

INDEX TO VOLUME 210

This index covers both the *Initial Reports* and *Scientific Results* portions of Volume 210 of the *Proceedings of the Ocean Drilling Program*. References to page numbers in the *Initial Reports* are preceded by "A" followed by the chapter number with a colon (A1:) and to those in the *Scientific Results* (this volume) by "B" followed by the chapter number with a colon (B1:).

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, or thin section descriptions. Also excluded from the index are bibliographic references, names of individuals, and routine front matter.

The Subject Index follows a standard format. Geographical, 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 1276, for example, is given as "Site 1276, A3:1–358."

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."

SUBJECT INDEX

A

- abyssal regions, ocean circulation, A1:32
- Acadian Orogeny, muscovite, B4:4
- accretion, continental crust, B1:5
- acoustic Unit 1, seismic profiles, A1:26
- acoustic Unit 2
 - comparison at Site 1276 and Site 398, A1:28
 - seismic profiles, A1:26
- acoustic Unit 3
 - comparison at Site 1276 and Site 398, A1:27
 - seismic profiles, A1:26
- acoustic Unit 4
 - comparison at Site 1276 and Site 398, A1:27
 - isopach maps, Iberia margin, A1:55
- Africa plate. *See* Iberia/Africa plate boundary
- age vs. depth
 - models, A1:16
- Site 398, A1:76
- Site 1276, A1:70, 76; A3:266; B11:4, 7, 9; B13:47
- Albian
 - biostratigraphy, A3:79, 84, 88; B13:6–9, 19–20
 - lithologic units, A1:15; A3:44–50
 - muscovite, B4:4
 - nannofossil biostratigraphy, B11:1–9
 - paleoenvironment, A1:17; B13:19–20
 - paleoflow directions, B3:1–27

- postrift sedimentation, B1:27–28
- quartz-feldspar-lithic fragments system, B2:25
- quartz-potassium feldspar-plagioclase system histograms, B2:29
- sandstone and grainstone, B2:1–47
- sedimentation rates, A3:90
- sedimentology, B8:5–7
- unconformities, B1:13
- See also* Aptian/Albian boundary
- Albian, lower
 - biostratigraphy, A3:80, 86
 - clasts, B4:6–7
 - comparison at Site 1276 and Site 398, A1:27
 - mica, B4:6–7
 - rafting phases, B1:11–14
- Albian, lower-middle, paleoenvironment, B13:19–20
- Albian, middle, biostratigraphy, A3:79, 83, 87; B13:8–9
- Albian, upper, biostratigraphy, A3:79, 82
- Albian/Cenomanian boundary, biostratigraphy, A3:79, 82, 87
- albite
 - hydrothermal alteration, A3:56–57
- lithologic units, A4:7
- porphyroblasts, A3:239
- alkali feldspar
 - hydrothermal alteration, A3:56–57
- lithologic units, A3:28, 33

porphyroblasts, A3:239
 Alleghanian Orogeny, muscovite, B4:4
 allochems, photograph, A3:131
 Alps, lithology compared with Newfoundland Basin, B9:23–25
 alteration
 basalt flows, B9:14–15
 lithologic units, A4:6–8
 photomicrograph, A3:175
See also hydrothermal alteration
 alteration, thermal
 Rock-Eval pyrolysis, A3:97
 sills, B1:23
 aluminum
 basalt flows, B9:16
 black shale, B10:5
 lithologic units, A3:54, 98
 vs. depth, A3:280
See also barium/aluminum ratio; chromium/aluminum ratio; major elements/aluminum ratio; minor elements/aluminum ratio; nickel/aluminum ratio; trace elements/aluminum ratio; vanadium/aluminum ratio
 aluminum oxide
 Albian–Turonian sedimentology, B8:7
 black shale, B8:16
 fine-grained sediments, B8:14
 lithologic units, A3:29, 53–54
 middle–upper Eocene sedimentology, B8:13
 Turonian–uppermost Santonian sedimentology, B8:9
 upper Paleocene–middle Eocene sedimentology, B8:12
 vs. depth, B8:40
 vs. iron oxide, B8:30
 vs. magnesium oxide, B8:26
 vs. potassium oxide, B8:25, 34
 vs. silica, A3:251; B8:31
 vs. sodium oxide, B8:27
 vs. titanium oxide, B8:28, 33, 37, 39
 amalgamated beds, lithologic units, A3:27
 Ammodiscidae
 biostratigraphy, A1:23
 lithologic units, A4:8
 analcime, sill zoning, A3:67
 anisotropy. *See* velocity anisotropy
 Anomaly M0
 crust, B1:15–16
 extension rates, B1:20
 rift systems, A1:5–6
 Anomaly M1, crust, B1:15–16
 Anomaly M3
 crust, B1:16
 origin, A1:11
 Anomaly M11, extension rates, B1:20
 Anomaly M17
 rift systems, A1:5–6
 rifting phases, B1:8
 Anomaly M20, rifting phases, B1:8
 apatite, sill zoning, A3:67
 Apennines, lithology compared with Newfoundland Basin, B9:23–25

apophyses, Lower Sill complex, A3:69
 Aptian
 biostratigraphy, A3:81, 86; B13:6–8
 lithologic units, A1:15; A3:46–50, 61–63
 quartz-feldspar-lithic fragments system, B2:25
 quartz-potassium feldspar-plagioclase system histograms, B2:29
 synrift sedimentation, B1:26–27
 Aptian, upper
 biostratigraphy, A3:80
 lithologic units, A3:39–57, 61–63
 rifting phases, B1:11–14
 sedimentation rates, A3:90
 Aptian event, synrift sedimentation, B1:26–27
 Aptian/Albian boundary
 comparison at Site 1276 and Site 398, A1:27
 subcontinental mantle lithosphere, B1:13
 argon isotopes, muscovite, B4:1–13
 Athy's law, porosity and lithology automatic association with laboratory measurements, B7:4
 Atlantic Ocean central N, stratigraphy compared with conjugate Iberia margin, A3:63–64
 Atlantic Ocean N
 bathymetry, A1:39
 Cretaceous paleogeography, B3:18
 geology, A1:12–13
 Atlantic Ocean western central N, compared with conjugate Iberia margin, A3:57–63
 augite, photomicrograph, A3:247, 250
 authigenesis
 lithologic units, A3:24
 photomicrograph, B2:24
 Avalon Terrane
 continental crust, B1:5
 Cretaceous paleolatitude, B15:36
 Avalon unconformity, rifting, B1:11
 Avalon Uplift, provenance of gravity-flow deposits, B2:5–8

B

barium
 black shale, B8:16; B10:5
 fine-grained sediments, B8:15
 productivity, A3:98; B10:5
 vs. depth, B8:55
 barium/aluminum ratio
 sediments, A3:98
 vs. depth, A3:280
 Barremian
 quartz-potassium feldspar-plagioclase system histograms, B2:29
 rifting phases, B1:11–14
 sedimentation, A1:12; A3:64
 synrift sedimentation, B1:26–27
 Barremian, lower
 rifting phases, B1:9–11
 synrift sedimentation, B1:25–26
 Bartonian, biostratigraphy, A3:85–86
 basalt flows
 geochemistry, B9:14–19, 32

- lithologic units, A1:22; A4:4–6
 photomicrograph, B9:54–55
- basalt flows, massive, lithologic units, B9:8–9, 11–13
- basalts
 hafnium-thorium-tantalum system, B9:61
 niobium-zirconium-yttrium system, B9:58
 titanium-zirconium-yttrium system, B9:58, 61
 trace elements, B9:59, 62
- basalts, aphyric
 photograph, A4:17
 remanent magnetization, A1:23–24
- basalts, brecciated massive, photograph, B9:50
- basalts, fractured massive, photograph, B9:49–52
- basalts, medium-grained brecciated, photograph, A4:18
- basement
 Cretaceous, A1:28–29; B9:33
 magnetic anomalies, B1:17
 rift systems, A1:5–6
 SCREECH Transect 2, A5:6
 seismic profiles, A1:26
 seismic surveys, A4:11–12
- basement, serpentinized, Iberia-Galicia margin compared with Newfoundland Basin, B9:20–21
- basement, serpentinized ultramafic, lithologic units, B9:5–6
- basement ridges, gabbros, A1:32–33
- bastite, photograph, A4:14
- Bathonian, rifting phases, B1:8
- bathymetry, multibeam, SCREECH Transect 2, A5:1–36
- bathymetry, Newfoundland margin, A1:47; A5:9–10; B1:47; B2:16; B8:22; B9:42; B13:36; B14:20; B15:18
- Bermuda Rise Formation, lithologic units, A3:63
- Berriasian
 rifting phases, B1:7–9
 synrift sedimentation, B1:25–26
- bioclastic debris
 lithologic units, A3:33–34, 45
 photomicrograph, A3:150
- bioclasts
 fluid inclusions, B5:7–8
 lithologic units, A3:22–25
 photograph, A3:135
 photomicrograph, A3:171
 provenance of Eocene sandstone, B2:9–10
 sandstone, B2:4–5
- bioclasts, porous, photomicrograph, A3:133
- biostratigraphic datums, vs. depth, A3:266–267; B13:48
- biostratigraphy
 Newfoundland Basin, B13:1–53
 sedimentation rates, A3:88–90
 Site 1276, A1:16–19; A3:73–90
 Site 1277, A1:23; A4:8
 summary, A3:331
 vs. depth, A3:263–265
- biotite
 lithologic units, A3:27, 37
 photomicrograph, A3:152, 174, 206, 208, 223–224; B2:34
 sandstone, B2:4–5
- biotite, altered, photomicrograph, B2:22
 biotite, euhedral, sill/sediment contacts, A3:66
- bioturbation
 lithologic units, A3:38
 X-ray diffraction data, A3:237
- black shale
 critical events, A1:19, 31
 geochemistry, A1:20
 hydrothermal alteration, A3:57
 lithologic units, A3:42–43, 54–56
 multiproxy characterization of geochemistry, B10:1–16
 nitrogen isotopes, B10:4
 oceanic anoxic events, A3:97–98; B10:5
 origin, B8:16–17
 paleoenvironment Site 1276, A1:17; B13:20
 photograph, A3:186, 191, 213
 postrift sedimentation, B1:29–31
 redox, A3:98
 Rock-Eval pyrolysis, B10:4–5
- black shale, finely laminated, origin, A3:55–56
- black shale, laminated, photograph, A1:69; A3:193
- Blake Ridge Formation, lithologic units, A1:15, 17; A3:63
- Blake-Bahama Formation, synrift sedimentation, B1:25–27
- Bonarelli event
 critical events, A1:18–19; B13:21
 postrift sedimentation, B1:27
- boreal taxa, paleoenvironment, A1:17
- boreholes. *See* seismic-borehole correlation
- breccia
 hydrothermal alteration, A3:57
 lithologic units, A1:22; A4:5–6
 synrift sedimentation, B1:26–27
- breccia, basaltic, lithologic units, B9:11–13
- breccia, gabbro, lithologic units, B9:5–6
- breccia, peridotite, Iberia-Galicia margin compared with Newfoundland margin, B9:20–21
- breccia, polymict
 lithologic units, A4:6; B9:7–8, 10–11
 photomicrograph, B9:53
- breccia, serpentinite, Iberia-Galicia margin compared with Newfoundland margin, B9:20
- breccia, serpentinized peridotite, Iberia-Galicia margin compared with Newfoundland margin, B9:21
- breccia pipes, photograph, A3:254
- brecciation, lithologic units, B9:8–9
- bryozoans, photomicrograph, A3:151
- burrow fills
 photomicrograph, B2:20
 X-ray imaging, B6:5
- burrows
 lithologic units, A3:22, 28, 32, 36–37, 41–58
 photograph, A1:65; A3:139–140, 142, 144, 153–154, 158–162, 166–167, 173, 177, 227, 239
 photomicrograph, A3:233
- burrows, elongated, photograph, A3:136
- burrows, folded, photograph, A3:259
- burrows, mud-filled, photograph, A3:130

C

cadmium, black shale, B8:16; B10:5
 calc-siltite, ferruginous, photomicrograph, B9:53, 55
 calcite
 hydrothermal alteration, A3:57
 lithologic units, A3:33, 37; A4:7
 Lower Sill complex, A3:69
 sill hydrothermal alteration, A3:68
 X-ray diffraction data, A3:237
 calcite spar
 lithologic units, B9:8–9
 photograph, A3:172, 227, 236; A4:17–18
 calcite spar, “dogtooth,” lithologic units, A4:5
 calcite spar cement
 photograph, A3:196, 228–229; B9:49–52
 photomicrograph, B9:54–55
 calciturbidites
 middle–upper Eocene sedimentology, B8:12–13
 upper Paleocene–middle Eocene sedimentology, B8:10–12
 calcium, lithologic units, A3:54
 calcium oxide
 Albian–Turonian sedimentology, B8:8
 middle–upper Eocene sedimentology, B8:13
 sills, A3:68
 vs. depth, B8:45
 vs. silica, A3:251
 Callovian, rifting phases, B1:6–7
 Campanian
 biostratigraphy, A3:81, 84, 87; B13:10–12
 comparison at Site 1276 and Site 398, A1:27
 paleoenvironment, B13:21–22
 postrift sedimentation, B1:29–31
 quartz-feldspar-lithic fragments system, B2:26
 Campanian, lower
 lithologic units, A3:30–36, 60–61
 sedimentology, B8:10
 Campanian, middle–lower Paleogene interval, nanno-fossil bioevents, B13:45
 Campanian, upper
 biostratigraphy, A3:78
 remanent magnetization, A1:19
 carbon, inorganic, sediments, A3:96, 345–348
 carbon, organic
 black shale, B8:16–17; B10:3–4
 sediments, A3:349–355
 carbon, total organic
 lithologic units, A3:54, 96; B10:11–13
 oceanic anoxic events, A3:97–98
 postrift sedimentation, B1:27–28
 Rock-Eval pyrolysis, A3:97
 vs. carbon/nitrogen ratio, B10:8
 vs. depth, A1:73; A3:278–281
 vs. nitrogen isotopes, B10:9
 carbon isotopes, black shale, B10:11–13
 carbonate cement, microcrystalline, photomicrograph, B2:22
 carbonate cement, poikilotopic
 photomicrograph, B2:21
 provenance, B2:4–5

carbonate compensation depth
 biostratigraphy, A3:76–88; B13:19–25
 comparison at Site 1276 and Site 398, A1:27–28
 fine-grained sediments, B8:14
 lithologic units, A1:15, 17; A3:25, 29–30, 35–36, 43–44, 46, 49–50, 54–56, 62–64
 middle–upper Eocene sedimentology, B8:13
 postrift sedimentation, B1:31–32
 synrift sedimentation, B1:25
 carbonate content
 sediments, A3:29, 96, 345–348; B10:11–13
 upper Paleocene–middle Eocene sedimentology, B8:11–12
 vs. depth, A1:73; A3:279
 vs. velocity, A3:292
 vs. x-direction velocity, A3:293
 carbonate lenses, photograph, A3:234
 carbonates
 deposition, A3:59–60
 photomicrograph, A3:175, 223
 rifting phases, B1:6–7
 synrift sedimentation, B1:25–27
 carbonates, authigenic
 lithologic units, A3:24
 photomicrograph, A3:226
 carbonates, lower Campanian–upper Paleocene sedimentology, B8:10
 carbonates, pelagic, deposition, A3:62
 carbonates, poikilotopic, photomicrograph, A3:206
 carbon/nitrogen ratio
 black shale, B8:16–17; B10:3–4
 sediments, A1:20; A3:96, 349–352; B10:11–13
 vs. depth, A1:73; A3:277, 279
 vs. total organic carbon, B10:8
 Caribbean bioprovince, postrift sedimentation, B1:31
 Carnian, rifting phases, B1:6
 Carson Basin, rifting phases, B1:6
 cataclasites
 lithologic units, B9:11–13
 remanent magnetization, A1:23–24
 cataclasites, foliated, lithologic units, A4:7
 cataclasites, gabbro, lithologic units, A1:23
 cataclasites, sheared gabbro, photomicrograph, B9:54
 cementation
 lithologic units, A3:29, 48, 50–52
 photograph, A3:235
 X-ray imaging, B6:5
 Cenomanian
 biostratigraphy, A3:81, 86; B13:8–10
 comparison at Site 1276 and Site 398, A1:27
 lithologic units, A3:41–58
 paleoenvironment, B13:20–21
 postrift sedimentation, B1:27–28
 quartz-feldspar-lithic fragments system, B2:26
 quartz-potassium feldspar-plagioclase system histograms, B2:29
 sedimentation, A1:12; A3:64
 See also Albian/Cenomanian boundary; mid-Cenomanian Event
 Cenomanian, upper, sedimentation, A3:63–64

- Cenomanian/Turonian boundary
 biostratigraphy, A3:79
 lithologic units, A3:39
 postrift sedimentation, B1:28–31
- Cenomanian–Turonian interval, nannofossil bioevents, B13:44
- Cenozoic, lower, diagenesis, B8:1–63
- Cenozoic, nannofossils, A3:332–334
- Central Iberian Zone, rifting phases, B1:6
- cerium
 basalt flows, B9:16–17
 fine-grained sediments, B8:15
 lower Campanian–upper Paleocene sedimentology, B8:10
 vs. depth, B8:58
- chalk, nannofossil, synrift sedimentation, B1:25–27
- chilled contacts, relation to Lower Sill complex, A3:69–70
- chilled margins
 lithologic units, A4:5; B9:8–9
 sill/sediment contacts, A3:66
- chlorite
 basalt flows, B9:14–15
 lithologic units, A4:7
 Lower Sill complex, A3:69
 middle–upper Eocene sedimentology, B8:12–13
 sandstone, B2:4–5
 sill hydrothermal alteration, A3:68
 sill zoning, A3:67
 X-ray diffraction data, A3:52, 237
- chlorite, magnesian
 hydrothermal alteration, A3:56–57
 porphyroblasts, A3:239
- Chondrites*
 lithologic units, A3:22–25, 34, 37
 photograph, A3:153, 158, 161–162
- chromium
 basalt flows, B9:16
 black shale, B8:16; B10:5
 fine-grained sediments, B8:14
 lithologic units, A3:29, 32, 35, 54
 oceanic anoxic events, A3:98
 vs. depth, B8:51
- chromium/aluminum ratio
 oceanic anoxic events, A3:98
 vs. depth, A3:280
- Chron C21r
 magnetostratigraphy, A3:93–94
 remanent magnetization, A1:19
- Chron C29r, magnetostratigraphy, A3:93–94
- Chron C33r, magnetostratigraphy, A3:93–94
- Chron M0, rifting, B1:45–46
- Chron M8, extension rates, B1:20
- clasts
 lithologic units, A1:22; A3:28; A4:5–6
 photomicrograph, B2:23
See also bioclasts; intraclasts
- clasts, angular altered sheared serpentized harzburgite, photograph, B9:48
- clasts, aphyric basalt, photograph, A4:19
- clasts, basalt, photograph, A4:18
- clasts, calcareous mud, photograph, A3:215
- clasts, calcareous mudstone rip-up, photograph, A3:134, 146
- clasts, carbonate, lithologic units, A3:22–25, 33–34
- clasts, gabbro
 lithologic units, A4:7; B9:10–11
 photograph, B9:48
- clasts, granules, lithologic units, A3:37
- clasts, hyaloclastite, photograph, B9:50
- clasts, lithic, photomicrograph, A3:171
- clasts, micrite, lithologic units, A3:28
- clasts, micritic carbonate lithic, photomicrograph, A3:149
- clasts, mud
 lithologic units, A3:22–25
 photograph, A1:63; A3:220–221
- clasts, mudstone, lithologic units, A3:21–25, 58–59
- clasts, mudstone rip-up, photograph, A3:132
- clasts, muscovite, argon isotopes, B4:1–13
- clasts, mylonite, lithologic units, B9:7–8
- clasts, rip-up
 lithologic units, A3:26–28
 photograph, A3:201
- clasts, sandstone, photograph, A3:214, 218
- clasts, scattered elongate rip-up, photograph, A3:202
- clasts, serpentinite, lithologic units, A1:22; B9:7–8
- clasts, serpentinite + gabbro, photograph, A4:20, 22
- clasts, siltstone, photograph, A3:163
- clasts, subangular plutonic, photomicrograph, A3:182
- clasts, subrounded mudstone, photograph, A3:132
- clasts, subrounded siltstone, photograph, A2:203
- clasts, volcanic, photomicrograph, A3:174
- clay minerals
 Albian–Turonian sedimentology, B8:5–7
 photomicrograph, A3:226; B2:33–34
 sill zoning, A3:67
 X-ray diffraction data, A3:52
- clays
 photograph, A3:176, 178
 photomicrograph, A3:171
- clays, hemipelagic, synrift sedimentation, B1:25
- claystone
 fluid inclusions, B5:7–8
 lithologic units, A1:14; A3:21–30, 32–33, 42, 44–48, 58–60
 photograph, A3:186, 213, 216, 232
 postrift sedimentation, B1:27–28
 provenance, B2:4–5
- claystone, biosiliceous, postrift sedimentation, B1:31
- claystone, bioturbated greenish, photograph, A3:189
- claystone, burrowed hemipelagic, photograph, A3:192
- claystone, calcareous
 photograph, A3:32–33, 161
 X-ray imaging, B6:16
- claystone, hemipelagic, synrift sedimentation, B1:25
- claystone, laminated, photograph, A3:190, 194, 212, 234, 236
- claystone, laminated calcareous, lithologic units, A3:42–43
- claystone, laminated carbon-rich, photograph, A3:189
- claystone, pelagic, postrift sedimentation, B1:29–31
- climbing ripple marks, photograph, A3:205
- clinoptilolite, lithologic units, A3:30

clinopyroxene
 basalt flows, B9:14–15
 diabase sills, A3:243
 sill zoning, A3:67
 Collector anomaly, continental crust, B1:5
 color bands
 lithologic units, A3:38
 photograph, A3:155, 159, 162, 166, 185
 compaction
 deformation structures, A3:71–73
 lithologic units, A3:29, 50–52
 mudstone, A1:22
 vs. depth, A1:75
 compaction, differential, photograph, A3:153–155, 228
 compression, in-plane, tectonic models, B9:30
 compressional wave velocity
 igneous rocks, A4:10–11
 sediments, A3:101–104
 vs. depth, A3:290–291; B14:22
 concretions
 lithologic units, A3:38
 X-ray imaging, B6:5
 See also microconcretions
 concretions, carbonate
 lithologic units, A3:22–25
 photograph, A3:231
 photomicrograph, A3:233
 concretions, pyrite, photograph, A3:164, 230
 concretions, septarian, photograph, A3:236
 concretions, siderite, fluid inclusions, B5:13–14
 conglomerate
 lithologic units, B9:7–8, 10–11
 photomicrograph, B9:53
 See also microconglomerate
 conglomerate, carbonate granule, lithologic units, A3:26–28
 conglomerate, chaotic mud-clast, photograph, A1:64; A3:220–221
 conglomerate, graded, photograph, A3:146
 Coniacian
 biostratigraphy, A3:78
 comparison at Site 1276 and Site 398, A1:27
 conjugate margins, lithostratigraphy, A1:71; A3:57–63, 241; B2:19; B4:11
 continental breakup
 Aptian, A3:53
 seafloor spreading, B9:1–69
 tectonic models, B9:31–33, 66–67
 continental margins. *See* conjugate margins
 contorted bedding
 photograph, A1:66; A3:222
 structure, A3:168
 convoluted bedding, photograph, A1:67; A3:49, 196, 205, 217–218, 225, 230
 cooling units, paleosecular variations, B15:10–11
 copper
 black shale, B8:16; B10:5
 Turonian–uppermost Santonian sedimentology, B8:9
 vs. depth, B8:57
 core barrels, magnetic vs. nonmagnetic comparison, A3:94–95

core samples, three-dimensional X-ray CT images, B6:19–20
 cores. *See* seismic-core correlation
 correlation
 Albian–Turonian sedimentology, B8:8
 lithologic units, A3:111–112
 lower Campanian–upper Paleocene sedimentology, B8:10
 sills, A3:112–113
 Turonian–uppermost Santonian sedimentology, B8:9
 upper Paleocene–middle Eocene sedimentology, B8:12
 cracks, photograph, A4:26
 crenulations
 lithologic units, A3:21–25
 photograph, A3:136–137
 Crescent Peaks Member, postrift sedimentation, B1:30
 Cretaceous
 biostratigraphy, A1:16
 paleoceanography, A1:28–29
 paleogeography, B3:18
 paleolatitude, B15:1–37
 palynomorph biostratigraphy, A3:86–87
 provenance of gravity-flow deposits, B2:5–8
 radiolarian biostratigraphy, A3:87–88
 Cretaceous, Lower
 foraminiferal biostratigraphy, A3:82–83
 geology, A1:12–13
 nannofossil biostratigraphy, A3:79–80
 quartz-feldspar-lithic fragments, B2:30
 rifting phases, B1:6–7
 seafloor, B9:1–69
 Cretaceous, Upper
 foraminiferal biostratigraphy, A3:81–82
 multicolored mudstone, A1:31–32
 nannofossil biostratigraphy, A3:78–79
 unconformities, A3:74
 Cretaceous Normal Superchron
 magnetostratigraphy, A3:94
 remanent magnetization, A1:19; A3:92
 Cretaceous/Tertiary boundary
 biostratigraphy, B13:12–13
 critical events, A1:18, 32
 lithologic units, A3:34–35
 nannofossil biostratigraphy, A3:77–78
 photograph, A3:177
 critical events, stratigraphy, A1:17–19
 cross laminations
 lithologic units, A3:27–28, 33–34
 photograph, A3:143, 165–166, 188, 197–198
 photomicrograph, A3:226
 crust
 geophysical surveys, A1:6–7
 SCREECH Transect 2, A5:6
 thinning, A1:11
 crust, continental
 rift systems, A1:5–6
 SCREECH Transect 2, A5:6
 crust, prerift, continental crust, B1:5
 crust, transitional, origin, A1:11–12

Curie temperature
 Cretaceous, B15:9
 peridotites, B1:17
 current ripples, photograph, A3:184
 current-ripple cross laminations, photograph, A3:188
 current-ripple laminations, lithologic units, A3:27
Cyclamminidae
 biostratigraphy, A1:23
 lithologic units, A4:8

D

Danian
 biostratigraphy, A3:77, 86
 critical events, A1:18
See also Cretaceous/Tertiary boundary
 debris flows
 lithologic units, A1:14; A3:25
 lithostratigraphy, A3:58–59, 62
 photograph, A3:215, 222
 debris flows, sandy, photograph, A3:134
 debris flows, silty, photograph, A2:203, 205
 deformation
 Iberia-Galicia margin compared with Newfoundland margin, B9:20–21
 photograph, A4:21
 deformation, ductile
 photograph, A3:219
 structures, A3:71–73
 tectonic models, B9:26–28
 deformation, late-stage brittle, tectonic models, B9:29–30
 deformation, plastic, photograph, A3:157, 221
 deformation, syndepositional
 lithologic units, A3:27
 photograph, A3:147
 deformation structures
 dip, A3:71–73
 lithologic units, A3:71–73
 vs. depth, A3:256
 demagnetization
 Cretaceous, B15:27–32
 sediments, A3:90–93
 Zijderveld diagrams, A3:270, 274; A4:9, 30; B15:19–21
 demagnetization, alternating-field, discrete samples, B15:7–8
 demagnetization, thermal, discrete samples, B15:7–8
 density
 igneous rocks, A1:24; A4:10
 lithology automatic association with laboratory measurements, B7:1–21
 sediments, A3:99–101
 seismic-borehole correlation, A3:107–108
 seismic-core correlation, B14:6–9
 density, bulk
 sediments, A1:21
 time-depth conversion, A3:108–110
 vs. depth, A1:74; A3:283–286; A4:31; B7:14; B14:22
 density, gamma ray attenuation bulk, time-depth conversion, A3:108
 density, grain, vs. depth, A3:285–286; A4:31; B7:14

deposition, hemipelagic, lithostratigraphy, A3:58–59, 64
 deposition, lithologic units, A3:25, 29–30, 35–36, 38–39, 43–44, 46, 49–50
 dewatering, lithologic units, A3:36–37
 diabase
 lithologic units, A1:15
 magnetization, B15:9–10
 diabase, aphyric, petrology, A3:65–70
 diabase, massive, sill zoning, A3:67
 diagenesis
 data, B7:21
 geochemistry, B8:1–63
 lithologic units, A1:14; A3:24, 29, 35, 38, 50–52
 photograph, A3:155, 159, 162, 176, 227, 234–235
See also cementation; compaction; lithification
 diatoms, biostratigraphy, A3:88
 dikes, alkaline, postrift magmatism, B1:24
 dikes, sedimentary, photograph, A3:144
 dinoflagellate datums, distribution, A3:338
 dinoflagellates, biostratigraphy vs. depth, B13:41–43
 dip

deformation structures, A3:71–73
 paleocurrents, B3:1–27
 reflections, B3:24
 vs. depths of core tops, B3:20

dissolution
 biostratigraphy, A3:76
 lithologic units, A3:35
 nannofossils, B13:6–25
 photomicrograph, B2:20
 dolomitic, photomicrograph, A3:233
 dolomite, deposition, A3:62
 dropstone, glacial, photograph, A4:19
 dunites, lithologic units, A1:23

E

echinoderms
 lithologic units, A3:22–25
 provenance of Eocene sandstone, B2:10
 echinoid spines, photomicrograph, A3:223
 Eocene
 benthic foraminifers, B12:1–8
 muscovite, B4:4
 paleoenvironment, B13:23
 provenance of sandstone, B2:9–10
 quartz-feldspar-lithic fragments system, B2:27
 quartz-potassium feldspar-plagioclase system histograms, B2:29
 remanent magnetization, A1:19
 sandstone and grainstone, B2:1–47
See also Paleocene/Eocene boundary; Paleocene/Eocene Thermal Maximum; Paleocene–Eocene transition
 Eocene, lower
 biostratigraphy, A3:85; B13:17
 lithologic units, A3:25–30, 59–60
 sedimentation rates, A3:89
 Eocene, lower-middle, sedimentation, A3:63

Eocene, middle
 biostratigraphy, A3:75, 80, 85, 87; B13:17–19
 comparison at Site 1276 and Site 398, A1:28
 lithologic units, A1:15; A3:21–30, 58–60
 lithostratigraphy, A3:58–60
 magnetostratigraphy, A3:93–94
 photograph, A3:144
 postrift sedimentation, B1:31–33
 sedimentation, A3:63
 sedimentation rates, A3:89
 sedimentology, B8:10–17
 Eocene, middle–upper, comparison at Site 1276 and Site 398, A1:28
 Eocene, upper
 biostratigraphy, A3:75, 83
 lithologic units, A3:21–25, 58–59
 sedimentology, B8:12–13
 Eocene–lower Oligocene sequence, sedimentation, A1:12
 epeirogeny, rifting phases, B1:6
 epiclastics, Paleocene, B2:8
 Estremadura Spur, rift systems, A1:5–6
 ethane
 sediments, A3:95
 vs. depth, A1:73; A3:277
See also methane/ethane ratio
 Europe, Cretaceous paleolatitude, B15:36
 evaporites, rifting phases, B1:8
 exhumation, mantle, B1:9–11; B9:1–69
 extension
 continental crust, A5:36
 crust, A1:11–12
 rates, B1:19–20
 rift systems, A1:4–6
 rifting phases, B1:6–15
 tectonic models, B9:26–28
 extension, intraplate, rifting, B1:12–15
 extension, transitional, magnetic anomalies, B1:15–21

F

fabric
 equal-area rose diagrams, B3:21–22
 lithologic units, A4:7
 fabric, grain, planar laminations, B3:26–27
 fabric, mylonite, photograph, A4:26
 fault gouge, lithologic units, A4:7
 faulting, tectonic models, B9:30–31
 faults
 deformation structures, A3:71–73
 SCREECH Transect 2, A5:6; B1:7
 seismic profiles, A1:26
 faults, conjugate normal, photograph, A3:258
 faults, detachment, lithologic units, B9:7–8
 faults, normal
 deformation structures, A3:71–73
 lithologic units, A3:21–25
 rifting, B1:12
 faults, reverse, photograph, A3:138, 262
 faults, soft-sediment, sediments, A3:29
 faults, syndepositional, lithologic units, A3:35

fecal pellets
 lithologic units, A3:22–25
 photograph, A3:232
 photomicrograph, A3:171, 233
 feldspar
 lithologic units, A3:37
 photomicrograph, A3:181, 206; B2:21
 feldspar, sericitized, photomicrograph, A3:182
 ferrogabbro, postrift magmatism, B1:24
 fish bones, biostratigraphy, A3:88
 fish teeth, biostratigraphy, A3:88; B13:19
 fissures, lithologic units, B9:11–13
 fissures, neptunian
 lithologic units, A4:4–6
 photograph, A4:23
 Flemish Cap
 provenance of gravity-flow deposits, B2:5–8
 rift systems, A1:4–6; B1:9
 Flemish Cap Graben, rift systems, A1:4–6
 Flemish Hinge, rift systems, A1:5–6
 Flemish Pass Basin
 rift systems, A1:4–6
 rifting phases, B1:6
 fluid inclusions
 petrography, B5:7–14
 quartz, B5:1–21
 folds
 axial plane, A3:259
 deformation structures, A3:71–73
 lithologic units, A3:24
 photograph, A3:136–137, 219
See also microfolds
 folds, asymmetric
 deformation structures, A3:72–73
 photograph, A3:261
 folds, chevron-type
 axial planes, A3:257
 photograph, A3:257
 folds, recumbent, photograph, A3:179
 folds, similar, lithologic units, A3:48
 folds, soft-sediment, sediments, A3:29
 folds, synsedimentary
 lithologic units, A3:45
 photograph, A3:148
 foliation
 lithologic units, A4:7–8
 photograph, A4:26
 foliation, high-temperature, photograph, A4:14, 27
 foliation, mylonitic, lithologic units, A4:7–8
 foraminiferal datums, distribution, A3:339
 foraminiferal zoning, vs. age, B13:37–40
 foraminifers
 biostratigraphy, A1:16
 lithologic units, A3:22–25, 28, 42
 photomicrograph, B2:20
 provenance of Eocene sandstone, B2:10
 foraminifers, agglutinated, photomicrograph, A3:183
 foraminifers, agglutinated benthic, photograph, A4:19
 foraminifers, benthic
 biostratigraphy, A1:23; A3:83–84; A4:31
 distribution, A3:336

Eocene, B12:1–8
 lithologic units, A3:26–28
 photomicrograph, A3:149–151
 postrift sedimentation, B1:31
 foraminifers, planktonic
 biostratigraphy, A3:80–83; B13:1–53
 biostratigraphy vs. depth, B13:41–43
 photomicrograph, A3:133, 150, 171, 209
 fractures
 lithologic units, A1:23; A4:4–8
 photograph, A4:18, 20
 fractures, calcite-filled, photograph, A4:24

G

gabbro clasts, lithologic units, A1:22
 gabbro grains, photograph, A4:24
 gabbros, altered
 lithologic units, A4:5–6
 photograph, A4:21; B9:46
 gabbros, foliated, photograph, A4:21
 gabbros, tectonized, lithologic units, A4:6–7
 Galicia Bank
 lithology comparison with Newfoundland margin, B9:19–22
 lithostratigraphy, A3:58–63
 rift systems, A1:4–6; B1:9–15
 seismic profiles, A1:26
 Galicia Interior Basin
 rift systems, A1:4–6
 rifting phases, B1:6
 Galicia margin
 seismic profiles, B1:50–51
See also Iberia-Galicia margin
 gamma rays
 sediments, A1:21; A3:105–106
 vs. depth, A1:74; A3:299–303; B7:16
 gateways, geology, A1:12–13
 geochemistry
 diagenesis, B8:1–63
 multiproxy characterization of black shales, B10:1–16
 shale composite, B8:59
 Site 1276, A1:20–21; A3:95–98
 Site 1277, B9:68–69
 geochronology, Newfoundland Basin, B4:1–13
 geology, rift systems, A1:4–6; B1:1–55
 geophysical data, marine, SCREECH Transect 2, A5:1–36
 geophysical surveys, crust, A1:6–7
 Gibraltar. *See* Newfoundland-Gibraltar Fracture Zone
 glauconite
 lithologic units, A3:26–28, 33–34, 37
 photograph, A3:131, 149
 photomicrograph, A3:152, 182, 223; B2:20
 sandstone, B2:5
 glauconite, epigenetic, photomicrograph, A3:150
Globotruncana orientalis, photomicrograph, A3:171
 goethite, lithologic units, A3:38
 grabens, photograph, A3:258
 graded bedding
 lithologic units, A3:26–60
 photograph, A1:65; A3:131–132

grain size, sediments, B7:18, 20
 grainstone
 lithologic units, A3:21–28, 33–34, 48–49, 60–61
 petrography, B2:4–5
 petrology, B2:1–47
 photograph, A3:131, 154–156, 165
 photomicrograph, A3:133, 149–151, 171, 209
 grainstone, carbonate, photograph, A3:142–145, 163, 166
 grainstone, carbonate cement, photomicrograph, A3:149, 151
 grainstone, graded, photograph, A3:138–142, 144, 146, 176, 178
 grainstone, laminated, photograph, A3:131, 141–142
 grainstone, massive poorly sorted, photograph, A1:63
 grainstone, middle-grained, fluid inclusions, B5:11–12
 grainstone, muddy matrix, photomicrograph, A3:149–150
 grainstone, planar-laminated carbonate, photograph, A1:66; A3:163, 169
 grainstone, recrystallized, petrology, A3:65–66
 grainstone, redeposited graded, photograph, A3:132
 Grand Banks
 continental crust, B1:5
 geochronology, B4:1–13
 magnetic Anomaly M1, A1:43–44
 rift systems, A1:4–6
 Grand Banks-Iberia platform, rifting phases, B1:6
 granule grade base, photograph, A3:200
 granules, carbonate, photograph, A3:134–135, 145, 234
 granulestone
 lithologic units, B9:8
 photograph, B9:49
 gravity anomalies, maps, A5:35
 gravity surveys, SCREECH Transect 2, A5:1–36
 gravity-flow deposits
 biostratigraphy, B13:24–25
 lithologic units, A1:14; A3:37–38, 42, 61–62, 64
 passive margins, B2:1–47
 photograph, A1:67; A3:217, 219, 230
 postrift sedimentation, B1:29–31
 Greenland. *See* Norwegian-Greenland Sea

H

hafnium-thorium-tantalum system, basalts, B9:61
 harzburgites, lithologic units, A1:23
 harzburgites, serpentinized
 lithologic units, B9:5–6
 tectonic models, B9:25–26
 harzburgites, serpentinized brecciated, photograph, B9:46
 harzburgites, serpentinized spinel, mantle exhumation, B1:14–15
 Hatteras Formation, sedimentation, A1:12; A3:64
 Hauterivian
 quartz-potassium feldspar-plagioclase system histograms, B2:29
 rifting phases, B1:8
 synrift sedimentation, B1:25–27
Helcodromites (?), lithologic units, A3:22–25

Hettangian, rifting phases, B1:6
 hexane, sediments, A3:95
 hiatuses
 biostratigraphy, B13:24–25
 comparison at Site 1276 and Site 398, A1:27–28
 lithologic units, A1:14–15
 sedimentation, A1:13
 Hibernia Field, provenance of gravity-flow deposits, B2:6
 Horseshoe Basin, rifting phases, B1:6
 hyaloclastite
 lithologic units, A4:4–6
 photograph, A4:17, 19, 23; B9:50–52
 photomicrograph, B9:54–55
 hydrocarbons
 headspace gases, A3:342–344
 sediments, A3:353–355
 hydrocarbons, volatile, sediments, A3:95
 hydroclastite, lithologic units, B9:11–13
 hydrogen, sediments, A3:96, 349–352
 hydrogen index
 black shale, B10:4–5
 sediments, A3:353–355
 vs. depth, A3:281
 vs. oxygen index, B10:10
 hydrothermal alteration
 photograph, A1:68; A3:238–240
 photomicrograph, A3:246
 sediments, A3:56–57
 sills, A3:68
 See also alteration
 hysteresis, igneous rocks, B15:25

I

Iberia Abyssal Plain
 lithology comparison with Newfoundland margin, B9:19–22
 rift systems, A1:4–6
 Iberia margin
 compared with western central North Atlantic, A3:57–63
 rift systems, A1:1–78
 stratigraphy compared with central Atlantic Ocean N, A3:63–64
 stratigraphy comparison with Site 1276, A1:24–28
 See also Grand Banks-Iberia platform; Newfoundland-Iberia rift
 Iberia/Africa plate boundary, postrift magmatism, B1:24
 Iberia-Galicia margin, lithology comparison with Newfoundland margin, B9:19–22
 Iberia-Newfoundland rift
 lithology compared with Alps and Apennines, B9:23–25
 lithology compared with Iberia-Galicia margin, B9:19–22
 ichthyoliths, biostratigraphy, A3:88
 igneous petrology
 Site 1276, A1:15; A3:64–70
 Site 1277, A4:3–8
 igneous rocks, hysteresis, B15:25
 igneous-sedimentary cover, lithologic units, B9:6–14

illite
 fine-grained sediments, B8:14
 lithologic units, A3:32
 middle–upper Eocene sedimentology, B8:12–13
 X-ray diffraction data, A3:237
 illite/smectite mixed minerals
 fine-grained sediments, B8:14
 X-ray diffraction data, A3:52
 inoceramids, biostratigraphy, A3:88
 intergrowths, lithologic units, A4:7
 intergrowths, muscovite/quartz, photomicrograph, B2:22
 intraclasts
 lithologic units, A3:42, 45
 provenance of Eocene sandstone, B2:10
 intraclasts, mudstone, photomicrograph, A3:207
 intraparticles, photomicrograph, B2:20
 intrusions, sill injection, B1:22
 intrusive rocks, photomicrograph, A3:255
 iron
 basalt flows, B9:16
 lithologic units, A3:35, 54
 iron oxide
 Albian-Turonian sedimentology, B8:8
 black shale, B8:16
 lithologic units, A3:33, 38
 vs. aluminum oxide, B8:30
 vs. depth, B8:43
 vs. manganese oxide, B8:32
 iron oxides, photograph, A3:194
 isopach maps
 acoustic Unit 4, A1:55
 U-basement, A1:52

J

J-anomaly
 Mesozoic crust, B1:15–16
 SCREECH Transect 2, A5:5
 Jeanne d'Arc Basin, rifting phases, B1:6, 11
 Jurassic, Lower, rifting phases, B1:6
 Jurassic, Middle, rifting phases, B1:6–9
 Jurassic, quartz-feldspar-lithic fragments system, B2:31

K

kaolinite
 fine-grained sediments, B8:14
 lithologic units, A3:33
 Lower Sill complex, A3:69
 photomicrograph, B2:24
 sill zoning, A3:67
 X-ray diffraction data, A3:52, 237
 kerogen
 Rock-Eval pyrolysis, A3:97
 sediments, A3:353–355
 vs. depth, A3:281
 Kimmeridgian, rifting phases, B1:6–7
 Koenigsberger ratio, diabase sills, A3:340–341

L

- laminations
 - photograph, A1:65; A3:137, 139, 172, 176, 203, 205
 - photomicrograph, B9:53
 - X-ray imaging, B6:4
 - See also* convoluted bedding; crenulations; cross laminations; parallel laminations; planar laminations; swirled laminations; wavy laminations
- laminations, anastomosing, photograph, A3:143
- laminations, botryoidal, lithologic units, B9:13–14
- laminations, crenulate, lithologic units, A3:24
- laminations, crenulate convolute, lithologic units, A3:24
- laminations, deformed, photograph, A3:138
- lava, lithologic units, B9:8–9
- Leg 210, drilling and coring summary, A1:78
- lepispheres, lithologic units, A3:24
- limestone, micritic, photomicrograph, A3:150
- lithic fragments
 - histograms, B2:28
 - lithologic units, B9:13–14
 - sandstone, B2:4–5
- lithification, pore water, A3:98
- lithologic units
 - correlation, A3:111–112; B7:13
 - seismic-core correlation, B14:1–6, 11–16
 - Site 1276, A1:13–15; A3:21–64
 - Site 1277, A1:22–23; A4:4–8
 - summary, A3:316–317
 - Unit 1, A3:21–25, 58–59; A4:4–6
 - Unit 2, A3:25–30, 59–60; A4:6–8
 - Unit 3, A3:30–36, 60–61
 - Unit 4, A3:36–39, 61
 - Unit 5, A3:39–57, 61–63
 - volcaniclastics, B9:5–14
- lithology
 - automatic association with laboratory measurements, B7:1–21
 - Lower Sill complex, A3:70
 - sediments, B7:19
 - vs. depth, A3:263–265
- lithosphere. *See also* mantle lithosphere
- lithosphere, exhumed, Iberia-Galicia margin compared with Newfoundland margin, B9:19–20
- lithostratigraphy
 - conjugate margins, A3:57–63
 - Iberia-Galicia margin, A1:71; A3:241
 - lower sill units and intervening sediments, A3:253
 - Site 398, B2:18
 - Site 1276, A1:13–15, 61; A3:20–64; B3:16; B8:24
 - Site 1277, A1:22–23; A4:15–16; B9:44–45
 - vs. depth, A3:127–129; B2:17
- load casts
 - bedding, A3:168
 - See also* microload casts
- load structures, lithologic units, A3:33–34
- Lusitanian Basin
 - rift systems, A1:4–6
 - rafting phases, B1:6
- Lutetian, biostratigraphy, A3:85–86

M

- Maastrichtian
 - biostratigraphy, A3:78, 80, 84; B13:11–12
 - quartz-feldspar-lithic fragments system, B2:26
 - quartz-potassium feldspar-plagioclase system histograms, B2:29
- Maastrichtian, middle–upper, photomicrograph, A3:171
- Maastrichtian, upper, biostratigraphy, A3:81
- mafic rocks, Iberia-Galicia margin compared with Newfoundland margin, B9:21–22
- maghematization, peridotites, B1:18
- magmatic fingers, Lower Sill complex, A3:69–70
- magmatism, rifts, B1:1–55
- magmatism, postrift, rifting, B1:21–24
- magnesium, lithologic units, A3:54
- magnesium oxide
 - Albian–Turonian sedimentology, B8:7
 - black shale, B8:16
 - lithologic units, A3:29
 - vs. aluminum oxide, B8:26
 - vs. depth, B8:48
 - vs. titanium oxide, B8:29
- magnetic anomalies
 - maps, A5:34
 - serpentinitization, B1:17–19
 - source, B1:16–17, 52
 - transitional extension, B1:15–21
- magnetic Anomaly M0
 - comparison at Site 1276 and Site 398, A1:27
 - rifting reconstruction, A1:41–42
- magnetic Anomaly M1, reflections, A1:43–44
- magnetic Anomaly M3
 - comparison at Site 1276 and Site 398, A1:27
 - structural asymmetries, A1:57
- magnetic declination
 - Cretaceous, B15:27–32
 - samples, A4:37
- magnetic inclination
 - magnetic vs. nonmagnetic core barrel comparison, A3:94–95
 - vs. depth, A3:269, 272–273, 276; A4:29; B15:22–23
- magnetic inclination, mean, Cretaceous, B15:35
- magnetic intensity
 - Cretaceous, B15:27–32
 - magnetic vs. nonmagnetic core barrel comparison, A3:94–95
 - peridotites, B1:18
 - samples, A4:37, 39
 - sediments, A1:19; A3:90–93
 - vs. depth, A3:269, 271–273, 275; A4:29
- magnetic surveys, SCREECH Transect 2, A5:1–36
- magnetic susceptibility
 - samples, A4:38–39
 - sediments, A1:19, 21; A3:90–92, 106–107, 340–341
 - vs. depth, A3:268, 271–273, 299–302, 304–306; A4:29
- magnetite
 - diabase, A1:15
 - diabase sills, A3:243
 - Lower Sill complex, A3:69
 - sill zoning, A3:67

magnetization, age, B15:9–10
 magnetostratigraphy, lithologic units, A3:93–94
 major elements
 fine-grained sediments, B8:60–63
 sediments, A3:323–328
 sills, A3:68–69, 330
 volcaniclastics, B9:68–69
 major elements/aluminum ratio, black shale, B10:16
 manganese, lithologic units, A3:35, 54
 manganese hydroxides, lithologic units, A3:38
 manganese oxide
 Albian–Turonian sedimentology, B8:8
 fine-grained sediments, B8:14
 lithologic units, A3:33, 53–54
 lower Campanian–upper Paleocene sedimentology, B8:10
 middle–upper Eocene sedimentology, B8:13
 vs. depth, B8:47
 vs. iron oxide, B8:32
 manganite, lithologic units, A3:38
 mantle, exhumation, B1:9–11; B9:1–69
 mantle lithosphere, subcontinental, continental
 breakup, B9:1–69
 maps
 gravity anomalies, A5:35
 magnetic anomalies, A5:34
 tectonic terranes, B2:32
 transects, A1:45–46
 marble, hydrothermal alteration, A3:56–57
 marlstone
 lithologic units, A3:26–28, 32–33, 41–42, 46–47
 photograph, A1:66; A3:162, 177
 postrift sedimentation, B1:27–28
 marlstone, iron-stained, photomicrograph, A3:152
 marlstone, laminated, photograph, A3:191
 mass flow deposits
 lithologic units, A4:5–6; B9:8–11
 photograph, A4:20
 structure, A3:168
 synrift sedimentation, B1:26–27
 mass flow deposits, ductile, photograph, A3:179
 mass flow deposits, serpentinite, tectonic models, B9:28
 mass flow deposits, subaqueous, photograph, A3:132,
 146–147, 157, 214
 matrix, chloritic, photograph, A4:21
 matrix, sparry calcite, photograph, A4:22–23
 Mauzy Ridge, lithostratigraphy, A1:22
 maximum angular deviation, sediment magnetization,
 A3:340–341
 median destructive field
 remanent magnetization, A1:24
 samples, A4:39
 Meguma Terrane
 continental crust, B1:5
 geochronology, B4:1–13
 melting, peridotites, B1:14–15
 Mesozoic
 diagenesis, B8:1–63
 nannofossils, A3:335
 metagrainstone, sill/sediment contacts, A3:66
 metals, sediments, A3:98

metamorphic petrology
 Site 1276, A1:15; A3:64–70
 Site 1277, A4:3–8
 metamorphism, contact lithologic units, A1:14
 metamorphism, hydrothermal, sills, B1:23
 metasedimentary rocks, photomicrograph, B2:22–23
 methane
 pore water, A3:98
 sediments, A1:20; A3:95
 vs. depth, A1:73, 75; A3:277–278, 289
 methane/ethane ratio, sediments, A3:95
 methods, automatic, association of lithologic type with
 laboratory measurements, B7:1–21
 mica
 lithologic units, A3:27, 37
 X-ray diffraction data, A3:237
 micrite
 lithologic units, A3:26–28
 photograph, A3:208
 photomicrograph, A3:209, 224
 microconcretions, carbonate, photograph, A3:235
 microconglomerate, lithologic units, A3:45
 microflame structures, photograph, A3:199
 microfolds, photograph, A3:170
 microfossil zones, vs. depth, A3:263–265
 microlites. *See* plagioclase microlites
 microload casts, photograph, A3:212
 microphenocrysts, basalt flows, B9:14–15
 microspar
 lithologic units, A3:42, 50–52
 photomicrograph, A3:209
 microthermometry, fluid inclusions, B5:1–21
 mid-Cenomanian Event
 oceanic anoxic events, A1:20
 postrift sedimentation, B1:27
 miliolids, photomicrograph, A3:133
 mineralogy, basalt flows, B9:14–15
 minor elements/aluminum ratio, black shale, B10:16
 mollusk fragments
 lithologic units, A3:22–25
 sandstone, B2:5
 molybdenum, black shale, B8:16; B10:5
 monzodiorite, postrift magmatism, B1:24
 mottling, lithologic units, A3:24, 35, 44–45
 mudrock
 Albian–Turonian sedimentology, B8:5–7
 lithologic units, A1:14; A3:23, 28–29, 32–33, 42, 46–
 50, 58–63
 lower Campanian–upper Paleocene sedimentology,
 B8:10
 middle–upper Eocene sedimentology, B8:12–13
 upper Paleocene–middle Eocene sedimentology,
 B8:10–12
 X-ray diffraction data, A3:237
 mudrock, bioturbated, photograph, A3:187
 mudrock, porphyroblastic, photograph, A1:68; A3:238–
 239
 mudstone
 lithologic units, A1:14; A3:22–30, 32–33, 37–38, 44–
 48, 58–60

photograph, A3:140, 142, 154, 177, 184–186, 188, 194, 201–202, 222
 postrift sedimentation, B1:27–28
 upper Paleocene–middle Eocene sedimentology, B8:10–12
 mudstone, burrowed, photograph, A3:165, 239–240, 261
 mudstone, calcareous
 lithologic units, A3:41
 photograph, A3:160, 191, 211
 mudstone, graded
 lithologic units, A3:41–42
 photograph, A3:190, 195
 mudstone, greenish brown, lithologic units, A3:21–25, 58–59
 mudstone, hematitic sandy, photomicrograph, A3:181
 mudstone, high-porosity low-velocity, undercompacted systems, A3:101
 mudstone, laminated, photograph, A3:235
 mudstone, massive
 photograph, A3:192, 210
 X-ray imaging, B6:18
 mudstone, massive sandy, photograph, A3:134–135
 mudstone, multicolored, Upper Cretaceous, A1:31–32
 mudstone, sandy, lithologic units, A3:21–25, 32–33, 36–37, 58–59
 mudstone, silty, photograph, A3:158
 muscovite
 argon isotopes, B4:1–13
 lithologic units, A3:37
 photograph, A3:208, 223
 photomicrograph, B2:20
 provenance, B4:3–5
 sandstone, B2:4–5
 mylonites, lithologic units, A4:5–8
 mylonites, serpentinite, lithologic units, A1:23

N

nannofossil bioevents
 Cenomanian–Turonian interval, B13:44
 middle Campanian–lower Paleogene interval, B13:45
 Paleocene–Eocene transition, B13:46
 nannofossil datums
 distribution, A3:338–339
 sedimentation rates, A3:89
 nannofossil zoning, vs. age, B13:37–40
 nannofossils
 biostratigraphy, A1:16
 preservation, B13:6–25
 nannofossils, calcareous
 biostratigraphy, A3:75–80; B11:1–9; B13:1–53
 biostratigraphy vs. depth, B13:41–43
 distribution, B11:8
 nannofossils, Cenozoic, distribution, A3:332–334
 nannofossils, Mesozoic, distribution, A3:335
 Newfoundland Basin
 Albian paleoflow, B3:1–27
 biostratigraphy, B13:1–53
 geology, A1:1–78
 quartz fluid inclusions, B5:1–21
 rifting, B1:11–15

Newfoundland continental rise, seismic profiles, A1:48–50
 Newfoundland margin
 bathymetry, A1:47
 continental breakup, B9:1–69
 Cretaceous paleolatitude, B15:1–37
 geochemical evidence for sedimentation, B8:1–63
 geochronology, B4:1–13
 geology, A1:1–78; B1:1–55
 rift systems, A1:5–6
 seismic profiles, A1:51
 See also Iberia-Newfoundland rift
 Newfoundland nonvolcanic rifted margin, marine geo-physical data, A5:1–36
 Newfoundland Seamounts
 age, B1:21
 rifting phases, B1:8
 Newfoundland-Gibraltar Fracture Zone, postrift magmatism, B1:24
 nickel
 fine-grained sediments, B8:14
 lithologic units, A3:29, 54
 Turonian–uppermost Santonian sedimentology, B8:9
 upper Paleocene–middle Eocene sedimentology, B8:12
 vs. depth, B8:52
 nickel/aluminum ratio
 oceanic anoxic events, A3:98
 vs. depth, A3:280
 niobium
 basalt flows, B9:16
 lower Campanian–upper Paleocene sedimentology, B8:10
 niobium anomaly, basalt flows, B9:16–19, 33
 niobium/yttrium ratio
 basalt flows, B9:16
 vs. zirconium/titanium ratio, B9:56
 vs. zirconium/yttrium ratio, B9:63
 niobium-zirconium-yttrium system, basalts, B9:58
 nitrogen
 sediments, A3:96, 349–352
 See also carbon/nitrogen ratio
 nitrogen isotopes
 black shale, B10:4, 11–13
 vs. total organic carbon, B10:9
 nodules, photograph, A3:232
 nodules, carbonate, lithologic units, A3:51
 nodules, limestone, lithologic units, A3:51–52
 nodules, pyrite, lithologic units, A3:35
 Norian, rifting phases, B1:6
 North America, Cretaceous paleolatitude, B15:36
 Norwegian-Greenland Sea, comparison at Site 1276 and Site 398, A1:28
 Nova Scotia, muscovite, B4:4

O

ocean basins, rifting phases, B1:6
 ocean circulation, abyssal regions, A1:32
 ocean floors, SCREECH Transect 2, A5:6
 oceanic anoxic Event 2, lithologic units, A3:43

oceanic anoxic events
 black shale, A3:97–98; B10:5; B13:21
 critical events, A1:18–19, 31; A3:54–55, 97–98
 postrift sedimentation, B1:27–28
 See also Bonarelli event; Paquier events
 Oligocene, lower
 biostratigraphy, A3:85; B13:17–19
 lithologic units, A3:21–25, 58–59
 lithostratigraphy, A3:58–59
 paleoenvironment, B13:23–24
 postrift sedimentation, B1:32–33
 Oligocene, remanent magnetization, A1:19
 olivine
 diabase, A1:15
 Lower Sill complex, A3:69
 sill zoning, A3:67
 opal
 lithologic units, A3:33
 lower Campanian–upper Paleocene sedimentology, B8:10
 opal-A
 lithologic units, A3:30
 middle–upper Eocene sedimentology, B8:12
 opal-CT, lithologic units, A3:24, 30
 organic debris, lithologic units, A3:42
 organic matter
 black shale, B10:4–5
 Rock-Eval pyrolysis, A3:97
 sediments, A1:20; A3:353–355
 vs. depth, A3:281
 orthopyroxene, altered, photograph, A4:14
 orthopyroxene, lithologic units, A4:7
 ostracode shells
 lithologic units, A3:22–25
 photomicrograph, A3:151
 Oxfordian, rifting phases, B1:6–7
 oxidation
 lithologic units, A3:29; B8:17
 photograph, A3:185, 194
 oxygen index
 black shale, B10:4–5
 vs. hydrogen index, B10:10
 oxygen isotopes, peridotites, B1:17
 oxygen-minimum zones, deposition, A3:62

P

paleoceanography
 Cretaceous, A1:28–29
 lithologic units, A3:25, 29–30, 35–36, 38–39, 43–44, 46, 49–50
 paleoenvironment, A1:17
 sedimentation, A1:12–13
 paleoceanography, abyssal, gateways, A1:16
 Paleocene
 muscovite, B4:4
 paleoenvironment, B13:22–23
 photomicrograph, A3:171
 postrift sedimentation, B1:28–31
 provenance of volcanic sand, B2:8–9
 quartz-feldspar-lithic fragments system, B2:27

quartz-potassium feldspar-plagioclase system histograms, B2:29
 sandstone and grainstone, B2:1–47
 seafloor spreading, A1:12–13
 sedimentation, A3:63–64
 See also Cretaceous/Tertiary boundary
 Paleocene, lower
 biostratigraphy, A3:86, 88; B13:13–14
 remanent magnetization, A1:19
 Paleocene, upper
 biostratigraphy, A3:81, 86; B13:14–15
 lithologic units, A3:25–36, 59–61
 lithostratigraphy, A3:59–61
 magnetostratigraphy, A3:93–94
 postrift sedimentation, B1:31
 sedimentology, B8:10–12
 Paleocene/Eocene boundary
 biostratigraphy, B13:15–16
 critical events, A1:17–18
 nannofossil biostratigraphy, A3:76–77
 Paleocene/Eocene Thermal Maximum
 biostratigraphy, A3:76; B13:15–16
 critical events, A1:17–18, 32
 Paleocene–Eocene transition, nannofossil bioevents, B13:46
 paleoclimatology
 lithologic units, A1:14–15; A3:38
 Paleocene/Eocene Thermal Maximum, A1:17–18
 paleocurrents, turbidity currents, B3:1–27
 paleodepth, abyssal, benthic foraminifers, A3:83
 paleoenvironment, paleoceanography, A1:17
 paleoflow directions, turbidity currents, B3:1–27; B4:5
 Paleogene
 biostratigraphy, A1:16
 foraminiferal biostratigraphy, A3:80–81
 nannofossil biostratigraphy, A3:75–76
 palynomorph biostratigraphy, A3:85–86
 radiolarian biostratigraphy, A3:87–88
 paleogeography
 Cretaceous, B3:18
 quartz-feldspar-lithic fragments system, B2:37
 paleolatitude, Cretaceous, B15:1–37
 paleomagnetism
 paleocurrent dip, B3:10–11
 Site 1276, A1:19–20; A3:90–95
 Site 1277, A1:23–24; A4:9
 paleosecular variations, sills, B15:10–11
 palynomorphs
 biostratigraphy, A1:16; A3:85–87
 biostratigraphy vs. depth, B13:41–43
 distribution, A3:337
 Paquier events, critical events, A1:19, 21
 parallel laminations, photograph, A3:200, 217
 pebbles, subrounded, photograph, A3:145
 pegmatites, gabbroic, rifting, B1:12
 pellets
 lithologic units, A3:51
 photomicrograph, A3:233
 pentane, sediments, A3:95
 peridotite ridges, tectonic models, B9:30–31

- peridotites
- magnetic anomalies, B1:16–17
 - melting, B1:14–15
 - oxygen isotopes, B1:17
 - rifting, B1:12
 - peridotites, foliated serpentinized, photograph, A4:14, 25–27
 - peridotites, serpentinized
 - lithologic units, A4:5–8
 - photograph, A4:28
 - remanent magnetization, A1:24 - petrography
 - grainstone, B2:4–5
 - sandstone, B2:4–5 - phenocrysts. *See* microphenocrysts
 - phosphate grains, photomicrograph, A3:171
 - phosphatic layers, lithologic units, A3:52
 - phosphorus oxide
 - fine-grained sediments, B8:14
 - lithologic units, A3:54
 - lower Campanian–upper Paleocene sedimentology, B8:10
 - upper Paleocene–middle Eocene sedimentology, B8:12
 - vs. depth, B8:46 - phyllite, photomicrograph, A3:223
 - physical properties
 - seismic-core correlation, B14:6–9, 11–16
 - Site 1276, A1:21–22; A3:99–107
 - Site 1277, A1:24; A4:10–11 - plagioclase
 - basalt flows, B9:14–15
 - diabase, A1:15
 - diabase sills, A3:243
 - lithologic units, A3:28, 33
 - Lower Sill complex, A3:69
 - photomicrograph, B2:20
 - sandstone, B2:4–5
 - segregation bands, A3:68
 - sill zoning, A3:67
 - plagioclase, elongate, lithologic units, A4:6
 - plagioclase aggregates, photograph, A4:21
 - plagioclase laths, photomicrograph, A3:247, 250
 - plagioclase microlites, photomicrograph, A3:152
 - planar laminations
 - grain fabric, B3:26–27
 - lithologic units, A3:27–28, 33–34; A4:5
 - paleocurrent dip, B3:10–11
 - photograph, A1:67; A3:165–166, 186–187, 195, 197, 205, 225 - plant debris
 - black shale, B10:4–5
 - lithologic units, A3:43
 - photomicrograph, A3:224 - Plantagenet Formation
 - postrift sedimentation, B1:30
 - sedimentation, A1:12; A3:63–64 - plate tectonics, rift systems, A1:4–6
 - Pliocene, sedimentation, A3:63
 - polar wander, paleosecular variations, B15:11–13

pore water

 - geochemistry, A3:98
 - sulfate, A3:356

porosity

 - igneous rocks, A1:24; A4:10
 - lithology automatic association with laboratory measurements, B7:1–21
 - sandstone, B2:4–5
 - sediments, A1:21; A3:99–101
 - seismic-core correlation, B14:6–9
 - vs. depth, A1:74–75; A3:285–286, 288–289; A4:31; B7:14–15

porphyroblasts

 - hydrothermal alteration, A3:56–57
 - photograph, A3:244
 - quartz, A3:239
 - porphyroblasts, asymmetric, photograph, A4:14
 - porphyroblasts, calcite, sill/sediment contacts, A3:66
 - porphyroblasts, elongate, lithologic units, A4:6
 - porphyroblasts, pyroxene, photograph, A4:26
 - Porto Basin, rifting phases, B1:6
 - potassium, lithologic units, A3:54
 - potassium feldspar
 - lithologic units, A3:33
 - provenance of gravity-flow deposits, B2:7–8

potassium oxide

 - Albian–Turonian sedimentology, B8:7
 - black shale, B8:16
 - fine-grained sediments, B8:14
 - sills, A3:68
 - Turonian–uppermost Santonian sedimentology, B8:9
 - vs. aluminum oxide, B8:25, 35
 - vs. depth, B8:42
 - vs. silica, A3:251
 - vs. titanium oxide, B8:36
 - See also* sodium oxide + potassium oxide
 - preservation, nannofossils, B13:6–25
 - pressure solution, photograph, A3:155
 - Priabonian, biostratigraphy, A3:85–86
 - productivity
 - barium, A3:98; B10:5
 - black shale, B10:5
 - upwelling, B8:17

productivity hypothesis, finely laminated black shale origin, A3:55–56

propane, sediments, A3:95

protostylolites, lithologic units, A3:29

provenance

 - fine-grained sediments, B8:13–15
 - lithologic units, A3:25, 29–30, 35–36, 38–39, 43–44, 46, 49–50
 - muscovite, B4:3–5
 - quartz granitoid sources, B5:3–4
 - quartz-feldspar-lithic fragments system, B2:36

pyrite

 - hydrothermal alteration, A3:57
 - lithologic units, A3:42
 - Lower Sill complex, A3:69
 - photomicrograph, A3:133, 171
 - sill zoning, A3:67
 - pyrite, frambooidal, lithologic units, A3:52

pyroclastic debris, photomicrograph, B2:34
 pyroclasts, vitric, photomicrograph, A3:175
 pyrolysis, Rock-Eval
 black shale, B10:4–5
 organic matter, A3:97
 pyroxene
 diabase, A1:15
 Lower Sill complex, A3:69
 See also augite; clinopyroxene; orthopyroxene
 pyroxene, elongate, lithologic units, A4:6
 pyroxene aggregates, elongate recrystallized, photograph, A4:26

Q

quartz
 Albian–Turonian sedimentology, B8:5–7
 hydrothermal alteration, A3:56–57
 lithologic units, A3:23–25, 33, 37, 45
 Lower Sill complex, A3:69
 photomicrograph, A3:149, 174, 181–182, 206, 208, 223–224; B2:20
 porphyroblasts, A3:239
 sill zoning, A3:67
 X-ray diffraction data, A3:52, 237
 quartz, chalcedonic
 lithologic units, A3:24
 photomicrograph, A3:133
 quartz, detrital, fluid inclusions, B5:1–21
 quartz, monocrystalline
 photomicrograph, B2:22
 sandstone, B2:4–5
 quartz grains, subhedral, photomicrograph, A3:152

R

radiolarian tests, photomicrograph, A3:133, 209
 radiolarians
 biostratigraphy, A3:87–88
 lithologic units, A3:37
 paleoenvironment, B13:19
 rare earths
 basalt flows, B9:17–19
 volcaniclastics, B9:69
 recrystallization
 hydrothermal alteration, A3:56–57
 photomicrograph, B9:54
 red algae
 lithologic units, A3:22–25, 28
 photomicrograph, A3:149
 redeposition, lithologic units, A3:49–50, 59
 redox, sediments, A3:98; B10:5
 reduction, lithologic units, A3:29
 reflections
 dip, B3:24
 predicted depths for major boundaries, A1:77
 SCREECH Transect 2, A5:4–5, 11–32; B3:19
 Site 1276 stratigraphy comparison with Iberia margin, A1:24–28
 time-depth of top of cored section, B14:9–10
 transition zones, A1:7–10

reflections, conjugate, magnetic Anomaly M1, A1:43–44
 remanent magnetization
 peridotites, A4:9, 37, 39
 split-core data, B15:5–7
 temperature, B15:24
 vs. depth, A3:269
 remanent magnetization, characteristic
 age, B15:9–10
 diabase sills, A1:19; A3:92–93
 direction, A3:340–341
 sediments, A1:23–24; A3:90–92
 remanent magnetization, natural, sediments, A1:19, 23–24; A3:90–92, 340–341
 rhenium, black shale, B8:16; B10:5
 rift systems, geology, A1:1–78
 rifting
 Chron M0, B1:45–46
 continental crust, A5:36
 phases, B1:6–15
 SCREECH Transect 2, A5:6
 summary, A1:40
 ripple laminations
 foreset dips, B3:23
 migration directions, B3:25
 photograph, A3:186
 rock fragments, lithologic units, A3:27
 rock magnetism, Cretaceous, B15:8–9, 33–34
 rubidium
 fine-grained sediments, B8:14
 vs. depth, B8:50
 Rupelian, biostratigraphy, A3:85

S

Salar-Bonniton Basin
 rift systems, A1:5–6
 rifting phases, B1:6, 8
 salinity
 fluid inclusions, B5:3–4
 vs. temperature, B5:15
 sand, volcaniclastic, photograph, B9:47
 sand grains, photomicrograph, A3:152
 sandstone
 fluid inclusions, B5:1–21
 lithologic units, A1:14; A3:45, 48–49
 paleocurrent dip, B3:10–11
 petrography, B2:4–5
 petrology, B2:1–47
 photograph, A2:203, 210, 219, 222, 227
 point count categories, B2:43–46
 postrift sedimentation, B1:28–31
 quartz-feldspar-lithic fragments system, B2:25–27
 quartz-potassium feldspar-plagioclase system histograms, B2:29
 sedimentary properties, B2:38–42
 vs. depth, A3:127–129
 sandstone, burrowed, lithologic units, A3:36–37
 sandstone, burrowed muddy, photograph, A3:184
 sandstone, calcareous
 lithologic units, A3:26–28, 33–34, 41–42, 47–48
 photograph, A3:172, 191, 204, 218, 229, 240

sandstone, cross-laminated, photograph, A3:184
 sandstone, graded
 lithologic units, A3:37, 41–50
 photograph, A3:146, 195–196, 199
 sandstone, horizontally laminated, X-ray imaging, B6:12
 sandstone, horizontally laminated calcareous, X-ray imaging, B6:10
 sandstone, laminated
 photograph, A3:130
 X-ray imaging, B6:14–15
 sandstone, laminated graded, photograph, A4:24
 sandstone, lenticular, photograph, A3:153, 228
 sandstone, massive, X-ray imaging, B6:17
 sandstone, massive silty, photograph, A3:214
 sandstone, micaceous, photograph, A4:19
 sandstone, muddy
 lithologic units, A3:21–25, 36–37, 47–48, 58–59
 photograph, A1:62; A3:180
 Turonian–uppermost Santonian sedimentology, B8:9
 sandstone, parallel-laminated, X-ray imaging, B6:13
 sandstone, planar-trough cross-laminated, X-ray imaging, B6:11
 sandstone, porous, photograph, A3:196
 sandstone, silty
 photograph, A3:215
 photomicrograph, A3:206
 sanidine, lithologic units, A3:33
 Santonian
 lithologic units, A1:15, 17; A3:36–39, 61
 quartz-feldspar-lithic fragments system, B2:26
 quartz-potassium feldspar-plagioclase system histograms, B2:29
 sedimentology, B8:9
 scandium, basalt flows, B9:16
 scoured bases
 lithologic units, A3:23
 photograph, A3:142, 165, 172, 187–188
 SCREECH Transect 2, marine geophysical data, A5:1–36
 Scruncheon Seamount, age, B1:21
 seafloor spreading
 continental breakup, B9:1–69
 extension rates, B1:20, 53
 SCREECH Transect 2, A5:6
 Upper Jurassic, B1:6–7
 seafloor spreading, ultra-slow, transition zones, A1:12
 seams, lithologic units, A3:35
 sediment cycles, lithologic units, A3:38
 sedimentary beds, apparent dip, A3:256
 sedimentary crust, ferromanganese-cemented, lithologic units, B9:13–14
 sedimentary structures, photograph, A3:197
 sedimentation
 geochemistry, B8:1–63
 rift-to-drift models, B2:10–11
 rifts, B1:1–55
 stratigraphy, A1:12–13
 sedimentation, postrift, Mesozoic–Cenozoic, B1:27–33
 sedimentation, prerift, Tithonian–Berriasian, B1:25
 sedimentation, synrift, Tithonian–Aptian, B1:25–27
 sedimentation rates
 biostratigraphy, A3:88–90

lithologic units, A1:14–15; A3:38, 60–62, 329; B15:3–5
 sedimentology, Iberia-alicia margin compared with Newfoundland margin, B9:21
 sediments
 hydrothermal alteration, A3:56–57
 lithologic units, A4:4–6
 relation to Lower Sill complex, A3:69–70
 Site 1276 stratigraphy comparison with Iberia margin, A1:24–28
 velocity factors, A3:101–104
 See also igneous-sedimentary cover; sill/sediment contacts
 sediments, clastic
 lithologic units, A4:4–6
 photograph, A3:146–147
 sediments, clastic ferruginous, photograph, B9:47
 sediments, coarse-grained, photograph, A3:148, 157
 sediments, ferruginous
 lithologic units, A1:22; A4:5
 photograph, A4:19
 sediments, fine-grained
 lithologic units, A3:52–55
 provenance, B8:13–15
 sediments, hemipelagic, lithologic units, A3:25, 29
 sediments, polymict clastic
 lithologic units, A4:6
 photograph, A4:21–23
 sediments, postrift, argon isotopes, B4:1–13
 segregation bands
 photograph, A3:248
 sills, A3:67–68
 seismic horizons, interpretation, B14:31
 seismic profiles
 crust, A1:48–51; A5:11–32; B1:48
 Galicia margin, B1:51
 Site 1276, A3:307, 312–313; B3:19; B8:23; B14:21
 Site 1277, A4:34–35; B9:43
 U reflection, B1:54
 seismic reflection, vs. synthetic seismograms, A3:311
 seismic Sequence A
 comparison at Site 1276 and Site 398, A1:27
 transition zones, A1:7–8
 seismic Sequence B
 comparison at Site 1276 and Site 398, A1:27
 Site 1276 stratigraphy comparison with Iberia margin, A1:24–28
 transition zones, A1:8–9
 seismic Sequence C
 comparison at Site 1276 and Site 398, A1:28
 Site 1276 stratigraphy comparison with Iberia margin, A1:25
 transition zones, A1:9
 seismic Sequence D
 comparison at Site 1276 and Site 398, A1:28
 Site 1276 stratigraphy comparison with Iberia margin, A1:25
 transition zones, A1:9–10
 seismic Sequence E, transition zones, A1:10
 seismic Sequence F, transition zones, A1:10
 seismic sequences
 comparison at Site 1276 and Site 398, A1:27–28

- transition zones, A1:7–10
- seismic source wavelets, synthetic seismograms, B14:9, 26
- seismic surveys
 - basement, A4:11–12
 - SCREECH Transect 2, A5:1–36
- seismic-borehole correlation
 - density and velocity, A3:107–108
 - Site 1276, A3:107–113
 - Site 1277, A4:11–12
- seismic-core correlation, Site 1276, B14:1–33
- seismograms, synthetic
 - comparison to seismic reflection data, A3:311
 - seismic-core correlation, B14:9–10, 28–29
 - source wavelets, A3:110–111
- Selandian, biostratigraphy, A3:86
- serpentinite
 - lithologic units, A4:8
 - sill zoning, A3:67
- serpentinite, remanent magnetization, A1:23–24
- serpentinite grains, detrital
 - photograph, A4:24
 - photomicrograph, B9:53, 55
- serpentinization, magnetic anomalies, B1:17–19
- serpentinization, postkinematic, photograph, A4:26
- shale composite, geochemistry, B8:59
- shear zones
 - deformation structures, A3:71–73
 - photograph, A3:136
- shear zones, ductile
 - lithologic units, A3:24
 - photograph, A3:170, 261
- shear zones, synsedimentary, photograph, A3:148
- siderite
 - deposition, A3:62
 - photograph, A3:231
- siderite, cryptocrystalline, lithologic units, A3:51
- silica
 - Albian–Turonian sedimentology, B8:7–8
 - fine-grained sediments, B8:14
 - lithologic units, A3:33, 53
 - lower Campanian–upper Paleocene sedimentology, B8:10
 - sills, A3:68
 - Turonian–uppermost Santonian sedimentology, B8:9
 - upper Paleocene–middle Eocene sedimentology, B8:12
 - vs. aluminum oxide, A3:251; B8:31
 - vs. depth, B8:44
 - vs. major oxides, A3:68, 251
 - vs. sodium oxide + potassium oxide, A3:69, 252
 - vs. titanium oxide, B8:38
- silica, opaline, lithologic units, A3:24
- siliceous microfossils, biostratigraphy, A1:16
- siliciclastics
 - lithologic units, A3:33–34, 42, 49–50
 - photomicrograph, A3:182
 - postrift sedimentation, B1:28–31
 - provenance, B2:4–5
 - rift-to-drift models, B2:10–11
 - rifting phases, B1:6
 - silicification, lithologic units, A3:35
- silicon, basalt flows, B9:16
- sills
 - core recovery, A1:72
 - correlation, A3:112–113
 - geochemistry, A3:330; B1:21–23
 - hydrothermal alteration, A3:56–57, 68
 - lithologic units, A1:15, 30–31
 - Lower Sill complex, A3:69–70
 - magnetization, B15:9–10
 - petrology, A3:65–70
 - photograph, A3:242
 - zoning, A3:66–67
- sills, diabase, lithologic units, A1:14
- sill/sediment contacts
 - petrology, A3:65–66
 - photograph, A3:242, 244–245, 254
 - photomicrograph, A3:254
 - velocity, A3:104
 - x-direction velocity, A3:294
- silt, photograph, A1:66
- silt, quartz + feldspar, photomicrograph, B2:23
- silt, volcanioclastic, photograph, B9:47
- siltite. *See calc-siltite, ferruginous siltstone*
 - fluid inclusions, B5:1–21
 - lithologic units, A1:14; A3:45
 - photograph, A1:192; A3:185, 210–211
 - photomicrograph, A3:226
- siltstone, bioclastic carbonate, fluid inclusions, B5:9–10
- siltstone, burrowed, photograph, A3:165
- siltstone, calcareous
 - lithologic units, A3:33–34, 41
 - photograph, A3:204, 244
- siltstone, deformed, photograph, A3:179
- siltstone, graded
 - lithologic units, A3:37, 41–42
 - photograph, A3:190, 195
- siltstone, laminated, photograph, A3:193, 212, 262
- siltstone, laminated terrigenous, photograph, A3:208
- siltstone, lenticular, photograph, A1:69; A3:216
- siltstone, muddy
 - lithologic units, A3:34
 - Turonian–uppermost Santonian sedimentology, B8:9
- siltstone, sandy
 - photograph, A3:207
 - photomicrograph, A3:223–224
- siltstone, tuffaceous, photomicrograph, A3:175
- Sinemurian, rifting phases, B1:6
- Site 398
 - biostratigraphic datums vs. depth, A3:267
 - lithostratigraphy, B2:18
 - Lower Cretaceous quartz-feldspar-lithic fragments, B2:30
 - seismic and sedimentary succession, A1:25–26
- Site 1065, Tithonian and Jurassic quartz-feldspar-lithic fragments, B2:31
- Site 1069, Tithonian and Jurassic quartz-feldspar-lithic fragments, B2:31
- Site 1276, A3:1–358
 - Albian nannofossil biostratigraphy, B11:1–9
 - biostratigraphic datums vs. depth, A3:266

- biostratigraphy, A1:16–19; A3:73–90; B11:1–9; B12:1–8; B13:1–53
 biostratigraphy summary, A3:331
 coring summary, A3:314–315
 Cretaceous paleolatitude, B15:11–13, 26
 drilling, A1:58–59
 Eocene benthic foraminifers, B12:1–8
 geochemical evidence for sedimentation, B8:1–63
 geochemistry, A1:20–21; A3:95–98
 igneous and metamorphic petrology, A1:15; A3:64–70
 lithologic unit summary, A3:316–317
 lithostratigraphy, A1:13–15, 61; A3:20–64, 127–129
 major and trace elements, A3:323–328
 multiproxy geochemical characterization of black shales, B10:1–16
 operations, A1:60; A3:4–20, 122–126
 paleomagnetism, A1:19–20; A3:90–95
 physical properties, A1:21–22; A3:99–107
 quartz fluid inclusions, B5:1–21
 sedimentation rates, A3:329
 seismic profiles, A1:53–54
 seismic-borehole correlation, A3:107–113
 seismic-core correlation, B14:1–33
 sill geochemistry, A3:330
 sills, A1:30–31
 site description, A3:1–358
 stratigraphy comparison with Iberia margin, A1:24–28
 structural geology, A3:70–73
 structures, B6:1–21
 summary, A3:1–4
 synthesis, A1:13–22
 U reflection, A1:31
 X-ray diffraction data, A3:318–322
- Site 1277, A4:1–39**
 basalt flows, B9:1–69
 biostratigraphy, A1:23; A4:8
 comparison of tectonic and stratigraphic relations at top of basement, B9:64
 coring summary, A4:36
 Cretaceous paleolatitude, B15:11–13, 26
 geochemistry, B9:68–69
 igneous and metamorphic petrology, A4:3–8
 lithostratigraphy, A1:22–23
 operations, A1:60; A4:2–3
 paleomagnetism, A1:23–24; A4:9
 physical properties, A1:24; A4:10–11
 seafloor relations, B9:65
 seismic-borehole correlation, A4:11–12
 site description, A4:1–39
 site summary, A4:1–2
 synthesis, A1:22–24
- smectite**
 lithologic units, A3:30, 33
 Lower Sill complex, A3:69
 sill zoning, A3:67
 X-ray diffraction data, A3:237
See also illite/smectite mixed minerals
- sodium oxide**
 Albian–Turonian sedimentology, B8:7
 fine-grained sediments, B8:14
 sills, A3:68
- vs. aluminum oxide, B8:27
 vs. depth, B8:49
 sodium oxide + potassium oxide, vs. silica, A3:69, 252
 soft-sediment deformation
 lithologic units, A3:24–25, 29–30, 33–34, 43, 45
 photograph, A3:135–138, 156, 170, 205, 216, 219
 X-ray imaging, B6:5
 spinel, lithologic units, A4:7
 sponge spicules
 lithologic units, A3:22–25
 photomicrograph, A3:133
 stratigraphy
 critical events, A1:17–19
 sedimentation, A1:12–13
 strontium, fine-grained sediments, B8:15
 structural geology, Site 1276, A3:70–73
 structures, brittle, sediments, A3:29
 structures, X-ray imaging, B6:1–21
 stylolites
 photograph, A3:155, 178, 260
See also protostyolites
 submarine erosion, lithologic units, B9:14
 submarine fans, rift-to-drift models, B2:11
 subsidence, rifting phases, B1:6
 sudoite, hydrothermal alteration, A3:57
 sulfate, pore water, A3:98, 356
 swirled laminations
 lithologic units, A3:27
 photograph, A3:217–219
- T**
- Tagus Abyssal Plain, rift systems, A1:5–6
 tantalum. *See* hafnium-thorium-tantalum system
 tectonic models
 basaltic volcanism, B9:29
 continental breakup, B9:31–33, 66–67
 ductile deformation and extension, B9:26–28
 faulting and uplift of peridotite ridge, B9:30–31
 in-plane compression, B9:30
 late-stage brittle deformation, B9:29–30
 serpentinite mass flows, B9:28
 serpentinized harzburgites, B9:25–26
 tectonic terranes, maps, B2:32
 tectonics
 continental crust, A5:36
 Iberia-Galicia margin compared with Newfoundland margin, B9:20
 rift systems, A1:4–6; B1:1–55
 tectonite, quartz-mica, sandstone, B2:4–5
 temperature
 black shale, B10:4–5
 remanent magnetization, B15:24
 Rock-Eval pyrolysis, A3:97
 vs. depth, A3:281
 vs. hydrogen index, A3:282
 vs. salinity, B5:15
 terranes, accreted, continental crust, B1:5
 terrigenous input, lithologic units, A3:30, 54–55; B8:17–18
 terrigenous input hypothesis, finely laminated black shale origin, A3:55–56

- Tertiary. *See* Cretaceous/Tertiary boundary
- Tethyan, biostratigraphy, A3:81, 88
- textures, felsic, sandstone, B2:4–5
- textures, glassy, relation to Lower Sill complex, A3:69–70
- textures, granular, lithologic units, A3:51
- textures, intergranular
- diabase sills, A3:243, 249
 - photomicrograph, A3:247
 - sill zoning, A3:67
- textures, intersertal
- diabase sills, A3:243
 - Lower Sill complex, A3:70
 - photomicrograph, A3:246–248
 - sill zoning, A3:67
- textures, jigsaw-type, photograph, A4:18
- textures, laminated, photograph, A4:19
- textures, Lower Sill complex, A3:70
- textures, magmatic, sill zoning, A3:67
- textures, microbial, photograph, A4:19
- textures, microlitic
- photomicrograph, B2:33–35
 - sandstone, B2:4–5
- textures, patchy, sill zoning, A3:67
- textures, relict vesicular pumice, photomicrograph, B2:35
- textures, stromatolitic, photograph, A4:19
- textures, subophitic
- diabase sills, A3:243
 - sill zoning, A3:67
- textures, swirled, photograph, A3:135
- textures, vesicular, photomicrograph, A3:226; B2:34
- thermal conductivity
- igneous rocks, A1:24; A4:11
 - sediments, A1:21; A3:104–105
 - vs. depth, A3:297–298; A4:33
- thermal degradation, vs. depth, A3:281
- thermal overprint, relation to Lower Sill complex, A3:70
- thorium
- basalt flows, B9:17
 - See also* hafnium-thorium-tantalum system
- time-depth conversion, laboratory studies, A3:108–111
- titanium
- basalt flows, B9:17
 - lithologic units, A3:35, 54
 - vs. vanadium, B9:57, 60
 - See also* zirconium/titanium ratio
- titanium oxide
- Albian–Turonian sedimentology, B8:7
 - black shale, B8:16
 - fine-grained sediments, B8:14
 - lithologic units, A3:33, 53–54
 - middle–upper Eocene sedimentology, B8:13
 - sills, A3:68
 - Turonian–uppermost Santonian sedimentology, B8:9
 - upper Paleocene–middle Eocene sedimentology, B8:12
 - vs. aluminum oxide, B8:28, 33, 37, 39
 - vs. depth, B8:41
 - vs. magnesium oxide, B8:29
 - vs. potassium oxide, B8:36
 - vs. silica, A3:251; B8:38
 - vs. zirconium, A3:251
- titanium/zirconium ratio, basalt flows, B9:16
- titanium-zirconium-yttrium system, basalts, B9:58, 61
- titannomagnetite, Cretaceous, B15:9
- Tithonian
- quartz-feldspar-lithic fragments system, B2:31
 - rafting phases, B1:6–7
 - synrift sedimentation, B1:25
- tonalite, continental crust, B1:5
- Tore Seamount, rafting phases, B1:8
- tourmaline, lithologic units, A3:37
- trace elements
- basalts, B9:59, 62
 - black shale, B10:5, 15–16
 - fine-grained sediments, B8:60–63
 - sediments, A3:98, 323–328
 - sills, A3:68–69, 330
 - volcaniclastics, B9:68–69
- trace elements/aluminum ratio, black shale, B10:16
- transects
- basement, A1:6–7
 - maps, A1:45–46
- transition zones
- rift systems, A1:5–6
 - structural asymmetries, A1:56–57
- traveltime, two-way
- basement, A5:33
 - predicted of sill/sediment contacts, A3:357
 - seafloor and sill, B14:32
 - vs. depth, A3:309
- Triassic, Upper
- rift systems, A1:4–6
 - rafting phases, B1:6
- tuff, altered, photomicrograph, A3:226
- tuff, lithologic units, A3:49
- turbidites
- Albian–Turonian sedimentology, B8:5–7
 - biostratigraphy, B13:24–25
 - lithologic units, A3:35–37, 43–44, 49–50, 56, 59–60; B3:17
 - photograph, A1:65; A3:131, 139, 142, 155, 165, 170, 172, 200, 205
 - postrift sedimentation, B1:30–33
 - velocity, A3:103–104
 - See also* calciturbidites
- turbidites, calcareous, photograph, A3:260
- turbidites, graded sandstone, photograph, A3:186–187, 195–196, 202
- turbidites, grainstone, photograph, A3:167
- turbidites, granule-grade, photograph, A3:164
- turbidites, marlstone, photograph, A3:163
- turbidites, mudstone, photograph, A3:169, 176, 238
- turbidites, sandstone, photograph, A3:173, 198–199, 201, 218, 225, 238
- turbidites, sandy, photomicrograph, A3:182
- turbidites, silt-mud, photograph, A3:192
- turbidites, siltstone, photograph, A3:188, 199
- turbidity currents
- biostratigraphy, B13:19–25
 - lithologic units, A1:14; A3:25, 30, 38–39
 - lithostratigraphy, A3:57–63

paleoflow directions, B3:1–27
photograph, A3:204–205, 211–212

Turonian
biostratigraphy, A3:86; B13:9–11
geochemistry, A1:20
lithologic units, A1:14; A3:36–58, 61–63
paleoenvironment, A1:17; B13:21–22
postrift sedimentation, B1:28–31
remanent magnetization, A1:19
sedimentation rates, A3:89
sedimentology, B8:5–8

See also Cenomanian–Turonian interval; Cenomanian/Turonian boundary

Turonian, lower
biostratigraphy, A3:79, 81
comparison at Site 1276 and Site 398, A1:27

U

U reflection
basement isopach maps, A1:52
seismic profiles, B1:54
sill injection, B1:22
synthetic seismograms, A1:31
ultramafics, tectonized altered, lithologic units, A1:22–23
unconformities
Albian, B1:13
biostratigraphy, A3:74
comparison at Site 1276 and Site 398, A1:27–28
lithologic units, A3:39
photograph, A3:144
rifting, B1:11
See also Avalon unconformity
undercompacted systems, high porosity and low velocity mudstone, A3:101
unroofing, rift-to-drift models, B2:10–11
uplifts, tectonic models, B9:30–31
upwelling, productivity, B8:17
uranium, black shale, B8:16; B10:5

V

Valanginian
lithologic units, A3:28
rifting phases, B1:9–11
synrift sedimentation, B1:25–27
vanadium
basalt flows, B9:16
black shale, B8:16; B10:5
fine-grained sediments, B8:14
lithologic units, A3:54
oceanic anoxic events, A3:98
vs. depth, B8:54
vs. titanium, B9:57, 60
vanadium/aluminum ratio
oceanic anoxic events, A3:98
vs. depth, A3:280
veins
lithologic units, A1:22
mantle exhumation, B1:14–15

veins, anastomosing, lithologic units, B9:11–13
veins, anastomosing calcite and talc, photograph, A4:25
veins, calcite

fluid inclusions, B5:13–14
lithologic units, B9:7–8
photograph, A3:238; A4:20, 27–28; B9:48
veins, calcite + pyrite, sill/sediment contacts, A3:66
veins, folded subvertical, photograph, A3:244
veins, magmatic, lithologic units, A4:8
veins, plagioclase magmatic, photograph, A4:28

velocity
igneous rocks, A1:24
sediments, A1:21
sediment/sill contacts, A3:104
seismic-borehole correlation, A3:107–108
seismic-core correlation, B14:6–9
time-depth conversion, A3:109–110
turbidites, A3:103–104
vs. carbonate content, A3:292
vs. depth, A1:74–75; A3:289, 303; A4:32; B7:16; B14:23–25
vs. two-way traveltimes, B14:27–30

See also compressional wave velocity
velocity, x-direction

sill/sediment contacts, A3:294
vs. carbonate content, A3:293
vs. depth, A3:289–294, 303, 308; B14:22, 27

velocity, y-direction, vs. depth, A3:290–291, 308

velocity, z-direction
histograms, A3:310
vs. depth, A3:290–291, 308; B14:22

velocity anisotropy, vs. depth, A3:295–296

vermiculite, X-ray diffraction data, A3:237

Verwey transition, Cretaceous, B15:9

vesicles, photomicrograph, A3:174

Vigo Seamount, seismic and sedimentary succession, A1:25–26

volcanic ash, altered, X-ray diffraction data, A3:237

volcanic ash, lithologic units, A3:49

volcanic fragments

Paleocene, B2:9
photomicrograph, B2:35

volcanic fragments, tachylitic, photomicrograph, B2:33

volcanic glass

diabase, A1:15
lithologic units, A3:28
sill zoning, A3:67

volcanic glass, altered, photomicrograph, B2:33

volcaniclastics

deposition, B8:18
lithologic units, A1:22; B9:5–14, 32
Paleocene, B4:7–8
photograph, B9:47–52
photomicrograph, A3:152; B9:53
postrift sedimentation, B1:30–31
rift-to-drift models, B2:10–11

volcanism, basaltic, tectonic models, B9:29

W

wavy laminations, lithologic units, A3:33–34

weathering profile, vs. depth, A1:75
Whale Basin, rifting phases, B1:6

X

X-ray diffraction data
fine-grained sediments, A3:52–55
Site 1276, A3:318–322
X-ray imaging, structures, B6:1–21

Y

Ypresian, biostratigraphy, A3:85
yttrium
basalt flows, B9:16
fine-grained sediments, B8:15
lower Campanian–upper Paleocene sedimentology,
B8:10
sills, A3:68
vs. zirconium, A3:251
See also niobium/yttrium ratio; niobium-zirconium-
yttrium system; titanium-zirconium-yttrium
system; zirconium/yttrium ratio

Z

zeolites
hydrothermal alteration, A3:57
lithologic units, A3:24

Zijderveld diagrams, demagnetization, A3:270, 274

zinc
basalt flows, B9:16
black shale, B8:16; B10:5
fine-grained sediments, B8:14
Turonian–uppermost Santonian sedimentology, B8:9
vs. depth, B8:53
zircon, lithologic units, A3:37
zirconium
basalt flows, B9:17
fine-grained sediments, B8:14
lithologic units, A3:29, 33, 35
sills, A3:68
vs. depth, B8:56
vs. titanium oxide, A3:251
vs. yttrium, A3:251
vs. zirconium/yttrium ratio, B9:57, 60
See also niobium-zirconium-yttrium system; titanium-
zirconium-yttrium system; titanium/zirconium
ratio
zirconium/titanium ratio, vs. niobium/yttrium ratio,
B9:56
zirconium/yttrium ratio
basalt flows, B9:17
vs. niobium/yttrium ratio, B9:63
vs. zirconium, B9:57, 60
Zoophycos
lithologic units, A3:32
photograph, A3:159–160, 173

TAXONOMIC INDEX**A**

Abathomphalus mayaroensis, Site 1276, A3:80–81
Abathomphalus mayaroensis Zone, Site 1276, A3:81;
B13:12
Acaenolithus cenomanicus, Site 1276, B13:9, 50
Acarinina bullbrooki, Site 1276, A3:80
Acarinina primitiva, Site 1276, A3:80
achlyostaurion, *Rhagodiscus*, Site 1276, A3:79
Achromosphaera alcicornu, Site 1276, A3:86
acus, *Lithraphidites*, Site 1276, A3:79; B13:8–9, 50
Adnatosphaeridium multispinosum, Site 1276, A3:85
aegyptiaca, *Globotruncana*, Site 1276, A3:81; B13:11
aequa, *Morozovella*, Site 1276, A3:80; B13:15
Ahmuellerella octoradiata, Site 1276, B13:10, 21, 50
alanii, *Fasciculithus*, Site 1276, B13:15
alatum, *Xiphophorum*, Site 1276, A3:86
alatus, *Lithraphidites*, Site 1276, B13:7, 49
albeari, *Igorina*, Site 1276, A3:80; B13:15
albianus, *Axopodorhabdus*, Site 1276, A3:79; B11:3; B13:8,
50
albiensis, *Hayesites*, Site 1276, A3:79–80; B11:4; B13:7, 49
alcicornu, *Achromosphaera*, Site 1276, A3:86
Alisocysta circumtabulata, Site 1276, A3:86
Alisocysta margarita, Site 1276, A3:86
Alisocysta reticulata, Site 1276, A3:86
altus, *Chiasmolithus*, Site 1276, A3:75; B13:18
Ammobaculites spp., Site 1276, A3:84
Ammodiscus cretaceus, Site 1276, B12:8

Ammodiscus latus, Site 1276, B12:8
Ammodiscus spp., Site 1276, A3:83–84; B12:2–3; B13:19
amoenum, *Phthanoperidinium*, Site 1276, A3:85
Amphipyndax spp., Site 1276, A3:88
amplectens, *Reticulophragmium*, Site 1276, B12:2–3, 8
anarrhopus, *Sphenolithus*, Site 1276, B13:15
anartios, *Discoaster*, Site 1276, B13:15
anthophorus, *Reinhardtites*, Site 1276, B13:10–11
appenninica, *Rotalipora*, Site 1276, A3:82; B13:8
apraca, *Whiteinella*, Site 1276, A3:81; B13:10
Aragonia velascoensis, Site 1276, A3:84
araneus, *Discoaster*, Site 1276, B13:15–16, 52
araneus, *Discoaster* cf. *Discoaster*, Site 1276, B13:52
archaeocretacea, *Whiteinella*, Site 1276, A3:82; B13:10
Archaeodictyonitra spp., Site 1276, A3:88
Areoligera semicirculata, Site 1276, A3:85
Areoligera senonensis, Site 1276, A3:85
Areosphaeridium dictyoplokum, Site 1276, A3:85
Arkhangelskiella cymbiformis, Site 1276, A3:78; B13:11
Arkhangelskiella maastrichtiana, Site 1276, A3:78
asper, *Rhagodiscus*, Site 1276, A3:79; B13:50
Aspidolithus parcus, Site 1276, B13:11
asterigum, *Oligosphaeridium*, Site 1276, A3:86
Astrononion novozealandicum, Site 1276, A3:83
asymmetricus, *Cruciplacolithus*, Site 1276, B13:13, 51
australatinum, *Palaeocystodinium*, Site 1276, A3:86
Axopodorhabdus albianus, Site 1276, A3:79; B11:3; B13:8,
50

B

barbadiensis, *Discoaster*, Site 1276, B13:52
barnesiae, *Watznaueria*, Site 1276, B13:12
bartonensis, *Cerebrocysta*, Site 1276, A3:85
basquensis, *Pemma*, Site 1276, A3:75; B13:18
Bathysiphon spp., Site 1276, A3:83
batilliformis, *Braarudosphaera*, Site 1276, B13:7
bentonensis, *Globigerinelloides*, Site 1276, A3:82; B13:8
Biantholithus sparsus, Site 1276, A3:77; B13:12, 51
bidens, *Chiasmolithus*, Site 1276, A3:77; B13:14, 51
bigelowii, *Braarudosphaera*, Site 1276, A3:77; B13:12
bijugatus, *Zygrhablithus*, Site 1276, A3:76; B13:15–16, 18
binodosus, *Discoaster*, Site 1276, B13:18, 52
Biscutum bloom, Site 1276, A1:18
Biscutum constans, Site 1276, B13:7, 19
Biscutum spp., Site 1276, B13:19
bisecta, *Reticulofenestra*, Site 1276, A3:75
bisulcus, *Prinsius*, Site 1276, B13:51
bitectus, *Fasciculithus*, Site 1276, B13:14–15
Biticinella breggiensis, Site 1276, A3:82; B13:8
Blackites rectus, Site 1276, B13:18
Blackites spinosus, Site 1276, A3:75; B13:18
Bolivina spp., Site 1276, A3:84; B13:20
Bomolithus elegans, Site 1276, B13:14
Braarudosphaera batilliformis, Site 1276, B13:7
Braarudosphaera bigelowii, Site 1276, A3:77; B13:12
Braarudosphaera stenoretha, Site 1276, A3:79
bramlettei, *Rhomboaster*, Site 1276, B13:16, 52
bramlettei, *Tribrachiatus*, Site 1276, A3:76
breggiensis, *Biticinella*, Site 1276, A3:82; B13:8
Broinsonia cf. *Broinsonia viriosa*, Site 1276, B13:49
Broinsonia parca constricta, Site 1276, A3:78
Broinsonia spp., Site 1276, A3:78
Bulimina tuxpamensis, Site 1276, A3:83
bullbrooki, *Acarinina*, Site 1276, A3:80
buxtorfi, *Planomalina*, Site 1276, A3:82; B13:8

C

californicum, *Damassadinium*, Site 1276, A3:86
Callaiosphaeridium cf. *Callaiosphaeridium trycherium*, Site 1276, A3:87
cancellata, *Cyclammina*, Site 1276, A3:83
caniculata, *Dicarinella* cf. *Dicarinella*, Site 1276, A3:81; B13:10
carniolensis, *Lithraphidites*, Site 1276, A3:79
Carpatella corruta, Site 1276, A3:86
Carpodinium granulatum, Site 1276, A3:87
Carpodinium obliquicostatum, Site 1276, A3:87
Caudammina gigantea, Site 1276, A3:84
cenomanicus, *Acaenolithus*, Site 1276, B13:9, 50
Cerebrocysta bartonensis, Site 1276, A3:85
Cerodinium diebelii, Site 1276, A3:86
Cerodinium wardense, Site 1276, A3:85
Charlesdowniea clathrata, Site 1276, A3:85
Charlesdowniea coleothrypta, Site 1276, A3:85
Chatangiella verrucosa, Site 1276, A3:86
Chiasmolithus altus, Site 1276, A3:75; B13:18
Chiasmolithus bidens, Site 1276, A3:77; B13:14, 51
Chiasmolithus consuetus, Site 1276, B13:14

Chiasmolithus danicus, Site 1276, A3:77; B13:51
Chiasmolithus expansus, Site 1276, B13:18
Chiasmolithus gigas, Site 1276, B13:17
Chiasmolithus grandis, Site 1276, A3:75; B13:18
Chiasmolithus solitus, Site 1276, A3:75; B13:18
chiastia, *Helenea*, Site 1276, A3:79
Chichaodinium vestitum, Site 1276, A3:87
Cibicidoides praemundulus, Site 1276, A3:83
Cibicidoides spp., Site 1276, A3:83; B12:2
circumtabulata, *Alisocysta*, Site 1276, A3:86
cladooides, *Dinopterygium*, Site 1276, A3:87
clathrata, *Charlesdowniea*, Site 1276, A3:85
Clausicoccus subdistichus, Site 1276, B13:18
Clavihedbergella simplex, Site 1276, A3:82
Coccilithus formosus, Site 1276, A3:75; B13:18
Coccilithus pelagicus, Site 1276, B13:13, 18
Coccilithus spp., Site 1276, B13:18
coleothrypta, *Charlesdowniea*, Site 1276, A3:85
colligerum, *Diphyes*, Site 1276, A3:85
columnata, *Prediscosphaera*, Site 1276, A3:80; B11:4; B13:6–7, 49
compactus, *Helicolithus*, Site 1276, A3:79
condylos, *Dracodinium*, Site 1276, A3:85
conica, *Globotruncana*, Site 1276, A3:80
conicotruncana, *Morozovella*, Site 1276, A3:80; B13:14
conispinum, *Litosphaeridium*, Site 1276, A3:87
connicinus, *Neochiastozygus*, Site 1276, B13:51
constans, *Biscutum*, Site 1276, B13:7, 19
consuetus, *Chiasmolithus*, Site 1276, B13:14
contortus, *Tribrachiatus*, Site 1276, A3:76; B13:16, 52
contusa, *Contusotruncana*, Site 1276, A3:80–81
Contusotruncana contusa, Site 1276, A3:80–81
cornuta, *Carpatella*, Site 1276, A3:86
Corollithion kennedyi, Site 1276, A3:79; B11:3; B13:8–9, 50
coronatum, *Stephodinium*, Site 1276, A3:87
corpulentus, *Paratrocchaminoides* cf. *Paratrocchaminoides*, Site 1276, B12:2–3
cretacea, *Guembelitria*, Site 1276, A3:81; B13:13
cretaceus, *Ammodiscus*, Site 1276, B12:8
Cretarhabdus loriei, Site 1276, B13:9, 50
Cribrocorona gallica, Site 1276, A3:78; B13:11
Cribrosphaerella daniae, Site 1276, A3:78; B13:11
cruciformis, *Cruciplacolithus*, Site 1276, B13:17
Cruciplacolithus asymmetricus, Site 1276, B13:13, 51
Cruciplacolithus cruciformis, Site 1276, B13:17
Cruciplacolithus edwardsii, Site 1276, B13:13
Cruciplacolithus intermedius, Site 1276, B13:13, 51
Cruciplacolithus primus, Site 1276, A3:77; B13:12–13, 51
Cruciplacolithus tenuis, Site 1276, B13:13
cushmani, *Rotalipora*, Site 1276, A3:81–82; B13:10
cuspis, *Rhomboaster*, Site 1276, A3:76
Cyclagelosphaera reinhardtii, Site 1276, A3:77; B13:12–13
Cyclammina cancellata, Site 1276, A3:83
Cyclicargolithus floridanus, Site 1276, B13:18
Cyclicargolithus obrutus, Site 1276, B13:18
Cyclonephelium membraniphorum, Site 1276, A3:86
Cylindralithus nudus, Site 1276, A3:79; B11:4; B13:7
cymbiformis, *Arkhangelskiella*, Site 1276, A3:78; B13:11

D

Damassadinium californicum, Site 1276, A3:86
daniae, *Cribrosphaerella*, Site 1276, A3:78; B13:11
danica, *Sullivania*, Site 1276, B13:13–14
danicus, *Chiasmolithus*, Site 1276, A3:77; B13:51
deanei, *Florentinia*, Site 1276, A3:86
decussata, *Micula*, Site 1276, A3:78; B13:12
deflandrei, *Discoaster*, Site 1276, B13:18
delitiense, *Spongodinium*, Site 1276, A3:86
delrioensis, *Hedbergella*, Site 1276, A3:82
delrioensis, *Praeglobotruncana*, Site 1276, A3:82
delrioensis, *Praehedbergella*, Site 1276, A3:82; B13:8
diasotypus, *Discoaster*, Site 1276, A3:76; B13:16, 52
Dicarinella cf. *Dicarinella caniculata*, Site 1276, A3:81; B13:10
Dicarinella imbricata, Site 1276, A3:81; B13:10
dictyoda, *Reticulofenestra*, Site 1276, B13:18
Dictyomitra spp., Site 1276, A3:88
dictyoplokum, *Areosphaeridium*, Site 1276, A3:85
diebelii, *Cerodinium*, Site 1276, A3:86
dimorphosus, *Prinsius*, Site 1276, B13:13
Dinopterygium cladooides, Site 1276, A3:87
Diphyes colligerum, Site 1276, A3:85
Discoaster anartios, Site 1276, B13:15
Discoaster araneus, Site 1276, B13:15–16, 52
Discoaster barbadiensis, Site 1276, B13:52
Discoaster binodosus, Site 1276, B13:18, 52
Discoaster cf. *Discoaster araneus*, Site 1276, B13:52
Discoaster deflandrei, Site 1276, B13:18
Discoaster diastypus, Site 1276, A3:76; B13:16, 52
Discoaster falcatus, Site 1276, B13:52
Discoaster lodoensis, Site 1276, A3:75; B13:17
Discoaster mahmoudii, Site 1276, B13:16, 52
Discoaster multiradiatus, Site 1276, A3:77; B13:14, 16–17, 52
Discoaster nobilis, Site 1276, B13:15, 52
Discoaster saipanensis, Site 1276, B13:19
Discoaster salisburgensis, Site 1276, B13:16, 52
Discoaster spp., Site 1276, A3:76; B13:52
Discoaster sublodoensis, Site 1276, A3:75; B13:17
Discoaster tani nodifer, Site 1276, B13:17
Discorhabdus rotatorius, Site 1276, B13:7, 19
draco, *Rhomboedinium*, Site 1276, A3:85
Dracodinium condylos, Site 1276, A3:85
dubius, *Neococcolithes*, Site 1276, B13:17

E

echinatum, *Phthanoperidinium*, Site 1276, A3:85
edwardsii, *Cruciplacolithus*, Site 1276, B13:13
Eiffellithus cf. *Eiffellithus eximius*, Site 1276, B13:9
Eiffellithus cf. *Eiffellithus monechiae*, Site 1276, A3:79
Eiffellithus eximius, Site 1276, A3:78–79; B13:10, 50
Eiffellithus? *hancockii*, Site 1276, B13:7, 49
Eiffellithus monechiae, Site 1276, A3:79; B11:3; B13:8
Eiffellithus turriseiffelii, Site 1276, A3:79; B11:3; B13:8
elegans, *Bomolithus*, Site 1276, B13:14
Ellipsolithus lajollaensis, Site 1276, A3:75
Ellipsolithus macellus, Site 1276, A3:75; B13:14
Enneadocysta pectiniformis, Site 1276, A3:85

Epelidospaeridia spinosa, Site 1276, A3:86
Eprolithus eptapetalus, Site 1276, B13:10, 50
Eprolithus floralis, Site 1276, A3:79
Eprolithus moratus, Site 1276, A3:79
Eprolithus octopetalus, Site 1276, A3:79; B13:9, 50
Eprolithus spp., Site 1276, B13:9, 21
eptapetalus, *Eprolithus*, Site 1276, B13:10, 50
Ericsonia subpertusa, Site 1276, B13:13–14, 51
eugubina, *Parvularugoglobigerina*, Site 1276, A1:18; A3:81; B13:13
euphratis, *Helicosphaera*, Site 1276, B13:18
eximus, *Eiffellithus*, Site 1276, A3:78–79; B13:10, 50
eximus, *Eiffellithus* cf. *Eiffellithus*, Site 1276, B13:9
expansus, *Chiasmolithus*, Site 1276, B13:18

F

falcatus, *Discoaster*, Site 1276, B13:52
falsostuarti, *Globotruncana*, Site 1276, A3:81
falsostuarti, *Globotruncana* cf. *Globotruncana*, Site 1276, B13:12
Fasciculithus alanii, Site 1276, B13:15
Fasciculithus bitectus, Site 1276, B13:14–15
Fasciculithus cf. *Fasciculithus ulii*, Site 1276, B13:51
Fasciculithus involutus, Site 1276, B13:51
Fasciculithus magnus, Site 1276, A3:77
Fasciculithus schaubii, Site 1276, B13:15
Fasciculithus spp., Site 1276, B13:14–16, 51
Fasciculithus thomasii, Site 1276, B13:15
Fasciculithus tonii, Site 1276, B13:15, 51
Fasciculithus tympaniformis, Site 1276, A3:76; B13:14
Fasciculithus ulii, Site 1276, A3:77; B13:14
firthii, *Psyktsphaera*, Site 1276, A3:78; B13:11–12
floralis, *Eprolithus*, Site 1276, A3:79
Florentinia deanei, Site 1276, A3:86
floridanus, *Cyclicargolithus*, Site 1276, B13:18
formosus, *Coccilithus*, Site 1276, A3:75; B13:18
frequens, *Nephrolithus*, Site 1276, A3:78; B13:11–12
fructicosa, *Racemiguembelina*, Site 1276, A3:80–81
fulgens, *Nannotetrina*, Site 1276, A3:75
furcatus, *Marthasterites*, Site 1276, A3:78; B13:10, 50

G

gallica, *Cribrocorona*, Site 1276, A3:78; B13:11
Gansserina gansseri Zone, Site 1276, B13:11
Gartnerago nanum, Site 1276, B13:9, 50
Gartnerago segmentatum, Site 1276, A3:79
Gartnerago spp., Site 1276, B13:21
Gartnerago theta, Site 1276, B13:9, 50
gartneri, *Quadrum*, Site 1276, A3:78–79; B13:10, 50
Gavelinella cf. *Gavelinella intermedia*, Site 1276, A3:84
Gavelinella spp., Site 1276, A3:84; B13:20
gigantea, *Caudammina*, Site 1276, A3:84
gigas, *Chiasmolithus*, Site 1276, B13:17
Glaphyrocysta semitecta, Site 1276, A3:85
Globanomalina pseudomenardii, Site 1276, A3:80; B13:14–15
Globigerinatheka cf. *Globigerinatheka index*, Site 1276, A3:80
Globigerinelloides bentonensis, Site 1276, A3:82; B13:8
Globigerinelloides spp., Site 1276, A3:82

VOLUME 210 TAXONOMIC INDEX

Globigerinelloides ultramicrus, Site 1276 • *Morozovella aequa*, Site 1276

25

- Globigerinelloides ultramicrus*, Site 1276, A3:82
Globotruncana aegyptiaca, Site 1276, A3:81; B13:11
Globotruncana aegyptiaca Zone, Site 1276, B13:11
Globotruncana cf. *Globotruncana falsostuarti*, Site 1276, B13:12
Globotruncana conica, Site 1276, A3:80
Globotruncana falsostuarti, Site 1276, A3:81
Globotruncana orientalis, Site 1276, A1:18
Globotruncana stuarti, Site 1276, A3:80
Globotruncana ventricosa, Site 1276, A3:81; B13:11
globotruncanoides, *Rotalipora*, Site 1276, B13:8
Glomospira gordialis, Site 1276, B12:2
Glomospira spp., Site 1276, A3:84; B12:2; B13:19
gordialis, *Glomospira*, Site 1276, B12:2
grandis, *Chiasmolithus*, Site 1276, A3:75; B13:18
granulatum, *Carpodinium*, Site 1276, A3:87
Guembelitria cretacea, Site 1276, A3:81; B13:13
Guembelitria spp., Site 1276, A1:18; A3:82
Gyroidina spp., Site 1276, A3:84
Gyroidinoides cf. *Gyroidinoides nitidus*, Site 1276, A3:84; B13:20
Gyroidinoides spp., Site 1276, A3:83

H

- hancockii*, *Eiffellithus?*, Site 1276, B13:7, 49
Hapsocysta peridictya, Site 1276, A3:86
Hayesites albiensis, Site 1276, A3:79–80; B11:4; B13:7, 49
Hayesites irregularis, Site 1276, B13:7, 49
Hedbergella cf. *Hedbergella rischi*, Site 1276, B13:7
Hedbergella delrioensis, Site 1276, A3:82
Hedbergella libyca, Site 1276, A3:82; B13:8
Hedbergella planispira, Site 1276, A3:82–83; B13:7
Hedbergella planispira Zone, Site 1276, B13:7
Hedbergella spp., Site 1276, A3:82
Helenea chiastia, Site 1276, A3:79
Helicolithus compactus, Site 1276, A3:79
Helicolithus trabeculatus, Site 1276, B13:7, 49
Helicosphaera euphratis, Site 1276, B13:18
Heliolithus kleinpelli, Site 1276, B13:14
Heliolithus riedelii, Site 1276, B13:14
Helvetoglobotruncana helvetica Zone, Site 1276, B13:10
Hemiplacophora semilunifera, Site 1276, A3:85
Heteraulacacysta leptalea, Site 1276, A3:85
Heterohelix spp., Site 1276, A3:82
Hyperammina spp., Site 1276, A3:83

I

- Igorina albeari*, Site 1276, A3:80; B13:15
imbricata, *Dicarinella*, Site 1276, A3:81; B13:10
index, *Globigerinatheka* cf. *Globigerinatheka*, Site 1276, A3:80
inflata, *Rhabdosphaera*, Site 1276, A3:75; B13:17–18
infusorioides, *Palaeohystrichophora*, Site 1276, A3:86
inornata, *Senoriasphaera*, Site 1276, A3:86
intermedia, *Gavelinella* cf. *Gavelinella*, Site 1276, A3:84
intermedium, *Quadrum*, Site 1276, A3:79; B13:9
intermedius, *Cruciplacolithus*, Site 1276, B13:13, 51
inversus, *Markalius*, Site 1276, A3:77; B13:12–13, 18
involutus, *Fasciculithus*, Site 1276, B13:51

- irregularis*, *Hayesites*, Site 1276, B13:7, 49
irregularis/albiensis group, *Rucinolithus*, Site 1276, B13:7
Isthmolithus recurvus, Site 1276, A3:75

K

- Kamptnerius magnificus*, Site 1276, A3:78; B13:10, 12
kennedyi, *Corollithion*, Site 1276, A3:79; B11:3; B13:8–9, 50
kleinpelli, *Heliolithus*, Site 1276, B13:14

L

- Lagenammina* spp., Site 1276, A3:84
lajollaensis, *Ellipsolithus*, Site 1276, A3:75
Laternithus minutus, Site 1276, B13:12, 18
latus, *Ammodiscus*, Site 1276, B12:8
Lentinia serrata, Site 1276, A3:85
leptalea, *Heteraulacacysta*, Site 1276, A3:85
levis, *Reinhardtites*, Site 1276, A3:78; B13:11
libyca, *Hedbergella*, Site 1276, A3:82; B13:8
Lithastrinus septenarius, Site 1276, A3:78; B13:10, 50
Lithraphidites acutus, Site 1276, A3:79; B13:8–9, 50
Lithraphidites alatus, Site 1276, B13:7, 49
Lithraphidites carniolensis, Site 1276, A3:79
Lithraphidites quadratus, Site 1276, A3:78; B13:11
Litosphaeridium conispinum, Site 1276, A3:87
Litosphaeridium siphoniphorum, Site 1276, A3:86–87
lodoensis, *Discoaster*, Site 1276, A3:75; B13:17
loriei, *Cretarhabdus*, Site 1276, B13:9, 50
Lucianorhabdus maleformis, Site 1276, B13:50

M

- maastrichtiana*, *Arkhangelskiella*, Site 1276, A3:78
macellus, *Ellipsolithus*, Site 1276, A3:75; B13:14
magnificus, *Kamptnerius*, Site 1276, A3:78; B13:10, 12
magnus, *Fasciculithus*, Site 1276, A3:77
mahmoudii, *Discoaster*, Site 1276, B13:16, 52
maleformis, *Lucianorhabdus*, Site 1276, B13:50
margarita, *Alisocysta*, Site 1276, A3:86
Marginotruncana renzi, Site 1276, A3:81; B13:10
Marginotruncana sigali, Site 1276, A3:81; B13:10
Markalius inversus, Site 1276, A3:77; B13:12–13, 18
Markalius panis, Site 1276, B13:13, 51
Marthasterites furcatus, Site 1276, A3:78; B13:10, 50
martini, *Prinsius*, Site 1276, B13:13–14
mayaroensis, *Abathomphalus*, Site 1276, A3:80–81
mazaganensis, *Tehamadinium*, Site 1276, A3:86
membraniphorum, *Cyclonephelium*, Site 1276, A3:86
Micula decussata, Site 1276, A3:78; B13:12
Micula murus, Site 1276, A3:78; B13:11, 22
Micula prinsii, Site 1276, A3:78; B13:11
Micula prinsii Zone, Site 1276, A3:77; B13:12
minutus, *Laternithus*, Site 1276, B13:12, 18
modestus, *Neochiastozygus*, Site 1276, B13:13
monechiae, *Eiffellithus*, Site 1276, A3:79; B11:3; B13:8
monechiae, *Eiffellithus* cf. *Eiffellithus*, Site 1276, A3:79
moratus, *Eprolithus*, Site 1276, A3:79
moriformis, *Sphenolithus*, Site 1276, B13:16, 18
Morozovella aequa, Site 1276, A3:80; B13:15

Morozovella cf. Morozovella spinulosa, Site 1276, A3:80
Morozovella conicotruncana, Site 1276, A3:80; B13:14
moulladei, *Zeugrhabdotus*, Site 1276, B13:19
multiplus, *Octolithus*, Site 1276, B13:12
multiradiatus, *Discoaster*, Site 1276, A3:77; B13:14, 16–17, 52
multispinosum, *Adnatosphaeridium*, Site 1276, A3:85
murus, *Micula*, Site 1276, A3:78; B13:11, 22

N

Nannoconus steinmannii, Site 1276, A3:79
Nannoconus trutti, Site 1276, A3:79
Nannoconus wassallii, Site 1276, A3:79
Nannotetrina fulgens, Site 1276, A3:75
nanum, *Gartnerago*, Site 1276, B13:9, 50
Neobiscutum parvulum, Site 1276, A3:77–78; B13:12–13
Neobiscutum romeinii, Site 1276, A3:77–78; B13:12–13
Neochiastozygus connicinus, Site 1276, B13:51
Neochiastozygus modestus, Site 1276, B13:13
Neococcilithes dubius, Site 1276, B13:17
neocrassus, *Neocrepidolithus*, Site 1276, A3:77
Neocrepidolithus neocrassus, Site 1276, A3:77
Neocrepidolithus spp., Site 1276, B13:12–13
Nephrolithus frequens, Site 1276, A3:78; B13:11–12
nitidus, *Gyroidinoides* cf. *Gyroidinoides*, Site 1276, A3:84; B13:20
nobilis, *Discoaster*, Site 1276, B13:15, 52
Nonionella spp., Site 1276, A3:83
novozealandicum, *Astrononion*, Site 1276, A3:83
nudus, *Cylindralithus*, Site 1276, A3:79; B11:4; B13:7
Nuttallides truempyi, Site 1276, B12:2, 8

O

oamarioensis, *Reticulofenestra*, Site 1276, A3:75
obliquicostatum, *Carpodium*, Site 1276, A3:87
obratus, *Cyclicargolithus*, Site 1276, B13:18
Octolithus multiplus, Site 1276, B13:12
octopetalus, *Eprolithus*, Site 1276, A3:79, 50
octoradiata, *Ahmuellerella*, Site 1276, B13:10, 21, 50
Oligosphaeridium asterigum, Site 1276, A3:86
Oligosphaeridium pulcherrimum, Site 1276, A3:86
orientalis, *Globotruncana*, Site 1276, A1:18
orionatus, *Tranolithus*, Site 1276, A3:80; B11:3; B13:7–8, 49
orthostylus, *Tribrachiatus*, Site 1276, A3:76; B13:16–17, 52
Ovoidinium verrucosum, Site 1276, A3:86–87

P

Palaeocystodinium australinum, Site 1276, A3:86
Palaeohystriophora infusorioides, Site 1276, A3:86
Palaeoperidinium pyrophorum, Site 1276, A3:86
panis, *Markalius*, Site 1276, B13:13, 51
papillatum, *Pemma*, Site 1276, A3:75; B13:18
Parasubbotina pseudobulloides, Site 1276, A3:81; B13:14
Paratrochaminoides cf. *Paratrochaminoides corpulentus*, Site 1276, B12:2–3
parca constricta, *Broinsonia*, Site 1276, A3:78
parcus, *Aspidolithus*, Site 1276, B13:11

Parvularugoglobigerina eugubina, Site 1276, A1:18; A3:81; B13:13
parvulum, *Neobiscutum*, Site 1276, A3:77–78; B13:12–13
pectiniformis, *Enneadocysta*, Site 1276, A3:85
pelagicus, *Coccolithus*, Site 1276, B13:13, 18
Pemma basquensis, Site 1276, A3:75; B13:18
Pemma papillatum, Site 1276, A3:75; B13:18
Pemma spp., Site 1276, B13:18
peridictya, *Hapsocysta*, Site 1276, A3:86
pertusus, *Toweius* cf. *Toweius*, Site 1276, B13:51
Pervosphaeridium truncatum, Site 1276, A3:86
Phthanoperidinium amoenum, Site 1276, A3:85
Phthanoperidinium echinatum, Site 1276, A3:85
planispira, *Hedbergella*, Site 1276, A3:82–83; B13:7
Planoglobulina spp., Site 1276, B13:22
Planomalina buxtorfi, Site 1276, A3:82; B13:8
plesiotypica/jacobi ammonite zone, Site 1276, B13:7
pomeroli, *Turborotalia*, Site 1276, A3:80
Pontosphaera spp., Site 1276, B13:18
Praebulimina spp., Site 1276, A3:84; B13:20
Praeglobotruncana cf. *Praeglobotruncana praehelvetica*, Site 1276, A3:81; B13:10
Praeglobotruncana delrioensis, Site 1276, A3:82
Praeglobotruncana praehelvetica, Site 1276, A3:81; B13:10
Praeglobotruncana stephani, Site 1276, A3:82; B13:8
Praehedbergella delrioensis, Site 1276, A3:82; B13:8
praehelvetica, *Praeglobotruncana*, Site 1276, A3:81; B13:10
praehelvetica, *Praeglobotruncana* cf. *Praeglobotruncana*, Site 1276, A3:81; B13:10
praemundulus, *Cibicidoides*, Site 1276, A3:83
praeorionatus, *Tranolithus*, Site 1276, B13:7, 49
practicinensis, *Ticinella*, Site 1276, A3:82
Prediscosphaera columnata, Site 1276, A3:80; B11:4; B13:6–7, 49
Prediscosphaera spinosa, Site 1276, B13:7, 49
Prediscosphaera stoveri, Site 1276, B13:12
primitiva, *Acarinina*, Site 1276, A3:80
primitivum, *Serbibiscutum*, Site 1276, B13:49
primula, *Ticinella*, Site 1276, A3:82–83; B13:8
primus, *Cruciplacolithus*, Site 1276, A3:77; B13:12–13, 51
primus, *Sphenolithus*, Site 1276, B13:14
prinsii, *Micula*, Site 1276, A3:78; B13:11
Prinsius bisulcus, Site 1276, B13:51
Prinsius dimorphosus, Site 1276, B13:13
Prinsius martinii, Site 1276, B13:13–14
Prinsius tenuiculum, Site 1276, B13:13
pseudobulloides, *Parasubbotina*, Site 1276, A3:81; B13:14
pseudomenardii, *Globanomalina*, Site 1276, A3:80; B13:14–15
Pseudotextularia spp., Site 1276, B13:22
Psyktosphaera firthii, Site 1276, A3:78; B13:11–12
pulcheroides, *Transversopontis*, Site 1276, B13:18
pulcherrimum, *Oligosphaeridium*, Site 1276, A3:86
pyrophorum, *Palaeoperidinium*, Site 1276, A3:86

Q

quadratus, *Lithraphidites*, Site 1276, A3:78; B13:11
Quadrum gartneri, Site 1276, A3:78–79; B13:10, 50
Quadrum intermedium, Site 1276, A3:79; B13:9

R

Racemiguembelina fructicosa, Site 1276, A3:80–81
radians, *Sphenolithus*, Site 1276, B13:17–18
raynaudi, *Ticinella*, Site 1276, A3:82
rectus, *Blackites*, Site 1276, B13:18
Recurvoides spp., Site 1276, B12:2
recurvus, *Isthmolithus*, Site 1276, A3:75
reinhardtii, *Cyclagelosphaera*, Site 1276, A3:77; B13:12–13
Reinhardtites anthophorus, Site 1276, B13:10–11
Reinhardtites levis, Site 1276, A3:78; B13:11
renzi, *Marginotruncana*, Site 1276, A3:81; B13:10
reticulata, *Alisocysta*, Site 1276, A3:86
reticulata, *Reticulofenestra*, Site 1276, B13:19
Reticulofenestra bisecta, Site 1276, A3:75
Reticulofenestra dictyoda, Site 1276, B13:18
Reticulofenestra oamarioensis, Site 1276, A3:75
Reticulofenestra reticulata, Site 1276, B13:19
Reticulofenestra samodurovii, Site 1276, B13:18
Reticulofenestra scrippsae, Site 1276, B13:18
Reticulofenestra spp., Site 1276, B13:18
Reticulofenestra umbilica, Site 1276, B13:18
Reticulofenestra umbilicus, Site 1276, A3:75
Reticulophragmium amplectens, Site 1276, B12:2–3, 8
Reticulophragmium spp., Site 1276, A3:83
Rhabdosphaera inflata, Site 1276, A3:75; B13:17–18
Rhagodiscus achlyostaurion, Site 1276, A3:79
Rhagodiscus asper, Site 1276, A3:79; B13:50
Rhizammina spp., Site 1276, A3:83; B13:19
Rhomboaster bramlettei, Site 1276, B13:16, 52
Rhomboaster bramlettei var. "T", Site 1276, B13:16, 52
Rhomboaster cuspis, Site 1276, A3:76
Rhomboaster spineus, Site 1276, B13:16
Rhomboaster spp., Site 1276, A3:76
Rhomboaster-Tribrachiatus lineage, Site 1276, A3:76; B13:15
Rhombodium draco, Site 1276, A3:85
riedelii, *Heliolithus*, Site 1276, B13:14
rischi, *Hedbergella* cf. *Hedbergella*, Site 1276, B13:7
roberti, *Ticinella*, Site 1276, A3:82; B13:8
rohri, *Truncorotaloides*, Site 1276, A3:80
romeinii, *Neobiscutum*, Site 1276, A3:77–78; B13:12–13
Rotalipora appenninica, Site 1276, A3:82; B13:8
Rotalipora appenninica Zone, Site 1276, A3:82; B13:8
Rotalipora cushmani, Site 1276, A3:81–82; B13:10
Rotalipora cushmani Zone, Site 1276, B13:10
Rotalipora globotruncanoides, Site 1276, B13:8
Rotalipora globotruncanoides Zone, Site 1276, A3:82
Rotalipora subticinensis, Site 1276, A3:82; B13:8
Rotalipora ticinensis, Site 1276, A3:82; B13:8
Rotalipora ticinensis Zone, Site 1276, B13:8
rotatorius, *Discoaster*, Site 1276, B13:7, 19
rotundata alveoata, *Senoniasphaera*, Site 1276, A3:86
Rucinolithus irregularis/albiensis group, Site 1276, B13:7

S

saipanensis, *Discoaster*, Site 1276, B13:19
salisburgensis, *Discoaster*, Site 1276, B13:16, 52
samodurovii, *Reticulofenestra*, Site 1276, B13:18
Schackoina spp., Site 1276, A3:82

schaubii, *Fasciculithus*, Site 1276, B13:15
scrippsae, *Reticulofenestra*, Site 1276, B13:18
segmentatum, *Gartnerago*, Site 1276, A3:79
semicirculata, *Areoligera*, Site 1276, A3:85
semilunifera, *Hemiplacophora*, Site 1276, A3:85
semitecta, *Glaphyrocysta*, Site 1276, A3:85
senonensis, *Areoligera*, Site 1276, A3:85
Senoniasphaera inornata, Site 1276, A3:86
Senoniasphaera rotundata alveoata, Site 1276, A3:86
septenarius, *Lithastrinus*, Site 1276, A3:78; B13:10, 50
Serbibiscutum primitivum, Site 1276, B13:49
serrata, *Lentinia*, Site 1276, A3:85
sigali, *Marginotruncana*, Site 1276, A3:81; B13:10
sigmoides, *Zeugrhabdotus*, Site 1276, B13:12–13
simplex, *Clavihedbergella*, Site 1276, A3:82
siphoniphorum, *Litosphaeridium*, Site 1276, A3:86–87
sissinghi, *Uniplanarius*, Site 1276, B13:10–11
solitus, *Chiasmolithus*, Site 1276, A3:75; B13:18
sparsus, *Biantholithus*, Site 1276, A3:77; B13:12, 51
spectabilis, *Spiroplectammina*, Site 1276, A3:84; B12:2–3, 8
Sphenolithus anarrhopus, Site 1276, B13:15
Sphenolithus moriformis, Site 1276, B13:16, 18
Sphenolithus primus, Site 1276, B13:14
Sphenolithus radians, Site 1276, B13:17–18
spineus, *Rhomboaster*, Site 1276, B13:16
spinosa, *Epelidosphaeridia*, Site 1276, A3:86
spinosa, *Prediscosphaera*, Site 1276, B13:7, 49
spinosus, *Blackites*, Site 1276, A3:75; B13:18
spinula, *Wetzliella*, Site 1276, A3:85
spinulosa, *Morozovella* cf. *Morozovella*, Site 1276, A3:80
Spiroplectammina spectabilis, Site 1276, A3:84; B12:2–3, 8
Spiroplectammina spp., Site 1276, A3:83
Spongodinium delitiense, Site 1276, A3:86
steinmannii, *Nannoconus*, Site 1276, A3:79
stenoretha, *Brarudosphaera*, Site 1276, A3:79
stephani, *Praeglobotruncana*, Site 1276, A3:82; B13:8
Stephodinium coronatum, Site 1276, A3:87
stoveri, *Prediscosphaera*, Site 1276, B13:12
stuarti, *Globotruncana*, Site 1276, A3:80
subdistichus, *Clausicoccus*, Site 1276, B13:18
sublodoensis, *Discoaster*, Site 1276, A3:75; B13:17
subpertusa, *Ericsonia*, Site 1276, B13:13–14, 51
subticinensis, *Rotalipora*, Site 1276, A3:82; B13:8
Sullivania danica, Site 1276, B13:13–14
spectum, *Trityrodinium*, Site 1276, A3:86

T

tani nodifer, *Discoaster*, Site 1276, B13:17
Tehamadinium mazaganensis, Site 1276, A3:86
tenuiculum, *Prinsius*, Site 1276, B13:13
tenuis, *Cruciplacolithus*, Site 1276, B13:13
theta, *Gartnerago*, Site 1276, B13:9, 50
thomasii, *Fasciculithus*, Site 1276, B13:15
Thoracosphaera bloom, Site 1276, A1:18; A3:77–78, 81; B13:13, 16
Ticinella praeticinensis, Site 1276, A3:82
Ticinella primula, Site 1276, A3:82–83; B13:8
Ticinella raynaudi, Site 1276, A3:82
Ticinella roberti, Site 1276, A3:82; B13:8
ticinensis, *Rotalipora*, Site 1276, A3:82; B13:8

tonii, Fasciculithus, Site 1276, B13:15, 51
Toweius cf. *Toweius pertusus*, Site 1276, B13:51
Toweius spp., Site 1276, B13:13
trabeculatus, *Helicolithus*, Site 1276, B13:7, 49
Tranolithus orionatus, Site 1276, A3:80; B11:3; B13:7–8, 49
Tranolithus praeorionatus, Site 1276, B13:7, 49
Transversopontis pulcheroides, Site 1276, B13:18
Tribrachiatus bramlettei, Site 1276, A3:76
Tribrachiatus contortus, Site 1276, A3:76; B13:16, 52
Tribrachiatus orthostylus, Site 1276, A3:76; B13:16–17, 52
trifidus, *Uniplanarius*, Site 1276, A3:78; B13:10–11
Trithyrodinium suspectum, Site 1276, A3:86
Trochammina spp., Site 1276, A3:83–84
truempyi, *Nuttallides*, Site 1276, B12:2, 8
truitti, *Nannoconus*, Site 1276, A3:79
truncatum, *Pervosphaeridium*, Site 1276, A3:86
Truncorotaloides rohri, Site 1276, A3:80
trycherium, *Callaiosphaeridium* cf. *Callaiosphaeridium*, Site 1276, A3:87
Turborotalia pomeroli, Site 1276, A3:80
turrisieffelii, *Eiffellithus*, Site 1276, A3:79; B11:3; B13:8
tuxpamensis, *Bulimina*, Site 1276, A3:83
tympaniformis, *Fasciculithus*, Site 1276, A3:76; B13:14

U

ulii, *Fasciculithus*, Site 1276, A3:77; B13:14
ulii, *Fasciculithus* cf. *Fasciculithus*, Site 1276, B13:51
ultramicrus, *Globigerinelloides*, Site 1276, A3:82
umbilica, *Reticulofenestra*, Site 1276, B13:18
umbilicus, *Reticulofenestra*, Site 1276, A3:75
Uniplanarius sissinghi, Site 1276, B13:10–11
Uniplanarius trifidus, Site 1276, A3:78; B13:10–11

V

velascoensis, *Aragonina*, Site 1276, A3:84
ventricosa, *Globotruncana*, Site 1276, A3:81; B13:11
verrucosa, *Chatangiella*, Site 1276, A3:86
verrucosum, *Ovoidinium*, Site 1276, A3:86–87
vestitum, *Chichaodinium*, Site 1276, A3:87
viriosa, *Broinsonia* cf. *Broinsonia*, Site 1276, B13:49

W

wardense, *Cerodinium*, Site 1276, A3:85
wassallii, *Nannoconus*, Site 1276, A3:79
Watznaueria barnesiae, Site 1276, B13:12
Wetziella spinula, Site 1276, A3:85
Whiteinella aprica, Site 1276, A3:81; B13:10
Whiteinella archaeocretacea, Site 1276, A3:82; B13:10
Whiteinella archaeocretacea Zone, Site 1276, A3:81; B13:10
Woodringina spp., Site 1276, A1:18; A3:81; B13:13

X

Xiphophorum alatum, Site 1276, A3:86
Xitus spp., Site 1276, A3:88

Z

Zeugrhabdotus moulladei, Site 1276, B13:19
Zeugrhabdotus sigmoides, Site 1276, B13:12–13
Zeugrhabdotus spp., Site 1276, B13:7, 19
 zones (with letter prefixes)
 CC26, Site 1276, A3:78; B13:11
 CP1a, Site 1276, A3:77
 CP2, Site 1276, A3:77; B13:13
 CP2–CP3 interval, Site 1276, A3:77; B13:13–14
 CP3, Site 1276, A3:77; B13:13–14
 CP4, Site 1276, B13:14
 CP5–CP7 interval, Site 1276, B13:14
 CP8, Site 1276, A3:76; B13:15
 CP8a, Site 1276, B13:14–15
 CP8b, Site 1276, B13:16
 CP9a, Site 1276, A3:76; B13:16
 CP9b, Site 1276, B13:16
 CP10, Site 1276, A3:75–76; B13:17
 CP10–CP11 interval, Site 1276, A3:75; B13:17
 CP11, Site 1276, A3:75; B13:17
 CP12a, Site 1276, A3:75; B13:17
 CP12b, Site 1276, A3:75; B13:17
 CP13, Site 1276, A3:75
 CP13a, Site 1276, A3:75; B13:17
 CP14a, Site 1276, A3:75; B13:18
 CP14b, Site 1276, B13:18
 CP14b–CP15 interval, Site 1276, A3:75
 CP15b, Site 1276, B13:18
 CP16, Site 1276, A3:75
 CP16a, Site 1276, B13:18
 KS12, Site 1276, B13:7
 KS13, Site 1276, A3:83
 KS14, Site 1276, A3:82
 KS15, Site 1276, A3:82; B13:8
 KS16, Site 1276, A3:82
 KS17, Site 1276, A3:82; B13:8
 KS19, Site 1276, B13:10
 KS20, Site 1276, A3:81; B13:10
 KS21, Site 1276, A3:81; B13:10
 KS28, Site 1276, A3:81
 KS29, Site 1276, A3:81; B13:11
 KS30, Site 1276, A3:81; B13:11–12
 KS31, Site 1276, A3:81; B13:12
 NC8, Site 1276, A3:80
 NC8a, Site 1276, A3:80; B11:4; B13:7
 NC8b, Site 1276, B11:4; B13:7
 NC8c, Site 1276, A3:80; B11:3; B13:7–8
 NC9a, Site 1276, A3:79; B13:8
 NC9b, Site 1276, A3:79; B11:3; B13:8
 NC10a, Site 1276, A3:79; B11:3; B13:8
 NP9, Site 1276, B13:15
 Pa, Site 1276, A3:81
 P1–P2 interval, Site 1276, A3:81; B13:14
 P4, Site 1276, A3:80; B13:14
 P4c, Site 1276, B13:14, 16
 P9–P12 interval, Site 1276, A3:80
 P12–P15 interval, Site 1276, A3:80
 UC1, Site 1276, A3:79
 UC3, Site 1276, A3:79; B13:8–9
 UC3–UC5 interval, Site 1276, A3:79

UC4, Site 1276, B13:9
UC5, Site 1276, B13:9
UC6, Site 1276, B13:10
UC7, Site 1276, A3:79
UC8, Site 1276, A3:79; B13:10
UC9, Site 1276, B13:10
UC10, Site 1276, A3:78; B13:10
UC15, Site 1276, A3:78; B13:10–11
UC15–UC16 interval, Site 1276, A3:78

UC16, Site 1276, B13:11
UC16–UC18 interval, Site 1276, B13:11
UC17, Site 1276, A3:78
UC18–UC19 interval, Site 1276, A3:78
UC20, Site 1276, A3:78; B13:11
UC20a–UC20c interval, Site 1276, A3:78; B13:11
UC20d, Site 1276, A3:77; B13:12
Zygrhablithus bijugatus, Site 1276, A3:76; B13:15–16, 18