

INDEX TO VOLUME 152

This index covers both the *Initial Reports* and *Scientific Results* portions of Volume 152 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 914, for example, is given as “Site 914, A:53–71.”

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 152 SUBJECT INDEX

- aa lavas, lava flows, A:126–127
- acanthostromyloles, Site 918, B:192, 196
- acanthostyles, Site 918, B:192, 196
- acanthotylostyles, Site 918, B:192, 196
- acanthoxeas, Site 918, B:192, 196
- accretion, crust, A:291; B:515–516
- Aegir Ridge, physiography, A:6–7
- Aeolian Islands, obsidian, B:85–91
- aeromagnetic profiles, Greenland Margin SE, A:289
- age
- basement, B:484, 486–488
 - eruptions, B:510
 - foraminifers, B:244–245
 - lava, B:387–402
 - strontium isotopes, B:237–238
 - See also* chronostratigraphy; dating; stratigraphy
- age vs. depth
- Site 914, A:67
 - Site 915, A:82
 - Site 918, A:226; B:237, 269, 297
 - Site 919, B:246, 269
 - Sites 914–917, A:175
- albite
- alteration minerals, B:131–133
 - lithologic units, A:116
 - mineral chemistry, B:137, 139
 - photograph, B:144
- algae
- biostratigraphy, B:201–208
 - Cenozoic, B:221–231
- alkali metals
- geochemical data, A:99
 - interstitial waters, B:297–299
 - sediments, A:236, 270
- alkaline earths
- geochemical data, A:99
 - interstitial waters, B:296–297
 - lava flows, A:137–139
 - sediments, A:235, 270
- alkalinity
- geochemical data, A:98–99
 - sediments, A:234–235
 - vs. depth, A:102, 238, 271
- alkalis, lava flows, A:137–139
- alteration
- basalts, A:229
 - geochemical data, A:100
 - lava flows, A:134–135
 - lithologic units, A:60–62, 116
 - metamorphism, B:419–423
 - photograph, B:144
 - volcanic rocks, B:334, 336–337
 - volcaniclastics, B:115–128
 - volcanics, B:304
 - X-ray fluorescence, B:426–427
 - See also* basalts, altered; basalts, weathered; diagenesis; lava flows, altered; metamorphism; weathering
- aluminum
- vs. noninterlayer cation total, B:421
 - See also* iron/aluminum ratio
- aluminum oxide
- basalts, B:363, 365–366
 - experimental liquids, B:366
 - vs. depth, B:423
 - vs. magnesium oxide, B:61, 100
 - vs. silica, B:23, 62, 102
- X-ray fluorescence, B:426
- See also* calcium oxide/aluminum oxide ratio
- ammonium
- geochemical data, A:98–99
 - sediments, A:234–235
 - vs. depth, A:102, 238, 271
- amphibole, lithologic units, A:77
- amphibolite facies, contamination, B:508–509
- amphidiscs, Site 918, B:192, 198
- analcite
- alteration, B:426
 - lava flows, A:134–135
 - mineral chemistry, B:419
 - occurrence, B:418
- anorthite, composition, B:408
- Arctic Ocean, physiography, A:6–7
- argon isotopes
- age, B:486, 510
 - correlation, B:391–393, 396–397, 399–400
 - correlation diagrams, B:111
 - lava, B:387–402
 - tephra, B:105, 107
 - vs. calcium/potassium ratio, B:109
 - vs. potassium, B:109
- ash layers, units, B:102
- Atlantic Ocean N
- biostratigraphy, B:175–176
 - correlation, B:204–205
 - paleoclimatology, B:247–248
 - plate tectonics, B:482, 505–506
 - volcanic rocks, B:315–330
 - See also* North Atlantic Deep Water; North Atlantic Rifted Margins Detailed Planning Group; North Atlantic Tertiary Volcanic Province
- Atlantic Ocean NE
- physiography, A:6–7
 - rifted margins, A:5–16
- bands, photograph, A:95
- barium
- metasedimentary rocks, B:135–137
 - X-ray fluorescence, B:426
- barium/niobium ratio
- basalts, B:491
 - vs. depth, B:489
- barium/zirconium ratio
- basalts, A:229, 279–281; B:491
 - volcanic rocks, B:339–340, 342
 - vs. depth, A:139; B:378
 - vs. silica, B:320–321
 - vs. zirconium/niobium ratio, A:287
- basaltic composition, volcanic ash, B:70–71, 79–84
- Basaltic Igneous Unit I, magnetostratigraphy, A:223–224
- basalts
- alteration, A:229
 - breakup volcanism, A:287–288
 - composition, A:229; B:376
 - fractionation, B:318–321
 - isotopes, B:355–356
 - lithologic units, A:78, 204–205
 - low pressure experiments, B:359–372
 - magnetic susceptibility, B:276–278
 - margins, A:12–15
 - petrology, A:80–81, 279–281
 - rare earths, B:481
 - seismic properties, B:453–462
- X-ray fluorescence data, A:83
- See also* clasts, basaltic; lava, basaltic; metabasalts; picrite
- basalts, altered, photograph, B:127
- basalts, aphyric
- lava flows, A:132–133
 - petrography, A:228
- basalts, aphyric-olivine
- lava flows, A:132
 - photograph, A:131, 134
- basalts, olivine-aphyric, petrography, B:404–405
- basalts, olivine-phyric
- lava flows, A:132
 - petrography, B:404–405
- basalts, olivine-plagioclase-clinopyroxene-phyric, lava flows, A:132
- basalts, olivine-plagioclase-phyric
- lava flows, A:132
 - petrography, B:404–405
- basalts, plagioclase-phyric, lava flows, A:132
- basalts, plagioclase-pyroxene-phyric, petrography, A:228
- basalts, weathered, clays, B:119, 121
- basement
- age, B:484, 486–488
 - magnetostratigraphy, A:224
 - paleomagnetism, B:259–264
 - sedimentation, A:281–282
 - volcanism, A:49–50
- basins
- correlation, B:520–521
 - crust, B:521–522
 - genesis, A:282–283
- basins, starved, lithologic units, A:208
- bedding
- histograms, B:446–447
 - photograph, B:131
- bedding planes, lithologic units, A:93
- beidellite, mineral chemistry, B:421
- bioevents, Cenozoic, B:163, 166, 169, 173
- biogenic components, sediments, A:234–235, 270
- biomagnetostratigraphy, correlation, A:265–266
- biomarkers, sediments, B:285
- bioprovinces, planktonic foraminifers, B:176–177
- biosiliceous debris, Paleogene, B:249–250
- biostratigraphic summary
- Site 918, A:210–223
 - Site 919, A:265–266
- biostratigraphy
- Bolboforma*, B:201–208
 - calcareous nannofossils, B:147–160
 - planktonic foraminifers, B:161–189
 - Site 914, A:62–64
 - Site 915, A:78
 - Site 916, A:94, 96
 - Site 917, A:117–119
 - Site 918, A:208–219
 - Site 919, A:264–266
 - summary, A:80–81
- biotite
- metasedimentary rocks, B:132–133
 - photograph, B:144
- bioturbation
- lithologic units, A:60–62, 76–78
 - paleoenvironment, B:289
 - sediments, A:61, 94, 200, 206–208
 - See also* burrows
- bivalves, photograph, A:201
- blue reflector, lithologic units, B:14–16

- Bolboforma*, biostratigraphy, A:218–219; B:201–208
- Bopladsdalen Formation, stratigraphy, B:225
- borehole elongation, vs. depth, B:445
- boron
 geochemical data, A:99
 sediments, A:237
 vs. depth, A:102, 239
- bottom waters, development, A:283
- breccia
 flows, A:229
 lava flows, A:129–131
 lithologic units, A:78; B:102–103
See also lava, brecciated
- breccia, scoriaceous, magnetic susceptibility, B:277, 279
- breccia, volcanic
 lithologic units, A:94
 photograph, A:95
- brecciation, lava flows, B:338–339
- Brunhes Chron, magnetostratigraphy, A:221–224
- Brunhes/Matuyama boundary, magnetostratigraphy, B:268–269
- burrows
 lithologic units, A:116, 196, 198, 204
 metasedimentary rocks, B:130–131
 sediments, A:61, 94, 200–201, 208
See also bioturbation
- calcite
 lava flows, A:135
 lithologic units, A:60–62
 photograph, A:228–229
 veins, B:120
 vs. depth, A:134
- calcite, dendritic, photograph, A:96
- calcium
 metasedimentary rocks, B:135
 sediments, A:272; B:20, 23
 vs. depth, A:102, 238, 271; B:295, 298
 vs. magnesium, B:295, 298
 vs. sodium/chloride ratio, B:298
 weathered basalt, B:119, 121
See also magnesium/calcium ratio; potassium/calcium ratio
- calcium/potassium ratio, vs. argon isotopes, B:109
- calcium oxide
 basalts, A:229; B:363, 365–366
 experimental liquids, B:366
 vs. depth, B:24, 423
 vs. magnesium oxide, A:229, B:61, 100
 vs. silica, B:23, 62, 102
 vs. titanium oxide, B:103
See also potassium oxide/calcium oxide ratio
- calcium oxide/aluminum oxide ratio
 basalts, B:365
 vs. magnesium oxide, B:367
- caliper logs
 vs. depth, A:128
 vs. hole elongation, A:149; B:445
- carbon
 metasedimentary rocks, B:135
 sediments, A:67, 82–83, 230, 269
 temperature, B:138
- carbon, organic, Cenozoic, B:283–292
- carbon, organic/nitrogen ratio, vs. depth, A:100, 233; B:284–285
- carbon, total, organic
 vs. carbon, organic/nitrogen ratio, A:233
 vs. depth, A:67, 83, 100, 231, 269; B:284
 vs. total nitrogen, A:83, 231, 269
- carbon isotopes, foraminifers, B:243–248
- carbon number, *n*-alkanes, B:291
- carbonate content
 metasedimentary rocks, B:135
 sediments, A:230, 269
 Site 915, A:83, 100, 231, 269
 vs. depth, A:67
- celadonite, mineral chemistry, B:421
- celadonite/smectite mixed mineral, alteration, B:426
- cement, glauconitic, photograph, A:203
- cementation, lithologic units, A:62
- Cenozoic
 biostratigraphy, B:161–189
Bolboforma, B:201–208
 clays, B:39–49
 isotope stratigraphy, B:233–241
 organic carbon, B:283–292
 paleoenvironment, B:51–52
 palynomorphs, B:221–231
 sponge spicules, B:191–199
See also Holocene; Paleogene; Pleistocene; Quaternary; Tertiary
- cerium
 metasedimentary rocks, B:136
 X-ray fluorescence, B:427
- cerium/yttrium ratio
 volcanic rocks, B:342
 vs. silica, B:343
 vs. zirconium/niobium ratio, B:322–324
- chabazite
 alteration, B:426
 lava flows, A:134–135
 occurrence, B:418
 phase equilibria, B:419–420
- chalk, massive, photograph, A:200
- chalk, nannofossil
 lithologic units, A:196, 198, 204
 photograph, A:201, 203–204, 207
- channel–levee complexes, sedimentation, B:8–17
- channels, sedimentation, B:8–17
- chloride
 interstitial waters, B:299–300
 sediments, A:236–237, 270
 vs. depth, A:103, 239, 272; B:296, 300, 303
 vs. oxygen isotopes, B:296
- chlorine. *See* sodium/chlorine ratio
- chlorite
 alteration minerals, B:131
 lithologic units, A:116
 metamorphism, B:422–423
 mineral chemistry, B:137, 140–141, 420–422
 Pearson correlation coefficients, B:43, 46
 photograph, B:144
 vs. depth, B:42
- chlorite/smectite mixed mineral, mineral chemistry, B:420–422
- chromium, metasedimentary rocks, B:136
- chromium oxide, spinels, B:407
- Chron 23n, magnetostratigraphy, B:223–224, 511, 513, 518
- Chron 23r
 age, B:486
 magnetostratigraphy, B:223–224
- Chron 24n
 continental margin, A:288–292; B:511, 513
 magnetostratigraphy, B:223–224
- Chron 24r
 age, B:484, 486–488, 510–513
 continental margin, A:288–292; B:505
 correlation, A:79
 demagnetization, B:263–264
 seismic reflectors, A:9
- Chron 25r
 continental margin, A:288–292; B:513
 demagnetization, B:264
- Chron 26r
 age, B:484, 486–488, 511
 demagnetization, B:264
 Chron 27n, continental margin, A:288–292; B:394
 Chron 27r, age, B:486, 511
 Chron C1r, biomagnetostratigraphy, A:265–266
 Chron C2n, biomagnetostratigraphy, A:265–266
 Chron C12r, magnetic polarity, A:66
 Chron C13n, magnetic polarity, A:66
 Chron C13r, magnetic polarity, A:66
 Chron C15n, magnetic polarity, A:66
 Chron C18r, correlation, A:79
 Chron C19n, correlation, A:80
 Chron C22n–C21n, seafloor spreading anomalies, B:463–464
 Chron C23n, aeromagnetic profiles, A:289
 Chron C24, seismic reflectors, A:6
 Chron C24n, aeromagnetic profiles, A:289
 Chron C24n–C24r, seafloor spreading anomalies, B:463–464
 Chron C24r
 lava, A:119
 magnetostratigraphy, A:223–224
 sediments, A:97
 Chron C26r, seismic reflectors, A:6
 Chron C27n, seismic reflectors, A:6
 chronostratigraphy
 Paleogene, A:15–16
See also age; dating; stratigraphy
 chrons. *See* cryptochrons; magnetochrons
 clasts
 composition, A:169
 diamicton, A:169
 lithologic units, A:57–62, 92
 photograph, A:95
 clasts, basaltic, photograph, A:79
 clasts, clayey, photograph, B:127
 clasts, gravel, lithology, A:93
 clasts, rip-up, photograph, A:202
 clasts, vitric, photograph, B:112
 clay
 grain size, B:39–49
 lithologic units, A:261–264
 photograph, B:128
 volcanoclastics, B:122
 vs. depth, B:42
 weathering, B:117
See also clasts, clayey
 clay, green, photograph, A:132
 clay, silty, lithologic units, A:261–264
 clay minerals
 distribution and chemistry, B:417–424
 mineral chemistry, B:420–422
 sediments, B:39–49
 vs. depth, A:134; B:42
See also beidellite; celadonite; celadonite/smectite mixed mineral; chlorite/smectite mixed mineral; illite; kaolinite; smectite
 claystone, metamorphosed
 lithologic units, A:115–116
See also metaclaystone
 clinochlore, mineral chemistry, B:421
 clinoptilolite
 mineral chemistry, B:419–420
 volcanoclastics, B:122
 clinopyroxene
 basalts, B:404–405
 crust, B:344
 photograph, B:113
 X-ray fluorescence, B:428
See also basalts, olivine-plagioclase-clinopyroxene-phyric
 cobalt
 metasedimentary rocks, B:136

- X-ray fluorescence, B:427
- cobbles
 lithologic units, A:170–173
 petrology, A:80–81
- compressional wave velocity
 lava, B:458
 Site 916, A:105
 summary, A:87
 vs. density, B:460
 vs. depth, A:70, 240–241, 245–248, 273, 275
 vs. porosity, B:460
 vs. resistivity, B:460
 vs. shear wave velocity, B:459
 vs. unit thickness, B:461
- conglomerate
 lithologic units, A:78
 units, B:102–103
- conglomerate, volcanic, lithologic units, A:115, 170–173
- contamination
 crust, B:318–321, 343–344, 351–357, 493–494
 lava flows, A:137–139; B:400
 lithosphere, B:508–509
- continent/ocean transition
 Greenland Margin SE, B:463–475, 528–529
 seismic reflectors, A:9–12
 transgression, B:516–517, 522
- continental breakup, isotopes, B:351–356, 398, 503–533
- continental margin
 breakup, A:5–16
 history, A:288–292
 subsidence, A:282–283
- continental rise
 morphology, B:5–6
 sedimentation, B:3–18
 sediments, B:19–28
- continental shelf
 Greenland E, A:49–52; B:29–38
 stratigraphy, A:159–175
- continental slope
 morphology, B:5–6
 sedimentation, B:3–18
- Continental Succession, stratigraphy, B:508–509, 514–515
- contour processes, sedimentation, B:3–18
- convection, basalts, B:481
- copper, metasedimentary rocks, B:136
- copper, native, vs. depth, A:134
- correlation, Paleogene, B:253–257
- correlation coefficients
 clay minerals, B:43, 46
 X-ray fluorescence, B:428
- Cretaceous
 basins, B:520
 metamorphism, B:139
- cross laminations
 lithologic units, A:202
 photograph, A:203
- crust
 accretion, A:291; B:510, 515–516
 contamination, B:318–321, 343–344, 351–357, 493–494
 continent/ocean transition, B:463–475
 fractional crystallization, B:355
 kinematics, A:6–9
 lava flows, B:488–489
 models, B:472–473
 structure, B:518–522
See also mantle; Mohorovicic discontinuity
 crust, lower, reflectors, B:471–472
 crust, oceanic, volcanism, B:468–469
 crust, upper, reflectors, B:469–471
- crustal wedges, models, B:474
- cryptochrons
 demagnetization, B:263–264
See also magnetochrons
- cryptochrons 1–11, age, B:511, 513
- crystallization, pyroxenes, B:409–411
- currents, deep-sea, B:6–7
- dacite
 lava flows, A:133–134
 petrography, B:405
 photograph, A:130, 134
- dating
 tephra, B:54–55, 105, 107
 volcanics, B:71
See also age; chronostratigraphy; stratigraphy
- debris flows
 photograph, B:127
 sediments, A:97
See also pyroclastic flows
- debris flows, ice-rafted
 deposition, A:283, 286–287
 geochemistry, B:26–28
 photograph, sediments, A:199
- debris flows, polymict
 deposition, A:171
 intervals, A:172
- debrites, lithologic units, A:170–173
- deltaic environment
 sedimentation, A:281–282
 volcanics, B:123–125
- deltaic sediments, lithostratigraphy, B:119
- demagnetization
 projection, A:82
 sediments, A:96–97; B:266
 Zijderveld diagrams, B:254, 262–263
- demagnetization, alternating-field
 lava, A:121; B:261–262
 plots, A:66
- demagnetization, thermal, lava, B:262–263
- Denmark Strait
 morphology, B:5–6
 paleoceanography, A:283; B:156
- Denmark Strait Overflow Water, currents, B:6–10
- density
 crust, B:471
 vs. compressional wave velocity, B:460
 vs. depth, A:69, 85, 104, 127, 143
- density, bulk, vs. depth, A:128
- density, discrete, vs. depth, A:240–241, 273
- density, GRAPE, vs. depth, A:240–241, 273
- density logs, vs. depth, B:442, 457
- density–natural gamma ray logs, A:156–158
- deposition, Neogene–Quaternary, B:29–38
- diagenesis
 interstitial waters, B:307
 saponite, B:423
 strontium isotopes, B:236–237
- diamicton
 lithologic units, A:57–62, 76, 92, 167–168, 195–196
 lithology, A:93
 photograph, A:60, 93
- diatoms
 biostratigraphy, B:209–219
 Paleogene, B:249–250
 dikes, histograms, B:446, 448
 dinoflagellates, Cenozoic, B:221–231
 dischordals, Site 918, B:193, 197
 Dohrn Bank, currents, B:6–7
 downhole measurements, A:145–151; B:453–462
- drifts
 sedimentation, B:8–17
 stratigraphy, B:14–17
- dropstones
 composition, A:196
 distribution, A:263
 ice-rafted debris, A:283; B:154, 156
 lithologic units, A:57–62, 92, 113–114, 167–168, 194–196, 262–264
 photograph, A:59, 197, 200
 rock types, A:264
 vs. depth, A:196
 Dye 3 Site, tephra, B:53, 64
- East Greenland Current, development, B:156
- East Greenland Margin
 alteration, B:115–128
 biostratigraphy, B:161–189
 evolution, B:26–27
 interstitial waters, B:307–311
 metamorphic rocks, B:129–144
 site description, A:53–71
See also Greenland Margin; Southeast Greenland Transect
- East Greenland Shelf
 depositional history, B:29–38
 site description, A:73–87, 89–105, 107–158
 stratigraphy, A:159–175
 volcanics, B:93–113
- ebriidians
 continental rise, B:191–199
 Paleogene, B:249–250
- EG63 Transect
 seafloor spreading anomalies, B:463–464
 seismic reflectors, A:9–12
See also Southeast Greenland Transect
- Eirik Ridge, sedimentation, B:8, 17
- electrical logs, structures, B:439–451
- electron probe microanalysis, interlaboratory comparison, B:85–91
- elements, incompatible, primitive mantle, B:378–379
- Eocene
 biostratigraphy, B:147–160, 165
Bolboforma, B:201–208
 clays, B:41–46
 diatoms, B:249–250
 laterite-derived facies, B:117
 lithologic units, A:60–62, 76–78, 92–94, 114–115, 204
 magnetostratigraphy, B:253–257
 margins, A:12–15
 paleoenvironment, B:289
 sedimentation, A:281–282
 sponge spicules, B:191–199
 stratigraphy, B:225
- epidote
 lithologic units, A:77
 metasedimentary rocks, B:132–133
- erosion
 crust, A:291–292
 deposition, A:173
 history, B:517
 lithologic units, B:34–36
- eruptions
 volcanism, B:486–489, 515
See also volcanism
- ethane, sediments, A:82, 230–231, 269
- factor analysis, clay minerals, B:44, 47
- Faeroe–Iceland–Greenland Ridge, physiography, A:6–7
- Faeroes Plateau, volcanic rocks, B:347, 505
- Faeroes Plateau Lava Group, eruptions, B:488
- fan deposition, lithologic units, A:208
- fault zones
 histograms, B:446

structure, B:518–519
 faulting, crust, B:470
 faults, lava flows, A:129–131
 faults, normal
 lithologic units, A:116
 photograph, A:95
 feldspar
 age, B:106–111
 composition, B:105
 photograph, B:113, 131, 144
 provenance, B:20
 See also albite; anorthite; plagioclase
 Feni Drift, sedimentation, B:15
 flexure zones, coast-parallel, crust, B:466
 flow, mantle, B:526–530
 flow banding, density, B:449
 fluid composition, metamorphism, B:422–423
 fluvial environment
 deposition, A:171–173
 volcaniclastics, B:123–125
 foraminifers, strontium isotopes, B:233–241
 foraminifers, benthic
 biostratigraphy, A:62–64, 78, 96, 118–119, 215–218, 264–265
 list of selected species, A:64
 foraminifers, planktonic
 biostratigraphy, A:62, 78, 94, 96, 118, 209–215, 264; B:161–189
 Quaternary, B:243–248
 formation microscanner logs
 seismic properties, B:456
 Site 917, A:147
 structural analysis, B:442–445
 fractional crystallization, crust, B:355
 fractionation
 basalts, B:318–321, 376–380
 lava flows, A:135–137
 olivine, B:369–371
 volcanic glass, B:368–369
 fracture zones, density, B:450
 fractures
 formation microscanner logs, B:443, 445
 lava flows, A:129–131
 photograph, A:228
 stress, B:447–448
 vs. depth, A:134

 gamma-ray logs
 lithostratigraphy, B:440–441
 vs. depth, A:69, 85, 104, 127, 143, 150, 240–241, 273; B:442
 See also density–natural gamma ray logs; resistivity–velocity–natural gamma-ray logs
 garnet, crust, B:344
 gases, headspace, sediments, A:234, 270
 Gauss Chron, magnetostratigraphy, A:222
 geochemical logs, vs. depth, A:128
 Geochemical Stage 1, sediments, B:20, 26
 Geochemical Stage 2, sediments, B:26
 Geochemical Stage 3, sediments, B:20, 23, 26
 Geochemical Stage 4, sediments, B:20, 26
 Geochemical Stage 6, sediments, B:20, 23, 26
 Geochemical Stage 7, sediments, B:20, 26
 geochemistry
 interlaboratory comparison, B:85–91
 interstitial waters, B:293–305, 307–311
 magmas, B:479–501
 sediments, B:19–28
 tephra, B:97–99
 volcanic glass, B:67–84
 geochemistry, inorganic
 Site 914, A:67
 Site 915, A:83

Site 916, A:97–101
 Site 918, A:231–237
 Site 919, A:269–272
 geochemistry, organic
 Site 914, A:66–67
 Site 915, A:82–83
 Site 916, A:97
 Site 918, A:229–231
 Site 919, A:267–269
 summary, A:84
 geopetal structures
 photograph, A:132
 vs. depth, A:134
 geothermometry
 chlorite, B:138
 metamorphism, B:422–423
 gibbsite
 deltaic sediments, B:119
 Eocene–Oligocene, B:125
 photograph, B:128
 volcaniclastics, B:122–124
 glacial debris, isotopes, B:294–296
 glaciation
 clay minerals, B:44–48
 lithologic units, B:34–36
 onset, A:283, 286–287; B:154, 156
 oxygen-isotope signal, B:301
 sedimentation, B:29–30, 36–38
 shelf, A:174
 stable isotopes, B:247–248
 glaciofluvial deposits, lithologic units, B:34–36
 glaciomarine environment, lithologic units, A:167–168
 glaciomarine sediments, deposition, A:286–287
 glauconite
 lithologic units, A:62, 198, 204–205; B:14, 46
 photograph, A:202–203
 subsidence, A:282–283
 See also hardgrounds, glauconitic; pellets, glauconitic
 glaucony
 photograph, sediments, A:201–203
 volcaniclastics, B:122
 gneiss, contamination, B:508–509
 goethite
 deltaic sediments, B:119
 grain size, B:120
 volcaniclastics, B:122–124
 weathering, B:117
 grain size
 clays, B:39–49
 sediments, A:173
 tephra, B:54–56
 vs. depth, A:262
 granulite facies, contamination, B:508–509
 graphite
 metasedimentary rocks, B:132–133
 photograph, B:144
 temperature, B:138
 gravel
 lithologic units, A:57–62, 92, 113–114, 167–168, 914–917
 photograph, A:115, 206
 See also clasts, gravel; conglomerate; pebbles
 gravity modeling, geology, B:472–473
 Greenland
 glaciation, A:283, 286–287
 tephra, B:53
 See also East Greenland Margin; Norwegian–Greenland Sea; Southeast Greenland Transect
 Greenland E, continental shelf, A:49–52
 Greenland Fracture Zone, physiography, A:6–7
 Greenland Margin

downhole measurements, B:453–462
 magnetic susceptibility, B:271–280
 palynomorphs, B:221–231
 silicoflagellates, B:191–199
See also East Greenland Margin; Southeast Greenland Transect
 Greenland Margin SE
 aeromagnetic profiles, A:289
 basaltic lavas, B:359–372
 biostratigraphy, B:147–160, 249–250
 breakup, A:5–16
 continent–ocean transition, B:463–475
 lava, B:387–402
 magmas, B:479–501
 magnetostratigraphy, B:253–257
 mantle, B:373–386
 secondary minerals, B:417–424
 sedimentation, B:3–18
 sediments, B:19–28
 site description, A:177–256
 structures, B:439–451
 tectonics and volcanism, B:503–533
 volcanic rocks, B:315–357, 425–429
 Greenland Ridge. *See* Faeroe–Iceland–Greenland Ridge
 Greenland–Scotland Ridge, sedimentation, B:249
 greensand
 photograph, A:208–209
 sedimentation, A:281–282
 greenschist facies
 P–T conditions, B:137–138, 520
 petrology, A:80–81
 greigite, magnetic susceptibility, B:273
 Gyldenløves Trough, sedimentation, B:29–30, 36–38

 hafnium
 metasedimentary rocks, B:136–137
 See also lutetium/hafnium ratio
 hafnium/lutetium ratio, basalts, B:493
 hardgrounds
 lithologic units, A:198, 204–205; B:46
 subsidence, A:282–283
 hardgrounds, glauconitic, photograph, A:202–203
 hardgrounds, manganese, photograph, A:207
 Hatton Bank
 crust, B:472
 lava, B:395, 398, 431–435
 lava flows, B:488
 transects, A:13–14
 volcanic rocks, B:347
 Hatton Margin, volcanic rocks, B:324–325
 heat flow, Greenland Margin SE, A:249–251
 hematite
 magnetic susceptibility, B:279
 weathering, B:117
 heulandite group
 alteration, B:426
 mineral chemistry, B:419–420
 phase equilibria, B:420
 hexactines, Site 918, B:192
 hiatuses
 lithologic units, A:198
 subsidence, A:282–283
 volcanism, B:514
 See also unconformities
 holmium. *See* yttrium/holmium ratio
 holmium/lanthanum ratio
 volcanic ash, B:79–80
 vs. age, B:84
 Holocene, seawater signal, B:304
 hotspots
 emplacement, B:522–528
 kinematics, A:6–9

- hydrocarbons. *See* ethane; methane; propane
hydrocarbons, volatile
 geochemistry, A:82
 sediments, A:97, 269
hydroclastics, sediments, A:15
hydrogen index
 vs. depth, B:284
 vs. oxygen index, A:100, 233
hysteresis
 magnetic susceptibility, B:274–277
- ice cores, tephra, B:53
ice rafting
 reworking, B:195
 sediments, A:97
 See also debris flows, ice-rafted; glaciation
- Iceland
 crustal models, B:472–473
 physiography, A:6–7
 plumes, B:385, 479–501
 tephra transport, B:51–64
 volcanic ash, B:67–84
 volcanic rocks, B:345–346, 431–435
Iceland Plateau, physiography, A:6–7
Iceland Plume, mantle, A:14–15
Iceland–Scotland overflows, currents, B:6–10
igneous petrology
 Site 915, A:80–82
 Site 917, A:121–140
 Site 918, A:225–229
igneous rocks
 composition, A:60; B:489–493
 logs, A:283
 petrology, A:279–281
igneous units
 lithology, A:123–125, 225–227
 magnetostratigraphy, A:223–224
 petrology, A:121–126, 279–281
 photograph, A:129–134
 stratigraphy, B:507–510
 tops and bases, A:123, 227
 vs. depth, A:143
illite
 deltaic sediments, B:119
 Pearson correlation coefficients, B:43, 46
 vs. depth, B:42
ilmenite, lava, B:412
Imassuak Channel, sedimentation, B:8
index properties
 sediments, A:67–68, 84–85, 273–274
 Site 916, A:102–103, 105, 142–143
 Site 918, A:239–244
 Site 919, A:273–274
 summary, A:86
 vs. depth, A:69
interlaboratory comparison, tephrochronology, B:85–91
interstitial waters
 geochemistry, A:84, 97–101; B:293–305, 307–311
 sediments, A:67, 235–236
 See also pore water
- Irminger Basin
 biostratigraphy, B:147–160
 clays, B:39–49
 deep-sea currents, B:6–7, 15–17
 evolution, B:26–27
 formation, A:5–16
 general development, A:282
 genesis, A:282–283
 interstitial waters, B:293–305
 isotope stratigraphy, B:243–248
 magnetostratigraphy, B:253–257, 265–269
 paleoceanography, A:283
- subsidence, A:208
tephra transport, B:51–64
volcanic ash, B:67–84
volcaniclastics, B:93–113
iron, spinels, B:407
iron, total
 vs. sodium oxide, B:321–322
 vs. total iron/(total iron+magnesium) ratio, B:142
iron, total/(total iron+magnesium) ratio
 vs. silicon, B:142
 vs. total iron, B:142
iron number, vs. depth, B:422
iron oxide
 experimental liquids, B:366
 vs. depth, B:24
 vs. magnesium oxide, B:61, 100, 371
 vs. silica, B:23, 62, 102
 vs. sulfur, B:101
 See also greigite; hematite; limonite; magnetite
iron oxide/magnesium oxide ratio (mineral), vs. iron oxide/magnesium oxide ratio (liquid), B:365
iron-titanium oxides
 mineral chemistry, B:411–412, 416
 See also ilmenite
iron/aluminum ratio, vs. titanium/aluminum ratio, B:297
isochelae, Site 918, B:192, 197
isochrons, age, B:390
isopachs, lithologic units, B:30–36
isotope stratigraphy
 Cenozoic, B:233–241
 Quaternary, B:243–248
isotopes
 correlation, B:210–211
 volcanic rocks, B:351–357
 See also carbon isotopes; lead isotopes; lithium isotopes; neodymium isotopes; oxygen isotopes; stable isotopes; strontium isotopes
- Jan Mayen Fracture Zone, physiography, A:6–7
Jan Mayen Island, physiography, A:6–7
Jaramillo Subchron, magnetostratigraphy, A:221; B:268
- Kangerlussuaq Basin, pre-rifting sediments, B:520–521
kaolinite
 grain size, B:120
 Pearson correlation coefficients, B:43, 46
 volcaniclastics, B:122–124
 vs. depth, B:42
 weathering, B:117
Katla caldera, tephra, B:64
kerogen
 sediments, B:285
 See also hydrocarbons; organic matter
Knipovich Ridge, physiography, A:6–7
Koenigsberger ratio, vs. depth, A:122
Kolbeinsey Ridge, physiography, A:6–7
Krabbedalen Formation, stratigraphy, B:225
- laboratory comparison, X-ray fluorescence, B:425
Labrador Sea Water, currents, B:6–10, 15
lahars, units, B:102–103
Laki 1783 eruption, tephra, B:53
lanthanum
 X-ray fluorescence, B:427
 See also holmium/lanthanum ratio
lanthanum/niobium ratio, vs. zirconium/niobium ratio, B:383
- lanthanum/samarium ratio
 basalts, B:491
 vs. depth, B:378, 490
 vs. lanthanum/thorium ratio, B:382
 vs. lutetium/hafnium ratio, B:382
lanthanum/thorium ratio
 volcanic rocks, B:339–340, 342
 vs. lanthanum/samarium ratio, B:382
 vs. silica, B:343
lanthanum/ytterbium ratio, basalts, B:491
lapillistone
 photograph, B:113
 units, B:103–105
laterite-derived facies, lithofacies, B:117
lava
 age, B:387–402, 486
 alteration, B:115–128
 composition, B:315–330, 479–501
 crust, B:466
 emplacement, A:290–291
 eruptions, B:486–489
 fracture zones, B:450
 geochemistry, B:80–84
 Lower and Middle Series, B:450
 magnetic susceptibility, B:271–280
 photograph, A:130
 seismic properties, B:453–462
 seismic reflectors, A:6–9
 stratigraphy, B:509
 Tertiary, Atlantic Ocean, A:12–14
 X-ray fluorescence, B:425–426
 See also aa lavas; pahoehoe lavas; volcanic eruptions
lava, basaltic
 composition, B:431–435
 lithologic units, A:115
 low pressure experiments, B:359–372
 paleomagnetism, B:259–264
lava, brecciated, photograph, A:133
lava flows
 alteration, A:134–135
 basalts, A:280–281
 breakup volcanism, A:287–288
 brecciation, B:338–339
 crust, B:344
 geochemistry, B:341, 489–491
 magma sources, A:137–139
 morphology, A:227–228
 morphology and lithology, A:126–129
 petrography, A:228
 petrology, A:131–134
 photograph, A:115, 129–134
 picrite, B:369–371
 position, A:284
 stratigraphy, A:135–137
 structure, A:129–131, 228
 thickness vs. depth, A:126
 volcanic margins, B:488
lava flows, altered, volcaniclastics, B:122
lead, vs. depth, B:24
lead-206/lead-204 ratio
 vs. lead-207/lead-204 ratio, B:354, 492
 vs. lead-208/lead-204 ratio, B:355, 492
lead-207/lead-204 ratio, vs. lead-206/lead-204 ratio, B:354, 490
lead-208/lead-204 ratio, vs. lead-206/lead-204 ratio, B:355, 490
lead isotopes
 volcanic rocks, B:351–357, 489–490
 vs. strontium isotopes, B:354
leucoxene, metasedimentary rocks, B:132
lid effect, lithospheric thinning, B:384
limonite, lithologic units, A:76
Lipari, obsidian, B:85–91

- liptodetrinite, sediments, B:285
 liquid lines of descent, basalts, B:363, 365–366
 lithium
 metasedimentary rocks, B:135–137
 vs. depth, A:102, 238, 272; B:299, 301
 lithium isotopes
 interstitial waters, B:294, 302–304
 vs. depth, B:303
 lithofacies, laterite-derived facies, B:117
 lithologic Unit I
 clays, B:43
 seismic stratigraphy, B:32–34
 lithologic Unit II
 clays, B:40–43
 seismic stratigraphy, B:29–32
 lithologic Unit IV, clays, B:41–43
 lithologic Unit V, clays, B:41–43
 lithologic units
 Site 914, A:57–62
 Site 915, A:75–78
 Site 916, A:91–94
 Site 917, A:113–117
 Site 918, A:195–208
 Site 919, A:261–264
 Sites 914–917, A:165–173
 Unit I, A:57–60, 75–76, 92, 113–114,
 165–166, 194–196
 Unit II, A:60–62, 76–78, 92–93, 114–115,
 166–170, 196–198
 Unit III, A:78, 94, 115, 170–173, 198,
 202–204
 Unit IV, A:115, 170–173, 204–205
 Unit V, A:115–116, 204
 Unit VI, A:116–117, 204–205
 vs. depth, A:240–241
 lithosphere
 contamination, B:508–509
 upwelling, B:380
 lithostratigraphy
 deltaic sediments, B:119
 downhole measurements, B:440–441,
 453–455
 lava flows, A:139–140
 sediments and volcanics, B:271–280
 Site 914, A:57–62
 Site 915, A:75–78
 Site 916, A:90–94, 113–117, 191–208
 Site 919, A:261–264
 Sites 914–917, A:164–173
 summary, A:285
 weathering, B:118
 loss on ignition, volcanic rocks, B:336
 Lower Series
 age, B:486
 magnetostratigraphy, B:511
 stratigraphy, B:508–509, 522
 See also Middle Series
 lutetium/hafnium ratio
 vs. depth, B:378
 vs. lanthanum/samarium ratio, B:382
 See also hafnium/lutetium ratio
 macerals
 paleoenvironment, B:289
 sediments, B:285
 magma fluxes, stratigraphy, B:514–515
 magma reservoirs, volcanism, B:348
 magmas
 breakup volcanism, A:287–288
 iron oxide, B:371
 magnesium oxide, B:494
 magmatic flux, mantle, B:525–528
 magmatism
 lava flows, A:137–139
 Tertiary, A:12–14
 magnesium
 sediments, A:272
 vs. calcium, B:295, 298
 vs. depth, A:102, 238–239, 271; B:298
 weathered basalt, B:119, 121
 See also iron, total/(total iron+magnesium)
 ratio
 magnesium/calcium ratio, vs. depth, A:271
 magnesium number
 basalts, B:366
 melting temperature, B:365
 olivine, B:406
 spinel, B:407
 volcanic rocks, B:342
 magnesium oxide
 basalts, A:229; B:344, 363, 365–366, 491, 498
 lava, B:341
 magmas, B:494
 spinel, B:407
 volcanic rocks, A:288
 vs. calcium oxide, A:229
 vs. calcium oxide/aluminum oxide ratio, B:367
 vs. depth, B:375, 394, 423
 vs. iron oxide, B:371
 vs. major oxides, B:100
 vs. oxides, B:61
 vs. silica, B:23
 vs. sulfur, B:101
 vs. temperature, B:365
 vs. titanium oxide, B:103, 316–318
 X-ray fluorescence, B:426
 See also iron oxide/magnesium oxide ratio
 (mineral)
 magnetic anomalies, margins, A:12–15
 magnetic data
 igneous rocks, A:225
 volcanic rocks, A:120
 See also aeromagnetic profiles
 magnetic declination, vs. depth, A:66
 magnetic field, vs. depth, B:444
 magnetic inclination, vs. depth, A:66, 82, 99, 121,
 225, 267; B:268
 magnetic intensity, vs. depth, A:66, 82, 99, 119
 magnetic polarity
 correlation, A:79
 depth, B:269
 sequences, A:66
 vs. depth, A:99
 magnetic properties. *See* hysteresis; median
 destructive fields
 magnetic susceptibility
 lava, B:271–280
 vs. depth, A:69, 85, 104, 121, 127, 143, 226,
 240–241, 273, 275; B:272–274, 278
 magnetite
 demagnetization, B:263–264
 magnetic susceptibility, B:273–278
 magnetochrons
 correlation, A:82
 vs. depth, A:66, 99
 See also cryptochrons
 magnetostratigraphy
 correlation, B:223–224
 Paleogene, B:253–257
 Pliocene–Pleistocene, B:265–269
 vs. depth, A:224, 267
 See also biomagnetostratigraphy
 major elements
 interstitial waters, B:307–311
 metasedimentary rocks, B:133–135
 sediments, B:19–28
 tephra, B:56
 volcanic ash, B:72–77
 volcanic rocks, B:336–338, 431–435
 manganese. *See* hardgrounds, manganese
 manganese oxide
 vs. depth, B:24
 vs. silica, B:23
 mantle
 contamination, B:353–356, 522–523
 emplacement, B:522–528
 melting, A:12–14; B:321–324
 olivine, B:316–318
 sources, B:344–346, 381–384
 volcanism, B:373–386, 398
 See also crust; Mohorovicic discontinuity
 mantle, anomalous melt-yield, emplacement,
 B:522–528
 mass accumulation rates
 organic carbon, B:285, 292
 vs. age, B:292
 Matuyama Chron, magnetostratigraphy, A:221
 Matuyama/Gauss boundary, magnetostratigraphy,
 B:268
 mechanical Unit M1, sediments, A:70–71
 mechanical Unit M2, sediments, A:70–71
 mechanical Unit M3, sediments, A:70–71
 mechanical Unit M4, sediments, A:70–71
 mechanical units
 sediments, A:70–71
 vs. depth, A:104, 240–241
 median destructive fields, vs. depth, A:122, 226
 melting
 basalts, B:359–372
 crust, B:344, 498
 mantle, A:14–15; B:321–324, 373–386
 melting, decompression, basalts, B:380
 melts
 olivine, B:369–371
 segregation, B:494–495
 Merlin reflector, lithologic units, B:15–16
 metabasalts, petrology, A:80–81
 metaclaystone
 photograph, A:116
 See also claystone, metamorphosed
 metals. *See* alkali metals; alkaline earths
 metamorphic rocks, volcanoclastics, B:129–144
 metamorphism
 age, B:139
 lithologic units, A:116
 P–T conditions, B:137–138, 422
 sediments, B:519–520
 See also greenschist facies
 metasedimentary rocks
 chemical composition, B:132, 489–490
 composition, B:129–144
 crust, B:466–467
 mineral composition, B:132
 photograph, B:144
 metasilstone
 photograph, A:116
 See also siltstone, metamorphosed
 methane
 sediments, A:82, 230–231, 269
 vs. depth, A:270
 micrite, lithologic units, A:198; B:14
 microfabric, diamicton, A:168
 microfossils
 deposition, A:286–287
 vs. depth, A:262
 Mid-Atlantic Ridge, physiography, A:6–7
 mid-ocean ridges, kinematics, A:6–9
 Middle Series
 age, B:486
 stratigraphy, B:508–509, 522
 See also Lower Series
 mineral chemistry

- clay minerals, B:420–422
volcanic rocks, B:403–416
zeolites, B:419–420
- mineral composition, lithologic units, A:171
minor elements, metasedimentary rocks,
B:133–135
- Miocene
biostratigraphy, B:147–160
clays, B:41–43, 46–47
diatoms, B:249–250
lithologic units, A:196–201; B:29–30
magnetostratigraphy, B:253–257
paleoenvironment, B:289
- Miocene/Pliocene boundary, lithologic units,
B:29–30
- moat structures, sedimentation, B:8–17
- Mohns Ridge, physiography, A:6–7
- Mohorovicic discontinuity
crust, B:471
See also crust; mantle
- monoclinical, Site 918, B:192, 196
- monaxons, Site 918, B:192
- morphology, continental slope, B:5–6
- mound structures, sedimentation, B:8–17
- mud, lithologic units, A:92
- mud, glaciomarine
lithologic units, A:57–62, 167–168
photograph, A:59
- mud, laminated, lithologic units, A:168–170
- mud, reddish, lithologic units, A:115
- mudstone, calcareous
lithologic units, A:114
photograph, A:77
- multisensor tracks
properties, A:237–239
sediments, A:272–273
Site 916, A:101–102
Site 917, A:140–141
- muscovite, metasedimentary rocks, B:132
- n*-alkanes, sediments, B:285, 289, 291–292
- nannofossils, correlation, B:255–257
- nannofossils, calcareous
biostratigraphy, A:62, 78, 94, 117, 209, 264;
B:147–160
photograph, B:158–160
- natrolite
alteration, B:426
lava flows, A:134–135
occurrence, B:418
- neodymium
metasedimentary rocks, B:136
vs. depth, B:489
vs. strontium isotopes, B:490–491
vs. zirconium/niobium ratio, B:492
- neodymium isotopes
relative stratigraphic position, B:354, 489
vs. silica, B:355
vs. zirconium, B:356
- Neogene
clays, B:46–48
deposition, B:29–38
paleomagnetism, B:265–269
volcanic ash, B:68–71
volcaniclastics, B:93–113
- Neogene, upper
geochemistry, B:25
sedimentation, B:3–18
- Neovolcanic Zone, physiography, A:6–7
- neutron activation analysis, volcanic rocks, B:334
- new taxa, *Bolboforma*, B:205
- nickel
lava flows, A:135–137
metasedimentary rocks, B:136
- olivine, B:406
vs. depth, A:126
vs. strontium, A:139
vs. titanium oxide, A:137
- niobium
metasedimentary rocks, B:136
vs. depth, B:348
vs. zirconium, B:79
X-ray fluorescence, B:427
See also barium/niobium ratio;
lanthanum/niobium ratio;
zirconium/niobium ratio
- niobium/yttrium ratio vs. zirconium/yttrium ratio,
B:84, 345–347, 496–497
- niobium/zirconium ratio
basalts, B:491
volcanic rocks, B:339–340, 342
vs. depth, B:489
- nitrogen
sediments, A:67, 82–83, 269
vs. organic carbon, A:83, 231, 269
See also carbon, organic/nitrogen ratio
- North Atlantic Deep Water
currents, B:6–10, 14–17
development, A:283; B:154, 156
early formation, A:208, 225
foraminifers, A:204
sediments, B:23
- North Atlantic Rifted Margins Detailed Planning
Group, plate tectonics, B:482
- North Atlantic Tertiary Volcanic Province
geochemistry, B:23, 25, 398, 400, 496–498
mantle, A:12–14
volcanic rocks, B:315–350, 487
- Norway Basin, physiography, A:6–7
- Norwegian–Greenland Sea, sedimentation, B:249
- obsidian, interlaboratory comparison, B:85–91
- ocean basins, physiography, A:6–7
- oceanic gateways, margins, A:15–16
- Oceanic Succession, stratigraphy, B:509, 515
- oceans. *See* continent/ocean transition
- Olduvai Subchron
biomagnetostratigraphy, A:265–266
magnetostratigraphy, A:221; B:268
- Oligocene
biostratigraphy, B:147–160
clays, B:41–43, 46
diatoms, B:249–250
lithologic units, A:60–62, 92–93, 202–204
magnetostratigraphy, B:253–257
paleoenvironment, B:289
sedimentation, A:281–282
sponge spicules, B:191–199
- olivine
alteration, B:426
basalts, B:361, 363, 365–372, 404–405
crust, B:344
fractionation, B:316–318, 369–371
mineral chemistry, B:406, 414
petrology, A:81
picrite, B:340
See also basalts, aphyric-olivine; basalts,
olivine-aphyric; basalts, olivine-phyric;
basalts, olivine-plagioclase-
clinopyroxene-phyric; basalts,
olivine-plagioclase-phyric
- olivine, experimental, composition, B:363
- olivine-plagioclase cotectic, volcanic glass,
B:368–369
- opal-CT, weathering, B:117
- Orfajökull eruption, tephra, B:53
- organic matter
paleoenvironment, B:289
- sediments, A:97, 269
See also hydrocarbons; kerogen; macerals;
n-alkanes; resins
- orthopyroxene, crust, B:344
- oxeas, Site 918, B:192, 196
- oxygen fugacity
lava, B:412–413
vs. temperature, B:413
- oxygen index, vs. hydrogen index, A:100, 233
- oxygen isotopes
foraminifers, B:243–248
interstitial waters, B:294, 301
tephra, B:54
vs. chloride, B:296
vs. depth, B:296, 302–303
- oxygen-isotope signal, Pleistocene, B:301
- P–T conditions
metamorphism, B:137–138
See also phase equilibria; pressure;
temperature
- pahoehoe lavas, lava flows, A:126–127, 139
- paleoceanography
Cenozoic, B:226–227, 283–292
diatoms, B:209–219
margins, A:15–16
nannofossils, B:147–160
Quaternary, B:243–248
- Paleocene
basins, B:520
margins, A:12–15
metamorphic rocks, B:129–144
- Paleocene, upper, plate tectonics, B:482
- paleoclimatology
Cenozoic, B:154, 156, 289
deposition, A:173
Eocene, B:226–227
margins, A:15–16
Quaternary, B:247–248
volcaniclastics, B:123–125
- paleoelevation, transgression, B:516–517
- paleoenvironment
biostratigraphy, B:161–189
Cenozoic, B:283–292
Eocene, B:225–226
foraminifers, B:243–248
sediments, A:97
transport, B:51–52
volcaniclastics, B:123–125
- Paleogene
chronostratigraphy, A:15–16
ebridians, B:249–250
lithologic units, A:92–94, 170–173
magnetostratigraphy, B:253–257
volcaniclastics, B:71, 93–113
- paleomagnetism
Neogene, B:265–269
Paleogene, B:253–257
sediments and volcanics, B:271–280
Site 914, A:64–66
Site 915, A:78–79
Site 916, A:96–97
Site 917, A:119–121; B:259–264
Site 918, A:219–224
Site 919, A:266–267
- paleosols
deposition, A:173
lithologic units, A:170–173
See also pedogenesis
- paleotopography, rifts, B:517
- paleowater
age vs. depth, A:175
depth, A:265–266
sedimentation rates, A:225

- Palmason model, seismic reflectors, A:8
- palynomorphs
Cenozoic, B:221–231
See also dinoflagellates; pollen
- paragenesis, photograph, B:128
- partial melting, picrite, B:384–385
- partition coefficients, mantle, B:381
- pebbles
photograph, A:129
See also gravel
- pedogenesis
volcaniclastics, B:121–124
See also paleosols
- pellets, lithologic units, A:198
- pellets, glauconitic, photograph, A:202, 206
- petrogenesis, volcanic rocks, B:343–344
- petrography
volcanic ash, B:68–71
volcanic rocks, B:404–405
- phase equilibria
basalts, B:361, 363, 365–372
chabazite, B:419–420
heulandite group, B:420
mantle, B:381
- phenocrysts
olivine, B:406
photograph, B:113
plagioclase, B:407, 409
- phillipsite
lava flows, A:134–135
lithologic units, A:60–62, 77
- phosphorus, metasedimentary rocks, B:135
- phosphorus oxide
experimental liquids, B:366
vs. silica, B:23
- phyllosilicates
metamorphism, B:420–423, 489–490
See also biotite; clay minerals; muscovite
- physical properties
Site 914, A:67–70
Site 915, A:83–87
Site 916, A:101–105
Site 917, A:140–145
Site 918, A:237–249
Site 919, A:272–276
- physiography, Atlantic Ocean, A:6–7
- picrite
composition, B:324–325, 489–491
lava flows, A:131–132; B:369–371
persistent volume problem, B:384–385
petrography, B:404–405
photograph, A:133
plagioclase, B:408
See also basalts
- plagioclase
basalts, B:361, 363, 365–372, 404–405
mineral chemistry, B:407–409, 415
photograph, B:112
See also albite; anorthite; basalts, olivine-plagioclase-clinopyroxene-phyric; basalts, olivine-plagioclase-phyric; basalts, plagioclase-phyric; basalts, plagioclase-pyroxene-phyric; olivine-plagioclase cotectic
- plagioclase, experimental, composition, B:363
- plate tectonics
kinematics, A:6–7; B:503–533
upper Paleocene, B:482
- Pleistocene
biostratigraphy, B:147–160, 165
diatoms, B:209–219
lithologic units, A:261–264
magnetostratigraphy, B:265–269
oxygen-isotope signal, B:301
- tephra, B:62–64
- Pliocene
biostratigraphy, B:147–160
lithologic units, A:195–196, 261–264; B:32–34
magnetostratigraphy, B:265–269
tephra, B:62–64
See also Miocene/Pliocene boundary
- Pliocene/Pleistocene transition, biostratigraphy, B:173
- plumes
inflation and depletion, B:526–530
mantle, A:14–15; B:479–501, 522–528
picrite, B:385
volcanism, B:348, 398, 503–533
- pollen, Cenozoic, B:221–231
- polyaxons, Site 918, B:192, 197
- polymictic textures, units, B:102–103
- pore water
strontium isotopes, B:236–237
See also interstitial waters
- porosity
vs. compressional wave velocity, B:460
vs. depth, A:85, 104, 240–241, 273
- potassium
metasedimentary rocks, B:135
sediments, B:20, 23
vs. argon isotopes, B:109
vs. depth, A:102, 238, 272; B:24, 299
See also calcium/potassium ratio
- potassium/calcium ratio, sediments, B:23, 25
- potassium logs, vs. depth, A:128
- potassium oxide
experimental liquids, B:366
vs. depth, B:423
vs. magnesium oxide, B:100
vs. silica, B:23, 62, 102
vs. titanium oxide, B:57, 61, 103
- potassium oxide/calcium oxide ratio
vs. depth, B:25
vs. sodium oxide/iron oxide ratio, B:26
- prehnite, lithologic units, A:116; B:520
- pressure, metamorphism, B:422
- problematic fossils, biostratigraphy, B:201–208
- propane, sediments, A:230–231, 269
- provenance, source areas, B:19–28
- pseudomorphs
clay minerals, B:418
lithologic units, A:117
- pumice, photograph, B:112–113
- pyrite
lithologic units, A:60–62
magnetic susceptibility, B:273
metasedimentary rocks, B:132
photograph, A:94
volcaniclastics, B:122
- pyroclastic flows
photograph, B:127
See also debris flows
- pyrolysis, Rock-Eval, sediments, A:234
- pyroxene
mineral chemistry, B:409–411, 416
See also basalts, plagioclase-pyroxene-phyric; clinopyroxene; orthopyroxene
- pyroxene, experimental, composition, B:364
- pyrrhotite, magnetic susceptibility, B:273
- quartz
ice-rafted debris, A:283
lithologic units, A:57–62, 174, 262–264
metasedimentary rocks, B:132–133
units, B:102–103
- quartz sandstone
metamorphic rocks, B:131–132
- photograph, B:132, 144
- Quaternary
clays, B:46–48
deposition, B:29–38
isotope stratigraphy, B:243–248
lithologic units, A:75–76, 92, 113–114, 167–168, 194–195
sedimentation, B:3–18
See also Holocene; Pleistocene; Weichselian
- rare earths
basalts, B:481, 489–491
crust, B:343–344
greenschist facies, B:138
interstitial waters, B:307–311
metasedimentary rocks, B:135–137
picrite, B:340–341
volcanic ash, B:72, 77–79
volcanic glass, B:60–64
volcanic rocks, B:431–435
X-ray fluorescence, B:428
- reaction rims, sediments, A:236–237
- reaction zones, sediments and volcanics, B:304
- recrystallization, quartz sandstone, B:131–132
- reflector D, lithologic units, B:15–16
- reflectors
crust, B:469–472
See also blue reflector; Merlin reflector; reflector D; yellow reflector
- remanent magnetization, anhysteritic
inclinations, A:219, 224
vs. depth, A:122, 226
- remanent magnetization, natural
correlation, A:267
inclinations, A:219–224
sediments, A:96–97; B:267
vs. depth, A:122
- resins, paleoenvironment, B:291
- resistivity
sediments, A:70, 86, 276
Site 916, A:103
Site 918, A:245, 248–249
vs. compressional wave velocity, B:460
vs. depth, A:71, 249–251, 276–277
- resistivity logs, vs. depth, B:442
- resistivity–velocity–natural gamma-ray logs, A:153–155
- Réunion Subchron, magnetostratigraphy, A:221; B:268
- reworking, foraminifers, B:237
- Reykjanes Ridge, physiography, A:6–7
- rhyolite, volcanic glass, B:57–64
- rifted margins
basalts, B:493, 503–533
Greenland, A:5–16
volcanic and nonvolcanic, A:5–6
- rifting
Cenozoic, B:139
continental margin, A:289–290
- rifts, paleotopography, B:517
- rock magnetism, sediments and volcanics, B:271–280
- Rockall Plateau
lava, B:387–402, 495–497
lava flows, B:488
transects, A:13–14
- Rockall Trough, sedimentation, B:15–17
- rubidium
metasedimentary rocks, B:135–137
vs. depth, B:24
X-ray fluorescence, B:426
- Ryberg Formation
basalts, A:289
Cretaceous, B:139

- unconformities, B:520
- salinity
oxygen-isotope signal, B:301
vs. depth, A:103
- samarium. *See also* lanthanum/samarium ratio
- samarium/lanthanum ratio
basalts, B:493–495
vs. relative stratigraphic position, B:493
- sand
lithologic units, A:57–62
photograph, A:202
vs. depth, B:42
- sand, amphibole-enriched, photograph, A:197
- sand, quartz, lithologic units, A:204
- sand, silty
lithologic units, A:60–62, 75–77, 93
photograph, A:61, 206
- sand, turbiditic, photograph, A:205–206
- sandstone
density, B:449
photograph, A:79, 95
See also quartz sandstone
- sandstone, calcareous
composition, A:63
lithologic units, A:60–62
- sandstone, metamorphosed, lithologic units, A:115–116
- sandstone, quartzose, lithologic units, A:115–116
- saponite
alteration, B:426
mineral chemistry, B:421
- saponite/celadonite mixed minerals, mineral chemistry, B:421
- saprolite
lithologic units, A:204
volcaniclastics, B:123
- scandium
basalts, B:344
metasedimentary rocks, B:136
vs. zirconium, B:324–325, 345
X-ray fluorescence, B:427
See also zirconium/scandium ratio
- scolecite, lava flows, A:134–135
- Scoresby Sound, volcanic rocks, B:347
- Scotland. *See* Iceland–Scotland overflows
- Scotland Ridge. *See* Greenland–Scotland Ridge
- SDRS. *See* seaward-dipping reflector sequences
- sea-level changes, Eocene, B:225–226
- seafloor spreading
seismic reflectors, A:6–9
spreading rates, B:512, 521–522
structure, B:518–519
- seafloor spreading anomalies, crust, B:463–464
- seafloor spreading systems, stratigraphy, B:509
- seaward-dipping reflector sequences, A:6–16; B:470–501, 506–528
- seawater signal, Holocene, B:304
- secondary minerals
distribution and chemistry, B:417–424
vs. depth, A:134
- sedimentary structures, lithologic units, A:116
- sedimentation
basement, A:281–282
continental rise, B:3–18
events and age, A:286
lithologic units, A:208
transport, B:51–52
volcaniclastics, B:123–125
- sedimentation rates
age vs. depth, A:175
geochemical data, A:98–99
magnetostratigraphy, B:268–269
Site 914, A:66
- Site 915, A:79–80
- Site 916, A:97
- Site 917, A:121
- Site 918, A:224–225
- Site 919, A:267
- Sites 914–917, A:173–174
- sedimentology
metasedimentary rocks, B:129–131
volcanic ash, B:68–71
- sediments
age, B:139
alteration, B:115–128
clays, B:39–49
correlation, B:520–521
geochemistry, B:19–28
magnetic susceptibility, B:271–280
magnetostratigraphy, B:265–269
pre-rifting, B:519–520
succession, A:50–51
volcanic ash, B:95–113
- sediments, alluvial, photograph, A:115
- sediments, prebasaltic, crust, B:466–467
- segregation, melts, B:494–495
- seismic data, Greenland SE, B:4–16
- seismic facies, sedimentation, B:8–17
- seismic profiles
Atlantic Ocean, A:42; B:4–16
crust, B:466–469
Site 918, A:190–191
Site 919, A:260
Sites 914–917, A:160, 162–165, 281, 284; B:31–36
- seismic properties, lava, B:453–462
- seismic reflectors
basalts, A:280–281
sediments, A:50–51
sequences, A:6–9
velocity, A:159–160
See also seaward-dipping reflector sequences
- seismic sequences, continental slope, B:7–17
- seismic stratigraphy
lava, B:460–461
Sites 914–917, A:159–164; B:29–36
- seismic waves
propagation, B:460–461
See also compressional wave velocity
- seismograms, synthetic
vs. two-way traveltime, A:150
well-log units, A:149
- Senja Fracture Zone, physiography, A:6–7
- Sequence 1, sediments, A:50–51
- Sequence 2, sediments, A:50–51
- Sequence 3, sediments, A:50–51
- Sequence 4, sediments, A:50–51
- shear strength, undrained
sediments, A:68–70, 86
Site 916, A:103
vs. depth, A:70–71
- shear wave velocity, vs. compressional wave velocity, B:459
- shelf sediments, isotopes, B:294–296
- siderite
photograph, A:94
weathering, B:117
- sideromelane, photograph, B:112
- silica
basalts, B:363, 365–366, 491
experimental liquids, B:366
geochemical data, A:99
lava, B:341
metasedimentary rocks, B:135
sediments, A:237, 270, 272
volcanic rocks, B:342
vs. age, B:71
- vs. barium/zirconium ratio, B:320–321, 343
- vs. cerium/yttrium ratio, B:343
- vs. depth, A:239, 272; B:24, 56, 423
- vs. magnesium oxide, B:61, 100
- vs. major oxides, B:23, 62, 102
- vs. neodymium isotopes, B:355
- vs. sodium oxide, Lipari, B:88–89
- vs. sodium oxide+potassium oxide, B:99
- vs. sodium oxide/potassium oxide ratio, B:26
- vs. strontium/zirconium ratio, B:343
- vs. titanium oxide, B:319
- X-ray fluorescence, B:426
- silicate, vs. depth, A:102, 239, 272
- silicic composition, volcanic glass, B:57–64
- siliciclastics, lithologic units, A:76
- silicoflagellates
continental rise, B:191–199
Paleogene, B:249–250
- silicon, vs. total iron/(total iron+magnesium) ratio, B:142
- silicon/aluminum ratio
weathered basalt, B:119, 121
zeolites, B:419–420
- silicon/iron ratio, weathered basalt, B:119, 121
- sills
composition, A:229
flows, A:227
geochemistry, B:341, 343
- silt
lithologic units, A:194–195, 196, 198, 261–264
photograph, B:128
sediments, A:199
sedimentation, A:281–282
vs. depth, B:42
- silt, clayey
lithologic units, A:76–77, 261–264
photograph, B:127
- silt, glaciomarine, lithologic units, A:113–114
- silt, massive, photograph, A:197
- silt, quartzose, lithologic units, A:196, 198, 202
- silt, sandy
lithologic units, A:60–62, 76–77, 168–170, 204
photograph, A:77
- silt, volcaniclastic
lithologic units, A:93, 114, 196
photograph, A:207–208
- siltstone, volcaniclastics, B:122
- siltstone, metamorphosed
lithologic units, A:115–116
See also metasiltstone
- similarity coefficients, geochemistry, B:87–89
- sinusoidal-spicules, Site 918, B:192, 197
- Site 338, lava eruptions, B:488
- Site 342, lava eruptions, B:488
- Site 552
lava, B:431–435
lava eruptions, B:488
- Site 553, lava, B:395, 431–435
- Site 554, lava, B:395, 431–435, 488
- Site 555, lava, B:395, 431–435, 488
- Site 914, A:53–71
biostratigraphy, A:62–64; B:147–148, 164, 250
coring, A:57
inorganic geochemistry, A:67, 97–101
interstitial waters, B:294–296
lithostratigraphy, A:57–62
magnetic susceptibility, B:272–273
magnetostratigraphy, B:253–254
operations, A:55–57
organic geochemistry, A:66–67
paleomagnetism, A:64–66

- physical properties, A:67–70
 sedimentation rates, A:66
 site description, A:53–71
- Site 915, A:73–87
 alteration, B:117
 biostratigraphy, A:78; B:148–149, 164–165, 250
 coring, A:75
 igneous petrology, A:80–82
 inorganic geochemistry, A:83, 97–101
 interstitial waters, B:294–296
 lava, B:395
 lithostratigraphy, A:75–78
 magnetostratigraphy, B:254
 operations, A:74–75
 organic geochemistry, A:82–83
 paleomagnetism, A:78–79
 palynomorphs, B:221, 225
 physical properties, A:83–87
 sedimentation rates, A:79–80
 site description, A:73–87
 summary, A:87
 volcanic rocks, B:316, 341
- Site 916, A:89–105
 alteration, B:117, 490–491
 biostratigraphy, A:94, 96; B:149, 165
 coring, A:90
 inorganic geochemistry, A:97–101
 interstitial waters, B:294–296
 lithostratigraphy, A:90–94
 magnetostratigraphy, B:254
 operations, A:90
 organic geochemistry, A:97
 paleomagnetism, A:96–97
 palynomorphs, B:221, 224–225
 physical properties, A:101–105
 sedimentation rates, A:97
 site description, A:89–105
- Site 917, A:107–158
 alteration, B:117, 119
 basaltic lavas, B:359–372
 biostratigraphy, A:117–119; B:149
 coring, A:112
 downhole measurements, A:145–151; B:453–462
 igneous petrology, A:121–140; B:489–490
 lava, B:390–395
 lithostratigraphy, A:113–117
 magnetic susceptibility, B:278–279
 magnetostratigraphy, B:254
 metamorphic rocks, B:129–144
 operations, A:110–113
 paleomagnetism, A:119–121; B:259–264
 palynomorphs, B:221–222
 physical properties, A:140–145
 secondary minerals, B:417–424
 sedimentation rates, A:121
 site description, A:107–158
 structures, B:439–451
 volcanic rocks, B:316, 338–341, 403–416, 510–512, 518–519
 volcanoclastics, B:93–113
- Site 918, A:177–256
 alteration, B:119, 121
 background and scientific objectives, A:179–182
 biostratigraphy, A:208–219; B:149–154, 165–172, 201–208, 250
 clays, B:39–49
 coring, A:192
 heat flow, A:249–251
 igneous petrology, A:225–229
 inorganic geochemistry, A:231–237
 interstitial waters, B:293–305
 isotope stratigraphy, B:233–241
 lava, B:395
 lithostratigraphy, A:191–208
 magnetic susceptibility, B:272, 275–277
 magnetostratigraphy, B:254–256, 265–269
 operations, A:182–191
 organic carbon, B:283–292
 organic geochemistry, A:229–231
 paleomagnetism, A:219–224
 palynomorphs, B:222–223, 225
 physical properties, A:237–249
 sedimentation rates, A:224–225
 sediments, B:19–28
 silicoflagellates, B:191–199
 site description, A:177–256
 subsidence, A:224–225
 volcanic ash, B:67–84
 volcanic rocks, B:316, 341, 343, 490–491, 512–513
 volcanoclastics, B:93–113
- Site 919, A:257–277
 background and scientific objectives, A:259
 biostratigraphy, A:264–266; B:154–155, 173–175, 209–219
 clays, B:39–49
 coring, A:261
 inorganic geochemistry, A:269–272
 interstitial waters, B:293–305
 isotope stratigraphy, B:233–241, 243–248
 lithostratigraphy, A:261–264
 magnetic susceptibility, B:274–277
 magnetostratigraphy, B:265–269
 operations, A:259–261
 organic geochemistry, A:267–269
 paleomagnetism, A:266–267
 physical properties, A:272–276
 sedimentation rates, A:267
 site description, A:257–277
 tephra transport, B:51–64
 volcanic ash, B:67–84
 site surveys, pre-cruise, A:45–46
- Sites 914–917
 lithologic units, A:165–173
 lithostratigraphy, A:164–175
 sedimentation rates, A:173–174
 seismic stratigraphy, A:159–164
 shelf stratigraphy, A:159–175
- smectite
 deltaic sediments, B:119
 lithologic units, A:60–62, 202
 mineral chemistry, B:420–422
 Pearson correlation coefficients, B:43, 46
 sediments, B:44–48
 vs. depth, B:42
See also celadonite/smectite mixed mineral; chlorite/smectite mixed mineral
- Snaefellses eruption, volcanic ash, B:80–84
 Snorri Drift, sedimentation, B:8, 15
- sodium
 metasedimentary rocks, B:135
 obsidian, B:87
 sediments, B:20, 23
 vs. depth, A:102, 238, 272; B:24, 299
- sodium/chloride ratio
 interstitial waters, B:299–300
 vs. calcium, B:298
 vs. depth, B:300
- sodium/chlorine ratio
 sediments, A:236
 vs. depth, A:239, 272
- sodium/ferric iron ratio, sediments, B:20
- sodium oxide
 experimental liquids, B:366
 vs. depth, B:423
 vs. silica, B:23, 88–89
 vs. total iron, B:321–322
 X-ray fluorescence, B:426
- sodium oxide+potassium oxide, vs. silica, B:99
 sodium oxide/iron oxide ratio
 vs. depth, B:25
 vs. potassium oxide/calcium oxide ratio, B:26
 sodium oxide/potassium oxide ratio, vs. silica, B:26
- soils
 photograph, B:127–128
 volcanoclastics, B:121–124
- soils, red, photograph, A:129, 132
 sonic tool, seismic properties, B:455–456
 sources, mantle, B:522–528
- Southeast Greenland Transect
 seismic reflectors, A:9–12
See also East Greenland Margin; EG63 Transect; Greenland Margin
- spectral gamma-ray logs, vs. depth, A:128
 spectrometry, plasma-emission, inductively coupled, interstitial waters, B:307–311
 spectrometry, plasma-mass, inductively coupled, interstitial waters, B:307–311
- spherasters, Site 918, B:192, 197
 spherulites, lava, B:412
 spicules, lithologic units, A:57–62
 spinel lherzolite, sources, B:344
 spinels, mineral chemistry, B:407, 415
 sponge spicules, continental rise, B:191–199
 spores, Cenozoic, B:221–231
 spreading rates, seafloor spreading, B:512
- stable isotopes
 foraminifers, B:243–248
 vs. age, B:247
 vs. depth, B:246
- stratigraphy
 basalts, B:376–380
 drifts, B:14–17, 29–36
 metasedimentary rocks, B:129–131
 tephra, B:55–56
 volcanic ash, B:95–113
 volcanic rocks, B:337–341, 343
 volcanism, B:467–468, 483–484, 506–510, 522
See also age; biostratigraphy; chronostratigraphy; Continental Succession; dating; lithostratigraphy; magnetostratigraphy; Oceanic Succession
- streptasters, Site 918, B:192, 197
 stress fields, fracturing, B:445
 strongyles, Site 918, B:192, 196
- strontium
 interstitial waters, B:300–301
 metasedimentary rocks, B:135–137
 vs. depth, A:102, 238, 271; B:298
 vs. nickel, A:139
 X-ray fluorescence, B:427
- strontium isotopes
 basalts, B:491
 foraminifers, B:233–241
 interstitial waters, B:293–294, 300–301
 volcanic rocks, B:351–357, 489–490
 vs. depth, B:234, 236–238, 301, 303
 vs. lead isotopes, B:354
 vs. neodymium, B:490–491
- strontium/zirconium ratio
 volcanic rocks, B:339–340, 342
 vs. silica, B:343
- structural analysis, formation microscanner, B:442–445
 structural contours, lithologic units, B:30–36
 structure, metasedimentary rocks, B:129–131

- structures, electrical logs, B:439–451
 styles, Site 918, B:192, 196
 subsidence
 continental margin, A:282–283
 margins, A:15
 rifts, B:517–518
 shelf, A:174
 Site 918, A:224–225
 subsidence, post-breakup, crust, A:291–292
 sulfate
 geochemical data, A:98–99
 sediments, A:234–235
 vs. depth, A:102, 237–238, 271
 sulfur
 sediments, A:67, 82–83
 vs. iron and magnesium oxides, B:101
 surface water, environment, B:245–247
- tantalum, metasedimentary rocks, B:136–137
 Taupo eruption, tephra, B:53
 tectonics
 continental margin, A:288–292; B:521–522
 crust, B:466–467, 503–533
 stages, A:290
 temperature
 chlorite, B:138
 metamorphism, B:422
 planktonic foraminifers, B:176–177
 Site 918, A:249, 251
 vs. depth, A:256
 vs. magnesium oxide, B:365
 vs. oxygen fugacity, B:413
 vs. time, A:252–255
 temperature, mean, annual, Cenozoic, B:226–227
 temperature, melting, magnesium number, B:365
 tephra
 electron probe data, B:96–97
 transport, B:51–64
 tephrochronology, interlaboratory comparison,
 B:85–91
 Tertiary
 lava, B:387–402
 magmatism, A:12–14
 volcanism, A:49–50
 textures
 metamorphic rocks, B:131
 tephra, B:97
 thermal conductivity
 basalts, A:248–249
 sediments, A:70, 87, 276
 Site 916, A:103
 Site 917, A:144–145
 Site 918, A:245, 248–249
 vs. degree of alteration and vesicularity, A:147
 vs. depth, A:71, 145–146, 248, 256, 276
 thermomagnetic curves, magnetic susceptibility,
 B:276–279
 thickness
 lithologic units, A:170
 tephra, B:54
 vs. compressional wave velocity, B:461
 thomsonite
 alteration, B:426
 mineral chemistry, B:419
 occurrence, B:418
 thorium
 metasedimentary rocks, B:137
 See also lanthanum/thorium ratio
 thorium/lead ratio, vs. depth, B:378
 thorium/tantalum ratio, metasedimentary rocks,
 B:136
 thorium logs, vs. depth, A:128
 tilting
 histograms, B:446–447
 lava flows, A:129
 Tindfjallajökull eruption, tephra, B:64
 titanium
 volcanic rocks, B:340
 vs. zirconium, B:136
 See also ilmenite; iron-titanium oxides
 titanium oxide
 experimental liquids, B:366
 lava flows, A:137–139
 vs. depth, B:24
 vs. magnesium and calcium oxides, B:103
 vs. magnesium oxide, B:100, 316–318
 vs. nickel, A:137
 vs. potassium oxide, B:57, 61, 103
 vs. silica, B:23, 319
 titanium/aluminum ratio
 vs. depth, B:295, 297
 vs. iron/aluminum ratio, B:297
 titanomagnetite, lava, B:411–412
 trace elements
 basalts, B:376–380, 497
 igneous rocks, A:230
 interstitial waters, B:307–311
 metasedimentary rocks, B:133–137
 sediments, B:19–28
 volcanic ash, B:72, 77–79
 volcanic glass, B:60–64
 volcanic rocks, B:335–343, 431–435
 transects
 mantle, B:522–528
 seafloor spreading anomalies, B:463–464, 506
 transgression, sediments, B:516–517
 transport
 sedimentation, B:8–14
 tephra, B:51–64, 99, 101
 triaxons, Site 918, B:192, 197
 triods, Site 918, B:192, 197
 trough fills, lithologic units, B:34–36
 tuff
 lava flows, A:126–127, 133–134
 petrography, B:405
 photograph, A:129, 131; B:113
 units, B:103–105
 tuff, ash-flow, photograph, A:131
 tuff, eutaxitic, plagioclase, B:409
 turbidites
 deposition, A:286–287
 geochemistry, B:23–28
 lithologic units, A:195, 198, 202; B:41
 metamorphic rocks, B:131
 photograph, A:197, 203–206
 turbidity currents, sedimentation, B:3–18
 tylostyles, Site 918, B:192, 196–197
- unconformities
 Cenozoic, lithologic units, B:29–36
 continental margin, A:288–292
 continental slope, B:7–17
 correlation, B:521–522
 crust, B:518–519
 lithologic units, A:92–94
 sedimentation rates, A:225
 volcanism, A:49–50
 See also hiatuses
 unconformity 1–2, lithologic units, B:15–16
 underway geophysics, Atlantic Ocean, A:41–43
 uplifts
 crust, A:291–292; B:521–522
 rifts, B:517–518
 upper rise, sedimentation, B:3–18
 upwelling, lithosphere, B:380
 uranium logs, vs. depth, A:128
 vanadium, metasedimentary rocks, B:136
- Vandfaldsdalen Formation
 basalts, A:289
 correlation, B:521
 veins
 calcite, B:120
 clay minerals, B:418
 lithologic units, A:116
 vs. depth, A:134
 veins, dendritic, volcaniclastics, B:122
 velocimetry
 sediments, A:68, 85, 274–275
 Site 916, A:103
 Site 917, A:143–144
 Site 918, A:241, 245
 velocity
 crust, B:471
 Sites 914–917, A:159–160
 vs. depth, A:86, 104, 245, 275
 velocity, acoustic
 volcanic rocks, A:145
 vs. depth, A:144
 velocity logs, vs. depth, B:442, 457
 vesicles
 clay minerals, B:418
 petrology, A:81
 photograph, A:229; B:113
 vitrinite, sediments, B:285
 vitrodetrinite, sediments, B:285
 Vøring Margin
 transects, A:14
 volcanic rocks, B:324–325
 Vøring Plateau
 physiography, A:6–7
 volcanic rocks, B:347
 volcanic ash
 distribution, A:263; B:62–64
 geochemistry, B:67–84
 lithologic units, A:57–62, 262–264
 paleoenvironment, B:51–64
 photograph, A:262–263; B:70
 sediments, B:95–113
 stratigraphy, B:509–510
 See also ash layers; volcanic glass;
 volcaniclastics
 volcanic components, sediments, A:236–237
 volcanic eruptions
 tephra, B:99, 101
 See also lava
 volcanic glass
 basalts, B:362
 geochemistry, B:67–84
 interlaboratory comparison, B:85–91
 mineral chemistry, B:412, 416
 paleoenvironment, B:51–64
 phase equilibria, B:367
 photograph, B:112–113
 See also clasts, vitric
 volcanic glass, experimental, composition, B:362
 volcanic glass, silicic, geochemistry, B:57–64
 volcanic plateaus, rifts, B:517
 volcanic provinces, demagnetization, B:263–264
 volcanic rocks
 composition, B:331–357, 425–429, 315–330
 lithology, A:123–125
 magnetic susceptibility, B:271–280
 mineral chemistry, B:403–416
 petrology, A:279–281
 photograph, A:129–134
 stratigraphy, A:227
 X-ray fluorescence, B:431–435
 See also breccia, volcanic; conglomerate,
 volcanic; lapillistone; obsidian;
 rhyolite
 volcaniclastics

alteration, B:115–128
ice-rafted debris, A:283
lava flows, A:126–127
lithologic units, A:76, 93, 115, 170–174, 204
metamorphic rocks, B:129–144
Paleogene, B:71
photograph, A:95; B:112–113
sediments, A:15
stratigraphy, B:484
volcanism
basement, A:49–50
continental margin, A:5–16; B:503–533
continental to oceanic transition, B:348
crust, B:465–469
eruptions, B:67–68, 486–489
mantle, B:373–386
stages and breaks, B:514
tephra, B:99, 101, 105–107
See also eruptions; Laki 1783 eruption;
Neovolcanic Zone
volcanism, breakup, development, A:287–288
water squeeze cakes, interstitial waters,
B:307–311
waveform data, lava, B:458
weathering
hematite, B:117
source areas, B:19–28
See also alteration; basalts, weathered;
diagenesis
weathering features, lava flows, A:126–127
Weichselian, sedimentation, B:36–38
well-log units, A:149–151

well-logging
lava, B:458–459
Site 917, A:145–151
wollastonite projection, basalts, B:369–371
wood fragments
lithologic units, A:60–62, 93
photograph, A:95, 203
X-ray diffraction data, sediments, A:198
X-ray fluorescence data
igneous rocks, A:230
lava, B:431–435
sedimentary rocks, A:117
volcanic rocks, A:136, 138; B:333–334,
425–429
yellow reflector, lithologic units, B:15–16
ytterbium. *See* lanthanum/ytterbium ratio
yttrium
metasedimentary rocks, B:136
volcanic rocks, B:337
X-ray fluorescence, B:427–429
See also cerium/yttrium ratio; niobium/yttrium
ratio; zirconium/yttrium ratio
yttrium/holmium ratio, volcanic ash, B:80
zeolites
alteration, B:426
distribution and chemistry, B:417–424
lava flows, A:135
lithologic units, A:60–62
mineral chemistry, B:419–420
vs. depth, A:134

See also chabazite; clinocllore; clinoptilolite;
heulandite group; natrolite; phillipsite
zinc, alteration, B:426
zirconium
metasedimentary rocks, B:136
vs. neodymium isotopes, B:356
vs. niobium, B:79
vs. scandium, B:324–325, 345
vs. titanium, B:136
vs. zirconium/niobium ratio, A:140
See also barium/zirconium ratio;
niobium/zirconium ratio
zirconium/niobium ratio
basalts, A:229, 280
metasedimentary rocks, B:136
volcanic ash, B:79–80
vs. age, B:84
vs. barium/zirconium ratio, A:287
vs. cerium/yttrium ratio, B:322–324
vs. lanthanum/niobium ratio, B:383
vs. neodymium, B:492
vs. zirconium, A:140
zirconium/scandium ratio
basalts, B:493–495
vs. depth, B:489
zirconium/yttrium ratio
basalts, A:229
volcanic rocks, B:342
vs. depth, A:137; B:375
vs. niobium/yttrium ratio, B:84, 345–347,
496–497
zoning, diatoms, B:211, 214

152 TAXONOMIC INDEX

abbreviata, *Uvigerina*, Site 915, A:78
abbreviatum, *Homotryblum*, Site 918, B:229
absectus, *Cyclicargolithus*, Site 918, A:209;
B:159
Acarinina acceleratoria, Site 918, B:171, 189
Acarinina bullbrooki, Site 918, B:171, 188
Acarinina densa, Site 918, A:214; B:171
Acarinina intermedia, Site 918, B:171
Acarinina lozanoi, Site 918, B:171, 188
Acarinina matthewsae, Site 918, B:171
Acarinina medizai, Site 918, B:188
Acarinina pentacamerata, Site 918, A:214; B:171,
188
Acarinina primitiva, Site 918, B:188
Acarinina rugosoaculeata, Site 918, B:188
Acarinina soldadoensis angulosa, Site 918, B:171
acceleratoria, *Acarinina*, Site 918, B:171, 189
Achilliodinium bififormoides, Greenland E, B:225
Achomospaera ramulifera, Greenland E, B:226
acostaensis, *Neogloboquadrina*
East Greenland Margin, B:164, 173, 175, 234
Site 914, B:164
Site 918, A:211, 215; B:170, 202, 240
acrostoma, *Paragloborotalia*, Site 918, A:211,
213
Actinocyclus curvatus, Site 919, B:210, 218
aculeata, *Bulimina*
Site 918, A:216
Site 919, A:264
Adnatosphaeridium multispinosum, Site 918,
B:230
Adonnadonna primadonna, Site 918, B:194, 199

Alabama wilcoxensis, Site 914, A:62
alazanensis, *Bulimina*, Site 918, A:216
alleni, *Cibicoides*, Site 914, A:62
Alnipollenites verus
Greenland E, B:225–226
Site 916, B:221
altiapertura, *Globigerinoides*, Site 918, A:213,
215
altispira globosa, *Dentoglobigerina*, Site 918,
A:213, 215; B:170
altus, *Chiasmolithus*
Greenland Margin SE, B:154
Site 914, A:62, 66; B:148
Site 918, B:154, 159
Amaurolithus delicatus?, Site 918, B:158
amiculum, *Caligodinium*, Greenland E, B:225
Ammodochium rectangulare, Site 918, B:194, 199
ancyrea, *Systematophora*, Site 918, B:229
anfracta, *Tenuitella*, Site 914, A:63–64
angiporooides, *Subbotina*, Site 918, B:171
anguloluminosus, *Retitricolpites*, Site 918, B:231
angustelineata, *Thalassiosira*, Site 919, B:218
Anomalina(?) sp., Site 917, A:118
Anomalinooides cf. *howelli*, Site 918, A:218
Anomalinooides cf. *nobilis*, Site 917, A:118
Anomalinooides nobilis
Site 914, A:62
Site 917, A:118
antarctica, *Bolboforma*, Site 918, B:202, 208
antiqua antiqua, *Ebriopsis*, Site 918, B:194
Apectodinium augustum, Greenland E, B:225
Apectodinium homomorphum, Greenland E, B:224

Apectodinium parvum, Greenland E, B:224
Apectodinium quinquelatum, Greenland E, B:224
apiculata, *Bachmannocena*, Site 918, B:194, 198
Aquilapollenites spinulosus, Greenland E,
B:225–226
Arecipites brandenburgensis, Site 918, B:230–231
Arecipites spp., Site 918, B:224, 226
Areolegira cf. *coronata*, Site 918, B:222–223, 226
Areolegira cf. *senonensis*, Site 918, B:222
Areosphaeridium diktyoplokus
Greenland E, B:225
Site 918, B:223, 226, 229
asanoi, *Reticulofenestra*, Site 918, A:209
Astrononion gallowayi, Site 919, A:264
Astrononion spp., Site 918, B:234
atlantica, *Neogloboquadrina*
East Greenland Margin, B:177, 234
Site 918, A:210–211, 214; B:202, 241
Site 919, A:264–265; B:237
atlantica dextral, *Neogloboquadrina*, Site 918,
B:241
augustum, *Apectodinium*, Greenland E, B:225
Azolla massulae, Greenland E, B:225
Bachmannocena apiculata, Site 918, B:194, 198
badenensis, *Bolboforma*, Site 918, A:218–219;
B:202, 207
barleanus, *Melonis*, Site 918, A:216
baroemoensis, *Dentoglobigerina*, Site 918,
A:211
bartonensis, *Cerebrocysta*, Greenland E, B:225
biformoides, *Achilliodinium*, Greenland E, B:225

- bigelowii*, *Braarudosphaera*, Site 918, B:158
bigotii, *Stephanolithion*, Site 919, B:160
bijugatus, *Zygrhablithus*, Site 918, A:209; B:159
birnageae, *Globorotalia*, Site 918, B:170
bisecta, *Reticulofenestra*
 Site 916, A:94
 Site 917, A:117; B:149
 Site 918, A:209; B:154
bisphericus, *Globigerinoides*
 East Greenland Margin, B:164
 Site 918, A:213; B:170, 236, 241
Blackites spinosus, Site 917, B:149
Bolboforma antarctica, Site 918, B:202, 208
Bolboforma badenensis, Site 918, A:218–219;
 B:202, 207
Bolboforma badenensis Zone, Site 918, B:202,
 204
Bolboforma capsula, Site 918, B:202, 207
Bolboforma clodiusi, Site 918, A:219
Bolboforma compressibadenensis, Site 918,
 B:202, 204, 208
Bolboforma compressispinosa Zone, Site 918,
 B:202, 204
Bolboforma danielsi, Site 918, B:202, 204, 208
Bolboforma danielsi Zone, Site 918, B:202, 204
Bolboforma fragori, Site 918, B:202, 207
Bolboforma groenlandica n. sp., Site 918, B:202,
 204–205, 207
Bolboforma irregularis, Site 918, A:219; B:202,
 204, 208
Bolboforma laevis, Site 918, A:218–219; B:202,
 204, 207
Bolboforma laevis Zone, East Greenland Margin,
 B:175, 204
Bolboforma metzmacheri, Site 918, A:218–219;
 B:207
Bolboforma metzmacheri Zone, Site 918, B:202,
 204
Bolboforma reticulata, Site 918, A:219; B:202
Bolboforma reticulata Zone, Site 918, B:202, 204
Bolboforma rotunda, Site 918, B:202, 208
Bolboforma sp. 1 aff. *Bolboforma spinosa*, Site
 918, B:202
Bolboforma sp. 2, Site 918, B:202, 204, 206, 208
Bolboforma sp. 2 aff. *Bolboforma antarctica*, Site
 918, B:202, 208
Bolboforma sp. A, Site 918, A:219
Bolboforma sp. B, Site 918, A:218–219;
 B:205–207
Bolboforma spinosa, Site 918, B:202, 208
Bolboforma spinosa Zone, Site 918, B:202
Bolboforma spiralis, Site 918, B:202
Bolboforma spp., Site 918, A:208, 218–219;
 B:165, 201–208
Bolboforma subfragoris, Site 918, A:219; B:175,
 202, 204, 207
Bolboforma subfragoris Zone, East Greenland
 Margin, B:175, 202, 204
boweri, *Turborotalia*, Site 918, B:171, 188
Braarudosphaera bigelowii, Site 918, B:158
brandenburgensis, *Arecipites*, Site 918,
 B:230–231
Brizalina sp., Site 919, A:265
Bulimina aculeata
 Site 918, A:216
 Site 919, A:264
Bulimina alazanensis, Site 918, A:216
Bulimina sp., Site 917, A:118
Buliminella elegantissima
 Site 914, A:63
 Site 919, A:264
Buliminella spp., Site 918, B:234
bullbrookii, *Acarinina*, Site 918, B:171, 188
bulloides, *Globigerina*
 East Greenland Margin; B:176, 234
 Site 914, A:62–64; B:164
 Site 915, A:78
 Site 917, A:118
 Site 918, A:210–211, 213–214; B:240
 Site 919, A:264; B:246
bulloides, *Pullenia*, Site 918, A:216; B:234
Calcidiscus leptoporus
 Site 914, A:62
 Site 918, A:209
 Site 919, B:154, 158
Calcidiscus macintyreii, Site 919, A:264–265;
 B:154
Calcidiscus premacintyreii
 Greenland Margin SE, B:154
 Site 918, B:151, 159
calida, *Globigerina*, Site 919, A:264
Caligodinium amiculum, Greenland E, B:225
callosus, *Toweius*, Site 918, A:209
capsula, *Bolboforma*, Site 918, B:202, 207
carteri, *Helicosphaera*, Site 918, B:158
Caryapollenites circulus
 Greenland E, B:225
 Site 916, B:221, 231
 Site 918, B:224, 226
Caryapollenites spp.
 Greenland E, B:225
 Site 918, B:224
Caryapollenites veripites
 Site 916, B:221
 Site 918, B:222, 226, 231
Cassidulina cf. *teretis*, Site 918, A:215
Cassidulina laevigata, Site 914, A:64
Cassidulina norvangi
 Site 914, A:63
 Site 915, A:78
 Site 916, A:96
 Site 918, A:215
 Site 919, A:264–265
Cassidulina spp., Site 918, B:234
Cassidulina teretis
 Site 914, A:62–64
 Site 915, A:78
 Site 916, A:96
 Site 918, A:215
 Site 919, A:264
Cassigerinella chipolensis, Site 918, B:189
Catapsydrax dissimilis
 East Greenland Margin, B:164
 Site 918, A:213; B:170
Catapsydrax spp., Site 918, A:213; B:171
Catapsydrax unicavus, Site 918, A:213; B:170,
 189
 ?*Catinaster* sp., Site 918, B:159
centrocarpum, *Operculodinium*, Site 917, B:222
Cerebrocysta bartonensis, Greenland E, B:225
Charelesdowniea coleothrypta, Site 918,
 B:222–223, 230
Chiasmolithus altus
 Greenland Margin SE, B:154
 Site 914, A:62, 66; B:148
 Site 918, B:154, 159
Chiasmolithus eograndis, Site 918, B:160
Chiasmolithus expansus, Site 918, B:160
Chiasmolithus oamaruensis, Site 915, B:149
Chiasmolithus solitus
 Site 915, A:78; B:149
 Site 917, A:117; B:149
 Site 918, A:209; B:154, 159
Chiloguembelina cf. *cubensis*, Site 918, B:188
Chiloguembelina cubensis
 East Greenland Margin, B:164
 Site 915, B:164
 Site 918, A:214; B:189
Chiloguembelina sp., Site 915, A:78
chipolensis, *Cassigerinella*, Site 918, B:189
chlamydothora, *Samlandia*, Greenland E, B:225
Chondrites
 lithologic units, A:116, 196, 198, 204–205
 metasedimentary rocks, B:130–131
 occurrence, A:283
 photograph, sediments, A:200, 207–208
Cibicides lobatulus
 Site 914, A:63
 Site 915, A:78
 Site 916, A:96
 Site 917, A:118
Cibicides refulgens
 Site 914, A:63
 Site 915, A:78
 Site 916, A:96
 Site 917, A:118
 Site 919, A:264
Cibicides spp.
 Site 914, A:63
 Site 915, A:78
 Site 916, A:96
 Site 917, A:118
Cibicidoides alleni, Site 914, A:62
Cibicidoides kullenbergi, Site 918, A:216–217
Cibicidoides sinistralis, Site 918, A:216–217
Cibicidoides spp.
 Site 914, A:62
 Site 915, A:78
 Site 918, A:216; B:234
cinctum, *Hystrichokolpoma*, Site 918, B:223, 229
ciperoensis, "*Globigerina*", East Greenland
 Margin, B:176
circulus, *Caryapollenites*
 Greenland E, B:225
 Site 916, B:221, 231
 Site 918, B:224, 226
Clausicoccus fenestratus, Site 918, B:159
clithridium, *Phthanoperidinium*, Greenland E,
 B:225
clodiusi, *Bolboforma*, Site 918, A:219
Coccolithus formosus, Greenland Margin SE,
 B:154
Coccolithus miopelagicus
 Greenland Margin SE, B:154
 Site 918, B:151, 158
Coccolithus pelagicus
 Site 914, A:62; B:147
 Site 917, A:117
 Site 918, B:149–150
coleothrypta, *Charelesdowniea*, Site 918,
 B:222–223, 230
comatum, *Cometodinium*, Site 918, B:222–223,
 226
Cometodinium comatum, Site 918, B:222–223,
 226
compressa, *Membranilarnacea*, Site 918, B:230
compressibadenensis, *Bolboforma*, Site 918,
 B:202, 204, 208
condylos, *Dracodinium*, Greenland E, B:225
conicus, *Sphenolithus*, Site 918, B:154
connecta, *Zeaglobigerina*, Site 918, A:213; B:170,
 236, 241
constricta, *Naviculopsis*, Site 918, B:194, 198
Corbisema hastata hastata, Site 918, B:194, 198
Corbisema triacantha, Site 918, B:194, 198
Cordosphaeridium cracenospinosum, Site 918,
 B:230
Cordosphaeridium exilimurum, Site 918, B:230
Cordosphaeridium gracile, Site 918, B:222–223,
 226
Cordosphaeridium gracile–*Areolegira* cf.

- senonensis* association, Site 918, B:222
Cordosphaeridium gracile–*Cometodinium comatum* association, Site 918, B:222–223
Cordosphaeridium gracile–*Cordosphaeridium inodes* association, Site 918, B:222–223
Cordosphaeridium inodes, Site 918, B:222–223
coronata, *Areolegira* cf., Site 918, B:222–223, 226
cracenospinosum, *Cordosphaeridium*, Site 918, B:230
Craniopsis octo, Site 918, B:194
crassaformis, *Globorotalia*, Site 918, A:210, 214
cretacea, *Prediscosphaera*, Site 919, B:160
Cribroperidinium giuseppi, Site 918, B:222
cristata, *Nannotetrina*, Site 918, B:154, 160
crociapertura, *Subbotina*, Site 918, B:189
crux crux, *Distephanus*, Site 918, B:194, 198
cubensis, *Chiloguembelina*
 East Greenland Margin, B:164
 Site 915, B:164
 Site 918, A:214; B:189
cubensis, *Chiloguembelina* cf., Site 918, B:188
curvatus, *Actinocyclus*, Site 919, B:210, 218
curvirostris, *Proboscia*, Site 919, B:210, 215, 217, 219
Cyclicargolithus abisectus, Site 918, A:209; B:159
Cyclicargolithus floridanus
 Greenland Margin SE, B:154
 Site 917, B:149
 Site 918, A:209; B:151, 159
cylindrica, *Nitzschia*, Site 919, B:218

danielsi, *Bolboforma*, Site 918, B:202, 204, 208
danvillensis, *Pseudohastigerina*, Site 918, A:214; B:189
daviesii, *Reticulofenestra*
 Greenland Margin SE, B:154
 Site 914, A:62, 66; B:148
 Site 916, A:94
 Site 917, B:149
 Site 918, A:209; B:154, 159
Deflandrea phosphoritica, Greenland E, B:225
dehiscens, *Globoquadrina*
 East Greenland Margin, B:164
 Site 918, A:211, 213; B:170
delicatus?, *Amaurolithus*, Site 918, B:158
densa, *Acarinina*, Site 918, A:214; B:171
Denticulopsis seminae, Site 919, B:211
Dentoglobigerina altispira globosa, Site 918, A:213, 215; B:170
Dentoglobigerina baroemoenensis, Site 918, A:211
Dentoglobigerina galavisi, Site 918, B:189
Dentoglobigerina langhiana, Site 918, B:170
Dicolpopollis luteticus, Site 918, B:226
Dicolpopollis spp., Site 918, B:227
Dictyocha messanensis, Site 918, B:194, 198
diktyoplokus, *Areosphaeridium*
 Greenland E, B:225
 Site 918, B:223, 226, 229
Diphyes ficusoides, Site 918, B:223
Discoaster druggii?, Site 918, B:159
Discoaster intercalaris, Site 918, B:158
Discoaster kuepperi, Site 918, B:154, 160
Discoaster lodoensis, Site 918, B:154, 160
Discoaster quinqueramus, Site 918, A:209; B:150–151, 158
Discoaster saipanensis, Site 915, B:160
Discoaster sp. 1, Site 918, B:158
Discoaster sp. 2, Site 918, B:158
Discoaster sp. 3, Site 918, B:159
Discoaster sp. 4, Site 918, B:160
discolorpites, *Salixipollenites*, Site 918, B:231
dissimilis, *Catapsydrax*
 East Greenland Margin, B:164
 Site 918, A:213; B:170
Distephanus crux crux, Site 918, B:194, 198
distichiforme, *Inaperturopollenites*, Site 918, B:226
doliolus, *Pseudoeuotia*, Site 919, B:211, 217
Dracodinium condylos, Greenland E, B:225
Dracodinium politum, Site 918, B:230
Dracodinium simile, Site 918, B:223
druggii?, *Discoaster*, Site 918, B:159
dubius, *Neococcolithus*, Site 918, B:159
dutertrei, *Neogloboquadrina*
 Site 914, A:63–64; B:164
 Site 915, A:78
 Site 918, A:210; B:234, 241
 Site 919, A:264

Eatonicysta ursulae
 Greenland E, B:225
 Site 918, B:222–223, 226, 230
Eatonicysta ursulae–*Areosphaeridium diktyoplokus* association, Site 918, B:223
Ebriopsis antiqua antiqua, Site 918, B:194
echinatum, *Phthanoperidinium*
 Greenland E, B:225
 Site 918, B:222–223, 226
ecuadorensis, *Oridorsalis*
 Site 914, A:62
 Site 918, A:216
Eilohedra sp., Site 914, A:63
elegantissima, *Buliminella*
 Site 914, A:63
 Site 919, A:264
Elphidium excavatum
 Site 914, A:62–64
 Site 915, A:78
 Site 916, A:96
 Site 918, A:215
 Site 919, A:264
Elphidium spp., Site 918, B:234
Emiliania huxleyi
 Site 914, A:62; B:147
 Site 918, A:209; B:149–150
 Site 919, A:264; B:154
eocaena, *Subbotina*, Site 918, A:214
eograndis, *Chiasmolithus*, Site 918, B:160
Epistominella exigua
 Site 918, A:216
 Site 919, A:265
excavatum, *Elphidium*
 Site 914, A:62–64
 Site 915, A:78
 Site 916, A:96
 Site 918, A:215
 Site 919, A:264
exigua, *Epistominella*
 Site 918, A:216
 Site 919, A:265
exigua, *Pseudoparrella*
 Site 918, A:215–216
 Site 919, A:265
exilimum, *Cordosphaeridium*, Site 918, B:230
expansus, *Chiasmolithus*, Site 918, B:160

fenestratus, *Clausicoccus*, Site 918, B:159
ficusoides, *Diphyes*, Site 918, B:223
fleBILE, *Phthanoperidinium* cf., Site 918, B:229
floridanus, *Cyclicargolithus*
 Greenland Margin SE, B:154
 Site 917, B:149
 Site 918, A:209; B:151, 159
formosus, *Coccolithus*, Greenland Margin SE, B:154
fragori, *Bolboforma*, Site 918, B:202, 207

fusiformis, *Stainforthia*, Site 919, A:265

galavisi, *Dentoglobigerina*, Site 918, B:189
Gallitellia vivans, Site 914, A:63
gallowayi, *Astrononion*, Site 919, A:264
gelida, *Reticulofenestra*
 Site 918, A:209; B:150–151, 158
 Site 919, A:264
Gephyrocapsa spp.
 Site 914, A:62; B:148
 Site 918, A:209; B:150
 Site 919, A:264; B:154
giuseppi, *Cribroperidinium*, Site 918, B:222
glabra, *Membranilarnacea*, Site 918, B:230
Globigerina bulloides
 East Greenland Margin; B:176, 234
 Site 914, A:62–64; B:164
 Site 915, A:78
 Site 917, A:118
 Site 918, A:210–211, 213–214; B:240
 Site 919, A:264; B:246
Globigerina calida, Site 919, A:264
"Globigerina" ciperensis, East Greenland Margin, B:176
Globigerina rubescens
 Site 918, B:240
 Site 919, A:264
Globigerina sp. A, Site 919, A:264
"Globigerina" venezuelana
 Site 915, A:78
 Site 918, A:211, 213
Globigerinatheka cf. *index*, Site 918, B:189
Globigerinatheka sp., Site 918, B:189
Globigerinita glutinata
 Site 914, A:63–64
 Site 915, A:78
 Site 917, A:118
 Site 918, A:210–211
 Site 919, A:264
Globigerinita juvenilis
 Site 914, A:63–64
 Site 915, A:78
 Site 917, A:118
 Site 918, A:210–211; B:171
 Site 919, A:264
Globigerinita quinqueloba, East Greenland Margin, B:176
Globigerinoides altiapertura, Site 918, A:213, 215
Globigerinoides bisphericus
 East Greenland Margin, B:164
 Site 918, A:213; B:170, 236, 241
Globigerinoides immaturus, Site 918, B:170
Globigerinoides quadrilobatus, Site 918, A:211, 213, 215
Globigerinoides spp., East Greenland Margin, B:164, 176
Globigerinoides trilobus, Site 918, A:211, 213, 215; B:170
globigerum, *Streptochilus*, Site 918, B:240
Globocassidulina spp., Site 918, B:234
Globocassidulina subglobosa, Site 918, A:216
Globoquadrina dehiscens
 East Greenland Margin, B:164
 Site 918, A:211, 213; B:170
Globoquadrina praedeheiscens, Site 918, B:170
Globoquadrina puriensis, Site 915, A:78
Globoquadrina sellii, Site 918, B:171
Globoquadrina tapuriensis, Site 915, A:78
"Globoquadrina" tapuriensis, Site 915, B:164
Globorotalia birnageae, Site 918, B:170
Globorotalia cf. *menardii*, Site 918, A:211
Globorotalia cf. *suterae*
 East Greenland Margin, B:164

- Site 918, B:170
Globorotalia crassaformis, Site 918, A:210, 214
Globorotalia hirsuta, Site 918, A:210, 214
Globorotalia inflata
 East Greenland Margin, B:173, 176, 234
 Site 914, A:64; B:164
 Site 915, A:78
 Site 917, A:118
 Site 918, A:210, 214; B:240
 Site 919, A:264; B:246
Globorotalia menardii, Site 918, A:215
Globorotalia miozea, Site 918, A:211, 213
Globorotalia praemenardii, Site 918, A:213
Globorotalia praescitula, Site 918, A:213; B:170
Globorotalia tom. suterae, Site 918, A:213
Globorotalia scitula
 East Greenland Margin, B:164, 173, 234
 Site 914, B:164
 Site 918, A:210, 214; B:170, 240
 Site 919, A:264
Globorotalia suterae, Site 918, A:211
Globorotalia truncatulinoides, Site 914, A:64
Globorotalia zealandica, Site 918, A:213; B:170, 236, 241
Globorotaloides cf. stainforthi, Site 918, A:213
Globorotaloides sp. 1, Site 918, B:189
Globorotaloides stainforthi, Site 918, B:170
Globorotaloides suteri, Site 915, A:78
Globorotaloides variabilis
 Site 915, A:78
 Site 918, A:213
glomerosa, Praeorbulina
 East Greenland Margin, B:164
 Site 918, B:170
glutinata, Globigerinita
 Site 914, A:63–64
 Site 915, A:78
 Site 917, A:118
 Site 918, A:210–211
 Site 919, A:264
gorgon, Triskelion, Site 918, B:194–195, 199
gracile, Cordosphaeridium, Site 918, B:222–223, 226
gravida, Thalassiosira, Site 919, B:210, 218
griffinae, Turborotalia, Site 918, A:214; B:188
groenlandica n. sp., Bolboforma, Site 918, B:202, 204–205, 207
Guembelirria sp., Site 918, B:188
Gyroidina sp., Site 914, A:62
Gyroidinoides spp., Site 918, B:234

haardtii, Laevigatosporites
 Site 916, B:221
 Site 917, B:222
Haliclona sp., Site 918, B:192
hastata hastata, Corbisema, Site 918, B:194, 198
Hastigerinopsis riedeli, Site 914, A:63–64
Helicosphaera carteri, Site 918, B:158
Helicosphaera seminulum, Site 918, B:160
heteromorphus, Sphenolithus, Site 918, B:151, 154, 159
hians, Tricolpites, Site 918, B:224, 226
hians, Tricolpites cf., Site 918, B:224
hiatus, Inaperturopollenites
 Greenland E, B:225
 Site 916, B:221
 Site 917, B:222
 Site 918, B:222, 224, 226
hillae, Reticulofenestra, Site 917, B:149
hirsuta, Globorotalia, Site 918, A:210, 214
homomorphum, Apectodinium, Greenland E, B:224
Homotryblum abbreviatum, Site 918, B:229
Homotryblum tenuispinosum, Site 918, B:222–223, 226, 229
hornbrooki, Subbotina, Site 918, B:171, 189
howelli, Anomalinoides cf., Site 918, A:218
humerosa, Neogloboquadrina
 Site 918, A:210; B:234, 240–241
 Site 919, A:264
huxleyi, Emiliana
 Site 914, A:62; B:147
 Site 918, A:209; B:149–150
 Site 919, A:264; B:154
Hystrichokolpoma cinctum, Site 918, B:223, 229

Illexpollenites iliacus, Site 918, B:231
iliacus, Illexpollenites, Site 918, B:231
immaturus, Globigerinoides, Site 918, B:170
Imperiasier obscurus, Site 918, B:154, 160
Impletosphaeridium implicatum, Site 918, B:230
Impletosphaeridium ligospinosum, Site 918, B:222–223, 226
Impletosphaeridium ligospinosum–Areolegira cf. coronata association, Site 918, B:222–223
implicatum, Impletosphaeridium, Site 918, B:230
Inaperturopollenites distichiforme, Site 918, B:226
Inaperturopollenites hiatus
 Greenland E, B:225
 Site 916, B:221
 Site 917, B:222
 Site 918, B:222, 224, 226
Inaperturopollenites hiatus–Caryapollenites circulus association, Site 918, B:224
incognita, Paragloborotalia, Site 918, A:213
index, Globigerinatheka cf., Site 918, B:189
inflata, Globorotalia
 East Greenland Margin, B:173, 176, 234
 Site 914, A:64; B:164
 Site 915, A:78
 Site 917, A:118
 Site 918, A:210, 214; B:240
 Site 919, A:264; B:246
inodes, Cordosphaeridium, Site 918, B:222–223
intercalaris, Discoaster, Site 918, B:158
intermedia, Acarinina, Site 918, B:171
Intratriporopollenites microreticulatus
 Greenland E, B:225
 Site 918, B:231
inversus, Markalius, Site 918, B:159
irregularis, Bolboforma, Site 918, A:219; B:202, 204, 208
Isthmolithus recurvus
 Site 914, A:62, 66; B:148
 Site 915, A:78; B:149

juvenilis, Globigerinita
 Site 914, A:63–64
 Site 915, A:78
 Site 917, A:118
 Site 918, A:210–211; B:171
 Site 919, A:264

kirchheimerii, Sapotaceoidaepollenites, Site 918, B:231
kruschii subsp. analepticus, Nyssapollenites, Site 918, B:222
kuepperi, Discoaster, Site 918, B:154, 160
kugleri, Paragloborotalia
 East Greenland Margin, B:164
 Site 918, B:170
kullenbergi, Cibicidoides, Site 918, A:216–217

labradorica, Nonionellina, Site 914, A:63
lacunosa, Pseudoemiliana
 Site 918, A:209; B:150

 Site 919, A:264; B:154, 158, 244–246
laevigata, Cassidulina, Site 914, A:64
Laevigatosporites haardtii
 Site 916, B:221
 Site 917, B:222
laevis, Bolboforma, Site 918, A:218–219; B:202, 204, 207
langhiana, Dentoglobigerina, Site 918, B:170
Laticarnina pauperata, Site 918, A:216
Leiosphaera spp., Greenland E, B:225
Lenticulina sp.
 Site 914, A:62
 Site 915, A:78
 Site 918, A:218
leptoporus, Calcidiscus
 Site 914, A:62
 Site 918, A:209
 Site 919, B:154, 158
ligospinosum, Impletosphaeridium, Site 918, B:222–223, 226
linaperta, Subbotina
 Site 915, B:165
 Site 918, B:171
Liquidambarpollenites stigmus, Site 916, B:231
Lithostramon perdurum, Site 918, B:158
lobatulus, Cibicides
 Site 914, A:63
 Site 915, A:78
 Site 916, A:96
 Site 917, A:118
lodoensis, Discoaster, Site 918, B:154, 160
longissima, Thalassiosira, Site 919, B:210
lozanoii, Acarinina, Site 918, B:171, 188
luteticus, Dicolpopollis, Site 918, B:226
Lymingtonia rhaetor, Greenland E, B:225

macintyreii, Calcidiscus, Site 919, A:264–265; B:154
Markalius inversus, Site 918, B:159
massulae, Azolla, Greenland E, B:225
matthewsae, Acarinina, Site 918, B:171
meckelfeldensis, Wetzeliella, Greenland E, B:224
medizai, Acarinina, Site 918, B:188
Melonis barleanus, Site 918, A:216
Melonis spp., Site 918, B:234
Melonis zaandami, Site 918, A:216
Membranilarnacea compressa, Site 918, B:230
Membranilarnacea glabra, Site 918, B:230
Membranilarnacea sp., Site 918, B:222–223, 226, 229
Membranilarnacea sp.–Thalassiphora pelagica association, Site 918, B:222–223, 226
menardii, Globorotalia, Site 918, A:215
menardii, Globorotalia cf., Site 918, A:211
messanensis, Dictyochoa, Site 918, B:194, 198
metzmacheri, Bolboforma, Site 918, A:218–219; B:207
microreticulatus, Intratriporopollenites
 Greenland E, B:225
 Site 918, B:231
Microthallites spp., Site 916, B:221
minutissima, Tenuitella, Site 918, B:240
miopelagicus, Coccolithus
 Greenland Margin SE, B:154
 Site 918, B:151, 158
miozea, Globorotalia, Site 918, A:211, 213
moriformis, Sphenolithus, Site 918, B:158
multiplora, Pontosphaera, Site 918, B:159
multispinosum, Adnatosphaeridium, Site 918, B:230
murrhina, Pyrgo, Site 918, A:216

Nannotetrina cristata, Site 918, B:154, 160
Naviculopsis constricta, Site 918, B:194, 198

- Neococcolithus dubius*, Site 918, B:159
Neodenticula seminae, Site 919, B:210, 215, 217, 219
Neodenticula seminae Zone, Site 919, B:214
Neogloboquadrina acostaensis
 East Greenland Margin, B:164, 173, 175, 234
 Site 914, B:164
 Site 918, A:211, 215; B:170, 202, 240
Neogloboquadrina acostaensis Zone, Site 918, A:211; B:170
Neogloboquadrina acostaensis/Neogloboquadrina humerosa transition, Site 918, B:240
Neogloboquadrina atlantica
 East Greenland Margin, B:177, 234
 Site 918, A:210–211, 214; B:202, 241
 Site 919, A:264–265; B:237
Neogloboquadrina atlantica dextral, Site 918, B:241
Neogloboquadrina atlantica dextral Zone, Site 918, A:211; B:165, 173, 175, 241
Neogloboquadrina atlantica sinistral Zone, Site 918, B:165
Neogloboquadrina dutertrei
 Site 914, A:63–64; B:164
 Site 915, A:78
 Site 918, A:210; B:234, 241
 Site 919, A:264
Neogloboquadrina humerosa
 Site 918, A:210; B:234, 240–241
 Site 919, A:264
Neogloboquadrina pachyderma
 East Greenland Margin, B:173, 175, 177, 234
 Site 914, A:62–64; B:164
 Site 915, A:78
 Site 916, A:94, 96–98
 Site 917, A:118
 Site 918, A:210–211, 214; B:170, 240
 Site 919, A:264; B:237
Neogloboquadrina pachyderma dextral
 East Greenland Margin, B:176
 Site 918, B:241
 Site 919, B:246
Neogloboquadrina pachyderma dextral Zone, Site 918, A:210; B:173
Neogloboquadrina pachyderma sinistral
 East Greenland Margin, B:176
 Site 919, B:243–248
Neogloboquadrina pachyderma sinistral Zone
 Site 914, A:62; B:164
 Site 915, A:78; B:164
 Site 916, A:96; B:165
 Site 917, A:118
 Site 918, A:210, 214; B:165, 240–241
 Site 919, A:264
nidulus, *Thalassiosira*, Site 919, B:210, 215, 219
Nitzschia cylindrica, Site 919, B:218
nobilis, *Anomalinoides*
 Site 914, A:62
 Site 917, A:118
nobilis, *Anomalinoides* cf., Site 917, A:118
Nonionellina labradorica, Site 914, A:63
norvangi, *Cassidulina*
 Site 914, A:63
 Site 915, A:78
 Site 916, A:96
 Site 918, A:215
 Site 919, A:264–265
Nuttallides truempyi, Site 918, A:216
Nyssapollenites kruschii subsp. *analepticus*, Site 918, B:222
Nyssapollenites spp., Site 918, B:226
oamaruensis, *Chiasmolithus*, Site 915, B:149
obscurus, *Imperiaster*, Site 918, B:154, 160
octo, *Craniopsis*, Site 918, B:194
oestrupii, *Thalassiosira*, Site 919, B:210, 218
Operculodinium centrocarpum, Site 917, B:222
opima, *Paragloborotalia*
 East Greenland Margin, B:164
 Site 918, B:171
Orbulina universa
 East Greenland Margin, B:176
 Site 918, B:165, 234, 241
Oridorsalis ecuadorensis
 Site 914, A:62
 Site 918, A:216
Oridorsalis spp.
 Site 914, A:62
 Site 918, B:234
Oridorsalis umbonatus
 Site 918, A:216
 Site 919, A:265
orthostylus, *Tribrachiatulus*, Site 918, A:209; B:154, 160
pachyderma, *Neogloboquadrina*
 East Greenland Margin, B:173, 175, 177, 234
 Site 914, A:62–64; B:164
 Site 915, A:78
 Site 916, A:94, 96–98
 Site 917, A:118
 Site 918, A:210–211, 214; B:170, 240
 Site 919, A:264; B:237
pachyderma dextral, *Neogloboquadrina*
 East Greenland Margin, B:176
 Site 918, B:241
 Site 919, B:246
pachyderma sinistral, *Neogloboquadrina*
 East Greenland Margin, B:176
 Site 919, B:243–248
Paragloborotalia acrostoma, Site 918, A:211, 213
Paragloborotalia incognita, Site 918, A:213
Paragloborotalia kugleri
 East Greenland Margin, B:164
 Site 918, B:170
Paragloborotalia opima
 East Greenland Margin, B:164
 Site 918, B:171
Paragloborotalia pseudokugleri
 East Greenland Margin, B:164
 Site 918, B:170
Paragloborotalia semivera, Site 918, A:213; B:170–171
Paragloborotalia siakensis, Site 918, A:213
parvum, *Apectodinium*, Greenland E, B:224
Paucisphaeridium sp. A, Site 918, B:230
pauperata, *Laticarnina*, Site 918, A:216
pelagica, *Thalassiphora*
 Greenland E, B:225
 Site 918, B:222–223, 226, 230
pelagicus, *Coccolithus*
 Site 914, A:62; B:147
 Site 917, A:117
 Site 918, B:149–150
pellitum, *Tectatodinium* cf., Site 918, B:229
pentamerata, *Acarinina*, Site 918, A:214; B:171, 188
perdurum, *Lithostramiation*, Site 918, B:158
perplexa, *Reticulofenestra*, Site 918, B:158
phosphoritica, *Deflandrea*, Greenland E, B:225
Phthanoperidinium cf. *flebile*, Site 918, B:229
Phthanoperidinium clithridium, Greenland E, B:225
Phthanoperidinium echinatum
 Greenland E, B:225
 Site 918, B:222–223, 226
Pityosporites spp.
 Greenland E, B:225
 Site 916, B:221
 Site 918, B:222
Plakina sp., Site 918, B:192
Planolites
 lithologic units, A:196, 198, 204–205
 occurrence, A:283
 photograph, A:200
Planulina spp., Site 918, B:234
politum, *Dracodinium*, Site 918, B:230
Polysphaeridium subtile, Site 918, B:222–223, 226, 229
Polysphaeridium subtile–*Hystrichokolpoma cinctum* association, Site 918, B:223
Polysphaeridium zoharii, Greenland E, B:226
Pontosphaera multipora, Site 918, B:159
possagnoensis, *Turborotalia*, Site 918, B:171
praecentralis, *Turborotalia*, Site 918, B:171, 188
praedehiscens, *Globoquadrina*, Site 918, B:170
praemenardii, *Globorotalia*, Site 918, A:213
Praeorbulina glomerosa
 East Greenland Margin, B:164
 Site 918, B:170
Praeorbulina sicana, Site 918, B:170
Praeorbulina transitoria
 East Greenland Margin, B:164
 Site 918, A:213; B:170
praescitula, *Globorotalia*, Site 918, A:213; B:170
Prediscosphaera cretacea, Site 919, B:160
premacintyreii, *Calcidiscus*
 Greenland Margin SE, B:154
 Site 918, B:151, 159
primadonna, *Adonnadonna*, Site 918, B:194, 199
primitiva, *Acarinina*, Site 918, B:188
Proboscia curvirostris, Site 919, B:210, 215, 217, 219
Proboscia curvirostris Zone, Site 919, B:214
producta, *Reticulofenestra*, Site 918, B:150, 158
Pseudoemiliania lacunosa
 Site 918, A:209; B:150
 Site 919, A:264; B:154, 158, 244–246
Pseudoemuntia doliolus, Site 919, B:211, 217
Pseudoemuntia doliolus Zone, Site 919, B:211
Pseudohastigerina danvillensis, Site 918, A:214; B:189
Pseudohastigerina wilcoxensis, Site 918, A:214; B:189
pseudokugleri, *Paragloborotalia*
 East Greenland Margin, B:164
 Site 918, B:170
pseudomayeri, *Turborotalia*, Site 918, B:171, 188
Pseudoparrella exigua
 Site 918, A:215–216
 Site 919, A:265
Pseudoparrella spp., Site 918, B:234
pseudoubilicus, *Reticulofenestra*, Site 918, B:151
Pterospermella spp., Greenland E, B:225
pulcher, *Transversopontis*, Site 918, A:209; B:159
Pullenia bulloides, Site 918, A:216; B:234
puriensis, *Globoquadrina*, Site 915, A:78
Pyrgo murrhina, Site 918, A:216
quadrilobatus, *Globigerinoides*, Site 918, A:211, 213, 215
quinquelatum, *Apectodinium*, Greenland E, B:224
quinqueloba, *Globigerinita*, East Greenland Margin, B:176
quinqueloba, *Turborotalia*
 East Greenland Margin, B:176
 Site 914, A:63–64
 Site 917, A:118
 Site 918, A:210–211, 214
 Site 919, A:264
quinqueramus, *Discoaster*, Site 918, A:209;

- B:150–151, 158
- ramosus* subsp. *ramosus*, *Spiniferites*
Site 917, B:222
Site 918, B:222, 226, 229
- ramulifera*, *Achomosphaera*, Greenland E, B:226
- rectangulare*, *Ammodoichium*, Site 918, B:194, 199
- recurvus*, *Isthmolithus*
Site 914, A:62, 66; B:148
Site 915, A:78; B:149
- refulgens*, *Cibicides*
Site 914, A:63
Site 915, A:78
Site 916, A:96
Site 917, A:118
Site 919, A:264
- reticulata*, *Bolboforma*, Site 918, A:219; B:202
- reticulata*, *Reticulofenestra*
Site 914, A:62
Site 915, A:78; B:149
Site 916, A:94
Site 918, B:154, 159
- Reticulofenestra asanoi*, Site 918, A:209
- Reticulofenestra bisecta*
Site 916, A:94
Site 917, A:117; B:149
Site 918, A:209; B:154
- Reticulofenestra daviesii*
Greenland Margin SE, B:154
Site 914, A:62, 66; B:148
Site 916, A:94
Site 917, B:149
Site 918, A:209; B:154, 159
- Reticulofenestra gelida*
Site 918, A:209; B:150–151, 158
Site 919, A:264
- Reticulofenestra hillae*, Site 917, B:149
- Reticulofenestra perplexa*, Site 918, B:158
- Reticulofenestra producta*, Site 918, B:150, 158
- Reticulofenestra pseudumbilicus*, Site 918, B:151
- Reticulofenestra reticulata*
Site 914, A:62
Site 915, A:78; B:149
Site 916, A:94
Site 918, B:154, 159
- Reticulofenestra samodurovii*, Site 918, B:159
- Reticulofenestra umbilica*, Site 918, A:209
- Reticulofenestra umbilicus*
Site 914, A:62, 66; B:148
Site 915, A:78; B:149
Site 916, A:94
Site 917, A:117; B:149
Site 918, B:154
- retiformis*, *Retitricolpites*, Site 918, B:224, 226
- Retitricolpites anguloluminosus*, Site 918, B:231
- Retitricolpites retiformis*, Site 918, B:224, 226
- rhaetor*, *Lymingtonia*, Greenland E, B:225
- riedeli*, *Hastigerinopsis*, Site 914, A:63–64
- rotunda*, *Bolboforma*, Site 918, B:202, 208
- rubescens*, *Globigerina*
Site 918, B:240
Site 919, A:264
- rugosaoculeata*, *Acarinina*, Site 918, B:188
- saipanensis*, *Discoaster*, Site 915, B:160
- Salixipollenites discolorpites*, Site 918, B:231
- Samlandia chlamydochora*, Greenland E, B:225
- samodurovii*, *Reticulofenestra*, Site 918, B:159
- Sapotaceoidaepollenites kirchheimerii*, Site 918, B:231
- Sapotaceoidaepollenites* spp., Site 918, B:224, 226
- Sciadopityspollenites serratus*, Site 918, B:231
- scitula*, *Globorotalia*
East Greenland Margin, B:164, 173, 234
Site 914, B:164
Site 918, A:210, 214; B:170, 240
Site 919, A:264
- Scyphosphaera* sp., Site 919, B:158
- sellii*, *Globoquadrina*, Site 918, B:171
- seminae*, *Denticulopsis*, Site 919, B:211
- seminae*, *Neodenticula*, Site 919, B:210, 215, 217, 219
- seminulum*, *Helicosphaera*, Site 918, B:160
- semivera*, *Paragloborotalia*, Site 918, A:213; B:170–171
- senonensis*, *Areolegira* cf., Site 918, B:222
- serratus*, *Sciadopityspollenites*, Site 918, B:231
- siakensis*, *Paragloborotalia*, Site 918, A:213
- sicana*, *Praeorbulina*, Site 918, B:170
- simile*, *Dracodinium*, Site 918, B:223
- sinistralis*, *Cibicidoides*, Site 918, A:216–217
- soldadoensis angulosa*, *Acarinina*, Site 918, B:171
- solitus*, *Chiasmolithus*
Site 915, A:78; B:149
Site 917, A:117; B:149
Site 918, A:209; B:154, 159
- Sphaeroidinellopsis* sp., Site 918, A:211
- Sphenolithus conicus*, Site 918, B:154
- Sphenolithus heteromorphus*, Site 918, B:151, 154, 159
- Sphenolithus moriformis*, Site 918, B:158
- Spiniferites ramosus* subsp. *ramosus*
Site 917, B:222
Site 918, B:222, 226, 229
- spinosa*, *Bolboforma*, Site 918, B:202, 208
- spinosus*, *Blackites*, Site 917, B:149
- spinulosus*, *Aquilapollenites*, Greenland E, B:225–226
- spiralis*, *Bolboforma*, Site 918, B:202
- stainforthi*, *Globorotaloides*, Site 918, B:170
- stainforthi*, *Globorotaloides* cf., Site 918, A:213
- Stainforthia fusiformis*, Site 919, A:265
- Stainforthia* sp., Site 914, A:63
- Stephanolithon bigotii*, Site 919, B:160
- stigmosus*, *Liquidambarpollenites*, Site 916, B:231
- Stilostomella* spp.
Site 915, A:78
Site 918, A:216
- Streptochilus globigerum*, Site 918, B:240
- Subbotina angiporoides*, Site 918, B:171
- Subbotina crociapertura*, Site 918, B:189
- Subbotina eocaena*, Site 918, A:214
- Subbotina hornibrooki*, Site 918, B:171, 189
- Subbotina linaperta*
Site 915, B:165
Site 918, B:171
- Subbotina utilis index*, Site 918, B:171
- subfragoris*, *Bolboforma*, Site 918, A:219; B:175, 202, 204, 207
- subglobosa*, *Globocassidulina*, Site 918, A:216
- subtile*, *Polysphaeridium*, Site 918, B:222–223, 226, 229
- suterae*, *Globorotalia*, Site 918, A:211
- suterae*, *Globorotalia* cf.
East Greenland Margin, B:164
Site 918, B:170
- suterae*, *Globorotalia* rom., Site 918, A:213
- suteri*, *Globorotaloides*, Site 915, A:78
- Systematophora ancyrea*, Site 918, B:229
- tapuriensis*, *Globoquadrina*, Site 915, A:78
- tapuriensis*, "*Globoquadrina*", Site 915, B:164
- Tectatodinium* cf. *pellitum*, Site 918, B:229
- tenuispinosum*, *Homotryblum*, Site 918, B:222–223, 226, 229
- Tenuitella anfracta*, Site 914, A:63–64
- Tenuitella minutissima*, Site 918, B:240
- teretis*, *Cassidulina*
Site 914, A:62–64
Site 915, A:78
Site 916, A:96
Site 918, A:215
Site 919, A:264
- teretis*, *Cassidulina* cf., Site 918, A:215
- Thalassinoides*
lithologic units, A:198
photograph, A:203
- Thalassiosira angustilineata*, Site 919, B:218
- Thalassiosira gravida*, Site 919, B:210, 218
- Thalassiosira longissima*, Site 919, B:210
- Thalassiosira nidulus*, Site 919, B:210, 215, 219
- Thalassiosira oestrupii*, Site 919, B:210, 218
- Thalassiosira oestrupii* Zone, Site 919, B:214
- Thalassiosira trifulta*, Site 919, B:210
- Thalassiphora pelagica*
Greenland E, B:225
Site 918, B:222–223, 226, 230
- Toweius callosus*, Site 918, A:209
- transitoria*, *Praeorbulina*
East Greenland Margin, B:164
Site 918, A:213; B:170
- Transversopontis pulcher*, Site 918, A:209; B:159
- triacantha*, *Corbisema*, Site 918, B:194, 198
- Tribrachiatus orthostylus*, Site 918, A:209; B:154, 160
- Tricolpites* cf. *hians*, Site 918, B:224
- Tricolpites hians*, Site 918, B:224, 226
- trifulta*, *Thalassiosira*, Site 919, B:210
- trilobus*, *Globigerinoides*, Site 918, A:211, 213, 215; B:170
- Triskelion gorgon*, Site 918, B:194–195, 199
- truemptyi*, *Nuttallides*, Site 918, A:216
- truncatulinoidea*, *Globorotalia*, Site 914, A:64
- Turborotalia boweri*, Site 918, B:171, 188
- Turborotalia griffinae*, Site 918, A:214; B:188
- Turborotalia possagnoensis*, Site 918, B:171
- Turborotalia praecentralis*, Site 918, B:171, 188
- Turborotalia pseudomayeri*, Site 918, B:171, 188
- Turborotalia quinqueloba*
East Greenland Margin, B:176
Site 914, A:63–64
Site 917, A:118
Site 918, A:210–211, 214
Site 919, A:264
- Ulmipollenites undulosus*, Site 918, B:231
- umbilica*, *Reticulofenestra*, Site 918, A:209
- umbilicus*, *Reticulofenestra*
Site 914, A:62, 66; B:148
Site 915, A:78; B:149
Site 916, A:94
Site 917, A:117; B:149
Site 918, B:154
- umbonatus*, *Oridorsalis*
Site 918, A:216
Site 919, A:265
- undulosus*, *Ulmipollenites*, Site 918, B:231
- unicavus*, *Catapsydrax*, Site 918, A:213; B:170, 189
- universa*, *Orbulina*
East Greenland Margin, B:176
Site 918, B:165, 234, 241
- ursulae*, *Eatonicysta*
Greenland E, B:225
Site 918, B:222–223, 226, 230
- utilisindex*, *Subbotina*, Site 918, B:171
- Uvigerina abbreviata*, Site 915, A:78
- Uvigerina* sp., Site 915, A:78
- variabilis*, *Globorotaloides*
Site 915, A:78

Site 918, A:213
venezuelana, "Globigerina"
 Site 915, A:78
 Site 918, A:211, 213
veripites, Caryapollenites
 Site 916, B:221
 Site 918, B:222, 226, 231
verus, Alnipollenites
 Greenland E, B:225–226
 Site 916, B:221
vivans, Gallitellia, Site 914, A:63

Wetziella meckelfeldensis, Greenland E, B:224
wilcoxensis, Alabamina, Site 914, A:62
wilcoxensis, Pseudohastigerina, Site 918, A:214;
 B:189
woodi, Zeaglobigerina, Site 918, A:213; B:170,
 236, 241

zaandami, Melonis, Site 918, A:216
Zeaglobigerina connecta, Site 918, A:213; B:170,
 236, 241
Zeaglobigerina woodi, Site 918, A:213; B:170,
 236, 241
zealandica, Globorotalia, Site 918, A:213; B:170,
 236, 241
zoharii, Polysphaeridium, Greenland E, B:226
 zones (with letter prefixes)

Ccl, B:223–226
 CN1, Site 918, B:202
 CN2, Site 918, B:202
 CN2/CN3 boundary, Site 918, B:154
 CN4/CN3, Site 918, B:202
 CN6–CN7, East Greenland Margin, B:175,
 202
 CN9, Site 918, B:151, 202
 CN9/CN7, Site 918, B:202
 CN10, Site 918, B:202
 CN14, Site 918, A:267
 CN14/CN13 boundary, Site 918, A:267
 CN14a/CN14b boundary, Site 919, B:154
 CN15, Site 918, A:267; B:150
 CP9b, Site 918, A:209; B:154
 CP10, Site 918, A:209; B:223–224
 CP11–CP13, Site 918, B:154
 CP12, Site 918, A:209
 CP13, Site 918, A:209
 CP14a, A:78, 209, 288; B:149
 CP15, Site 915, B:149
 CP19/CP17, Site 918, B:202
 E2b, Site 918, B:223
 N4b, B:164–165, 170
 N5–N6, East Greenland Margin, B:164
 N7, Site 918, A:213
 N8, A:213; B:170, 173, 175
 N8–N9, East Greenland Margin, B:173, 175

N9, B:164, 170
 N9–14, Site 918, B:170
 N12, Site 918, A:213
 N13, Site 918, A:213
 N14, Site 918, A:213
 N16, B:164, 170
 N16–N17, East Greenland Margin, B:175
 N22, Site 919, A:264
 NN8–NN9, East Greenland Margin, B:175
 NP11–NP12, Greenland E, B:225
 NP12, Site 918, B:223–224
 NP12/NP13 boundary, B:223, 225
 NP13, Greenland E, B:225
 P1a, Greenland E, B:225
 P10, Site 918, A:214; B:171
 P11, Site 918, A:214; B:171
 P12, Site 918, A:214; B:165, 171
 P15, Site 916, B:165
 P16, Site 916, B:165
 P17, B:165
 P21, B:164, 170
 P22, Site 918, A:213; B:165, 170
 Pco, Site 918, B:223
Zoophycos
 lithologic units, A:196, 198, 205
 occurrence, A:283
 photograph, sediments, A:200–201, 207
Zygrhablithus bijugatus, Site 918, A:209; B:159