- trachytes, microcrystalline, ash-fall layers, B:205
- trachytes, vitric, ash-fall layers, B:205
- transport, volcaniclastics, B:165–166, 459–463
- traveltime  
 depths to reflectors, B:479  
 seismic stratigraphy, A:138  
 vs. depth, A:55, 138, 383, 385, 398, 437, 501; B:23  
 vs. reflection coefficient, B:486
- triterpanes, sediments, B:369
- triterpenes, sediments, B:369
- triterpenoids, sediments, B:367
- tsunami deposits  
 “placer sands,” B:174  
 volcaniclastics, B:278–279, 460
- tuff  
 alteration, B:149–150  
 downhole measurements, B:42  
 geochemistry, B:155–156  
 lithologic units, A:406–407  
 petrography, A:353–355
- photograph, A:67, 338–339; B:175–176  
 volcaniclastics, A:414–415  
 welded glass, B:273, 457
- tuff, basaltic, photomicrograph, A:358
- tuff clasts, photomicrograph, A:524
- tuff clasts, partially welded, vitroclasts, B:270
- tuff, felsic, photomicrograph, B:217
- tuff, hyaloclastite  
 lithologic units, A:513–514; B:156, 161
- petrography, A:521
- photomicrograph, A:358; B:291  
 source areas, B:166–168
- tuff, pumiceous, photograph, A:447
- tuff, rhyolitic, photograph, B:287–290
- tuff, tachylitic, photomicrograph, A:358
- tuff, trachyphonolitic, photomicrograph, A:356, 457
- tuff, vitric,  
 lithologic units, A:66, 333–339, 445, 512–514  
 photograph, A:447  
 photomicrograph, A:357, 458, 524; B:290  
 turbidites, B:275  
 volcanism, A:23
- tuff, welded  
 geochemistry, A:521, 523  
 photomicrograph, B:265, 288
- tuff, zeolitized  
 lithologic units, A:447  
 photograph, A:447  
 volcaniclastics, A:454, 456
- turbidite infill, sedimentation, B:523–531
- turbidite thickness  
 seismic units, B:622  
 vs. depth, B:483–485
- turbidites  
 accumulation rates, A:87–88; B:501–520  
 chemostratigraphy, B:535–558  
 classification, B:525–529  
 correlation, B:624  
 deposition, A:68–70, 340–341  
 depths and age ranges, B:346, 348–351  
 diagenesis, B:573–580  
 geochemistry, B:538–545, 623–624  
 lithologic units, A:60–63, 108, 113, 138, 143, 510–514  
 lithostratigraphy, B:624–628  
 Neogene, A:6–7; B:619–634  
 organic matter, B:581–589, 591–607  
 oxidation fronts, B:559–571  
 photograph, A:64–66, 68–70, 332, 334, 336–337; B:175, 198, 312  
 photomicrograph, B:199  
 provenance, B:343–360, B:556–557  
 sedimentology, B:624  
 seismic units, B:483, 495–497  
 transport, B:166  
 tuff, B:275  
 volcaniclastics, B:215–216, 457–458  
 vs. age, B:625  
 vs. depth, B:186  
*See also* Bouma A; Te Bouma units
- turbidites, ash, lithology, B:173
- turbidites, brown, carbonate content, B:529
- turbidites, calcareous  
 carbonate content, B:529
- provenance, B:557  
 vs. depth, A:63, 114, 147
- turbidites, gray, nonvolcanic, carbonate content, B:528–529
- turbidites, intermediate, vs. depth, A:114, A:147
- turbidites, organic  
 carbonate content, B:526, 528  
 lithologic units, A:62–63  
 photograph, A:64–66, 117–118, 148

- provenance, B:556  
     vs. depth, A:63, 114, 147
- turbidites, quartz-rich, deposition, B:353–355
- turbidites, volcanic  
     carbonate content, B:528  
     lithologic units, A:63  
     photograph, A:117  
     provenance, B:556–557  
     vs. depth, A:63, 114, 147
- turbidites, volcaniclastic, carbonate content, B:529
- turbidity currents  
     deposition, A:514–515  
     foraminifers, B:307–309
- u-channel data, demagnetization, B:60–67
- Ucana Formation, lithology, B:320
- unconformities  
     biostratigraphy, B:513  
     Reflector band M, B:27  
     *See also* disconformities; hiatuses
- underway geophysics, A:52–53, 106–107, 397, 435–436, 499–500
- Unit A, ash-fall layers, B:205, 207, 209
- Unit B, ash-fall layers, B:205–207, 209
- Unit C, ash-fall layers, B:207–210
- Unit D, ash-fall layers, B:207–210
- Unit E, ash-fall layers, B:207, 209–210
- Unit F, ash-fall layers, B:207, 209–211
- Upper Fataga Formation, geochronology, B:133–134, 136
- Upper Mogán Formation  
     geochronology, B:131  
     volcaniclastic units, B:227–228
- upwelling, felsic sediments, B:30–31
- uranium  
     post-oxic conditions, B:569, 631  
     *See also* thorium/uranium ratio
- uranium/thorium ratio, vs. depth, B:569
- uranium logs, vs. depth, A:88, 96–102, 167, 177–178, 377, 472, 539
- vanadium  
     post-oxic conditions, B:567  
     vs. depth, B:454  
     vs. zirconium, A:363, 418
- vanadium/aluminum ratio, vs. depth, B:568
- veins, epithermal, hydrothermal solutions, B:436
- velocity  
     sediments, A:421, 426  
     vs. density and magnetic susceptibility, A:423  
     vs. depth, A:81–82, 129–130, 160–164, 168, 367–369, 374, 420, 422, 427, 463, 465–467, 529, 531–533, 537; B:486  
     vs. gamma rays, A:422, 466, 533  
     vs. magnetic susceptibility, A:422, 466, 533  
     vs. signal level, A:425  
     *See also* compressional wave velocity
- velocity logs,  
     Site 950, A:54  
     vs. depth, A:378, 473, 540  
     *See also* gamma ray–resistivity–sonic logs
- vesicles  
     flattening, B:212–213  
     vs. pressure, B:419
- vesiculation, photograph, A:407
- VICAP, volcanism, A:11–25; B:465–467
- virtual geomagnetic poles  
     demagnetization, B:60–67  
     *See also* magnetic fields
- vitrinite, sediments, B:366–367
- vitroclasts, petrology, B:268, 270–271
- void ratio  
     vs. depth, A:85–86, 428  
     *See also* porosity
- volatiles  
     inclusions, B:403–410, 454  
     sideromelane, B:423, 425–426
- volcanic ash  
     islands, A:14  
     lithologic units, A:329–332  
     volcaniclastics, A:414–415  
     *See also* ash-fall layers
- volcanic ash, zeolitic, lithologic units, A:68
- volcanic glass  
     photograph, A:338  
     photomicrograph, A:357  
     *See also* basalts, vitric; glass shards
- volcanic glass, tachytic, photomicrograph, A:358
- volcanic islands  
     drilling, A:11–25  
     volume, B:447
- volcaniclastic units, event stratigraphy, B:219–266, 276–278
- volcaniclastics  
     age, B:329–341  
     chemical composition, B:240–243  
     chemical evolution, B:453–455  
     components, A:416–417, 524–525; B:185–189, 451  
     composition, B:452–453  
     correlation, B:262  
     deposition, A:340–341, 448–449, 514–515; B:273–274, 451  
     emplacement, B:219–291  
     evolution, B:101–114  
     fluid inclusions, B:429–439  
     genesis, B:215–216  
     geochemistry, B:151–155, 157–159  
     islands, A:14, 22–23  
     lithologic units, A:65–68, 331–339, 356–357, 402–407, 443–448, 507–514  
     mineralogy, B:190, 230–239  
     Miocene, B:229–230  
     petrology and geochemistry, A:351, 353–355, 414–415  
     photograph, A:70; B:175–181, 198  
     photomicrograph, B:199–200  
     quantitative estimate, B:42–43  
     reflectors, B:25–26  
     reworking, B:277–278  
     sand units per core vs. depth, A:331, 444, 508  
     sedimentation, A:407; B:183–200  
     Site 955, A:454, 456–457  
     Site 956, A:520–521, 523  
     source areas, B:166–168, 426–427, 459–462  
     thickness, B:274–275  
     volcanic components, A:456–457  
     volcanism, A:17  
     vs. depth, A:403  
     wireline logs, B:29–37  
     *See also* tuff
- volcaniclastics, bulk, chemical stratigraphy, B:256, 258
- volcaniclastics, felsic, eruptions, B:274–276
- volcanism  
      chronostratigraphy, B:127–140  
     evolution, A:19–22; B:101, 104, 109, 111–114, 293–294
- gap in activity, B:453
- islands, A:14
- Pliocene, A:21–22
- See also* eruptions; explosions
- volcanism, intraplate, islands, A:15–18
- volcanism, shield, evolution, B:141–181
- volcanoes, glass inclusions, B:415–416
- vugs, fluid inclusions, B:432
- water  
     mafic magmas, B:411–420  
     melt inclusions, B:383, 386–387  
     vs. carbon dioxide, B:417  
     vs. magnesium oxide, B:387
- water content, vs. depth, A:86, 133, 164, 372–373, 375, 426–428, 467, 535–536
- wavelets, vs. amplitude, B:486
- waxes, sediments, B:367
- weathering, volcanoclastics, B:305–307
- welding, vesicles, B:212–213
- well logs  
     sediments, A:166, 376  
     shore-based log processing, A:387, 481, 546
- Site 950, A:54, 96–104  
     summary, A:538  
     vs. depth, A:366–368, 465–466, 531, 533
- well-logging,  
     Site 950, A:81–87  
     Site 952, A:160–164  
     Site 953, A:363, 365–372  
     Site 955, A:464–468  
     Site 956, A:530–533  
     *See also* downhole measurements
- wireline logs, volcanoclastics, B:29–37
- yttrium  
     vs. depth, B:251  
     vs. zirconium, A:169, 171, 363, 418; B:192
- zeolites  
     alteration, B:150  
     hydrothermal alteration, B:436  
     lithologic units, A:68, 406–407  
     photograph, A:69–70, 514  
     volcanoclastics, A:414–415, 454, 456  
     *See also* natrolite; phillipsite; prehnite; tuff
- zeolitization, photograph, A:67
- Zijderveld diagrams, demagnetization, B:60–67
- zinc  
     post-oxic conditions, B:567–569, 631  
     vs. depth, B:251  
     vs. zirconium, A:363, 418; B:192
- zinc/aluminum ratio, vs. depth, B:568
- zircon  
     clastic mineral phases, B:239  
     inclusions, B:455  
     microphenocrysts, B:231  
     “placer sands,” B:149
- zirconium  
     vs. depth, B:454  
     vs. major elements, B:168  
     vs. trace elements, A:363, 418; B:169, 192
- zirconium/aluminum ratio, vs. depth, B:554
- zirconium/niobium ratio  
     sediments, B:155  
     volcanoclastics, A:415; B:454  
     vs. depth, B:251, 455
- zonation, correlation, B:99, 108

## VOLUME 157 TAXONOMIC INDEX

- abies, Sphenolithus*  
 Site 952, A:151; B:519  
 Site 953, B:89
- acostaensis, Neogloboquadrina*  
 Site 950, A:71  
 Site 953, A:347; B:76–78, 101  
 Site 954, A:411; B:103, 118, 120–122  
 Site 955, A:453  
 Site 956, A:519–520; B:108, 112
- acuta, Helicosphaera*, Site 953, B:84–86, 90, 94
- acus, Ceratolithus*  
 Site 950, A:73  
 Site 953, B:87
- aequilateralis, Globigerinella*  
 Site 954, A:411; B:116  
 Site 955, A:453
- altispira, Dentoglobigerina*  
 Site 952, A:151–152  
 Site 953, A:347; B:118  
 Site 955, A:453  
 Site 956, A:519
- altispira, Globoquadrina*  
 Site 950, A:74  
 Site 951, A:119  
 Site 954, A:411–412
- Amaurolithus amplificus*  
 Site 950, A:73; B:503  
 Site 951, B:505  
 Site 952, B:507, 516  
 Site 953, A:346; B:88  
 Site 954, A:409
- Amaurolithus delicatus*  
 Site 950, A:73; B:503  
 Site 952, A:151; B:507, 516  
 Site 953, A:346; B:88
- Amaurolithus primus*  
 Site 950, B:503  
 Site 951, B:505  
 Site 952, B:507, 516  
 Site 953, B:88  
 Site 955, A:449  
 Site 956, A:518
- Amaurolithus spp.*  
 Site 951, A:118  
 Site 953, B:87  
 Site 954, A:409; B:103  
 Site 955, A:449  
 Site 956, A:517
- Amaurolithus tricorniculatus*  
 Site 950, B:503  
 Site 953, A:346  
 Site 956, A:517
- Amphistegina spp.*, Site 952, A:152
- ampliaperita, Helicosphaera*  
 Gran Canaria, B:458  
 Site 950, B:503  
 Site 951, A:118  
 Site 952, B:518  
 Site 953, A:346; B:92  
 Site 955, A:450; B:107
- amplificus, Amaurolithus*  
 Site 950, A:73; B:503  
 Site 951, B:505  
 Site 952, B:507, 516  
 Site 953, A:346; B:88  
 Site 954, A:409
- antarcticus, Dictyococcites*, Site 953, B:85, 92
- aperta, Hayella*, Site 950, B:518
- archeomenardii, Globorotalia*
- Site 955, A:453
- Site 956, A:520
- asanoi, Reticulofenestra*  
 Site 950, A:73  
 Site 951, A:118  
 Site 952, A:149  
 Site 953, A:341; B:84–85, 89, 93–94  
 Site 954, A:409; B:103  
 Site 955, A:449
- asymmetricus, Discoaster*  
 Site 950, A:73  
 Site 951, A:118  
 Site 952, A:151  
 Site 953, B:87  
 Site 955, A:449
- barbadiensis, Discoaster*, Site 950, B:517
- baroemoenensis, Globopora*  
 Site 954, A:411  
 Site 955, A:453
- belemnos, Sphenolithus*  
 Site 950, B:505  
 Site 952, B:519
- bellus, Discoaster*  
 Site 952, B:517  
 Site 954, A:409
- berggrenii, Discoaster*  
 Site 950, A:73; B:503  
 Site 951, A:118  
 Site 952, B:517  
 Site 953, B:88, 101, 112  
 Site 954, A:409  
 Site 955, A:449
- Bicolumnus ovatus*, Site 950, B:516
- bijugatus, Zygrahlithus*, Site 950, B:520
- bisecta, Dictyococcites*, Site 950, A:73
- bisectus, Dictyococcites*, Site 950, B:517
- bollii, Discoaster*  
 Site 952, B:517  
 Site 953, B:89
- Botrycoccus braunii*, kerogen, B:599–601
- braunii, Botrycoccus*, kerogen, B:599–601
- brouweri, Discoaster*  
 Site 950, A:71  
 Site 951, A:114, 118  
 Site 952, A:151  
 Site 953, A:341–343; B:87  
 Site 954, A:409  
 Site 955, A:449  
 Site 956, A:517
- bulloides, Globigerina*, Gran Canaria, B:118
- bulloides, Globigerina cf. Globigerina*, Gran Canaria, B:116
- Calcidiscus aff. macintyreai*, Site 953, B:91
- Calcidiscus macintyreai*  
 Site 952, B:516  
 Site 953, A:341–342; B:85  
 Site 954, A:409  
 Site 955, A:449  
 Site 956, A:517; B:109
- Calcidiscus premacintyreai*  
 Site 952, B:516  
 Site 953, A:346; B:91
- Calcidiscus tropicus*, Site 952, B:516
- calida calida, Globigerina*  
 Site 951, A:118  
 Site 952, A:151  
 Site 953, A:347; B:99, 116
- Site 954, A:411
- Site 955, A:453
- calida praecalida, Globigerina*, Gran Canaria, B:116
- calculus, Catinaster*, Site 953, B:89
- caribbeanica, Gephyrocapsa*  
 Site 952, A:151  
 Site 953, B:85  
 “*caribbeanica*,” *Gephyrocapsa*  
 Site 953, A:341  
 Site 955, A:449  
 Site 956, A:517
- Catinaster calculus*, Site 953, B:89
- Catinaster coalitus*  
 Site 950, B:503  
 Site 952, B:507, 516  
 Site 953, A:346; B:89, 91–92, 102, 112  
 Site 954, A:409  
 Site 955, A:450
- Ceratolithus acutus*  
 Site 950, A:73  
 Site 953, B:87
- Ceratolithus rugosus*  
 Site 952, A:151  
 Site 953, B:87
- Ceratolithus sp.*, Site 951, A:118
- challengeri, Triquetrorhabdulus*, Site 952, B:520
- Chiasmolithus grandis*, Site 950, B:505
- Chiasmolithus oamaruensis*, Site 950, A:87
- cibaoensis, Globorotalia*, Gran Canaria, B:120
- ciperoensis, Sphenolithus*, Site 950, A:73; B:505, 519
- Clausicoccus fenestratus*, Site 950, B:505, 516
- coailitus, Catinaster*  
 Site 950, B:503  
 Site 952, B:507, 516  
 Site 953, A:346; B:89, 91–92, 102, 112  
 Site 954, A:409  
 Site 955, A:450
- Coccolithus formosius*, Site 950, B:505, 516
- Coccolithus miopelagicus*  
 Site 952, B:516  
 Site 953, A:346; B:89, 91  
 Site 954, A:409  
 Site 956, A:518–519; B:109
- Coccolithus pelagicus*, Site 953, B:87, 90, 94
- Coccolithus pliopelagicus*, Site 953, B:88, 94
- compacta, Helicosphaera*, Site 950, B:518
- compactus, Sphenolithus*, Site 953, B:89
- conglobatus, Globigerinoides*, Gran Canaria, B:120–121
- conicus, Sphenolithus*, Site 953, B:89
- conoidea, Globorotalia*, Site 950, A:74
- conomicoza, Globorotalia*  
 Site 950, A:74  
 Site 953, A:347; B:118, 121  
 Site 954, A:411  
 Site 955, A:453
- continuosa, Globorotalia*  
 Site 954, A:411  
 Site 955, A:453
- continuosa, Neogloboquadrina*, Site 953, A:347
- continuosa, Neogloboquadrina cf.*  
 Site 951, A:121  
 Site 953, A:347
- convallis, Minylitha*  
 Site 950, B:503  
 Site 951, B:505

- Site 952, B:507, 519  
 Site 953, B:88–89, 101  
 Site 954, A:409; B:103, 112  
 Site 955, B:105  
*Coronocyclus nitescens*  
 Site 952, B:517  
 Site 953, B:92  
*crassaformis*, *Globorotalia*  
 Site 950, A:74  
 Site 952, A:151–152  
 Site 954, A:411; B:116, 118  
 Site 955, A:453  
*crassaformis hessi*, *Globorotalia*, Gran Canaria,  
 B:116  
*crassaformis viola*, *Globorotalia*, Gran Canaria,  
 B:116  
*crassula*, *Globorotalia*, Gran Canaria, B:117–118  
*Cryptococcolithus takayamae*  
 Site 952, B:517  
 Site 953, B:88  
*Cyclicargolithus floridanus*  
 Site 950, A:73  
 Site 952, B:517  
 Site 956, A:519  
*daviesii*, *Dictyococites*, Site 950, B:517  
*decoraperta*, *Globigerina*, Site 950, A:74  
*deflandrei*, *Discoaster*  
 Site 952, B:517  
 Site 953, A:346  
*dehiscens*, *Globoquadrina*  
 Site 950, A:74  
 Site 951, A:121  
 Site 953, A:347; B:101, 112, 115, 120–122  
 Site 954, A:411–412  
 Site 955, A:453  
 Site 956, A:520  
*dehiscens*, *Sphaeroidinella*  
 Site 955, A:453  
 Site 956, A:519  
*delicatus*, *Amaurolithus*  
 Site 950, A:73; B:503  
 Site 952, A:151; B:507, 516  
 Site 953, A:346; B:88  
*Dentoglobigerina altispira*  
 Site 952, A:151–152  
 Site 953, A:347; B:118  
 Site 955, A:453  
 Site 956, A:519  
*Dictyococites bisecta*, Site 950, A:73  
*Dictyococites bisectus*, Site 950, B:517  
*Dictyococites daviesii*, Site 950, B:517  
*Dictyococites antarcticus*, Site 953, B:85, 92  
*Dictyococites productus*, Site 953, B:85, 89, 92  
*diminuta*, *Globigerinoides*, Site 956, A:520  
*Discoaster asymmetricus*  
 Site 950, A:73  
 Site 951, A:118  
 Site 952, A:151  
 Site 953, B:87  
 Site 955, A:449  
*Discoaster barbadiensis*, Site 950, B:517  
*Discoaster bellus*  
 Site 952, B:517  
 Site 954, A:409  
*Discoaster berggrenii*  
 Site 950, A:73; B:503  
 Site 951, A:118  
 Site 952, B:517  
 Site 953, B:88, 101, 112  
 Site 954, A:409  
 Site 955, A:449  
*Discoaster bollii*  
 Site 952, B:517
- Site 953, B:89  
*Discoaster brouweri*  
 Site 950, A:71  
 Site 951, A:114, 118  
 Site 952, A:151  
 Site 953, A:341–343; B:87  
 Site 954, A:409  
 Site 955, A:449  
 Site 956, A:517  
*Discoaster deflandrei*  
 Site 952, B:517  
 Site 953, A:346  
*Discoaster exilis*  
 Site 950, B:505  
 Site 951, B:507  
 Site 952, B:507  
 Site 953, A:346  
*Discoaster hamatus*  
 Site 950, B:503  
 Site 952, A:149; B:507, 517  
 Site 953, A:346; B:89, 99, 101–102, 112  
 Site 954, A:409  
 Site 955, A:449–450; B:105, 107  
 Site 956, A:518–519  
*Discoaster kugleri*  
 Site 952, B:507, 517  
 Site 953, A:346; B:91–92, 102, 112  
*Discoaster loeblichii*  
 Site 950, A:73; B:503  
 Site 953, A:346; B:88–89, 101, 112  
 Site 954, A:409  
 Site 955, A:449  
*Discoaster neohamatus*  
 Site 950, B:503  
 Site 952, A:151  
 Site 953, B:89  
*Discoaster neorectus*  
 Site 953, B:89  
 Site 954, A:409  
 Site 955, A:449  
*Discoaster nodifer*, Site 952, B:517  
*Discoaster pentaradiatus*  
 Site 950, A:73; B:503  
 Site 951, A:118  
 Site 952, A:164; B:507  
 Site 953, A:343, 346; B:87  
 Site 954, A:409  
 Site 955, A:449  
 Site 956, A:517  
*Discoaster petaliformis*, Site 953, B:92  
*Discoaster prepentaradiatus*, Site 952, A:151  
*Discoaster quinqueramus*  
 Site 950, A:71, 73; B:503  
 Site 951, A:114, 118; B:505  
 Site 952, A:151; B:507, 517  
 Site 953, A:341, 346; B:87–88  
 Site 954, A:409  
 Site 955, A:449  
 Site 956, A:517  
*Discoaster saipanensis*, Site 950, B:505, 514, 517  
*Discoaster signus*  
 Site 950, B:505  
 Site 952, B:518  
*Discoaster surculus*  
 Site 950, A:73  
 Site 951, A:118  
 Site 952, A:151; B:518  
 Site 953, A:343; B:87  
 Site 954, A:409; B:103  
 Site 956, A:517  
*Discoaster tamalis*  
 Site 950, A:73  
 Site 951, A:118  
 Site 952, A:151
- Site 953, A:346; B:87  
 Site 954, A:409  
 Site 955, A:449  
 Site 956, A:517  
*Discoaster tanii* ssp. *ornatus*, Site 950, B:518  
*Discoaster triradiatus*  
 Site 951, A:118  
 Site 952, A:151, 164  
 Site 953, A:342; B:87  
*Discoaster variabilis*, Site 952, B:518  
*disjuncta*, *Sphaeroidinellopsis*  
 Site 955, A:453  
 Site 956, A:520  
*distentus*, *Sphenolithus*, Site 950, B:505, 520  
*druryi*, *Globigerina*, Site 953, A:347  
*dutertrei*, *Neogloboquadrina*, Site 953, B:76–78,  
 116, 118
- Emiliania huxleyi*  
 Site 950, A:71  
 Site 951, A:114  
 Site 952, A:149  
 Site 953, A:341  
 Site 954, A:409  
 Site 955, A:449  
 Site 956, A:517  
*Epistominella exigua*, Site 955, A:453  
*Ericsonia subdisticha*, Site 950, B:505  
*euphratis*, *Helicosphaera*, Site 952, B:518  
*exigua*, *Epistominella*, Site 955, A:453  
*exilis*, *Discoaster*  
 Site 950, B:505  
 Site 951, B:507  
 Site 952, B:507  
 Site 953, A:346  
*exilis*, *Globorotalia*  
 Site 952, A:152  
 Site 953, A:347; B:118–119  
*extremus*, *Globigerinoides*, Site 955, B:107  
*falconensis*, *Globigerina*, Site 953, B:116  
*fenestratus*, *Clausicoccus*, Site 950, B:505, 516  
*finalis*, *Pulleniatina*  
 Site 951, A:119  
 Site 953, A:347; B:118  
*fistulosus*, *Globigerinoides*  
 Site 951, A:114  
 Site 953, B:115–116, 118  
*floridanus*, *Cyclicargolithus*  
 Site 950, A:73  
 Site 952, B:517  
 Site 956, A:519  
*Florisphaera profunda*, Site 953, B:87, 90  
*flos*, *Micrantholithus*, Site 950, B:519  
*fohsii*, *Globorotalia*, Site 953, A:347; B:121  
*fohsii* s.l., *Globorotalia*, Site 955, A:453  
*Fontbotia wuellerstorfi*, Site 955, A:453  
*formosus*, *Coccoolithus*, Site 950, B:505, 516  
*Geminilithella rotula*, Site 952, B:518  
*Gephyrocapsa caribbeanica*  
 Site 952, A:151  
 Site 953, B:85  
*Gephyrocapsa "caribbeanica"*  
 Site 953, A:341  
 Site 955, A:449  
 Site 956, A:517  
*Gephyrocapsa oceanica*  
 Site 952, A:149  
 Site 953, A:341  
*Gephyrocapsa "oceanica,"* Site 953, B:84–85,  
 87–89, 94  
*Gephyrocapsa omega*, Site 953, B:84–85, 87–89,  
 94

- Gephyrocapsa parallela*, Site 953, B:84–85, 87–89, 94
- Gephyrocapsa* spp.  
Site 951, A:114, 118  
Site 953, A:341–342; B:84–87, 93–95, 116  
Site 954, A:409  
Site 955, A:449
- Globigerina bulloides*, Gran Canaria, B:118
- Globigerina calida calida*  
Site 951, A:118  
Site 952, A:151  
Site 953, A:347; B:99, 116  
Site 954, A:411  
Site 955, A:453
- Globigerina calida praecalida*, Gran Canaria, B:116
- Globigerina* cf. *Globigerina bulloides*, Gran Canaria, B:116
- Globigerina decoraperta*, Site 950, A:74
- Globigerina druryi*, Site 953, A:347
- Globigerina falconensis*, Site 953, B:116
- Globigerina nepenthes*  
Site 950, A:71, 74  
Site 951, A:121  
Site 952, A:152  
Site 953, A:347; B:99, 115, 119, 121–122  
Site 954, A:411; B:103  
Site 955, A:453  
Site 956, A:519–520; B:108, 112
- Globigerina rubescens*, Gran Canaria, B:118
- Globigerina* spp.  
Gran Canaria, B:118  
Site 953, B:75–78
- Globigerina woodi*, Site 952, A:152
- Globigerinella aequilateralis*  
Site 954, A:411; B:116  
Site 955, A:453
- Globigerinita glutinata*, Site 953, B:75–78, 116, 118
- Globigerinita* spp., Site 953, B:75–78
- Globigerinoides conglobatus*, Gran Canaria, B:120–121
- Globigerinoides diminuta*, Site 956, A:520
- Globigerinoides extremus*, Site 955, B:107
- Globigerinoides fistulosus*  
Site 951, A:114  
Site 953, B:115–116, 118
- Globigerinoides kennetti*, Site 952, A:152
- Globigerinoides obliquus*  
Site 952, A:152  
Site 954, A:411
- Globigerinoides obliquus extremus*, Site 954, B:116–118
- Globigerinoides ruber*  
Site 953, B:75–78, 116, 118  
Site 954, A:411  
Site 955, A:453
- Globigerinoides sacculifer*  
Site 954, A:411  
Site 955, A:453
- Globigerinoides sicanus*, Site 955, A:453
- Globigerinoides* spp.  
Site 950, A:75  
Site 953, B:75–78
- Globigerinoides trilobus*  
Site 951, A:121  
Site 952, A:152  
Site 953, A:347  
Site 954, A:412  
Site 956, A:520
- Globoconella* spp., Site 953, B:75–78
- Globoquadrina altispira*  
Site 950, A:74  
Site 951, A:119
- Site 954, A:411–412
- Globoquadrina baroemoenensis*  
Site 954, A:411  
Site 955, A:453
- Globoquadrina dehiscens*  
Site 950, A:74  
Site 951, A:121  
Site 953, A:347; B:101, 112, 115, 120–122  
Site 954, A:411–412  
Site 955, A:453  
Site 956, A:520
- Globoquadrina venezuelana*  
Site 950, A:74–75  
Site 953, A:347
- Globorotalia aff. Globorotalia hirsuta*, Gran Canaria, B:120
- Globorotalia aff. hirsuta hirsuta*, Gran Canaria, B:117
- Globorotalia archeomenardii*  
Site 955, A:453  
Site 956, A:520
- Globorotalia cf. lenguaensis*, Site 951, A:121
- Globorotalia cibaensis*, Gran Canaria, B:120
- Globorotalia conoidea*, Site 950, A:74
- Globorotalia conomicozea*  
Site 950, A:74  
Site 953, A:347; B:118, 121  
Site 954, A:411  
Site 955, A:453  
Site 956, A:519
- Globorotalia conomicozea* Zone, Gran Canaria, B:121
- Globorotalia continuosa*  
Site 954, A:411  
Site 955, A:453
- Globorotalia crassaformis*  
Site 950, A:74  
Site 952, A:151–152  
Site 954, A:411; B:116, 118  
Site 955, A:453
- Globorotalia crassaformis hessi*, Gran Canaria, B:116
- Globorotalia crassaformis viola*, Gran Canaria, B:116
- Globorotalia crassula*, Gran Canaria, B:117–118
- Globorotalia exilis*  
Site 952, A:152  
Site 953, A:347; B:118–119
- Globorotalia fohsi*, Site 953, A:347; B:121
- Globorotalia fohsi* s.l., Site 955, A:453
- Globorotalia hirsuta*  
Gran Canaria, B:116–117, 120  
Site 955, A:453
- Globorotalia inflata*  
Site 950, A:73  
Site 951, A:118–119  
Site 952, A:151  
Site 953, A:347; B:75–78, 116, 118  
Site 954, A:411  
Site 955, A:453  
Site 956, A:519
- Globorotalia juanai*  
Site 950, A:71, 74  
Site 953, A:341, 347; B:121  
Site 954, A:409, 411  
Site 955, A:449, 453  
Site 956, A:519
- Globorotalia kugleri*  
Site 950, A:74  
Site 952, A:151, 164–165
- Globorotalia lenguaensis*  
Site 950, A:74
- Site 953, A:347; B:121
- Site 955, A:453
- Globorotalia margaritae*  
Site 950, A:71, 74  
Site 952, A:151  
Site 953, A:346–347  
Site 954, A:411, 413; B:103, 115, 119–122  
Site 955, A:453; B:107  
Site 956, A:519
- Globorotalia margaritae evoluta*, Gran Canaria, B:120
- Globorotalia margaritae margaritae*, Gran Canaria, B:120
- Globorotalia margaritae primitiva*, Gran Canaria, B:120–121
- Globorotalia mayeri*, Site 953, A:347; B:121
- Globorotalia mediterranea*, Site 950, A:74
- Globorotalia menardii*  
Gran Canaria, B:116  
Site 952, A:151
- Globorotalia menardii cultrata*  
Site 951, A:119  
Site 952, A:151  
Site 953, A:347
- Globorotalia menardii menardii*  
Site 951, A:119  
Site 952, A:151  
Site 953, A:347  
Site 954, A:411  
Site 955, A:453
- Globorotalia menardii plexus*, Site 950, A:73
- Globorotalia miocenica*  
Site 950, A:74  
Site 951, A:119  
Site 952, A:151  
Site 953, A:347  
Site 954, A:411  
Site 955, A:453  
Site 956, A:519
- Globorotalia miozea*  
Site 950, A:74  
Site 954, A:411; B:121
- Globorotalia multicamerata*  
Site 953, A:347  
Site 954, A:411  
Site 955, A:453; B:107  
Site 956, A:519
- Globorotalia peripheroacuta*  
Site 955, A:453  
Site 956, A:520
- Globorotalia peripheroronda*  
Site 950, A:74  
Site 952, A:152  
Site 953, A:347  
Site 955, A:453  
Site 956, A:520
- Globorotalia pertenuis*, Gran Canaria, B:118–119
- Globorotalia plesiotumida*, Site 954, A:411; B:120–121
- Globorotalia praemargaritae*, Gran Canaria, B:121
- Globorotalia pseudomiocenica*, Gran Canaria, B:120
- Globorotalia puncticulata*  
Site 950, A:74  
Site 951, A:119, 121  
Site 952, A:151  
Site 953, A:347; B:75–78, 118–119  
Site 955, A:453  
Site 956, A:519
- Globorotalia siakensis*  
Site 953, A:347  
Site 954, A:411  
Site 955, A:453
- Globorotalia tosaensis*, Gran Canaria, B:116
- Globorotalia truncatulinoides*

- Site 950, A:71, 73  
 Site 951, A:114, 118  
 Site 952, A:151  
 Site 953, A:341, 343, 346–347; B:115–116,  
   118, 121, 123  
 Site 954, A:409, 411  
 Site 955, A:453  
 Site 956, A:519  
*Globorotalia tumida*  
   Gran Canaria, B:120–121  
 Site 951, A:114  
 Site 952, A:151  
 Site 955, B:107  
*Globorotalia tumida plesiotumida*, Gran Canaria,  
   B:121  
*Globorotaloides* cf. *suteri*, Site 952, A:152  
*glomerosa circularis*, *Praeorbulina*, Site 955,  
   A:453  
*glomerosa curva*, *Praeorbulina*, Site 955, A:453  
*glomerosa glomerosa*, *Praeorbulina*, Site 955,  
   A:453  
*glutinata*, *Globigerininita*, Site 953, B:75–78, 116,  
   118  
*grandis*, *Chiasmolithus*, Site 950, B:505
- hamatus*, *Discoaster*  
   Site 950, B:503  
   Site 952, A:149; B:507, 517  
   Site 953, A:346; B:89, 99, 101–102, 112  
   Site 954, A:409  
   Site 955, A:449–450; B:105, 107  
   Site 956, A:518–519  
*haqii*, *Reticulofenestra*, Site 953, B:89  
*Hayella aperta*, Site 950, B:518  
*Helicosphaera acuta*, Site 953, B:84–86, 90, 94  
*Helicosphaera ampliaperta*  
   Gran Canaria, B:458  
   Site 950, B:503  
   Site 951, A:118  
   Site 952, B:518  
   Site 953, A:346; B:92  
   Site 955, A:450; B:107  
*Helicosphaera compacta*, Site 950, B:518  
*Helicosphaera euphratis*, Site 952, B:518  
*Helicosphaera orientalis*, Site 950, B:518  
*Helicosphaera perch-nielsenae*, Site 952, B:518  
*Helicosphaera sellii*  
   Site 953, A:341–342; B:84–86, 90, 94  
   Site 955, A:449  
   Site 956, A:517  
*Helicosphaera stalis*, Site 950, B:518  
*heteromorphus*, *Sphenolithus*  
   Gran Canaria, B:458  
   Site 950, A:73; B:503, 505  
   Site 951, A:118; B:507  
   Site 952, B:507, 520  
   Site 953, A:346; B:89, 91–92  
   Site 955, A:450; B:107  
   Site 956, A:519  
*hirsuta*, *Globorotalia*  
   Gran Canaria, B:116–117, 120  
   Site 955, A:453  
*hirsuta*, *Globorotalia* aff. *Globorotalia*, Gran  
   Canaria, B:120  
*hirsuta hirsuta*, *Globorotalia* aff., Gran Canaria,  
   B:117  
*Hirsutella* spp., Site 953, B:75–78  
*humerosa*, *Neogloboquadrina*, Site 953, B:76–78  
*huxleyi*, *Emiliania*  
   Site 950, A:71  
   Site 951, A:114  
   Site 952, A:149  
   Site 953, A:341  
   Site 954, A:409
- Site 955, A:449  
 Site 956, A:517
- inflata*, *Globorotalia*  
   Site 950, A:73  
   Site 951, A:118–119  
   Site 952, A:151  
   Site 953, A:347; B:75–78, 116, 118  
   Site 954, A:411  
   Site 955, A:453  
   Site 956, A:519  
*Isthmolithus recurvus*, Site 950, A:73; B:505, 518
- juanai*, *Globorotalia*  
   Site 950, A: 71, 74  
   Site 953, A:341, 347; B:121  
   Site 954, A:409, 411  
   Site 955, A:449, 453  
   Site 956, A:519
- kennetti*, *Globigerinoides*, Site 952, A:152  
*kugleri*, *Discoaster*  
   Site 952, B:507, 517  
   Site 953, A:346; B:91–92, 102, 112  
*kugleri*, *Globorotalia*  
   Site 950, A:74  
   Site 952, A:151, 164–165
- lacunosa*, *Pseudoemiliania*  
   Site 950, A:73  
   Site 951, A:114  
   Site 952, A:149  
   Site 953, A:341; B:85, 116  
   Site 954, A:409  
   Site 955, A:449  
   Site 956, A:517  
*lenguaensis*, *Globorotalia*  
   Site 950, A:74  
   Site 953, A:347; B:121  
   Site 955, A:453  
*lenguaensis*, *Globorotalia* cf., Site 951, A:121  
*Lithostromation perdurum*, Site 950, B:518  
*loeblichii*, *Discoaster*  
   Site 950, A:73; B:503  
   Site 953, A:346; B:88–89, 101, 112  
   Site 954, A:409  
   Site 955, A:449
- macintyrei*, *Calcidiscus*  
   Site 952, B:516  
   Site 953, A:341–342; B:85  
   Site 954, A:409  
   Site 955, A:449  
   Site 956, A:517; B:109  
*macintyrei*, *Calcidiscus* aff., Site 953, B:91  
*margaritae*, *Globorotalia*  
   Site 950, A:71, 74  
   Site 952, A:151  
   Site 953, A:346–347  
   Site 954, A:411, 413; B:103, 115, 119–122  
   Site 955, A:453; B:107  
   Site 956, A:519  
*margaritae evoluta*, *Globorotalia*, Gran Canaria,  
   B:120  
*margaritae margaritae*, *Globorotalia*, Gran  
   Canaria, B:120  
*margaritae primitiva*, *Globorotalia*, Gran Canaria,  
   B:120–121  
*mayeri*, *Globorotalia*, Site 953, A:347; B:121  
*mayeri*, *Paragloborotalia*  
   Site 954, A:411  
   Site 955, A:453  
   Site 956, A:520  
*mediterranea*, *Globorotalia*, Site 950, A:74
- Menardella* spp., Site 953, B:75–78  
*menardii*, *Globorotalia*  
   Gran Canaria, B:116  
   Site 952, A:151  
*menardii cultrata*, *Globorotalia*  
   Site 951, A:119  
   Site 952, A:151  
   Site 953, A:347  
*menardii menardii*, *Globorotalia*  
   Site 951, A:119  
   Site 952, A:151  
   Site 953, A:347  
   Site 954, A:411  
   Site 955, A:453  
*menardii plexus*, *Globorotalia*, Site 950, A:73  
*Micrantholithus flos*, Site 950, B:519  
*minutula*, *Reticulofenestra*, Site 953, B:89  
*Minylitha convallis*  
   Site 950, B:503  
   Site 951, B:505  
   Site 952, B:507, 519  
   Site 953, B:88–89, 101  
   Site 954, A:409; B:103, 112  
   Site 955, B:105  
*miocenica*, *Globorotalia*  
   Site 950, A:74  
   Site 951, A:119  
   Site 952, A:151  
   Site 953, A:347; B:99, 118–120  
   Site 954, A:411  
   Site 955, A:453  
   Site 956, A:519  
*miopelagicus*, *Coccilithus*  
   Site 952, B:516  
   Site 953, A:346; B:89, 91  
   Site 954, A:409  
   Site 956, A:518–519; B:109  
*miozea*, *Globorotalia*  
   Site 950, A:74  
   Site 954, A:411; B:121  
*moriformis*, *Sphenolithus*, Site 953, B:89  
*multicamerata*, *Globorotalia*  
   Site 953, A:347  
   Site 954, A:411  
   Site 955, A:453; B:107  
   Site 956, A:519
- Neogloboquadrina acostaensis*  
   Site 950, A:71  
   Site 953, A:347; B:76–78, 101  
   Site 954, A:411; B:103, 118, 120–122  
   Site 955, A:453  
   Site 956, A:519–520; B:108, 112
- Neogloboquadrina* cf. *continuosa*  
   Site 951, A:121  
   Site 953, A:347
- Neogloboquadrina continuosa*, Site 953, A:347  
*Neogloboquadrina dutertrei*, Site 953, B:76–78,  
   116, 118
- Neogloboquadrina humerosa*, Site 953, B:76–78
- Neogloboquadrina pachyderma*  
   Site 950, A:73  
   Site 951, A:119  
   Site 953, A:347; B:75–78, 116, 118  
   Site 954, A:411  
   Site 955, A:453
- Neogloboquadrina* spp., Site 953, B:75–78, 121
- neohamatus*, *Discoaster*  
   Site 950, B:503  
   Site 952, A:151  
   Site 953, B:89
- neorectus*, *Discoaster*  
   Site 953, B:89  
   Site 954, A:409

Site 955, A:449  
*nepenthes, Globigerina*  
 Site 950, A:71, 74  
 Site 951, A:121  
 Site 952, A:152  
 Site 953, A:347; B:99, 115, 119, 121–122  
 Site 954, A:411; B:103  
 Site 955, A:453  
 Site 956, A:519–520; B:108, 112  
*nitescens, Coronocyclus*  
 Site 952, B:517  
 Site 953, B:92  
*nodifer, Discoaster*, Site 952, B:517  
  
*oamaruensis, Chiasmolithus*, Site 950, A:87  
*obliquiloculata, Pulleniatina*  
 Site 954, A:411  
 Site 955, A:453  
*obliquiloculata obliquiloculata, Pulleniatina*  
 Site 951, A:119  
 Site 952, A:151  
 Site 953, A:347  
*obliquus, Globigerinoides*  
 Site 952, A:152  
 Site 954, A:411  
*obliquus extremus, Globigerinoides*, Site 954, B:116–118  
*oceania, Gephyrocapsa*  
 Site 952, A:149  
 Site 953, A:341  
“oceania,” *Gephyrocapsa*, Site 953, B:84–85, 87–89, 94  
*omega, Gephyrocapsa*, Site 953, B:84–85, 87–89, 94  
*Orbulina* sp., Site 954, A:411  
*Orbulina universa*  
 Site 953, A:347  
 Site 954, A:411–412; B:116  
*Oridorsalis umbonatus*, Site 955, A:453  
*orientalis, Helicosphaera*, Site 950, B:518  
*ovatus, Bicolumnus*, Site 950, B:516  
  
*pachyderma, Neogloboquadrina*  
 Site 950, A:73  
 Site 951, A:119  
 Site 953, A:347; B:75–78, 116, 118  
 Site 954, A:411  
 Site 955, A:453  
*Paragloborotalia mayeri*  
 Site 954, A:411  
 Site 955, A:453  
 Site 956, A:520  
*parallela, Gephyrocapsa*, Site 953, B:84–85, 87–89, 94  
*pelagicus, Coccolithus*, Site 953, B:87, 90, 94  
*pentaradiatus, Discoaster*  
 Site 950, A:73; B:503  
 Site 951, A:118  
 Site 952, A:164; B:507  
 Site 953, A:343, 346; B:87  
 Site 954, A:409  
 Site 955, A:449  
 Site 956, A:517  
*perch-nielsenae, Helicosphaera*, Site 952, B:518  
*perdurum, Lithostromation*, Site 950, B:518  
*peripheroacuta, Globorotalia*  
 Site 955, A:453  
 Site 956, A:520  
  
*peripheroronda, Globorotalia*  
 Site 950, A:74  
 Site 952, A:152  
 Site 953, A:347  
 Site 955, A:453  
 Site 956, A:520

*pertenuis, Globorotalia*, Gran Canaria, B:118–119  
*petaliformis, Discoaster*, Site 953, B:92  
*petrae, Solidopons*, Site 952, B:519  
*plesiotumida, Globorotalia*, Site 954, A:411; B:120–121  
*pliopelagicus, Coccolithus*, Site 953, B:88, 94  
*praemargaritae, Globorotalia*, Gran Canaria, B:121  
*Praeorbulina glomerosa circularis*, Site 955, A:453  
*Praeorbulina glomerosa curva*, Site 955, A:453  
*Praeorbulina glomerosa glomerosa*, Site 955, A:453  
*predistentus, Sphenolithus*, Site 950, B:520  
*premacintyrei, Calcidiscus*  
 Site 952, B:516  
 Site 953, A:346; B:91  
*pretentaradiatus, Discoaster*, Site 952, A:151  
*primus, Amaurolithus*  
 Site 950, B:503  
 Site 951, B:505  
 Site 952, B:507, 516  
 Site 953, B:88  
 Site 955, A:449  
 Site 956, A:518  
*productus, Dictyococcites*, Site 953, B:85, 89, 92  
*profunda, Florisphaera*, Site 953, B:87, 90  
*Pseudoemiliania lacunosa*  
 Site 950, A:73  
 Site 951, A:114  
 Site 952, A:149  
 Site 953, A:341; B:85, 116  
 Site 954, A:409  
 Site 955, A:449  
 Site 956, A:517  
*pseudomicenica, Globorotalia*, Gran Canaria, B:120  
*pseudoradians, Sphenolithus*, Site 950, B:520  
*pseudoumbilicus, Reticulofenestra*  
 Site 950, A:73; B:503  
 Site 951, A:118, 131; B:505  
 Site 952, A:149, 151, 165; B:507, 519  
 Site 953, A:341–342, 346; B:87–89, 92–95  
 Site 954, A:409; B:103  
 Site 955, A:449; B:105, 107  
 Site 956, A:517; B:108  
*Pulleniatina finalis*  
 Site 951, A:119  
 Site 953, A:347; B:118  
*Pulleniatina obliquiloculata*  
 Site 954, A:411  
 Site 955, A:453  
*Pulleniatina obliquiloculata obliquiloculata*  
 Site 951, A:119  
 Site 952, A:151  
 Site 953, A:347  
*Pulleniatina* sp., Gran Canaria, B:120  
*puncticulata, Globorotalia*  
 Site 950, A:74  
 Site 951, A:119, 121  
 Site 952, A:151  
 Site 953, A:347; B:75–78, 118–119  
 Site 955, A:453  
 Site 956, A:519  
  
*quinqueramus, Discoaster*  
 Site 950, A:71, 73; B:503  
 Site 951, A:114, 118; B:505  
 Site 952, A:151; B:507, 517  
 Site 953, A:341, 346; B:87–88  
 Site 954, A:409  
 Site 955, A:449  
 Site 956, A:517  
  
*recurvus, Isthmolithus*, Site 950, A:73; B:505, 518  
*Reticulofenestra asanoi*  
 Site 950, A:73  
 Site 951, A:118  
 Site 952, A:149  
 Site 953, A:341; B:83–85, 89, 93–94  
 Site 954, A:409; B:103  
 Site 955, A:449  
*Reticulofenestra hagini*, Site 953, B:89  
*Reticulofenestra minutula*, Site 953, B:89  
*Reticulofenestra pseudoumbilicus*  
 Site 950, A:73; B:503  
 Site 951, A:118, 131; B:505  
 Site 952, A:149, 151, 165; B:507, 519  
 Site 953, A:341–342, 346; B:87–89, 92–95  
 Site 954, A:409; B:103  
 Site 955, A:449; B:105, 107  
 Site 956, A:517; B:108  
*Reticulofenestra pseudoumbilicus paracme*  
 Site 953, A:346  
 Site 956, A:518  
*Reticulofenestra rotaria*  
 Site 950, B:503  
 Site 951, B:505  
 Site 952, B:507, 519  
*Reticulofenestra* spp., Site 953, B:85  
*Reticulofenestra umbilicus*, Site 950, A:87; B:505, 519  
*rotaria, Reticulofenestra*  
 Site 950, B:503  
 Site 951, B:505  
 Site 952, B:507, 519  
*rotula, Geminolithella*, Site 952, B:518  
*ruber, Globigerinoides*  
 Site 953, B:75–78, 116, 118  
 Site 954, A:411  
 Site 955, A:453  
*rubescens, Globigerina*, Gran Canaria, B:118  
*rugosus, Ceratolithus*  
 Site 952, A:151  
 Site 953, B:87  
*rugosus, Triquetrorhabdulus*  
 Site 950, B:503  
 Site 951, B:507  
 Site 952, A:149; B:507, 520  
 Site 953, B:88, 91  
 Site 954, A:409  
  
*sacculifer, Globigerinoides*  
 Site 954, A:411  
 Site 955, A:453  
*saipanensis, Discoaster*, Site 950, B:505, 514, 517  
*schlumbergeri, Sigmoilopsis*, Site 955, A:453  
*sellii, Helicosphaera*  
 Site 953, A:341–342; B:84–86, 90, 94  
 Site 955, A:449  
 Site 956, A:517  
*seminulina, Sphaeroidinellopsis*  
 Site 950, A:74  
 Site 953, A:347; B:119, 121  
 Site 954, A:411  
 Site 955, A:453  
 Site 956, A:519–520  
*siakensis, Globorotalia*  
 Site 953, A:347  
 Site 954, A:411  
 Site 955, A:453  
*sicanus, Globigerinoides*, Site 955, A:453  
*Sigmoilopsis schlumbergeri*, Site 955, A:453  
*signus, Discoaster*  
 Site 950, B:505  
 Site 952, B:518  
*Solidopons petrae*, Site 952, B:519  
*Sphaeroidinella dehiscens*

- Site 955, A:453  
Site 956, A:519
- Sphaeroidinellopsis disjuncta*  
Site 955, A:453  
Site 956, A:520
- Sphaeroidinellopsis seminulina*  
Site 950, A:74  
Site 953, A:347; B:119, 121  
Site 954, A:411  
Site 955, A:453  
Site 956, A:519–520
- Sphaeroidinellopsis* spp., Site 956, A:520
- Sphenolithus abies*  
Site 952, A:151; B:519  
Site 953, B:89
- Sphenolithus belemnos*  
Site 950, B:505  
Site 952, B:519
- Sphenolithus ciperoensis*, Site 950, A:73; B:505, 519
- Sphenolithus compactus*, Site 953, B:89
- Sphenolithus conicus*, Site 953, B:89
- Sphenolithus distentus*, Site 950, B:505, 520
- Sphenolithus heteromorphus*  
Gran Canaria, B:458  
Site 950, A:73; B:503, 505  
Site 951, A:118; B:507  
Site 952, B:507, 520  
Site 953, A:346; B:89, 91–92  
Site 955, A:450; B:107  
Site 956, A:519
- Sphenolithus moriformis*, Site 953, B:89
- Sphenolithus predistentus*, Site 950, B:520
- Sphenolithus pseudoradians*, Site 950, B:520
- Sphenolithus* spp.  
Site 950, A:73  
Site 951, A:118  
Site 953, A:346; B:87–88, 91–96  
Site 954, A:409  
Site 955, A:449  
Site 956, A:517
- stalis*, *Helicosphaera*, Site 950, B:518
- subdisticha*, *Ericsonia*, Site 950, B:505
- surculus*, *Discoaster*  
Site 950, A:73  
Site 951, A:118  
Site 952, A:151; B:518  
Site 953, A:343; B:87  
Site 954, A:409; B:103  
Site 956, A:517
- suteri*, *Globorotaloides* cf., Site 952, A:152
- takayamae*, *Cryptococcolithus*  
Site 952, B:517  
Site 953, B:88
- tamalis*, *Discoaster*  
Site 950, A:73  
Site 951, A:118  
Site 952, A:151  
Site 953, A:346; B:87  
Site 954, A:409  
Site 955, A:449; B:107  
Site 956, A:517
- tanii* ssp. *ornatus*, *Discoaster*, Site 950, B:518
- tosaensis*, *Globorotalia*, Gran Canaria, B:116
- tricorniculatus*, *Amaurolithus*  
Site 950, B:503  
Site 953, A:346  
Site 956, A:517
- trilobus*, *Globigerinoides*
- Site 951, A:121  
Site 952, A:152  
Site 953, A:347  
Site 954, A:412  
Site 956, A:520
- Triquetrorhabdulus challengerii*, Site 952, B:520
- Triquetrorhabdulus rugosus*  
Site 950, B:503  
Site 951, B:507  
Site 952, A:149; B:507, 520  
Site 953, B:88, 91  
Site 954, A:409
- triradiatus*, *Discoaster*  
Site 951, A:118  
Site 952, A:151, 164  
Site 953, A:342; B:87
- tropicus*, *Calcidiscus*, Site 952, B:516
- truncatulinoides*, *Globorotalia*  
Site 950, A:71, 73  
Site 951, A:114, 118  
Site 952, A:151  
Site 953, A:341, 343, 346–347; B:115–116, 118, 121, 123  
Site 954, A:409, 411  
Site 955, A:453  
Site 956, A:519
- tumida*, *Globorotalia*  
Gran Canaria, B:120–121  
Site 951, A:114  
Site 952, A:151  
Site 955, B:107
- tumida plesiostumida*, *Globorotalia*, Gran Canaria, B:121
- umbilicus*, *Reticulofenestra*, Site 950, A:87; B:505, 519
- umbonatus*, *Oridorsalis*, Site 955, A:453
- universa*, *Orbulina*  
Site 953, A:347  
Site 954, A:411–412; B:116
- variabilis*, *Discoaster*, Site 952, B:518
- venezuelana*, *Globoquadrina*  
Site 950, A:74–75  
Site 953, A:347
- woodi*, *Globigerina*, Site 952, A:152
- wuellerstorfi*, *Fontbotia*, Site 955, A:453
- Zeaglobigerina* spp., Site 953, B:75–78  
zones (with letter prefixes)  
CN1a, Site 950, A:73  
CN2, Site 950, B:505, 513  
CN3, A:73, 341, 346, 450, 519; B:92–93, 505, 507, 513  
CN4, A:349, 450, 519; B:92, 458, 505, 507  
CN4/CN5, Gran Canaria, B:463  
CN5, A:71, 73, 118, 151, 409, 411, 423, 519; B:91–92, 102, 458  
CN5a, A:349; B:507  
CN5a/b, Site 953, A:346, 349  
CN5b, A:450, 519; B:503, 507  
CN6, A:346, 349, 409, 411, 423, 519; B:89, 91, 103, 503, 505  
CN6/CN7, Site 954, A:411; B:103  
CN7, A:71, 73, 151, 346, 409, 411, 423, 450, 518; B:89, 503, 505, 513  
CN8, Site 953, B:89  
CN8a, Site 955, B:105, 507  
CN8b, A:346, 409, 449, 518; B:505, 507
- CN9, A:118, 151; B:87–89, 513  
CN9a, A:346, 409; B:507  
CN9b, A:73, 118, 151, 349, 413, 518; B:503, 505, 507  
CN10, A:341, 346, 449, 515, 517; B:87  
CN10a, Site 951, A:118  
CN10c, A:118, 151  
CN10d, A:118, 151  
CN11, A:151, 517; B:87  
CN11a, Site 955, A:449  
CN11b, A:118, 151, 346, 409; B:105  
CN12, Site 953, B:87  
CN12/CN11, Site 956, B:108  
CN12a, A:118, 151, 343, 346, 449; B:87, 105, 108  
CN12b, A:118, 343, 409, 517; B:105, 108  
CN12c, A:118, 151, 343, 413, 449, 517; B:87, 105  
CN12d, A:118, 151, 449, 517; B:84  
CN13, Site 954, A:409; B:102  
CN13a, A:73, 151, 449; B:84, 105, 108  
CN13b, A:151, 341, 449, 453, 517; B:84–85  
CN13b/CN13a boundary, Site 953, B:85  
CN14, Site 952, A:149  
CN14a, A:73, 114, 118, 149, 409, 449, 453, 517; B:108  
CN14a/CN13b boundary, Site 953, B:84  
CN14b, A:114, 341  
CN14b–CN15, Site 956, A:517  
CN14b/15, Site 954, A:409  
CN15, A:71, 114, 149, 341, 409, 517; B:84  
CN15/CN14, Site 955, A:449  
CN15/CN14 boundary, Site 953, B:84  
CP15a, Site 950, B:505, 513  
CP15b, Site 950, B:505  
CP16a, Site 950, B:505  
CP16b, Site 950, B:505  
CP16c, Site 950, B:505  
CP17, Site 950, B:505  
CP19, Site 950, A:73; B:513  
M6, Site 955, A:453  
M7, A:152, 412, 519  
M7/M10, Site 954, A:411  
M8, A:453, 520  
M8/M7, Site 955, A:453  
M9, A:121, 152  
M9/M10, Gran Canaria, B:121  
M10/M9, Site 955, A:453  
M11, A:121, 152, 347, 411–412, 520; B:102, 108, 121  
M11/M12, Site 956, A:519  
M12, A:453; B:105, 108, 121  
M13, A:347, 411, 453, 519; B:105  
M13/M12, Site 950, A:71  
M13/PL1, Site 953, A:347  
N22, A:73, 118, 151, 343, 411, 453, 519  
N22/PL6 boundary, Site 956, A:519  
N23, A:73, 118, 151, 411, 453, 519  
PL1, A:74, 121, 151–152, 347, 411, 449, 453, 519; B:105, 120  
PL1/M13, Site 954, A:411  
PL2, A:74, 151, 347, 519; B:108, 120  
PL3, A:347, 519; B:102, 108  
PL4, A:74, 347, 411, 453, 519; B:108  
PL5, A:74, 119, 121, 151, 453; B:105  
PL6, A:74, 119, 151–152, 411, 449, 453, 519; B:105  
R, Site 952, A:151
- Zygrhablithus bijugatus*, Site 950, B:520