

INDEX TO VOLUME 199

This index covers both the *Initial Reports* and *Scientific Results* portions of Volume 199 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 1215, for example, is given as “Site 1215, A8:1–60.”

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

- absolute pole, rotations, B21:21
- Abyssamina quadrata*, preservation, A8:26
- acceleration, well-logging, A11:80
- actinomids
 - percentage in Zone RP15, B24:19
 - Zone RP15, B24:7–8
- age
 - biogenic sediments, A4:10
 - radiolarian zonal boundaries, A14:31
 - radiolarian zones, A1:74
 - vs. paleodepth, A1:63; B1:36
 - vs. paleolatitude, A1:65
- age vs. depth
 - correlation of Sites 1218 and 1219, B2:27
 - Site 1215, A8:34
 - Site 1216, A9:25
 - Site 1217, A10:36, 38
 - Site 1218, A11:61
 - Site 1219, A12:66
 - Site 1220, A13:49, 51
 - Site 1221, A14:35
 - Site 1222, A15:27
- alkalinity
 - pore water, A8:15; A9:10; A10:16; A11:25; A12:25; A13:21; A14:18; A15:12
 - vs. depth, A8:35; A9:26; A10:39; A11:64; A12:69; A13:53; A14:38; A15:30
- alkenones
 - organic biomarkers, B25:1–11
 - properties, B25:8
- aluminum
 - bulk sediments, A8:17; A9:11; A10:17; A11:26; A12:26–27; A13:22; A14:19; B14:15
 - ferromanganese micronodules, B14:4
 - hydrothermal sediments, B15:3
 - Paleocene/Eocene boundary, A1:84; A13:23; B16:3
 - precision by inductively coupled plasma–atomic emission spectroscopy, A7:11
 - sediments, B14:4
 - velocity and density, B13:6
 - vs. age, A1:69
 - vs. depth, A8:36; A9:27; A10:40; A11:65; A12:70; A13:54, 56; A14:39, 41; B15:5; B16:6
 - vs. manganese in bulk sediments, B14:16
 - See also* manganese/aluminum ratio
- aluminum/(aluminum + iron + manganese) ratio, vs. iron/titanium ratio, B14:18
- aluminum/titanium ratio
 - bulk sediments, A12:27
 - vs. age, A1:70
- aluminum oxide, calibration by inductively coupled plasma–atomic emission spectroscopy, A7:10

ammonium
pore water, A12:25; A13:21
vs. depth, A8:35; A9:26; A10:39; A11:64; A12:69;
A13:53; A14:38; A15:30

anoxia
burial at Paleocene/Eocene boundary, B23:4–5
See also redox

Antarctic Bottom Water, benthic foraminifers, A12:19

Antarctic ice volume, Oligocene, B1:11

antimony, Paleocene/Eocene boundary, B16:3

arsenic
hydrothermal sediments, B15:3
Paleocene/Eocene boundary, B16:3
vs. depth, B15:3; B16:6

artostrobids
percentage in Zone RP15, B24:19
Zone RP15, B24:7

atmospheric circulation, climate models, A3:5–6

authigenesis, pore water, A10:17

B

barite
Paleocene/Eocene boundary, B1:19; B22:1–23
vs. depth, B22:17–18, 23

barite, calcium carbonate-free, vs. depth, B22:19

barium
bulk sediments, A8:17; A9:11; A10:18; A11:27;
A12:27; A13:23; A14:19; B14:15
Eocene sediments, B20:1–33
hydrothermal sediments, B15:3, 11
Paleocene/Eocene boundary, A1:85; A13:24; A14:20;
B1:19; B16:3; B22:1–23
pore water, A8:16; A9:10; A10:17; A12:26
sediments, B14:4
vs. depth, A8:35–36; A9:26–27; A10:39–40; A11:64–
65; A12:69–70; A13:53–54, 56; A14:39, 41;
A15:30; B15:5; B16:6; B21:17
vs. manganese in bulk sediments, B14:16

barium, shipboard, sediments, B22:22

barium/phosphorus ratio, productivity, B22:9

barium/reactive phosphorus ratio, vs. depth, B22:19

barium/titanium ratio, vs. age, A1:70

basalt, lithologic units, A8:6; A10:8; A11:10; A12:11;
A13:9; A14:9; A15:6

benthic extinction event. *See* Paleocene/Eocene bound-
ary Benthic Extinction Event

biogenic component, concentration, B20:26

biomarkers. *See* organic biomarkers

biostratigraphic datums, vs. depth, A8:25

biostratigraphy
ebridians, B10:1–9
integration, B2:6–7
lower Oligocene/lower Eocene radiolarians, B5:1–74
middle Eocene, B24:6
Oligocene benthic foraminifers, B8:1–26
Oligocene/lower Miocene diatoms, B6:1–25
Paleocene/Eocene benthic foraminifers, B7:1–34
Paleocene/Eocene boundary, A1:25–26
Paleogene, B1:6–8
radiolarian zonation, A9:19; A10:29

sedimentation rates, A8:14–15

silicoflagellates, B9:1–29; B10:1–9

Site 1215, A8:6–10

Site 1216, A9:6–7

Site 1217, A10:9–12

Site 1218, A11:10–19

Site 1219, A12:13–20

Site 1220, A13:10–18

Site 1221, A14:9–15

Site 1222, A15:7–9

upper Oligocene/lower Miocene radiolarians, B4:1–13
vs. age, A1:76
vs. depth, A15:22
zonation, A11:47–48; A12:53–54; A13:38–39; A14:30
zonation vs. depth, A8:25

biotic events, Paleocene/Eocene boundary, A1:25–26

bioturbation
lithologic units, A10:6; A12:8–11; A13:6–10; A15:4–6
Paleocene/Eocene boundary, A14:8
photograph, A10:27

birnessite, ferromanganese micronodules, B14:4

Blackman-Tukey spectrum, caliper logs, A12:87–88

blue spectra. *See* red/blue spectral ratio

boreholes, velocity and density, B13:6–7

boron
pore water, A15:12
vs. depth, A8:35; A9:26; A10:39; A11:64; A12:69;
A13:53; A14:38; A15:30

Brunhes Chron
magnetic polarity, A8:11–12
magnetostratigraphy, A12:22

burial, biogenic, Paleocene/Eocene boundary, B23:1–12

burrows, lithologic units, A11:8

buserite, ferromanganese micronodules, B14:4

C

cadmium, Paleocene/Eocene boundary, B16:3

calcite
calibration of visible and near-infrared spectroscopy,
B11:19
light absorption spectroscopy, A5:5; A8:19; A9:13, 45;
A10:19, 62; A11:29, 118–120; A12:30, 121–123;
A13:26, 88–89; A14:21–22, 63; A15:14, 54
light absorption spectroscopy vs. chemical analysis,
A5:14
light absorption spectroscopy vs. ground-truth miner-
alogy, A5:18
reflectance spectra, B11:9
reflectance vs. wavelength, A5:13
velocity and density, B13:5–6
visible and near-infrared spectroscopy, B11:11–17
vs. depth, A8:39; A9:30; A10:43; A11:69; A12:75;
A13:60; A14:45; A15:35; B24:15

calcite, secondary, nannofossil biostratigraphy, A14:11

calcite overgrowth, photomicrograph, A12:55

calcium
bulk sediments, A8:17; A9:11; A10:18; A11:26;
A12:27; A13:23; A14:19
ferromanganese micronodules, B14:4
hydrothermal sediments, B15:3

- Paleocene/Eocene boundary, A1:85; A14:20; B16:3
pore water, A8:16; A9:10; A11:25–26; A12:26; A13:22;
A14:18; A15:12
velocity and density, B13:6
vs. age, A1:67; A7:13
vs. depth, A1:66; A8:35–36; A9:26–27; A10:39–40;
A11:64–66; A12:69–71; A13:53–56; A14:38–41;
A15:30; B15:5; B16:6
vs. phosphorus in bulk sediments, B14:16
See also magnesium/calcium ratio
- calcium, inductively coupled plasma–atomic emission
spectroscopy, vs. depth, A7:12
- calcium carbonate
bulk sediments, A8:17–18; A9:11; A10:18; A11:23, 27;
A12:27–28, 118; A13:23, 86; A14:19; A15:13;
B21:30–31; B23:10–12
burial at Paleocene/Eocene boundary, B23:2–5
carbonate accumulation event, B20:26
dissolution, B23:9
Eocene/Oligocene boundary, B1:13
Eocene sediments, B21:8–9
lithologic units, A8:55; A14:61; A15:52
Paleocene/Eocene boundary, B22:6–7
productivity, B22:11
sediments, A9:43; A10:60; A11:114–115
sodium carbonate and potassium hydroxide treat-
ment vs. normative analysis, A6:21
vs. age, B2:27; B21:23, 28
vs. depth, A11:66; A12:71; A13:55; A14:40; A15:31;
B22:18; B23:8
- calcium carbonate, rain-preserved, vs. calcium carbonate
mass accumulation rates, B21:26
- calibration
inductively coupled plasma–atomic emission spec-
troscopy, A7:4–5
light absorption spectroscopy, A5:7–9
- caliper logs
Blackman-Tukey spectrum, A12:87–88
vs. depth, A11:78, 82–83; A12:84
- carbon, calcium carbonate-free organic, vs. depth,
B22:19
- carbon, organic
bulk sediments, A10:18; A11:27; A12:118; A13:86;
A14:19; B21:30–31; B22:23; B23:10–12
burial, B1:17–18
burial at Paleocene/Eocene boundary, B23:2–5
concentration vs. mass accumulation rates, B20:27
constant burial, B22:8–9
diagenesis, A1:14–15
Eocene sediments, B20:1–33; B21:9–10
lithologic units, A8:55; A14:61; A15:52
mass accumulation rates, B20:26
organic biomarkers, B25:1–11
Paleocene/Eocene boundary, B22:7
productivity, B22:10–11
sediments, A9:43; A10:60; A11:114–115
vs. age, B21:23
vs. depth, B23:8–9
vs. distance to chert layers, B20:25
- carbon cycle
obliquity, B1:12
paleoclimatology, B1:3
- carbon dioxide
Eocene/Oligocene boundary, B1:14
paleoclimatology, B1:3
- carbon isotopes
benthic foraminiferal timescale, B18:10
benthic foraminifers, B21:29
Oligocene, B1:11–12
Oligocene/Miocene boundary, B19:1–13
Oligocene paleoceanography, B17:3
Paleocene/Eocene boundary, B16:5; B18:1–12
sediments, B21:31
vs. depth, B17:7; B18:8–9
- carbonate accumulation event-1, age, B21:23
carbonate accumulation event-2, age, B21:23
carbonate accumulation event-3
age, B21:23
carbonate compensation depth, B21:14–15
Eocene, B1:16–17
carbonate accumulation event-4, age, B21:23
carbonate accumulation events
age, B20:26
sedimentation rates, B21:8–16
sediments, B21:32
- carbonate compensation depth
carbonate accumulation event-3, B21:14–15
Eocene, B1:16–17; B21:1–35
Eocene changes, B21:11–12
Eocene–Oligocene transition, A1:6; B8:3
Eocene/Oligocene boundary, B1:14
lithologic units, A11:10; A12:12; A13:10
lower Eocene, A1:55; B1:15
mass accumulation rates, A10:15
multisensor track data, B2:7–8
nannofossils, A11:13
oxygen isotopes, B21:12–13
Paleocene/Eocene boundary, A1:5
Paleogene, A1:12–13
seismic reflections, A4:6
vs. depth, B21:27
- carbonate content
velocity and density, B13:5–6
vs. compressional wave velocity, B13:20
vs. depth, A10:28
vs. wet bulk density, B13:19
- carbonate crystals, lithologic units, A11:8
- carbonates
carbonate compensation depth, B21:1–33
cyclostratigraphy, B1:8
latitudinal transects, A1:15–17
lower Eocene, A1:55; B1:15
preservation, B18:3–4
seismic reflections, A4:4–5
- cementation, lithologic units, A12:12
- Cenozoic
benthic oxygen isotopes vs. age, A1:56
high-resolution mineralogy, B11:1–23
paleoclimatology, B1:2–3
radiolarian biostratigraphy, B3:1–76
Cenozoic, lower, paleoceanography, B1:1–39

- cerium
 hydrothermal sediments, B15:3
 Paleocene/Eocene boundary, B16:3
 vs. depth, B15:5; B16:6
 vs. manganese in bulk sediments, B14:16
 cerium/cerium ratio, bulk sediments, B14:4, 15
- chalk
 lithologic units, A11:8
 Paleocene/Eocene boundary, A14:8
- chalk, calcareous
 lithologic units, A12:11; A13:8–9; A14:7–8
 photomicrograph, A13:36
- chalk, clayey calcareous, photomicrograph, A13:36
- chalk, dolomitized nannofossil, lower–middle Eocene,
 A1:32–33; A10:4
- chalk, nannofossil
 lithologic units, A10:7–8; A11:8–10; A14:7–8
 lower Eocene–upper Paleocene, A1:11–12
 Oligocene–lower Miocene, A1:10
 photograph, A10:27
- chemical analysis
 bulk marine sediments, A7:1–14
 sodium carbonate treatment of radiolarian ooze,
 A6:1–21
- chert
 intact layers, A11:90
 lithologic units, A8:5–6; A10:7–8; A11:9; A12:11;
 A13:7–8; A14:6–7; A15:6
 lower–lower middle Eocene, A1:11
 lower–middle Eocene, A1:32–33; A10:4
 photograph, A11:45
See also clay/chert, interbedded pelagic
- chert bands, Formation Microscanner imagery, A12:91
- chert fragments, lithologic units, A11:8
- chloride
 pore water, A8:15; A9:10; A10:16; A11:25; A12:25;
 A13:21; A14:18; A15:12
 vs. depth, A8:35; A9:26; A10:39; A11:64; A12:69;
 A13:53; A14:38; A15:30
- chlorite, light absorption spectroscopy, A5:5–6
- chlorophyll, productivity, A1:53; B1:34
- Chondrites*, lithologic units, A11:9
- chromium
 hydrothermal sediments, B15:3
 Paleocene/Eocene boundary, B16:3
 vs. depth, B15:5; B16:6
- Chron C1n
 magnetic polarity, A8:11–12
 magnetostratigraphy, A11:21; A12:22; A15:10
 sedimentation rates, A9:9
- Chron C1n.1r, magnetic polarity, A8:11
- Chron C1r.1n, sedimentation rates, A9:9
- Chron C2An, magnetic polarity, A8:11–12
- Chron C2Ar, magnetostratigraphy, A11:21
- Chron C2n, magnetic polarity, A8:11–12
- Chron C6An, magnetostratigraphy, A13:18
- Chron C6An.2n, Oligocene, B1:11
- Chron C6Cn–C12n, magnetostratigraphy, A15:10
- Chron C6Cn.2n, foraminiferal biostratigraphy, A12:17
- Chron C6Cn.2r
 foraminiferal biostratigraphy, A12:17
- nannofossil biostratigraphy, A12:14
- radiolarians, A12:19–20
- Chron C6Cn.3n, Oligocene, B1:11
- Chron C6Cr, foraminiferal biostratigraphy, A12:17
- Chron C6n, seismic reflections, A4:5
- Chron C7An, magnetostratigraphy, A11:21
- Chron C7n.2n, magnetostratigraphy, A11:21
- Chron C8r, seismic reflections, A4:5
- Chron C9n
 Oligocene, B1:11
 seismic reflections, A4:5
- Chron C11n, magnetostratigraphy, A11:21; B2:6
- Chron C11n.1n
 magnetostratigraphy, A11:21
 Oligocene, B1:11
- Chron C11n.2n, magnetostratigraphy, A11:21
- Chron C12, magnetostratigraphy, A11:21
- Chron C12n–C13n, Oligocene, B1:11
- Chron C12r, magnetostratigraphy, A11:21; A12:22
- Chron C13n
 correlation, B2:8
 magnetostratigraphy, A12:22; B2:7
- Chron C13n/C13r reversal, magnetostratigraphy, A12:22
- Chron C13n–C20n, magnetostratigraphy, B2:7
- Chron C13r, magnetostratigraphy, A14:15
- Chron C15n, magnetostratigraphy, A12:22; A14:15
- Chron C15n–C20n, magnetostratigraphy, A14:15
- Chron C16, magnetostratigraphy, A10:13
- Chron C17, magnetostratigraphy, A10:13
- Chron C18n–C12n, magnetostratigraphy, A10:13
- Chron C18r, magnetostratigraphy, A15:10
- Chron C19n, sedimentation rates, A9:9
- Chron C20n
 magnetic polarity, A9:8
 magnetostratigraphy, A10:13
 sedimentation rates, A9:9
- Chron C20r, magnetostratigraphy, A12:22
- Chron C21, magnetostratigraphy, A13:18
- Chron C21n, magnetostratigraphy, A13:18
- Chron C22n, magnetic polarity, A8:12
- Chron C22r, magnetic polarity, A8:12
- Chron C23n, magnetic polarity, A8:11–12
- Chron C23r, magnetic polarity, A8:12
- Chron C24n, magnetic polarity, A8:11–12
- Chron C24n.3n, sedimentation rates, A8:14
- Chron C24r
 foraminiferal biostratigraphy, A12:18
 magnetic polarity, A8:11–12
- Chron C25n
 magnetic polarity, A8:11
 sedimentation rates, A8:14–15
- Cibicidoides mundulus*, vs. depth, B8:10–11
- Cibicidoides* sp. A, vs. depth, B8:10–11
- Clarion Fracture Zone, seismic reflections, A4:6
- clay
 light absorption spectroscopy, A5:5–6
 lithologic units, A8:5; A9:5–6; A10:6–8; A11:7; A12:8–
 11; A13:6–10; A14:6–8; A15:4–6
 lower Eocene, A1:29
 lower–lower middle Eocene, A1:11
 Paleocene/Eocene boundary, A14:8

- photograph, A10:27
 visible and near-infrared spectroscopy, B11:18
 clay, iron/manganese oxide/sulfide, photomicrograph, A13:36
 clay, iron oxide, lithologic units, A15:5
 clay, nannofossil, lithologic units, A8:5–6
 clay, pelagic, rebound, B12:5–6
 clay, radiolarian, lithologic units, A11:7; A12:8–11; A15:5
 clay, red, lithologic units, A1:28, 30; A8:2; A9:3
 clay, surficial, Paleogene, A1:9–10
 clay, zeolitic
 lithologic units, A10:6–7; A12:11; A14:7–8
 Paleocene/Eocene boundary, A14:8
 clay/chert, interbedded pelagic, lithologic units, A9:5–6
 claystone, nannofossil
 lithologic units, A10:8
 photograph, A10:27
 climate models
 straw man model, A3:1–30
 See also Community Climate Model; global coupled climate models; greenhouse warming; ocean-atmosphere climate models
 Climate System Model, lower Paleogene, A3:3
 Clipperton Fracture Zone, seismic reflections, A4:4–7
 coarse fraction, vs. depth, B8:9
 cobalt
 hydrothermal sediments, B15:3
 Paleocene/Eocene boundary, B16:3
 vs. depth, B15:5; B16:6
 vs. manganese in bulk sediments, B14:16
 coccoliths, percentage in Zone RP15, B24:19
 color bands, lithologic units, A10:7
 color change, core photograph, A12:51
 color reflectance. *See* reflectance
 Community Climate Model, lower Paleogene, A3:3
 compaction, lithologic units, A12:12
 composite depths
 magnetic reversals, A10:50; A11:101; A13:75
 Site 1215, A8:12–13, 47
 Site 1216, A9:8–9
 Site 1217, A10:13–14, 52
 Site 1218, A11:21–23, 103; B2:29–31
 Site 1219, A12:22–24, 108; B2:32
 Site 1220, A13:19–20, 77
 Site 1221, A14:16, 54
 Site 1222, A15:10
 stratigraphy, B2:1–41
 composite depths, core, correction, B12:1–21
 compressional wave velocity
 lithologic units, A8:12–13, 19; A9:13, 46; A10:20, 63; A11:22, 29–30, 121–122; A12:30–31, 124–125; A13:26–27, 90; A14:22, 64; A15:15, 55
 sediments, B13:1–31
 vs. carbonate content, B13:20
 vs. depth, A8:31, 33, 40; A9:23, 31; A10:33–35, 44; A11:70; A12:73, 76; A13:61; A14:46; A15:34, 36
 vs. wet bulk density, A11:71; A12:77; A13:62; B13:18
 compressional wave velocity, corrected, vs. impedance, B13:27
 compressional wave velocity, horizontal
 vs. depth, B13:16
 vs. *P*-wave logger at equivalent depth, B13:17
 compressional wave velocity, logger, vs. horizontal compressional wave velocity, B13:17
 compressional wave velocity, rebound-corrected, composite depth, B13:25
 copper
 ferromanganese micronodules, B14:4–6
 hydrothermal sediments, B15:3
 Paleocene/Eocene boundary, B16:3
 vs. depth, B15:5; B16:6
 copper/manganese ratio, bulk sediments, B14:4, 15
 core disturbance
 Site 1215, A8:48
 Site 1216, A9:37
 Site 1217, A10:51
 Site 1218, A11:102
 Site 1219, A12:23, 107
 Site 1220, A13:76
 Site 1221, A14:53
 Site 1222, A15:45
 core images, composite offset, A8:32
 Coriolis force, paleoproductivity, B1:10
 correlation
 core vs. wireline logging data, B2:8
 site-to-site correlation, B2:6
 stratigraphy, B2:1–41
 cyclostratigraphy, Paleogene, B1:8

D
 deep resistivity logs, vs. depth, A11:81–83; A12:86
 demagnetization, alternating-field
 discrete samples, A8:11, 29; A10:13; A11:20–21; A12:21–22
 sediments, A10:31
 demagnetization, lithologic units, A14:15
 density
 boreholes, B13:6–7
 in situ properties, B13:7–9
 lithologic units, A8:12–13, 18, 56; A10:14, 19; A11:27–29, 116–117; A12:22–23, 28–29, 119–120; A13:24–25, 87; A14:16, 20–21, 62; A15:10, 13–14, 53
 sedimentation rates, A11:24
 sediments, A9:12, 44; A10:61; B13:1–31
 vs. depth, A10:37; B12:11–12
 density, bulk, vs. depth, B24:15
 density, corrected gamma-ray attenuation, vs. wet bulk density, B13:14
 density, dry bulk
 lithologic units, A8:52; A9:40; A10:56
 vs. depth, A8:38
 vs. interpolated gamma-ray attenuation bulk density, A9:29; A10:42; A11:68; A12:74; A13:59; A14:44; A15:33
 density, gamma-ray attenuation bulk
 correlation of Sites 1218–1219, B2:26, 28
 middle/upper Eocene boundary, A1:61
 vs. age, A1:76

- vs. depth, A8:31, 33; A9:23–24; A10:33–35; A11:56, 59, 62; A12:61, 64–66, 73; A13:45, 47–48, 50, 57; A14:34, 36, 43; A15:25–26, 28, 34; B2:5, 13–25, 33–34; B13:21
- vs. dry bulk density, A9:29; A10:42; A11:68; A12:74; A13:59; A14:44; A15:33
- vs. logging density, B12:13
- vs. logging Hostile Environment Litho-Density Tool density, B13:22
- vs. wet bulk density, A9:29; A10:42; A11:68; A12:74; A13:59; A14:44; A15:33
- density, grain, vs. depth, A8:37; A9:28; A10:41; A11:67; A12:72; A13:57; A14:42; A15:32
- density, logging
- vs. depth, B12:16–17
- vs. depth offset, B12:16–17
- vs. gamma-ray attenuation bulk density, B12:13
- density, logging Hostile Environment Litho-Density Tool, vs. gamma-ray attenuation bulk density, B13:22
- density, rebound, vs. pressure, B13:23
- density, rebound-corrected wet bulk, composite depth, B13:24
- density, wet bulk
- vs. carbonate content, B13:19
- vs. compressional wave velocity, A11:71; A12:77; A13:62; B13:18
- vs. corrected gamma-ray attenuation density, B13:14
- vs. depth, A8:37–38; A9:28; A10:41; A11:67; A12:72; A13:57; A14:42; A15:32; B13:13
- vs. impedance, B13:26
- vs. interpolated gamma-ray attenuation bulk density, A9:29; A10:42; A11:68; A12:74; A13:59; A14:44; A15:33
- vs. porosity, B13:15
- density logs
- vs. depth, A11:81–83, 86; A12:86, 89, 92
- See also lithodensity logs
- depth offsets
- vs. depth, A11:60
- vs. logging density, B12:16–17
- diagenesis
- benthic foraminifers, A12:19
- micronodules, B22:8
- organic carbon, A1:14–15
- seismic reflections, A4:4–6
- diatom datums, stratigraphic constraints and paleomagnetic chrons, B6:22
- diatom maximum event, Zone RP15, B24:7–8
- diatom/radiolarian ratio, cores, B24:17
- diatoms
- biostratigraphy, B6:1–25
- events, B24:14
- events vs. age, A1:80
- lithologic units, A11:8; A12:10–12; A13:7–8
- lithology, A1:60
- Paleogene biostratigraphy, B1:7
- ranges, B6:15
- sedimentology, B24:1–19
- vs. depth, B24:15
- vs. nassellarian/spumellarian ratio, B24:18
- zonation, B6:3–6
- dissolution
- burial at Paleocene/Eocene boundary, B23:4
- calcium carbonate, B23:9
- carbonates, B18:3–4
- microfossils, A8:8
- dolomite
- lithologic units, A10:8; A11:9–10; A13:9
- photograph, A10:27
- photomicrograph, A13:36
- dolomite crystals
- lithologic units, A11:10
- photograph, A13:40
- dolomite rhombs, photograph, A10:27
- downhole measurements
- Site 1218, A11:32–37
- Site 1219, A12:33–39
- Drake Passage, ocean basins, B1:3
- dysprosium, Paleocene/Eocene boundary, B16:3
- ## E
- ebridians, biostratigraphy, B10:1–9
- eccentricity
- cyclostratigraphy, B1:8
- Oligocene, B1:11
- eccentricity–obliquity node conditions, Eocene/Oligocene boundary, B1:13
- Ekman divergence, paleoproductivity, B1:9
- Ekman layer
- climate models, A3:5, 18–19
- mixed layer, A3:16
- El Niño Southern Oscillation, lower Paleogene, A3:4
- Eocene
- Abysamina quadrata*, A8:26
- benthic foraminifers, A12:19; A13:15–16; B7:1–34
- biogenic sedimentation, B21:1–35
- biostratigraphy, B1:7–8
- carbonate compensation depth, B21:1–35
- lithologic units, A8:5–6; A9:5–6; A10:6–8; A15:5–6
- magnetostratigraphy synthesis, A1:73
- nannofossil biostratigraphy, A11:14
- organic biomarkers, B25:1–11
- organic carbon and barium, B20:1–33
- paleoclimatology, B1:14–18; B20:19–20
- paleopositions, B21:4–5
- radiolarian bioevents, B3:15
- radiolarian biostratigraphy, A15:9
- radiolarian ooze, A1:22–24; A6:1–21
- sedimentation rates, B20:13–17
- sediments, A1:39; A12:5
- silicoflagellates, B9:1–29
- See also Paleocene/Eocene boundary; Paleocene/Eocene boundary Benthic Extinction Event; Paleocene–Eocene Thermal Maximum; Paleocene–Eocene transition
- Eocene, lower
- biostratigraphy, A10:9–10
- clay–calcareous ooze cycles, A1:29; A8:2–3
- foraminiferal biostratigraphy, A8:8
- lithologic units, A10:7–8; A12:11; A15:6

- nannofossil biostratigraphy, A14:10–11
 nannofossil ooze/chalk, A1:11–12
 paleoclimatology, A1:55; B1:15
 radiolarians, B4:1–13
 Eocene, lower–lower middle, chert, clay, and radiolarian ooze, A1:11
 Eocene, lower–middle interval
 chert and dolomitized nannofossil chalk, A1:32–33
 magnetostratigraphy, A13:44
 Eocene, lower–middle transition, chert, B1:15
 Eocene, lower–upper middle, magnetostratigraphy, A13:43
 Eocene, lower/middle boundary, foraminiferal biostratigraphy, A9:6
 Eocene, lower/middle hiatus, radiolarian bioevents, B3:17
 Eocene, middle
 basal sediments, A1:35–36; A11:5
 foraminiferal biostratigraphy, A9:6; A11:14–18
 lithologic units, A10:7–8; A11:8–10; A12:11
 magnetostratigraphy, A12:60
 missing section, A1:30; A9:3
 paleoequator position, A1:64
 radiolarian ooze, A1:32; A10:4
 sedimentology, B24:1–19
 seismic reflections, A4:6
 Eocene, middle–upper
 lithologic units, A12:9–11; A14:6–7
 radiolarian ooze, A1:10–11
 radiolarite, A1:35; A11:5
 sedimentation rates, B1:16
 Eocene, middle/upper boundary, gamma-ray attenuation bulk density, A1:61
 Eocene, upper
 biostratigraphy, A10:11
 core photograph, A12:51
 impact events, A1:7
 lithologic units, A14:7
 radiolarians, B5:1–74
 sedimentation rates, B1:35
 Eocene–Miocene interval
 correlation, A1:38
 magnetostratigraphy vs. depth, A11:54
 Eocene–Oligocene transition
 biostratigraphy, A1:35; A11:4
 digital photograph, A1:77
 nannofossil biostratigraphy, A14:10–12
 paleoclimatology, A1:6, 20–22
 stratigraphy, A1:38–39; A12:5
 Eocene/Oligocene boundary
 composite digital images, A1:62
 core photograph, A12:51
 cyclostratigraphy, B1:8
 digital photograph, A1:78–79
 foraminiferal biostratigraphy, A11:16; A12:18
 greenhouse world–icehouse world transition, B1:12–14
 lithologic units, A15:6
 magnesium/calcium ratio, B1:12
 nannofossil biostratigraphy, A11:13; A14:10
 oxygen isotope events, B1:11
 paleoclimatology, B1:3
 radiolarian biostratigraphy, A11:19; A13:17; A14:13–14
 radiolarians, A12:20; B1:7; B5:6–7
 sedimentation rates, A12:24
 stratigraphic control, A1:87
 stratigraphy, A1:41; A13:3
Epistominella exigua, photomicrograph, A12:55
 erbium, Paleocene/Eocene boundary, B16:3
 erosional lag, lithologic units, A14:6
 europium, Paleocene/Eocene boundary, B16:3
 europium/europium ratio, bulk sediments, B14:4, 15
- F**
- faults
 photograph, A11:46
 seismic reflections, A4:5–7
 faults, normal, lithologic units, A12:10–12
 fine fraction, stable isotopes, B17:3–4, 11–12
 fish teeth, lithologic units, A14:7
Fissurina sp., photomicrograph, A11:50
 foraminifer datums, sediments, A11:97; A12:103
 foraminifers, agglutinated benthic, distribution, A9:36
 foraminifers, benthic
 biostratigraphy, A8:9–10; A9:6–7; A10:10–11; A11:17–18; A12:18–19; A13:15–16; A14:12–13; A15:8
 digital photograph of stratigraphic distribution, A1:83
 distribution, A8:46; A10:49; A11:98–99; A12:104–105; A13:72–73
 Oligocene/Miocene boundary stable isotopes, B19:1–13
 Oligocene biostratigraphy, B8:1–26
 Oligocene stable isotope paleoceanography, B17:1–12
 Paleocene/Eocene biostratigraphy, B7:1–34
 Paleocene/Eocene boundary, A1:25–26; A14:8; B18:1–12
 Paleocene/Eocene boundary stable isotopes, B18:3
 Paleogene biostratigraphy, B1:7–8
 photomicrograph, A11:50
 stable isotopes, B21:29
 stratigraphic distribution, A13:41
 vs. depth, B8:9
 foraminifers, events, A8:51; A11:106; A12:111; A13:80; A14:57
 foraminifers, planktonic
 biostratigraphic datums, A11:97
 biostratigraphy, A8:8–9; A10:10; A11:14–17; A12:16–18; A13:13–15; A14:12
 distribution, A8:45
 lower Eocene distribution, A12:102
 middle Miocene distribution, A11:96
 Miocene–upper Eocene distribution, A11:92–95
 Oligocene and Miocene distribution, A12:98–101
 Paleocene/Eocene boundary, A1:25–26
 photograph, A13:40
 stable isotope Oligocene paleoceanography, B17:1–12
 upper Paleocene–lower Eocene distribution, A13:71
 vs. depth, B8:9
 Formation MicroScanner imagery
 correlation of Sites 1218 and 1219, B2:28
 vs. depth, A11:78, 82–83; A12:84, 86, 91
 freshwater flux, upwelling, A3:15

G

gadolinium, Paleocene/Eocene boundary, B16:3
 gamma-ray logs, vs. depth, A11:78–79, 81–84; A12:84, 86, 90
 gamma rays
 lithologic units, A8:20; A9:8–9, 13; A10:20; A11:31; A12:32; A13:28; A14:22; A15:15–16
 vs. depth, A8:42; A9:23–24, 32; A10:33–35, 45; A11:75; A12:81; A13:66; A14:47; A15:34, 38
 Gauss Chron, magnetic polarity, A8:11–12
 general circulation models, coupled, lower Paleogene, A3:1–30
 general circulation models, ocean circulation, B1:28
 geochemical cycles, organic carbon, B20:20
 geochemical profiles, Paleocene/Eocene boundary, A1:26
 geochemistry
 bulk marine sediments, A7:1–14
 ferromanganese micronodules, B14:1–20
 Site 1215, A8:15–18
 Site 1216, A9:10–12
 Site 1217, A10:16–18
 Site 1218, A11:25–27
 Site 1219, A12:25–28
 Site 1220, A13:21–24
 Site 1221, A14:18–20
 Site 1222, A15:12–13
 geochemistry, high-resolution inorganic, Paleocene/Eocene boundary, B16:1–12
 geochemistry, inorganic, hydrothermal sediments, B15:1–11
 geochronology, radiolarian biostratigraphy, B3:1–76
 glaciation, Eocene/Oligocene boundary, B1:12
 glacioeustatic sea-level changes, Eocene/Oligocene boundary, B1:14
 glass residue, smear slides, A6:15
 global coupled climate models, lower Paleogene, A3:1–30
Globocassidulina subglobosa, vs. depth, B8:10–11
Globoquadrina venezuelana, stable isotopes, B17:9
 greenhouse warming
 lower Cenozoic, B1:2–3
 Paleocene/Eocene boundary, A1:5

H

hafnium, Paleocene/Eocene boundary, B16:3
 heat flow, sediments, A11:31; A12:32; A13:28
 hiatuses
 burial at Paleocene/Eocene boundary, B23:5
 radiolarian bioevents, B3:17
 radiolarian biostratigraphy, A15:8
 holmium, Paleocene/Eocene boundary, B16:3
 hotspots, paleoproductivity, B1:10

I

icehouse effect, upper Cenozoic, B1:2–3
 illite
 light absorption spectroscopy, A5:5–6; A8:19; A9:13, 45; A10:19, 62; A11:29, 118–120; A12:30, 121–123; A13:26, 88–89; A14:21–22, 63; A15:14, 54

light absorption spectroscopy vs. ground-truth mineralogy, A5:18
 reflectance spectra, B11:9
 reflectance vs. wavelength, A5:13
 visible and near-infrared spectroscopy, B11:18
 vs. depth, A1:58; A8:39; A9:30; A10:43; A11:69; A12:75; A13:60; A14:45; A15:35; B24:15
 See also smectite–illite transition
 impact events, upper Eocene, A1:7
 impedance
 vs. corrected compressional wave velocity, B13:27
 vs. wet bulk density, B13:26
 inductively coupled plasma–atomic emission spectroscopy
 analytical data, A7:14
 bulk marine sediments, A7:1–14
 intercalibration, stratigraphy, A1:17–18
 Intertropical Convergence Zone
 climate models, A3:4–9
 middle Eocene radiolarians, B24:1–19
 iridium, Paleocene/Eocene boundary, B16:3
 iron
 bulk sediments, A8:17; A9:11; A10:17; A11:26; A12:27; A13:22–23; A14:19; B14:15
 ferromanganese micronodules, B14:4
 hydrothermal sediments, B15:3
 Paleocene/Eocene boundary, A1:84; A13:24; A14:20; B16:3
 sediments, B14:4
 vs. depth, A8:36; A9:27; A10:40; A11:65; A12:70; A13:54, 56; A14:39, 41; B15:5; B16:6
 vs. manganese in bulk sediments, B14:16
 vs. phosphorus in bulk sediments, B14:16
 vs. zinc in bulk sediments, B14:16
 See also aluminum/(aluminum + iron + manganese) ratio; manganese/iron ratio
 iron/titanium ratio, vs. aluminum/(aluminum + iron + manganese) ratio, B14:18
 iron manganese oxides, lithologic units; A13:9; A14:6
 iron oxide
 calibration by inductively coupled plasma–atomic emission spectroscopy, A7:10
 lithologic units, A10:6; A13:6–10; A15:4–6

J

Jaramillo Subchron, magnetic polarity, A8:11

K

K37:2m, organic biomarkers, B25:7
 K37:2m/K38:2 ratio, organic biomarkers, B25:8
 K38:2e, organic biomarkers, B25:7
 K38:2m, organic biomarkers, B25:7
 kaolinite, light absorption spectroscopy, A5:5–6
 ketones
 organic biomarkers, B25:1–11
 recovery, B25:11

L

laminations, folded, Paleocene/Eocene boundary, A14:8
 laminations, lithologic units, A13:9; A14:7–8; A15:6
 Land Surface Model, lower Paleogene, A3:3
 lanthanum
 hydrothermal sediments, B15:3
 Paleocene/Eocene boundary, B16:3
 vs. depth, B15:5; B16:6
 lead
 hydrothermal sediments, B15:3
 Paleocene/Eocene boundary, B16:3
 vs. depth, B15:6; B16:7
 light absorption spectroscopy
 instrumentation, A5:12
 lithologic units, A8:57
 mineralogy, A5:1–20
 lightness
 lithologic units, A12:11
 See also reflectance
 limestone porosity logs, correlation of Sites 1218 and 1219, B2:28
 lithium
 pore water, A8:16; A9:10; A10:16; A12:26; A14:18
 vs. depth, A1:66; A8:35; A9:26; A10:39; A11:64; A12:69; A13:53; A14:38; A15:30
 lithodensity logs, correlation of Sites 1218 and 1219, B2:28
 lithologic units
 light absorption spectroscopy, A8:57
 photograph, A12:46–49
 Site 1215, A8:5–6
 Site 1216, A9:5–6
 Site 1217, A10:6–8
 Site 1218, A11:7–10
 Site 1219, A12:8–13
 Site 1220, A13:6–10
 Site 1221, A14:6–9
 Site 1222, A15:4–7
 Unit I, A8:5; A9:5–6; A10:6; A11:7; A12:8; A13:6; A14:6; A15:4–5
 Unit II, A8:5–6; A10:7–8; A11:7–8; A12:8–9; A13:6–7; A14:6; A15:5
 Unit III, A8:6; A10:8; A11:8–9; A12:9–11; A13:7; A14:6–7; A15:5
 Unit IV, A8:6; A10:8; A11:9–10; A12:11; A13:7–8; A14:7–8; A15:6
 Unit V, A11:10; A12:11; A13:8–9; A14:9; A15:6
 Unit VI, A13:9
 vs. age, A12:52
 vs. depth, A12:52
 lithology
 diatoms, A1:60
 Paleogene, A1:9
 summary, A1:57; A8:24; A9:18; A10:24; A11:42–43; A12:44–45; A13:34–35; A14:27; A15:20; B1:29; B14:10
 lithostratigraphy
 Site 1215, A8:4–6
 Site 1216, A9:4–6
 Site 1217, A10:6–8

Site 1218, A11:7–10

Site 1219, A12:7–13

Site 1220, A13:6–10

Site 1221, A14:5–9

Site 1222, A15:4–7

logging Unit 1, lithologic units, A11:34; A12:36

logging Unit 2, lithologic units, A11:34–35; A12:36–37

logging Unit 3, lithologic units, A11:35; A12:37

lutetium, Paleocene/Eocene boundary, B16:3

M

magnesium

 bulk sediments, A8:17; A9:11; A10:18; A11:26–27; A14:19

 ferromanganese micronodules, B14:4

 hydrothermal sediments, B15:3

 Paleocene/Eocene boundary, A1:84; A13:23; B16:3

 pore water, A8:16; A9:10; A10:16–17; A11:26; A12:26; A13:22; A14:18; A15:12

 velocity and density, B13:6

 vs. depth, A8:35–36; A9:26–27; A10:39–40; A11:64–65; A12:69–70; A13:53–54, 56; A14:38–39, 41; A15:30; B15:5; B16:6

magnesium/calcium ratio

 Eocene, B1:17

 Eocene/Oligocene boundary, B1:12

 Oligocene, B1:11

magnetic declination

 magnetic polarity, A8:11–12

 orientation, A9:7; A10:12–13; A11:20

 vs. depth, A11:53

magnetic declination, uncorrected vs. corrected, sediments, A8:28; A9:21

magnetic fraction

 binocular microscopic photograph, B14:11

 geochemistry, B14:3–4

 scanning electron microscopy, B14:12

magnetic inclination

 discrete samples, A12:21–22

 orientation, A8:11

 vs. depth, A11:53

magnetic intensity

 lithologic units, A14:15

 vs. depth, A8:27; A9:20; A10:30; A11:51; A12:56; A13:42; A14:32; A15:23

magnetic polarity

 correlation of Sites 1218–1219, B2:26

 magnetostratigraphy, A8:11–12; A9:7–8; A10:13; A11:21; A12:22; A13:18; A14:15; B2:15–25

magnetic reversals

 composite depths, A10:50; A11:101; A13:75

 magnetostratigraphy, A1:38, 41; A11:24; A12:4; A13:3

 sedimentation rates, A8:14–15; A10:15; A11:24

magnetic susceptibility

 correlation of Sites 1218–1219, B2:26

 lithologic units, A8:12–13, 20; A9:14; A10:20; A11:22, 31; A12:32–33; A13:19, 28–29; A14:16, 23; A15:10, 16; B2:5, 15–19, 33–34

 vs. age, A1:76

- vs. depth, A8:31, 33, 42; A9:23–24, 33; A10:33–35, 46; A11:57–59, 76; A12:62, 64–65, 73, 82; A13:46–48, 58, 67; A14:34, 43, 48; A15:25–26, 39; B3:58–59; B24:15
- magnetic susceptibility, bulk, discrete samples, A9:7
- magnetostratigraphy
- correlation of Sites 1218–1219, B2:26, 36–38
 - integration, B2:6–7
 - magnetic polarity, A8:11–12; A9:7–8; A10:13; A11:21; A12:22; A13:18; A14:15; B2:15–25
 - magnetic reversals, A11:24
 - Paleogene, B1:6
 - radiolarian biostratigraphy, B3:1–76
 - sedimentation rates, A10:15
 - synthesis, A1:73
 - vs. age, A1:76
 - vs. depth, A8:30; A9:22; A10:32; A11:53–55; A12:58–60; A13:43–44; A14:33; A15:24
- manganese
- bulk sediments, A8:17; A9:11; A10:17–18; A11:26; A12:27; A13:22–23; A14:19; B14:15; B22:23
 - ferromanganese micronodules, B14:4
 - hydrothermal sediments, B15:3
 - Paleocene/Eocene boundary, A1:85; B1:18; B16:3
 - pore water, A8:16; A9:10; A10:16; A11:25; A12:26; A13:22; A14:18; A15:12
 - productivity, B22:10–11
 - sediments, B14:4
 - vs. aluminum in bulk sediments, B14:16
 - vs. barium in bulk sediments, B14:16
 - vs. cerium in bulk sediments, B14:16
 - vs. cobalt in bulk sediments, B14:16
 - vs. depth, A8:35–36; A9:26–27; A10:39–40; A11:64–65; A12:69–70; A13:54, 36; A14:38–39, 41; A15:30; B15:5; B16:6; B22:18
 - vs. iron in bulk sediments, B14:16
 - vs. neodymium in bulk sediments, B14:16
 - vs. phosphorus in bulk sediments, B14:16
 - vs. zinc in bulk sediments, B14:16
 - See also* aluminum/(aluminum + iron + manganese) ratio; copper/manganese ratio; iron manganese oxides; nickel/manganese ratio
- manganese, shipboard, sediments, B22:22
- manganese/aluminum ratio, bulk sediments, B14:4, 15
- manganese/iron ratio
- bulk sediments, B14:4, 15
 - ferromanganese micronodules, B14:4
- manganese oxides, lithologic units, A11:8
- mass accumulation rates
- diatoms, B24:9
 - Eocene, B20:13–17
 - Eocene organic carbon, B20:11–12
 - latitudinal transects, A1:15–17
 - lithologic units, A8:52; A9:40; A10:15–16, 56; A13:21; A14:17–18
 - porosity, A15:11
 - Site 1215, A8:13–15
 - Site 1216, A9:9
 - Site 1217, A10:14–16
 - Site 1218, A11:23–25
 - Site 1219, A12:24–25
 - Site 1220, A13:20–21
 - Site 1221, A14:17–18
 - Site 1222, A15:11–12
 - vs. age, A11:63; A13:52; A14:37; A15:29
 - See also* sedimentation rates
- mass accumulation rates, aluminum, vs. age, A1:69
- mass accumulation rates, Bio-barium, vs. paleolatitude, B20:29
- mass accumulation rates, biogenic component
- Eocene sediments, B21:8–16
 - paleoproductivity, B1:9–10
 - vs. age, B20:28
- mass accumulation rates, biogenic silica, vs. age, B21:24
- mass accumulation rates, bulk
- vs. age, A12:68
 - vs. productivity, B1:33
- mass accumulation rates, calcium
- vs. age, A1:67; A7:13
 - vs. paleolatitude, A1:72
- mass accumulation rates, calcium carbonate
- vs. age, B21:24–25, 29
 - vs. rain-preserved calcium carbonate, B21:26
- mass accumulation rates, organic carbon, vs. age, B21:24
- mass accumulation rates, phosphorus, vs. age, A1:69
- mass accumulation rates, silica, middle Eocene, B24:6
- mass accumulation rates, silicon
- vs. age, A1:67; A7:13
 - vs. paleolatitude, A1:71
- mass accumulation rates, titanium, vs. age, A7:13
- metabolism, remineralization, B20:17–19
- metals, sediments, B14:5
- micronodules, diagenesis, B22:8
- micronodules, ferromanganese
- chemical composition, B14:1–20
 - maximum size, B14:11
 - origin, B14:5
 - scanning electron microscopy, B14:13
- Milankovitch cycles
- lower Eocene ooze, A8:6
 - Oligocene stable isotope stratigraphy, B17:4
- mineral standards, light absorption spectroscopy, A5:4–5
- mineralogy, ground-truth, compared with visible and near-infrared spectroscopy, B11:10
- mineralogy, high-resolution, reflectance spectroscopy and physical properties, B11:1–23
- mineralogy, light absorption spectroscopy, A5:1–20
- mineralogy, light absorption spectroscopy vs. ground-truth mineralogy, A5:19
- Miocene
- benthic foraminifers, A12:19
 - foraminiferal biostratigraphy, A12:16
 - lithologic units, A8:5; A9:5–6; A10:6–7; A11:7–8; A12:8–9; A15:4
 - magnetostratigraphy, A12:59
 - magnetostratigraphy synthesis, A1:73
 - nannofossil biostratigraphy, A11:11–12; A12:13–14
 - radiolarian bioevents, B3:15
 - radiolarian ooze, A6:1–21
 - radiolarians, A12:19–20
 - sedimentation rates, A12:24
 - silicoflagellates, B9:1–29

zeolitic clay, A15:6
See also Eocene–Miocene interval; Oligocene/Miocene boundary; Oligocene–Miocene transition
Miocene, lower
 diatom biostratigraphy, B6:1–25
 foraminiferal biostratigraphy, A11:14–18; A12:16–17
 lithologic units, A13:6
 nannofossil biostratigraphy, A13:11
 nannofossil ooze/chalk, A1:10
 radiolarian biostratigraphy, A13:16
 radiolarians, B1:7
 See also Oligocene–lower Miocene interval
Miocene, middle, radiolarian biostratigraphy, A11:18–19
Miocene, upper, radiolarian biostratigraphy, A11:18–19
molybdenum
 hydrothermal sediments, B15:3
 Paleocene/Eocene boundary, B16:3
 vs. depth, B15:5; B16:6
montmorillonite, reflectance vs. wavelength, A5:13
mottling, lithologic units, A10:6; A11:9; A12:8–11;
 A13:6–10; A14:6–8; A15:4–6

N

nannofossil datums
 biostratigraphy, A14:51
 sedimentation rates, A10:14–15
 Site 1215, A8:44
 vs. depth, A11:91; A12:97; A13:70
nannofossils
 events, A8:51; A10:55; A11:106; A12:111; A13:80;
 A14:57; A15:49
 lithologic units, A13:9
 lower Miocene–upper Oligocene events, A11:12–13
 Paleocene/Eocene boundary, A1:25–26
 sedimentation rates, A12:24
nannofossils, calcareous
 biostratigraphy, A8:7–8; A10:9–10; A11:11–14;
 A12:13–16; A13:10–13; A14:10–12; A15:7–8;
 B2:39–40
 distribution, A11:49
 Paleogene biostratigraphy, B1:7–8
nassellarian/spumellarian ratio
 cores, B24:17
 vs. diatoms, B24:18
 Zone RP15, B24:7–8
nassellarians
 vs. depth, B24:15
 Zone RP15, B24:7–8
neodymium
 bulk sediments, B14:4
 Paleocene/Eocene boundary, B16:3
 vs. manganese in bulk sediments, B14:16
 vs. phosphorus in bulk sediments, B14:16
Neogene
 lithologic units, A14:6; A15:4
 radiolarian bioevents, B3:13–17
 seismic horizons, A4:19
nickel
 ferromanganese micromnodules, B14:4–6
 Paleocene/Eocene boundary, B16:3

 vs. depth, B15:6; B16:6
nickel/manganese ratio, bulk sediments, B14:4, 15
niobium
 hydrothermal sediments, B15:3
 Paleocene/Eocene boundary, B16:3
 vs. depth, B15:5; B16:6
nodules, chert, lithologic units, A10:6; A11:8
nodules, manganese
 lithologic units, A10:6; A11:7
 photograph, A11:44
normative opal analysis technique, comparison with so-
 dium carbonate treatment of radiolarian ooze,
 A6:6–8
North Equatorial Counter Current, radiolarian bio-
 events, B3:17
North Equatorial Current, radiolarian bioevents, B3:17
nutrients
 productivity, B22:9
 recycling, B20:1–33
Nuttallides umbonifer
 Oligocene, B8:3–4
 vs. depth, B8:10–12

O

obliquity, carbon cycle, B1:12
ocean-atmosphere climate models, lower Paleogene,
 A3:1–30
ocean basins, Paleogene, B1:3–4
ocean circulation
 climate models, A3:5–9
 general circulation models, B1:28
 models, A1:4
 Paleogene, B1:4
ocean currents, climate models, A3:5–9
Olduvai Subchron, magnetic polarity, A8:11–12
Oligocene
 benthic foraminifer biostratigraphy, B8:1–26
 benthic foraminifers, A12:19
 biostratigraphy, B1:7–8
 diatom biostratigraphy, B6:1–25
 foraminiferal biostratigraphy, A11:14–18
 lithologic units, A8:5; A9:5–6; A10:6–7; A11:8; A12:8–
 9; A13:6–7; A15:4–5
 magnetostratigraphy, A10:13; A11:21
 magnetostratigraphy synthesis, A1:73
 nannofossil biostratigraphy, A11:13; A12:14–16;
 A13:11
 nannofossil ooze/chalk, A1:10
 Nuttallides umbonifer, B8:3–4
 organic biomarkers, B25:1–11
 paleoceanography, A1:7, 19–20; B17:1–12
 paleoclimatology, B1:10–12
 radiolarian bioevents, B3:15
 radiolarian biostratigraphy, A13:16–17
 sedimentation rates, A12:24
 seismic reflections, A4:5
 silicoflagellates, B9:1–29
See also Eocene/Oligocene boundary; Eocene–Oli-
 gocene transition

- Oligocene, lower
 benthic foraminifers, A14:12
 core photograph, A12:51
 lithologic units, A14:6
 magnetostratigraphy, A12:59–60
 nannofossil biostratigraphy, A14:10–12
 nannofossil ooze, A1:32; A10:3–4
 radiolarians, B5:1–74
- Oligocene, upper
 foraminiferal biostratigraphy, A12:17
 paleoequator position, A1:64
 radiolarians, B1:7; B4:1–13
- Oligocene–lower Miocene interval, magnetostratigraphy vs. depth, A11:55
- Oligocene–Miocene transition
 biostratigraphy, A1:34, 38; A11:4; A12:4–5
 digital photograph, A1:75
- Oligocene/Miocene boundary
 benthic foraminifers, B8:3
 foraminiferal biostratigraphy, A12:17
 high-resolution benthic foraminiferal stratigraphy, B19:1–13
 lithologic units, A12:12
 nannofossil biostratigraphy, A11:12–13; A12:14
 oxygen isotope events, B1:11
 paleoclimatology, A1:18–19
 radiolarians, A12:19–20
 stable isotopes, B19:1–13
- ooze, calcareous, lower Eocene, A1:29
- ooze, clayey nannofossil, lithologic units, A8:5–6
- ooze, clayey radiolarian, lithologic units, A10:7; A13:7
- ooze, clayey radiolarian nannofossil, lithologic units, A11:8
- ooze, diatom, lithologic units, A12:10; A14:6; A15:4–5
- ooze, foraminifer-nannofossil, preservation, B18:3–4
- ooze, laminated diatom, photography, A15:21
- ooze, metalliferous oxide, lithologic units, A8:6
- ooze, nannofossil
 hydraulic rebound, B12:3
 lithologic units, A10:6; A11:7–8; A12:8–9; A13:6–10; A14:6; A15:5
 lower Eocene–upper Paleocene, A1:11–12
 lower Oligocene, A1:32; A10:3–4
 mechanical/porosity rebound, B12:3–5
 Oligocene–lower Miocene, A1:10
 reflectance spectra, B11:9
- ooze, nannofossil diatom, lithologic units, A13:7
- ooze, nannofossil radiolarian, lithologic units, A13:6–8
- ooze, radiolarian
 Eocene, A1:22–24
 lithologic units, A10:7; A12:8–11; A13:6; A14:6–7
 lower–lower middle Eocene, A1:11
 middle Eocene, A1:32; A10:4
 middle–upper Eocene, A1:10–11
 missing section, A1:30; A9:3
 Paleogene, A1:9–10
 rebound, B12:5
 reflectance spectra, B11:9
 reflectance vs. wavelength, A5:17
- ooze, seismic reflections, A4:4–5
- opal
 burial at Paleocene/Eocene boundary, B23:2–5
 light absorption spectroscopy, A5:5; A10:19, 62; A11:29, 118–120; A12:30, 121–123; A13:26, 88–89; A14:21–22, 63; A15:14, 54
 light absorption spectroscopy vs. chemical analysis, A5:14
 light absorption spectroscopy vs. ground-truth mineralogy, A5:18
 reflectance vs. wavelength, A5:13
 sediments, B23:10–12
 visible and near-infrared spectroscopy, B11:11–17
 vs. depth, A10:43; A11:69; A12:75; A13:60; A14:45; A15:35; B23:8–9; B24:15
- opal, biogenic
 pelagic marine sediments, A6:1–21
 sediments, B21:30–31
- opal/silica ratio
 light absorption spectroscopy, A9:13, 45
 vs. depth, A9:30
- opal-A, radiolarian ooze reflectance vs. wavelength, A5:17
- opal-A/opal-CT transition, light absorption spectroscopy, A5:6–7
- opal-CT, radiolarian ooze reflectance vs. wavelength, A5:17
- orbital insolation, cyclostratigraphy, B1:8
- organic biomarkers, Eocene–Oligocene interval, B25:1–11
- organic matter
 degradation, A14:18
 organic biomarkers, B25:1–11
- Oridorsalis umbonatus*
 photomicrograph, A11:50
 vs. depth, B8:10, 11
- osmium, Paleocene/Eocene boundary, B16:3
- oxygen, pore water, B20:13–14
- oxygen isotope event Oi-1, paleoclimatology, B1:2–3
- oxygen isotopes
 benthic foraminiferal timescale, B18:10
 benthic foraminifers, B21:29
 carbonate compensation depth, B21:12–13
 Eocene/Oligocene boundary, B1:13
 fine fraction, B17:8
 Oligocene, B1:11
 Oligocene/Miocene boundary, B19:1–13
 Oligocene paleoceanography, B17:3
 Paleocene/Eocene boundary, B18:1–12
 sediments, B21:31
 vs. age, B21:28
 vs. depth, B17:6; B18:8–9
- oxygen isotopes, benthic, vs. age, A1:56
- oxygenation
 sediments, B22:8
 See also redox
- P**
- Pacific Ocean N equatorial
 early Cenozoic evolution, B1:1–39
 Eocene biogenic sedimentation, B21:1–35
 Eocene organic carbon and barium, B20:1–33
 hole summary, A1:86

- mineralogy, A5:1–20
- paleoclimatology, A3:1–30
- Paleogene Equatorial Transect, A1:1–87
- Paleogene seismic stratigraphy, A4:1–21
- Pacific plate, Paleogene Equatorial Transect, A1:1–87
- paleoceanography
 - Eocene–Oligocene transition, A1:20–22
 - lower Paleogene, A1:4–5
 - Oligocene, A1:7, 19–20; B17:1–12
 - organic biomarkers, B25:1–11
 - paleoclimatology, B1:2–3
 - Paleogene, B1:1–39
 - radiolarians, B24:8–10
- Paleocene
 - Abysamina quadrata*, A8:26
 - benthic foraminifers, B7:1–34
 - foraminiferal biostratigraphy, A8:9–10
 - lithologic units, A13:8–9
- Paleocene, upper
 - lithologic units, A8:5–6; A10:8; A14:7–9
 - nannofossil biostratigraphy, A8:7; A14:11–12
 - nannofossil ooze/chalk, A1:11–12
- Paleocene/Eocene boundary
 - benthic foraminifers, A13:16, 41; B7:4
 - biogenic burial, B23:1–12
 - biostratigraphy, A10:9–10; B1:7–8, 18–19
 - bulk geochemistry, A13:23–24
 - composite photograph, A13:36–37, 40; B1:37
 - digital photograph, A1:81–82
 - digital photograph of geochemistry, A1:84
 - foraminiferal biostratigraphy, A12:18; A14:13
 - geochemical profiles, A1:26
 - geochemistry, A14:19–20
 - high-resolution inorganic geochemistry, B16:1–12
 - lithologic units, A8:5–6; A13:8–9; A14:8
 - lithology, A1:29; A8:3
 - nannofossil biostratigraphy, A13:12; A14:11
 - paleoclimatology, A1:5
 - phosphorus and barite geochemistry, B22:1–23
 - photograph, A14:28–29
 - stable isotopes, B18:1–12
 - stratigraphy, A1:24–26, 41–44; A13:3–4; A14:3–4
- Paleocene/Eocene boundary Benthic Extinction Event
 - benthic foraminiferal stratigraphy, B6:10
 - nannofossil biostratigraphy, A13:12; A14:11
- Paleocene–Eocene Thermal Maximum, sediments, B22:11
- Paleocene–Eocene transition, nannofossil biostratigraphy, A14:10–11
- paleoclimatology
 - Cenozoic, B1:2–3
 - Eocene, B20:19–20
 - light absorption spectroscopy, A5:1–20
 - lower Eocene, A1:55
 - lower Paleogene, A1:3–4; A3:1–30
 - middle Eocene, B24:8–10
 - Oligocene, B1:10–12
 - Oligocene/Miocene boundary, A1:18–19
 - Oligocene stable isotope stratigraphy, B17:4
- paleodepth
 - correlation of Sites 1218 and 1219, B2:27, 35, 41
- foraminiferal biostratigraphy, A9:6–7
- vs. age, A1:63
- vs. geologic age, B1:36
- paleoecology, radiolarians, B24:8–10
- paleoequator
 - middle Eocene and upper Oligocene position, A1:64
 - radiolarian bioevents, B3:17
- paleoequator, paleoproductivity, B1:9–10
- Paleogene
 - biostratigraphy, B1:6–8
 - carbonate compensation depth, A1:12–13
 - cyclostratigraphy, B1:8
 - ebriidians, B10:1–9
 - lithology, A1:9
 - ocean basins, B1:3–4
 - paleoceanography, B1:1–39
 - radiolarian bioevents, B3:13–17
 - sediment velocity and density, B13:1–31
 - seismic horizons, A4:19
 - seismic stratigraphy, A4:1–21; B1:8–9
 - silicoflagellates, B9:1–29
 - stratigraphy, B1:5–9
- Paleogene, lower, paleoclimatology, A1:3–4; A3:1–30
- Paleogene Equatorial Transect
 - operation, A1:26–28
 - summary, A1:1–87
- paleolatitude
 - demagnetization, A11:20–21
 - Eocene, A1:23
 - paleomagnetism, A1:65
 - vs. age, A1:65, 76
 - vs. Bio-barium mass accumulation rates, B20:29
 - vs. calcium mass accumulation rates, A1:72
 - vs. silicon mass accumulation rates, A1:71
- paleolatitude vs. age, smectite–illite transition, A1:59
- paleomagnetism
 - comparison with shipboard virtual geomagnetic pole latitude, B1:31
 - events, A8:50; A9:38; A10:54; A11:105; A12:110; A13:79; A14:56; A15:48
 - Site 1215, A8:10–12
 - Site 1216, A9:7–8
 - Site 1217, A10:12–13
 - Site 1218, A11:19–21
 - Site 1219, A12:21–22
 - Site 1220, A13:18
 - Site 1221, A14:15
 - Site 1222, A15:9–10
- paleopositions
 - Eocene, B21:4–5
 - paleoclimatology, A1:55
- paleoproductivity
 - carbon burial, B1:17–18
 - Paleogene, A1:14–17
 - plate movement, B1:9–10
 - See also* productivity
- palladium, Paleocene/Eocene boundary, B16:3
- pebbles
 - lithologic units, A8:6; A10:7
 - photograph, A10:26

pH, pore water, A8:15; A9:10; A10:16; A11:25; A12:25; A13:21; A14:18
phosphate, pore water, A8:16
phosphorus
 bulk sediments, A8:17; A9:11; A10:18; A11:27; A12:27; A13:23
 hydrothermal sediments, B15:3
 Paleocene/Eocene boundary, A1:85; A13:24; A14:20; B16:3; B22:1–23
 vs. age, A1:69
 vs. calcium in bulk sediments, B14:16
 vs. depth, A8:36; A9:27; A10:40; A11:65; A12:70; A13:54, 56; A14:39, 41; B15:6; B16:7; B22:16
 vs. iron in bulk sediments, B14:16
 vs. manganese in bulk sediments, B14:16
 vs. neodymium in bulk sediments, B14:16
 See also barium/phosphorus ratio
phosphorus, calcium carbonate-free detrital, vs. depth, B22:19
phosphorus, calcium carbonate-free reactive, vs. depth, B22:19
phosphorus, detrital, vs. depth, B22:18, 23
phosphorus, reactive, vs. depth, B22:18, 23
phosphorus, shipboard, sediments, B22:22
photoelectric effect logs, vs. depth, A12:90
physical properties
 correlation, A1:38; A12:4
 high-resolution mineralogy, B11:1–23
 Site 1215, A8:18–20
 Site 1216, A9:12–14
 Site 1217, A10:18–20
 Site 1218, A11:27–31
 Site 1219, A12:28–33
 Site 1220, A13:24–29
 Site 1221, A14:20–23
 Site 1222, A15:13–16
physical properties, continuous-core, conversion into mineralogy logs, B11:5–6
physical properties, core, correction, B12:1–21
plagioclase, lithologic units, A10:7–8
plate movement, paleoproductivity, B1:9–10
plate tectonics, biogenic sedimentation, A1:2–3
platinum
 Paleocene/Eocene boundary, B16:3
 vs. depth, B16:7
Pleistocene, magnetostratigraphy, A11:21
Pliocene, lithologic units, A8:5; A9:5–6; A10:6–7; A11:7; A12:8; A15:4
porcellanite, lithologic units, A12:12
pore water
 diagenesis, A1:14–15
 geochemistry, A1:66; A8:15–16, 53; A9:10–11, 41; A10:16–17, 57; A11:25–26, 110; A12:25–26, 115; A13:21–22, 83; A14:59; A15:51
porosity
 lithologic units, A8:18; A9:12; A10:19; A11:27–29; A12:28–30; A13:24–25; A14:20–21; A15:13–14
 logging units, A12:38
 sedimentation rates, A15:11
 vs. depth, A8:37; A9:28; A10:41; A11:67; A12:72; A13:57; A14:42; A15:32

 vs. thermal conductivity, A11:73; A12:79; A13:64
 vs. wet bulk density, B13:15
porosity logs
 correlation of Sites 1218 and 1219, B2:28
 vs. depth, A11:81–83; A12:86, 92
 See also limestone porosity logs
potassium
 ferromanganese micronodules, B14:4
 hydrothermal sediments, B15:3
 Paleocene/Eocene boundary, B16:3
 pore water, A8:16; A10:17; A11:26; A13:22; A14:18; A15:12
 vs. depth, A1:66; A8:35; A9:26; A10:39; A11:64; A12:69; A13:53; A14:38; A15:30; B15:5; B16:6
potassium hydroxide, radiolarian ooze treatment, A6:1–21
potassium logs, vs. depth, A11:79; A12:90
praseodymium, Paleocene/Eocene boundary, B16:3
preservation
 Abyssamina quadrata, A8:26
 carbonates, B18:3–4
 radiolarians, B24:5
pressure, vs. density rebound, B13:23
productivity
 burial at Paleocene/Eocene boundary, B23:5
 chlorophyll, A1:53
 Eocene, B20:13–17
 nutrients, B22:9
 Paleogene Equatorial Transect, A1:2
 reconciliation of differing signals, B22:10–11
 vs. bulk mass accumulation rates, B1:33
 See also paleoproductivity
promethium, Paleocene/Eocene boundary, B16:3
Pseudoparrella exigua, vs. depth, B8:10, 11
pumice fragments, lithologic units, A11:8
pumice pebbles
 lithologic units, A10:7
 photograph, A10:26
pyroxene, lithologic units, A10:8

Q

Quaternary
 lithologic units, A8:5; A9:5–6; A10:6–7; A11:7; A12:8; A15:4
 radiolarian biostratigraphy, A15:8

R

radiolarian datums
 average age, B3:70
 correlation, B3:60–63
 distribution, A11:100; A12:106
radiolarian zonal boundaries, age, A14:31; A15:41–43, 44
radiolarian zones, published age, A1:74; B1:32
radiolarians
 biogenic sedimentology, B24:1–19
 biostratigraphic zones, A9:19; A10:29; B5:53
 biostratigraphy, A10:11–12; A11:18–19; A12:19–20; A13:16–18; A14:13–14; A15:8–9; B3:1–76; B5:52
 distribution, A9:35
 Eocene, A1:22–24

- event chronological list, B3:69
- events, A9:39; A10:55; A11:106; A12:111; A13:80;
A14:57; A15:49; B3:13–17; B5:6–7, 54–57
- first and last occurrences, A13:74
- lithologic units, A10:7; A11:7; A12:8–11; A13:6–10;
A14:6–8; A15:5
- lower Oligocene/upper Eocene, B5:1–74
- Paleogene biostratigraphy, B1:6–7
- range chart, B3:64–68
- relative abundance, B4:12–13
- sedimentation rates, A12:24
- upper Oligocene/lower Miocene, B4:1–13
- vs. depth, B24:15
- zonal boundaries, A14:52
- Zone RP15, B24:7
- See also* actinomids; artostrobids; diatom/radiolarian ratio; nassellarian/spumellarian ratio; nassellarians; spumellarians; theoperids
- radiolarite
 - lithologic units, A11:8–9; A12:11
 - middle–upper Eocene, A1:35; A11:5
 - sedimentology, B24:1–19
- rare earths
 - ferromanganese micronodules, B14:4
 - hydrothermal sediments, B15:3, 11
 - North American shale composite-normalized abundance in ferromanganese micronodules, B14:14, 17
 - Paleocene/Eocene boundary, B16:3
 - post-Archean Australian Shale-normalized patterns, B15:7–8; B16:8
 - sediments, B14:5
- reagent volume, vs. silica, A6:13
- rebound, hydraulic, nannofossil ooze, B12:3
- rebound, mechanical/porosity, nannofossil ooze, B12:3–5
- rebound coefficients
 - composite depths, B12:1–21
 - vs. void ratio, B12:15
- recycling, nutrients, B20:1–33
- red/blue spectral ratio
 - lithologic units, A12:12
 - vs. depth, A12:50
- redox, burial at Paleocene/Eocene boundary, B23:5
- reduction. *See* redox
- reflectance
 - correlation of Sites 1218–1219, B2:26
 - lithologic units, A8:12–13; A9:8; A10:14; A11:22; A12:12; A13:19; A15:10; B2:5, 15–25, 33–34
 - vs. age, A1:76
 - vs. depth, A8:31, 33; A9:23; A10:33–35; A11:59; A12:50, 63–64; A13:47; A14:34; A15:25–26; B24:15
 - See also* lightness
- reflectance spectra, calcite, B11:9
- remanent magnetization, characteristic
 - lithologic units, A8:12; A9:7; A10:13; A11:20–21; A12:21–22; A14:15; A15:9–10
 - stereoplots, A11:52
- remanent magnetization, natural, lithologic units, A9:7; A13:18; A14:15; A15:9–10
- remineralization, metabolism, B20:17–19
- resistivity logs
 - vs. depth, A11:81–83; A12:86
 - See also* deep resistivity logs; shallow resistivity logs
- rhenum
 - Paleocene/Eocene boundary, B16:3
 - vs. depth, B16:7
- S**
- salinity
 - climate models, A3:5–6, 17–28
 - pore water, A9:10; A10:16; A11:25; A12:25; A13:21; A14:18; A15:12
- samarium, Paleocene/Eocene boundary, B16:3
- scandium
 - hydrothermal sediments, B15:3
 - Paleocene/Eocene boundary, B16:3
 - vs. depth, B15:6; B16:7
- sea-level changes, Oligocene, B1:11
- sediment bulge, position and thickness, A1:54
- sediment flux, Paleogene, A1:14–17
- sediment lumps, photograph, A13:40
- sedimentation
 - equatorial position, A1:13–14
 - Paleogene Equatorial Transect, A1:2
- sedimentation, biogenic
 - cessation, A1:2–3
 - Eocene, B21:1–35
 - paleoproductivity, B1:9–10
- sedimentation rates
 - biostratigraphy, A8:14–15; A13:20; A14:17; A15:11
 - density, A11:24
 - Eocene, B20:13–17
 - magnetic reversals, A8:14–15; A11:24
 - magnetostratigraphy, A10:15
 - nannofossil datums, A10:14–15
 - paleopositions, B21:4–5
 - Site 1215, A8:13–15
 - Site 1216, A9:9
 - Site 1217, A10:14–16
 - Site 1218, A11:23–25
 - Site 1219, A12:24–25
 - Site 1220, A13:20–21
 - Site 1221, A14:17–18
 - Site 1222, A15:11–12
 - upper Eocene, B1:35
 - vs. age, A1:76
 - See also* mass accumulation rates
- sedimentation rates, average linear, vs. age, A1:68
- sedimentation rates, linear
 - lithologic units, A8:52; A9:9, 40; A10:56
 - middle Eocene, B24:6
- sedimentology, biogenic, radiolarians, B24:1–19
- sediments
 - barite and phosphorus, B22:1–23
 - depths, ages and fluxes, A11:107–109; A12:112–114; A13:81–82; A14:58; A15:50
 - Eocene, A1:39
 - geochemistry, A1:15
 - high-resolution mineralogy, B11:1–23
 - light absorption spectroscopy, A5:5
 - organic biomarkers, B25:1–11

- organic carbon and barium, B20:1–33
- oxygenation, B22:8
- velocity and density, B13:1–31
- sediments, basal, middle Eocene, A1:35–36; A11:5
- sediments, biogenic, age vs. latitude, A4:10
- sediments, bulk, geochemistry, A8:54; A9:42; A10:17–18, 58–59; A11:26–27, 111–113; A12:116–117; A13:22–23, 84–85; A14:60
- sediments, bulk marine, inductively coupled plasma–atomic emission spectroscopy, A7:1–14
- sediments, diatomaceous, sedimentology, B24:1–19
- sediments, hydrothermal, inorganic geochemistry, B15:1–11
- sediments, pelagic marine, biogenic opal, A6:1–21
- Seismic Horizon P2, seismic reflections, A4:6
- Seismic Horizon P3, seismic reflections, A4:6
- Seismic Horizon P4, seismic reflections, A4:5–6
- Seismic Horizon P5, seismic reflections, A4:5
- Seismic Horizon Yellow, seismic reflections, A4:4–5
- seismic horizons
 - Paleogene–Neogene, A4:19
 - seismic character, A4:20
 - Site 1217, A4:17
 - Site 1219, A4:12
 - Site 1220, A4:13
 - Site 1221, A4:15
 - Site 1222, A4:18
 - Site PAT-13, A4:14
 - Site PAT-21, A4:16
 - Site PAT-23, A4:11
- seismic profiles
 - Site 1215, A8:23
 - Site 1216, A9:17
 - Site 1217, A10:23
 - Site 1218, A11:41
 - Site 1219, A12:43
 - Site 1220, A13:33
 - Site 1221, A14:26
 - Site 1222, A15:19
- seismic reflections, stratigraphy, A4:4–7
- seismic Reflector A^c, radiolarian bioevents, B3:17
- seismic stratigraphy, Paleogene, A4:1–21; B1:8–9
- seismograms, synthetic
 - compressional wave velocity, A11:36–37
 - velocity and density logs, A11:86; A12:39, 93–94
- selenium, Paleocene/Eocene boundary, B16:3
- shallow resistivity logs, vs. depth, A11:81–83; A12:86
- silica
 - pore water, A8:15–16; A9:10; A10:16; A11:25; A12:26; A13:21–22; A14:18; A15:12
 - vs. depth, A1:66; A8:35; A9:26; A10:39; A11:64; A12:69; A13:53; A14:38; A15:30
 - vs. reagent volume, A6:13
 - See also* opal/silica ratio
- silica, biogenic
 - amount extracted from Site EW9709-3PC, A6:19
 - burial at Paleocene/Eocene boundary, B23:2–5
 - constant burial, B22:9
 - Eocene sediments, B21:9–10
 - mass accumulation rates, B20:26
 - normative analysis vs. sodium carbonate treatment, A6:16
 - sediments, B23:10–12
 - sodium carbonate and potassium hydroxide treatment vs. normative analysis, A6:21
 - sodium carbonate vs. potassium hydroxide treatment, A6:20
 - vs. age, B21:23
 - vs. depth, B23:8–9; B24:15
 - silica, treated with potassium hydroxide, vs. silica treated with sodium carbonate, A6:14
 - silica, treated with sodium carbonate, vs. silica treated with potassium hydroxide, A6:14
 - silicates, iron oxyhydroxides coatings, B14:3–4
 - siliceous microfossils, biostratigraphy, A9:6
 - silicoflagellates
 - biostratigraphy, B10:1–9
 - Paleogene, B9:1–29
 - Paleogene biostratigraphy, B1:7–8
 - zonation, B9:3–6
 - silicon
 - bulk sediments, A8:17; A9:11; A10:17; A11:26; A12:26–27; A13:22; A14:19
 - ferromanganese micronodules, B14:4
 - hydrothermal sediments, B15:3
 - Paleocene/Eocene boundary, A1:84; A13:23; B16:3
 - vs. age, A1:67; A7:13
 - vs. depth, A8:36; A9:27; A10:40; A11:65; A12:70; A13:54, 56; A14:39, 41; B15:6; B16:7
 - silicon, inductively coupled plasma–atomic emission spectroscopy, vs. depth, A7:12
 - silicon/titanium ratio, vs. age, A1:70
 - simulation, climate models, A3:5–9
 - Site 162, carbonate content, A10:28
 - Site 166, radiolarian ooze reflectance vs. wavelength, A5:17
 - Site 1098, chemical analysis, A6:18
 - Site 1215, A8:1–60
 - background and objectives, A8:1–2
 - biostratigraphy, A8:6–10
 - composite depths, A8:12–13
 - core images, A8:32
 - coring summary, A8:43
 - correction of core physical properties, B12:1–21
 - geochemistry, A8:15–18
 - highlights, A8:2–3
 - inorganic geochemistry of hydrothermal sediments, B15:11
 - lithostratigraphy, A8:4–6
 - location, A8:22
 - operations, A8:3–4
 - Paleocene/Eocene benthic foraminifers, B7:1–34
 - paleomagnetism, A8:10–12
 - physical properties, A8:18–20
 - sedimentation and accumulation rates, A8:13–15
 - site description, A8:1–60
 - site summary, A1:28–29; A8:2
 - visible and near-infrared spectroscopy, B11:11
 - Site 1216, A9:1–48
 - background and objectives, A9:1–2
 - biostratigraphy, A9:6–7

- composite depths, A9:8–9
- coring summary, A9:34
- correction of core physical properties, B12:1–21
- ferromanganese micronodules, B14:1–20
- geochemistry, A9:10–12
- highlights, A9:3
- lithostratigraphy, A9:4–6; B14:10
- location, A9:16
- operations, A9:3–4
- paleomagnetism, A9:7–8
- physical properties, A9:12–14
- sedimentation and accumulation rates, A9:9
- site description, A9:1–48
- site summary, A1:29–30; A9:2–3
- Site 1217, A10:1–65
 - background and objectives, A10:1–2
 - biostratigraphy, A10:9–12
 - composite depths, A10:13–14
 - coring summary, A10:47–48
 - correction of core physical properties, B12:1–21
 - geochemistry, A10:16–18
 - highlights, A10:3–4
 - lithostratigraphy, A10:6–8
 - location, A10:22
 - operations, A10:4–5
 - paleomagnetism, A10:12–13
 - physical properties, A10:18–20
 - sedimentation and accumulation rates, A10:14–16
 - site description, A10:1–65
 - site summary, A1:30–32; A10:2–3
 - visible and near-infrared spectroscopy, B11:12
- Site 1218, A11:1–126
 - background and objectives, A11:1–2
 - biostratigraphy, A11:10–19
 - calibration by inductively coupled plasma–atomic emission spectroscopy, A7:10
 - composite depths, A11:21–23, 103; B2:29–31
 - composite section, A1:34; A11:3
 - core disturbance, A11:102
 - coring summary, A11:87–89
 - correction of core physical properties, B12:1–21
 - correlation with Site 1219, A12:4
 - downhole measurements, A11:32–37
 - Eocene carbonate compensation depth, B21:3
 - geochemistry, A11:25–27
 - highlights, A11:3–5
 - lithostratigraphy, A11:7–10
 - location, A11:40
 - lower Oligocene/lower Eocene radiolarians, B5:1–74
 - middle/upper Eocene boundary vs. gamma-ray attenuation bulk density, A1:61
 - Oligocene benthic foraminifers, B8:1–26
 - Oligocene/Miocene boundary high-resolution benthic foraminiferal stratigraphy, B19:1–13
 - Oligocene paleoceanography, B17:1–12
 - operations, A11:5–7
 - paleomagnetism, A11:19–21
 - physical properties, A11:27–31
 - radiolarian biostratigraphy, B3:1–76
 - sedimentation and accumulation rates, A11:23–25
 - silicoflagellates and ebridians, B10:1–9
 - site description, A11:1–126
 - site summary, A1:33–36; A11:2–3
 - stratigraphy, B2:1–41
 - upper Oligocene/lower Miocene radiolarians, B4:1–13
 - visible and near-infrared spectroscopy, B11:13
- Site 1219, A12:1–129
 - background and objectives, A12:1–2
 - biostratigraphy, A12:13–20
 - composite depths, A12:22–24, 108; B2:32
 - core disturbance, A12:107
 - coring summary, A12:95–96
 - correction of core physical properties, B12:1–21
 - correlation with Site 1218, A12:4
 - downhole measurements, A12:33–39
 - Eocene carbonate compensation depth, B21:4
 - geochemistry, A12:25–28
 - highlights, A12:4–5
 - lithostratigraphy, A12:7–13
 - location, A12:42
 - lower Oligocene/lower Eocene radiolarians, B5:1–74
 - Oligocene benthic foraminifers, B8:1–26
 - operations, A12:5–7
 - organic biomarkers, B25:1–11
 - paleomagnetism, A12:21–22
 - physical properties, A12:28–33
 - radiolarian biogenic sedimentology, B24:1–19
 - radiolarian biostratigraphy, B3:1–76
 - sedimentation and accumulation rates, A12:24–25
 - silicoflagellates, B9:1–29
 - site description, A12:1–129
 - site summary, A1:36–39; A12:2–4
 - stratigraphy, B2:1–41
 - upper Oligocene/lower Miocene radiolarians, B4:1–13
 - visible and near-infrared spectroscopy, B11:14
- Site 1220, A13:1–93
 - background and objectives, A13:1
 - biostratigraphy, A13:10–18
 - composite depths, A13:19–20, 77
 - coring summary, A13:68–69
 - correction of core physical properties, B12:1–21
 - diatom biostratigraphy, B6:1–25
 - Eocene carbonate compensation depth, B21:4
 - geochemistry, A13:21–24
 - highlights, A13:3–4
 - lithostratigraphy, A13:6–10
 - location, A13:32
 - lower Oligocene/lower Eocene radiolarians, B5:1–74
 - magnetic reversals, A14:31
 - operations, A13:4–6
 - Paleocene/Eocene benthic foraminifers, B7:1–34
 - Paleocene/Eocene boundary stable isotopes, B18:1–12
 - paleomagnetism, A13:18
 - physical properties, A13:24–29
 - radiolarian biostratigraphy, B3:1–76
 - sedimentation and accumulation rates, A13:20–21
 - silicoflagellates and ebridians, B10:1–9
 - site description, A13:1–93
 - site summary, A1:39–42; A13:2–3
 - visible and near-infrared spectroscopy, B11:15
- Site 1221, A14:1–66
 - background and objectives, A14:1

- biostratigraphy, A14:9–15
 calibration by inductively coupled plasma–atomic emission spectroscopy, A7:11
 composite depths, A14:16, 54
 core disturbance, A14:53
 coring summary, A14:49–50
 correction of core physical properties, B12:1–21
 geochemistry, A14:18–20
 high-resolution inorganic geochemistry, B16:1–12
 highlights, A14:3–4
 lithostratigraphy, A14:5–9
 location, A14:25
 operations, A14:4–5
 organic biomarkers, B25:1–11
 Paleocene/Eocene benthic foraminifers, B7:1–34
 Paleocene/Eocene boundary biogenic burial, B23:1–12
 Paleocene/Eocene boundary phosphorus and barite geochemistry, B22:1–23
 Paleocene/Eocene boundary stable isotopes, B18:1–12
 paleomagnetism, A14:15
 physical properties, A14:20–23
 sedimentation and accumulation rates, A14:17–18
 silicoflagellates and ebridians, B10:1–9
 site description, A14:1–66
 site summary, A1:42–44; A14:2–3
 visible and near-infrared spectroscopy, B11:16
 Site 1222, A15:1–57
 background and objectives, A15:1
 biostratigraphy, A15:7–9
 composite depths, A15:10, 46
 core disturbance, A15:45
 coring summary, A15:40
 correction of core physical properties, B12:1–21
 geochemistry, A15:12–13
 lithostratigraphy, A15:4–7
 location, A15:18
 operations, A15:3–4
 paleomagnetism, A15:9–10
 physical properties, A15:13–16
 sedimentation and accumulation rates, A15:11–12
 site description, A15:1–57
 site summary, A1:44–45; A15:2–3
 visible and near-infrared spectroscopy, B11:17
 smectite
 light absorption spectroscopy, A5:5–6; A8:19; A9:13, 45; A10:19, 62; A11:29, 118–120; A12:30, 121–123; A13:26, 88–89; A14:21–22, 63; A15:14, 54
 light absorption spectroscopy vs. ground-truth mineralogy, A5:18
 reflectance spectra, B11:9
 reflectance vs. wavelength, A5:13
 visible and near-infrared spectroscopy, B11:18
 vs. depth, A1:58; A8:39; A9:30; A10:43; A11:69; A12:75; A13:60; A14:45; A15:35; B24:15
 smectite–illite transition, paleolatitude vs. age, A1:59
 sodium
 hydrothermal sediments, B15:3
 pore water, A9:10; A13:21; A14:18; A15:12
 vs. depth, B15:5
 sodium carbonate, radiolarian ooze treatment, A6:1–21
 sodium carbonate digestion, smear slides, A6:11–12
 solid residue, smear slides, A6:17
 South Pacific Convergence Zone, climate models, A3:5
 spectra, light absorption spectroscopy, A5:20
 spectroscopy. *See also* inductively coupled plasma–atomic emission spectroscopy; light absorption spectroscopy; visible and near-infrared spectroscopy
 spectroscopy, reflectance, high-resolution mineralogy, B11:1–23
 splice tie points
 depth corrections, B12:20
 Site 1215, A8:49
 Site 1217, A10:53
 Site 1218, A11:104
 Site 1219, A12:109
 Site 1220, A13:78
 Site 1221, A14:55
 Site 1222, A15:47
 spumellarians
 vs. depth, B24:15
 Zone RP15, B24:7–8
 stable isotope stratigraphy, Oligocene, B17:3–4
 stable isotopes
 benthic foraminifers, B21:29
 Eocene–Oligocene transition, A1:6
 fine fraction, B17:3–4, 11–12
 Oligocene/Miocene boundary, B19:1–13
 Oligocene paleoceanography, B17:1–12
 Paleocene/Eocene boundary, B1:19
 stable isotopes, high-resolution, Paleocene/Eocene boundary, B18:1–12
 stratigraphy
 correlation, B2:1–41
 intercalibration, A1:17–18
 Paleogene, B1:5–9
 straw man model, climate models, A3:1–30
 streamlines, climate models, A3:17–19, 24–26
 stress, effective, vs. void ratio, B12:14
 strontium
 bulk sediments, A9:11; A10:18; A11:26; A12:27; A13:23; A14:19
 hydrothermal sediments, B15:3
 Paleocene/Eocene boundary, A1:85; A13:23; A14:20; B16:3
 pore water, A8:16; A9:10; A10:16; A11:25; A12:26; A13:22; A14:18; A15:12
 vs. depth, A1:66; A8:35–36; A9:26–27; A10:39–40; A11:64–65; A12:69–70; A13:53–54, 56; A14:38–39, 41; A15:30; B15:6; B16:7
 subsidence
 history, A1:63
 paleodepth, B1:36
 sulfate
 pore water, A8:16; A9:10; A10:16; A11:25; A12:25; A14:18
 vs. depth, A1:66; A8:35; A9:26; A10:39; A11:64; A12:69; A13:53; A14:38; A15:30
T
 tectonics, seismic reflections, A4:6–7

temperature
 climate models, A3:5–9, 17–30
 remineralization, B20:17–19
 sediments, A8:19; A11:30–31; A12:32; A13:27–28
 vs. depth, A11:74; A12:80; A13:65
temperature, in situ, lithologic units, A11:124; A12:127;
 A13:92
terbium, Paleocene/Eocene boundary, B16:3
terrigenous component
 light absorption spectroscopy, A5:5
 visible and near-infrared spectroscopy, B11:11–17
theoperids
 percentage in Zone RP15, B24:19
 Zone RP15, B24:7
thermal conductivity
 lithologic units, A8:19, 59; A9:13, 47; A10:20, 64;
 A11:30–31, 123; A12:32, 126; A13:27–28, 91;
 A14:22, 65; A15:15, 56
 vs. depth, A8:41; A11:72; A12:78; A13:63; A15:37
 vs. porosity, A11:73; A12:79; A13:64
thermal maximum. *See* Paleocene–Eocene Thermal Maximum
thermal resistance, vs. depth, A11:74; A12:80; A13:65
thermocline, upwelling, A3:14, 20–21
thorium logs, vs. depth, A11:79; A12:90
thulium, Paleocene/Eocene boundary, B16:3
timescales, Paleocene/Eocene boundary, B18:4
tin, Paleocene/Eocene boundary, B16:3
titanium
 bulk sediments, A8:17; A9:11; A10:17; A11:26;
 A12:26–27; A13:22; A14:19
 ferromanganese micronodules, B14:4
 hydrothermal sediments, B15:3
 Paleocene/Eocene boundary, A1:84; A13:24; B16:3
 velocity and density, B13:6
 vs. age, A7:13
 vs. depth, A8:36; A9:27; A10:40; A11:65; A12:70;
 A13:54, 56; A14:39, 41; B15:6; B16:7
 See also aluminum/titanium ratio; barium/titanium
 ratio; iron/titanium ratio; silicon/titanium ratio
trace elements
 correlation analysis, B15:10; B16:12
 hydrothermal sediments, B15:3
 inductively coupled plasma–mass spectroscopy data,
 B16:11
 inductively coupled plasma–optical emission spec-
 trometer data, B16:9–10
 Paleocene/Eocene boundary, B16:3
transitional intervals, photograph, A12:46–49
tropical environment, radiolarians, B24:8–10

U

unconformities
 seismic reflections, A4:5
 See also hiatuses
unzoned interval, Site 1219, B9:4–5
upwelling
 Paleogene Equatorial Transect, A1:2
 thermocline, A3:14, 19–20
uranium logs, vs. depth, A11:79; A12:90

V

vanadium
 bulk sediments, B14:4, 15
 hydrothermal sediments, B15:3
 Paleocene/Eocene boundary, B16:3
 vs. depth, B15:6; B16:7
Velasco-type assemblages, benthic foraminifers, A8:9
velocity
 boreholes, B13:6–7
 climate models, A3:29–30
 in situ properties, B13:7–9
 See also compressional wave velocity
velocity, splice-core, lithologic units, A8:58
velocity logs, vs. depth, A11:81–83; A12:85–86
virtual geomagnetic poles, magnetostratigraphy, A10:32;
 A11:54–55; A12:58–60; A13:18, 43–44; A14:33;
 A15:24
visible and near-infrared spectroscopy, high-resolution
 mineralogy, B11:1–23
VNIS. *See* visible and near-infrared spectroscopy
void ratio
 vs. effective stress, B12:14
 vs. rebound coefficients, B12:15
voids, lithologic units, A10:7
volcanic ash
 lithologic units, A10:6–7
 photograph, A10:25
volcanic glass, lithologic units, A14:6

W

washed samples, digital photograph, A1:82
water content
 lithologic units, A8:56; A9:44; A10:61; A11:29, 116–
 117; A12:119–120; A13:87
 sediments, A15:53
 vs. depth, A13:57
wavelet transforms, well-logging, A11:85; A12:87–89, 92
well-log stratigraphy, lithologic units, A11:34–36;
 A12:36–38
well-logging
 summary, A11:77, 125; A12:83, 128
 See also logging Unit 1; logging Unit 2; logging Unit 3

Y

ytterbium, Paleocene/Eocene boundary, B16:3
yttrium
 Paleocene/Eocene boundary, B16:3
 vs. depth, B16:7

Z

zeolites, lithologic units, A8:5; A9:5–6; A10:6; A11:7;
 A13:6; A15:4–5
Zijderveld plots, overprinting, A12:57
zinc
 hydrothermal sediments, B15:3
 Paleocene/Eocene boundary, B16:3
 vs. depth, B15:6; B16:7
 vs. iron in bulk sediments, B14:16

vs. manganese in bulk sediments, B14:16
 zirconium
 hydrothermal sediments, B15:3
 vs. depth, B15:6
 zonation
 biostratigraphy, A11:47–48; A12:53–54; A13:38–39;
 A14:30

diatoms, B6:3–6
 radiolarian biostratigraphy, B3:5–12
 silicoflagellates, B9:3–6
 Zone RP15
 diatom interval, B24:6–7
 lithologic sequence, B24:16
Zoophycos, lithologic units, A11:9; A12:9

TAXONOMIC INDEX

A

abies, *Sphenolithus*, Site 1219, A12:13
abisectus, *Cyclicargolithus*
 Site 1218, A11:12
 Site 1219, A12:14
Abyssamina inflata, Site 1215, A8:9
Abyssamina poagi
 Site 1215, A8:9
 Site 1217, A10:11
 Site 1220, A13:15
Abyssamina quadrata
 Site 1215, A8:10, 26; B7:2–3, 26
 Site 1220, A13:15; B7:3
 Site 1221, A14:13; B7:3
abyssorum, *Siphonodosaria*
 Site 1218, A11:17–18
 Site 1219, A12:19
 Site 1220, A13:15
 Site 1222, A15:8
Acarinina africana
 Pacific Ocean N equatorial, A1:25
 Site 1220, A13:14
Acarinina berggreni, Site 1220, A13:13
Acarinina bullbrookii, Site 1218, A11:16
Acarinina cf. *collectea*, Site 1218, A11:16
Acarinina coalingensis
 Site 1215, A8:8
 Site 1217, A10:10
 Site 1219, A12:18
 Site 1220, A13:13–14
 Site 1221, A14:12
Acarinina nitida
 Site 1215, A8:8
 Site 1220, A13:14
 Site 1221, A14:12
Acarinina punctocarinata, Site 1218, A11:16
Acarinina quetra
 Site 1219, A12:18
 Site 1220, A13:13
Acarinina rohri, Site 1218, A11:16
Acarinina sibaiyaensis
 Pacific Ocean N equatorial, A1:25
 Site 1220, A13:14
Acarinina soldadoensis
 Site 1215, A8:8
 Site 1217, A10:10
 Site 1219, A12:18
 Site 1220, A13:13–14
 Site 1221, A14:12
Acarinina wilcoxensis, Site 1217, A10:10

acephala, *Siphocampe*, Site 1217, A10:7
acephala, *Siphocampe* sp. aff. *Siphocampe*, Site 1218,
 B5:18–19, 59
Acrobotrys disolenia, Site 1219, B3:24, 76
Acrocubus octopylus, Pacific Ocean N equatorial, B3:15,
 24–25, 71
acuminatus, *Pyrulinooides*, Site 1215, B7:17
acuta, *Morozovella*
 Site 1219, A12:18
 Site 1220, A13:13–14
 Site 1221, A14:12
adiaphorum, *Anthocyrtdium*, Site 1218, B5:27, 66
advena, *Francesita*, Site 1219, A12:19
aequa, *Morozovella*
 Site 1215, A8:8–9
 Site 1217, A10:10
 Site 1220, A13:13
 Site 1221, A14:12
affine, *Nonion*, Site 1218, B8:25
africana, *Acarinina*
 Pacific Ocean N equatorial, A1:25
 Site 1220, A13:14
akersi, *Clavigerinella*, Site 1218, A11:16
Alabamina dissonata, Site 1220, B7:23
Alabamina sp. 1, Site 1215, B7:23
Alabamina sp. 3, Site 1221, B7:23
Alabamina sp. 4, Site 1215, B7:23
Alabamina sp. 5, Site 1221, B7:23
Alabaminella weddellensis, Site 1218, B8:23
alanii, *Fasciculithus*, Site 1220, A13:12
alata, *Dorcadospyris*, Site 1219, A12:20; B3:33, 71
alazanensis, *Bulimina*, Site 1218, B8:20
albeari, *Igorina*, Site 1221, A14:12
allisonensis, *Morozovella*
 Pacific Ocean N equatorial, A1:25
 Site 1220, A13:14
Allomorphina minuta, Site 1215, B7:26
altispira, *Dentoglobigerina*
 Site 1218, A11:15
 Site 1219, A12:16–17
Ammobigerina sp., Site 1220, B7:14
Ammodiscus sp.
 Site 1216, A9:6
 Site 1220, A13:15
 Site 1221, A14:12
Ammovertellina sp.
 Site 1220, A13:15
 Site 1221, A14:12
amphitrite, *Lychnocanoma*, Site 1220, B5:35, 69
amphora, *Dictyoprora*, Site 1220, B5:16–17, 59

- ampla*, *Podocyrtis* (*Podocyrtoges*), Site 1217, B3:16
ampliapertura, *Turborotalia*
 Site 1218, A11:16
 Site 1219, A12:18
anarrhopus, *Sphenolithus*, Site 1215, A8:7
anastasis n.sp., *Dorcadospyrus*, Site 1219, B3:15, 33–34, 71
anekathen n.sp., *Calocycletta* (*Calocycletta*), Pacific Ocean
 N equatorial, B3:15, 27–28, 75
angioporoides, *Subbotina*, Site 1218, A11:16
angulare, *Anthocyrtidium*, Site 1222, A15:8
angulata, *Morozovella*, Site 1221, A14:12
angulisuturalis, *Globigerina*, Site 1218, A11:16
angusta, *Lithocyclia*
 Pacific Ocean N equatorial, B3:15–16; B5:4
 Site 1218, B5:5, 41, 71
 Site 1219, B5:5
 Site 1220, B5:6
angustumbrilicata, *Tenutellinata*
 Site 1218, A11:15–16
 Site 1219, A12:17
annosa, *Theocyrtis*
 Site 1218, B3:50, 75; B4:2
 Site 1219, A12:20
anoectum group, *Zealithapium*, Site 1218, B5:44, 74
Anomalinooides praeacutus
 Site 1215, A8:9; B7:3
 Site 1220, A13:15; B7:3
 Site 1221, A14:13; B7:3
Anomalinooides sp. A, Site 1218, B8:25
Anomalinooides spissiformis
 Site 1217, A10:11
 Site 1218, A11:18
 Site 1221, A14:13
Anomalinooides spissiformis praeacuta, Site 1221, A14:13
Anthocyrtidium adiaphorum, Site 1218, B5:27, 66
Anthocyrtidium angulare, Site 1222, A15:8
Anthocyrtidium stenium, Site 1220, B5:27, 66
Anthocyrtis furcata, Site 1220, B5:38, 70
Anthocyrtoma spp., Pacific Ocean N equatorial, B3:25, 73
anthophora, *Tholospyrus*
 Site 1218, B4:2
 Site 1219, B4:3
antillea, *Siphonodosaria*, Site 1218, B8:19
antiqua, *Ebriopsis*, Pacific Ocean N equatorial, B10:3
apanthesma, *Morozovella*, Site 1220, A13:14
apiculata, *Bachmannocena*, Site 1219, B9:7
apiculata, *Lophophaena*, Site 1220, B5:20, 60
apodora, *Lychnocanoma*, Site 1219, B3:43, 74
aragonensis, *Aragonina*
 Site 1220, A13:15
 Site 1221, B7:18
aragonensis, *Morozovella*, Site 1220, A13:13
Aragonina aragonensis
 Site 1220, A13:15
 Site 1221, B7:18
Aragonina ouezzanensis, Site 1215, B7:18
Aragonina velascoensis
 Site 1215, A8:9–10
 Site 1217, A10:11
 Site 1220, A13:15
 Site 1221, A14:13
Arbatrossidium sp. A, Site 1220, B5:27, 66
Arbatrossidium sp. B, Site 1220, B5:28, 66
Archimerismus? sp., Site 1221, A14:13
arcuatula, *Hemiorbulina* cf., Site 1215, B7:19
aristotelis group, *Lithocyclia*
 Pacific Ocean N equatorial, B5:4
 Site 1218, B5:5, 41, 71
 Site 1219, B5:5
 Site 1220, B5:6
aristotelis group form A, *Lithocyclia*, Site 1220, B5:42, 71
armadillo, *Dictyoprora*
 Site 1218, B3:31, 76
 Site 1220, B5:17, 59
Artophormis barbadensis
 Pacific Ocean N equatorial, B3:25, 73
 Site 1218, B5:21, 61
Artophormis dominasinensis
 Pacific Ocean N equatorial, B3:25, 74
 Site 1220, B5:21, 63
Artophormis gracilis
 Pacific Ocean N equatorial, B3:25, 73
 Site 1218, B5:5
 Site 1219, B5:5
 Site 1220, B5:21–22, 61
asiatica, *Gubkinella*, Site 1220, B7:34
aspera, *Lophocyrtis* (*Apoplanius*), Site 1218, B5:25, 64
aspera group, *Lophocyrtis*
 Pacific Ocean N equatorial, B5:4
 Site 1218, B5:5
 Site 1219, B5:5
 Site 1220, B5:6
Astacolus cretacea, Site 1215, B7:19
Astrononion echolsi
 Site 1218, B8:25
 Site 1219, A12:19
ateuchus, *Dorcadospyrus*
 Site 1218, A11:19
 Site 1219, A4:5; A12:20; B3:34, 71; B4:3
Axoprunum pierinae, Site 1218, B5:39, 70
Axoprunum sp. aff. *Axoprunum irregularis*, Site 1220,
 B5:39, 70
Azpeitia oligocenica, Site 1220, B6:25
azyx, *Cryptocarpium*
 Pacific Ocean N equatorial, B5:4
 Site 1217, A10:11
 Site 1218, B5:5
 Site 1220, A13:17; B5:28, 66
 Site 1221, A14:14
- B**
- babylonis*, *Lychnocanoma*, Site 1218, B5:35–36, 70
Bachmannocena apiculata, Site 1219, B9:7
Bachmannocena apiculata Range Zone, Site 1219, B9:5
bandyca, *Calocyclus*
 Pacific Ocean N equatorial, B5:4
 Site 1218, B5:5, 22, 62
 Site 1220, B5:5
 Site 1221, A14:14

- barbadense*, *Lophocyrtis* (*Lophocyrtis*?), Site 1218, B5:26, 65
barbadensis, *Artophormis*
 Pacific Ocean N equatorial, B3:25, 73
 Site 1218, B5:21, 61
barbadiensis, *Dictyococcites*, Site 1219, A12:15
barbadiensis, *Discoaster*
 Pacific Ocean N equatorial, A1:22
 Site 1215, A8:7
 Site 1218, A1:35; A11:4, 13–14
bassanii, *Didymocyrtis*, Site 1219, B3:32, 71
Bathysiphon sp., Site 1221, A14:13
Bacteriopsis brunii Partial Range Zone, Site 1220, B6:3–4
beaumonti, *Buliminella*
 Site 1215, B7:22
 Site 1220, B7:3
beccariiiformis, *Gavelinella*
 Site 1215, A8:9–10; B7:3, 29
 Site 1217, A10:11
 Site 1220, A13:15–16; B7:3–4
 Site 1221, A14:13
beisseli, *Gyroidinoides*, Site 1215, B7:33
berggreni, *Acarinina*, Site 1220, A13:13
bianulus, *Theocorys*, Site 1218, B5:24, 63
biapiculata, *Naviculopsis*, Site 1219, B9:7, 12, 28
bidens, *Chiasmolithus*
 Site 1219, A12:16
 Site 1220, A13:11, 13
 Site 1221, A14:11
 Site 1222, A15:8
bifax, *Discoaster*, Site 1219, A12:15
bijugatus, *Zygrhablithus*, Pacific Ocean equatorial, B1:19
bimucronata, *Corbisema*, Site 1219, B9:8
bimucronata bimucronata, *Corbisema*, Site 1219, B9:8
bimucronata rotatoria, *Corbisema*, Site 1219, B9:8–9
biniensis, *Globoquadrina*, Site 1218, A11:15
binodosus, *Discoaster*
 Site 1215, A8:7
 Site 1219, A12:15–16
bisectus, *Dictyococcites*
 Site 1218, A11:12–14
 Site 1219, A12:15
 Site 1221, A14:10
bisectus, *Discoaster*
 Site 1217, A10:9
 Site 1218, A11:13–14
bisulcus, *Prinsius*
 Site 1219, A12:16
 Site 1220, A13:13
 Site 1221, A14:11
 Site 1222, A15:8
bobii, *Fasciculithus*, Site 1220, A13:12
Bogorovia veniamini, Site 1220, B6:23
Bogorovia veniamini Partial Range Zone, Site 1220, B6:5
bolivariana, “*Hantkenina*” cf., Site 1218, A11:16
Bolivina huneri, Site 1218, B8:20
Bomolithus elegans, Site 1221, A14:11
Botellina sp., Site 1221, B7:14
Botryocella sp. group, Pacific Ocean N equatorial, B3:26, 76
Botryopyle sp. A, Pacific Ocean N equatorial, B3:26, 76
bradburyi, *Bulimina*, Site 1220, B7:3, 21
bramelettei, *Tribrachiatulus*
 Site 1215, A8:7
 Site 1217, A10:9–10
 Site 1219, A12:16
 Site 1221, A14:11
 Site 1222, A15:8
brevispinosa, *Orthokarstenia*, Site 1220, B7:17
bromia, *Thyrsocyrtis* (*Thyrsocyrtis*), Site 1218, B5:33, 68
bromia form A, *Thyrsocyrtis*
 Site 1218, B5:5
 Site 1220, B5:6
bromia form A, *Thyrsocyrtis* (*Thyrsocyrtis*), Site 1220, B5:33, 68
bukryi, *Thalassiosira*?, Site 1220, B6:24
Bulimina alazanensis, Site 1218, B8:20
Bulimina bradburyi, Site 1220, B7:3, 21
Bulimina cf. *denticulata*, Site 1220, B7:3, 21
Bulimina denticulata, Site 1221, B7:21
Bulimina impendens, Site 1221, B7:21
Bulimina jarvisi, Site 1220, B7:21
Bulimina midwayensis
 Site 1220, B7:21
 Site 1221, A14:13
Bulimina parvula, Site 1218, B8:20
Bulimina proluxa, Site 1220, B7:21
Bulimina semicostata, Site 1217, A10:11
Bulimina sp., Site 1220, B7:21
Bulimina sp. 1, Site 1215, B7:22
Bulimina triangularis, Site 1221, B7:21
Bulimina trihedra, Site 1220, B7:3, 21
Bulimina tuxpamensis, Site 1220, A13:16; B7:21
Bulimina velascoensis, Site 1221, B7:21
Buliminella beaumonti
 Site 1215, B7:22
 Site 1220, B7:3
Buliminella cf. *grata*, Site 1220, B7:22
Buliminella sp. 1, Site 1220, B7:22
bullbrookii, *Acarinina*, Site 1218, A11:16
bulloides, *Pullenia*, Site 1218, B8:26
bulloides, *Sphaeroidina*, Site 1218, B8:23
Buryella clinata, Site 1216, A9:6
Buryella clinata Interval Zone, Pacific Ocean N equatorial, B3:12
byronalis, *Dictyocha*, Site 1219, B9:7
- C**
- calculosus*, *Discoaster*, Site 1220, A13:11
californicum, *Rhopalodictyum*, Site 1220, B5:45, 74
Calocyclus bandyca
 Pacific Ocean N equatorial, B5:4
 Site 1218, B5:5, 22, 62
 Site 1220, B5:5
 Site 1221, A14:14
Calocyclus bandyca Concurrent Range Zone, Pacific Ocean N equatorial, B3:9; B5:4
Calocyclus hispida
 Site 1218, B5:22, 62
 Site 1220, A13:17
Calocyclus turris, Site 1218, B5:22, 62

- Calocyclus* (*Calocyclus*) *anekathen* n. sp., Pacific Ocean N equatorial, B3:15, 27–28, 75
- Calocyclus* (*Calocyclus*) *robusta*, Pacific Ocean N equatorial, B3:28, 75
- Calocyclus* (*Calocyclus*) *costata* Interval Zone, Pacific Ocean N equatorial, B3:6
- Calocyclus* (*Calocyclus*) *serrata*, Pacific Ocean N equatorial, B3:15
- Calocyclus* *costata*, Site 1218, A11:18
- campanella*, *Pterocodon*, Site 1218, B5:38, 70
- capito*, *Lophophaena*, Site 1220, B5:20, 60
- careotuberosa* n.sp., *Theocyrtis*, Site 1218, B3:50–51, 75
- carinatus*, *Triquetrorhabdulus*
Site 1218, A11:12
Site 1219, A12:14
Site 1220, A13:11
- Cassidulina* sp. A, Site 1218, B8:20
- Catapsydrax dissimilis*
Site 1218, A11:15–16
Site 1219, A12:16–18
- Catapsydrax dissimilis cipoensis*
Site 1218, A11:14–15
Site 1219, A12:17–18
- Catapsydrax unicus*
Site 1218, A11:16
Site 1219, A12:18
- Catinaster* spp., Site 1218, A11:11
- celsus*, *Sphenolithus*
Site 1218, A11:13
Site 1220, A13:11
- Centrobotrys gravida*
Pacific Ocean N equatorial, B3:15
Site 1220, B5:20, 59
- Centrobotrys petrushevskayae*, Site 1220, B5:20, 59
- Centrobotrys thermophila*, Pacific Ocean N equatorial, B3:15, 30, 76
- Cestodiscus convexus*, Site 1220, B6:23
- Cestodiscus kugleri*, Site 1220, B6:23
- Cestodiscus ovalis*, Site 1220, B6:24
- Cestodiscus reticulatus*, Site 1220, B6:25
- Cestodiscus robustus*, Site 1220, B6:25
- Cestodiscus* sp. 2, Site 1220, B6:23–24
- Cestodiscus trochus*, Site 1220, B6:24–25
- Cestodiscus trochus* Interval Zone, Site 1220, B6:4
- chalara*, *Podocyrtis*
Site 1217, A10:11
Site 1221, A14:14
- chalara*, *Podocyrtis* (*Lampterium*), Site 1220, A13:17; B5:29, 66
- chapatensis*, *Karrerella*, Site 1218, B8:19
- Chiasmolithus bidens*
Site 1219, A12:16
Site 1220, A13:11, 13
Site 1221, A14:11
Site 1222, A15:8
- Chiasmolithus consuetus*, Site 1220, A13:11
- Chiasmolithus grandis*
Site 1218, A11:14
Site 1219, A12:15
- Chiasmolithus solitus*
Site 1215, A8:7
- Site 1218, A11:14
- Chiloguembelina cubensis*, Site 1218, A11:15
- Chiloguembelina wilcoxensis*
Site 1215, A8:9
Site 1219, A12:18
- Chilostomella* sp., Site 1219, A12:19
- Cibicoides* cf. *dayi*, Site 1221, B7:27
- Cibicoides eocaenus*
Site 1215, B7:27
Site 1218, A11:18
Site 1219, A12:19
Site 1220, B7:3
Site 1221, B7:3
- Cibicoides grimsdalei*
Site 1217, A10:11
Site 1218, A11:17–18; B8:25; B17:1–12
Site 1219, A12:19
Site 1220, A13:15
Site 1221, B7:28
- Cibicoides havanensis*
Site 1217, A10:11
Site 1218, A11:17; B17:1–12
Site 1220, A13:15
- Cibicoides lamontdohertyi*, Site 1218, B8:24
- Cibicoides mundulus*
Site 1218, A11:17; B8:3, 24
Site 1219, B8:3
Site 1220, A13:15
Site 1222, A15:8
- Cibicoides praemundulus*
Site 1218, A11:17–18
Site 1220, A13:15
- Cibicoides* sp. 2, Site 1221, B7:28
- Cibicoides* sp. 3, Site 1215, B7:34
- Cibicoides* sp. A
Site 1218, B8:3, 24
Site 1219, B8:3
- Cibicoides* spp.
Site 1215, A8:9
Site 1218, B19:1–13
Site 1219, A12:19
Site 1220, A13:15; B18:1–12
Site 1221, B18:1–12
- Cibicoides subcarinatus*, Site 1221, B7:27
- cimelium*, *Zygocircus*, Site 1219, B3:56–57, 73
- cipoensis*, *Sphenolithus*
Site 1218, A11:12
Site 1219, A12:14
- circulus*, *Dorcadospyris*
Site 1219, B3:34, 71
Site 1220, B5:15, 58
- clarki*, *Orthokarstenia*, Site 1221, B7:17
- clavata*, *Pleurostomella*, Site 1215, B7:19
- Clavatorella paleocenica*, Site 1220, A13:15
- Clavigerinella akersi*, Site 1218, A11:16
- Clavigerinella colombiana*, Site 1218, A11:16
- Clavigerinella eocanica*, Site 1218, A11:16
- Clavigerinella jarvisi*, Site 1218, A11:16
- Clavigerinella* spp., Site 1218, A11:16
- clemenciae*, *Tenuitella*
Site 1218, A11:15

- Site 1219, A12:17
clinata, *Buryella*, Site 1216, A9:6
coalingensis, *Acarinina*
 Site 1215, A8:8
 Site 1217, A10:10
 Site 1219, A12:18
 Site 1220, A13:13–14
 Site 1221, A14:12
Coccolithus eopelagicus
 Site 1218, A11:13–14
 Site 1219, A12:15
Coccolithus pelagicus
 Site 1215, A8:7
 Site 1217, A10:9
 Site 1218, A11:13–14
 Site 1219, A12:13, 15
 Site 1220, A13:13
 Site 1221, A14:10–11
 Site 1222, A15:7–8
collactea, *Acarinina* cf., Site 1218, A11:16
Collosphaera sp. A, Site 1218, B5:44, 74
Collosphaera sp. B, Site 1218, B5:44, 74
colombiana, *Clavigerinella*, Site 1218, A11:16
communis, *Martinottiella*, Site 1220, A13:15
compacta, *Helicosphaera*
 Site 1218, A11:13
 Site 1219, A12:15
conicus, *Globorotalites*
 Site 1215, B7:25
 Site 1221, B7:3–4
constricta, *Naviculopsis*, Site 1219, B9:7
consuetus, *Chiasmolithus*, Site 1220, A13:11
contiguum, *Pteropilius* sp. aff. *Pterocanium*, Site 1219, B3:47, 75
continua, *Paragloborotalia*, Site 1218, A11:14–15
continuum, *Lychnocanium*, Site 1218, B5:37, 69
contortus, *Tribrachiatus*
 Site 1215, A8:7
 Site 1217, A10:9
 Site 1219, A12:16
 Site 1221, A14:11
convexus, *Cestodiscus*, Site 1220, B6:23
copelata n.sp., *Dorcadospyrus*, Site 1219, B3:34–35, 71
Corbisema bimucronata, Site 1219, B9:8
Corbisema bimucronata bimucronata, Site 1219, B9:8
Corbisema bimucronata rotatoria, Site 1219, B9:8–9
Corbisema flexuosa, Site 1219, B9:9, 28
Corbisema hastata, Site 1219, B9:8
Corbisema inermis, Site 1221, B10:2
Corbisema inermis inermis, Site 1219, B9:9, 28
Corbisema regina, Site 1221, B10:2
Corbisema triacantha Partial Range Zone, Site 1219, B9:5–6
coronata laevis, *Stylosphaera*
 Pacific Ocean N equatorial, B5:4
 Site 1218, B5:5, 39–40, 70
 Site 1220, B5:6
Coronocyclus nitescens
 Site 1218, A11:11
 Site 1219, A12:13
coryelli, *Pullenia*
 Site 1215, A8:9–10; B7:26
 Site 1217, A10:11
 Site 1220, A13:15; B7:4
 Site 1221, A14:13
Coryphostoma cf. *midwayensis*, Site 1220, B7:20
Coryphostoma crenulata, Site 1215, B7:20
Coryphostoma incrassata, Site 1215, B7:20
Coryphostoma sp., Site 1220, B7:20
Coscinodiscus excavatus Range Zone, Site 1220, B6:4
Coscinodiscus excavatus var. *semilunaris*, Site 1220, B6:24
costata, *Calocycletta*, Site 1218, A11:18
Craniopsis sp., Pacific Ocean N equatorial, B10:3
?crassus, *Toweius*, Site 1220, A13:11
crenulata, *Coryphostoma*, Site 1215, B7:20
cretacea, *Astacolus*, Site 1215, B7:19
cretacea, *Pullenia*, Site 1215, B7:26
Cribrostomoides sp., Site 1220, A13:15
Cruciplacolithus frequens, Site 1221, A14:11
Cruciplacolithus latipons, Site 1221, A14:11
Cruciplacolithus tenuis, Site 1219, A12:16
crux, *Distephanus*, Site 1219, B9:11, 28
crux, *Lithocyclia*, Site 1218, B5:42, 71
crux hannai, *Dictyocha*, Site 1219, B9:28
Cryptocarpium azyx
 Pacific Ocean N equatorial, B5:4
 Site 1217, A10:11
 Site 1218, B5:5
 Site 1220, A13:17; B5:28, 66
 Site 1221, A14:14
Cryptocarpium azyx Interval Zone, Pacific Ocean N equatorial, B3:9; B5:4
Cryptocarpium ornatum
 Pacific Ocean N equatorial, B5:4
 Site 1218, B5:5
 Site 1219, B5:5
 Site 1220, B5:6, 28, 66
Cryptocarpium ornatum Interval Zone, Pacific Ocean N equatorial, B3:9; B5:4
cubensis, *Chiloguembelina*, Site 1218, A11:15
cuspsis, *Rhomboaster*, Site 1217, A10:10
cyclacantha n.sp., *Dorcadospyrus*, Site 1219, B3:15, 35, 71
Cycladophora spatiosa, Site 1220, B5:38, 70
Cyclicargolithus abisectus
 Site 1218, A11:12
 Site 1219, A12:14
Cyclicargolithus floridanus
 Site 1218, A11:11, 13
 Site 1219, A12:13
Cyrtocapsella tetrapera
 Site 1218, A1:34; A11:4; B4:2
 Site 1219, A12:20; B4:3
 Site 1220, A13:16
Cyrtocapsella tetrapera Concurrent Range Zone
 Pacific Ocean N equatorial, B3:7
 Site 1218, B4:2
- D**
dayi, *Cibicidoides* cf., Site 1221, B7:27
decora, *Periphaena*, Site 1218, B5:42–43, 72
deflandrei, *Discoaster*
 Site 1217, A10:9

- Site 1218, A11:11–13
 Site 1219, A12:13–14
 Site 1221, A14:10
 Site 1222, A15:7
deflandrei gr., *Discoaster*, Site 1220, A13:11
dehiscens, *Globoquadrina*
 Site 1218, A11:14
 Site 1219, A12:16–17
delmontensis, *Stichocorys*, Site 1219, B4:3
delphix, *Sphenolithus*
 Site 1218, A1:34; A11:4, 12–13, 19
 Site 1219, A1:38; A12:4–5, 14, 17, 20
Dendrospyrus sp. A, Site 1220, B5:15, 58
dentata, *Dorcadospyrus*, Site 1219, A12:20; B3:35, 71
denticulata, *Bulimina*, Site 1221, B7:21
denticulata, *Bulimina* cf., Site 1220, B7:3, 21
Dentoglobigerina altispira
 Site 1218, A11:15
 Site 1219, A12:16–17
Dentoglobigerina galavisi, Site 1219, A12:16
Dentoglobigerina globulosa, Site 1219, A12:17
Dentoglobigerina pseudocontinua, Site 1219, A12:17
Dentoglobigerina yeguaensis, Site 1219, A12:16–17
depressa, *Valvalabamina*, Site 1215, B7:33
diamesa, *Podocyrtes* (*Podocyrtores*), Site 1220, B3:46, 75
Diartus petterssoni, Site 1218, A11:18
Diartus petterssoni Interval Zone, Pacific Ocean N equatorial, B3:5
diastypus, *Discoaster*
 Site 1219, A12:16
 Site 1220, A13:11
 Site 1221, A14:11
Dictyocha byronalis, Site 1219, B9:7
Dictyocha crux hannai, Site 1219, B9:28
Dictyocha fibula fibula, Site 1219, B9:6, 10
Dictyocha hexacantha, Site 1219, B9:10, 28
Dictyocha hexacantha Range Zone, Site 1219, B9:4, 7; B10:3
Dictyocha speculum speculum, Site 1219, B9:7
Dictyocha spinosa, Site 1221, B10:2
Dictyocha spinosa Subzone, Site 1219, B9:8
Dictyocha varia Interval Zone, Site 1219, B9:6
Dictyococcites barbadiensis, Site 1219, A12:15
Dictyococcites bisectus
 Site 1218, A11:12–14
 Site 1219, A12:15
 Site 1221, A14:10
Dictyococcites hesslandii
 Site 1217, A10:9
 Site 1218, A11:13–14
 Site 1219, A12:15
 Site 1221, A14:10
 Site 1222, A15:7
Dictyococcites nodifer, Site 1219, A12:15
Dictyococcites saipanensis, Site 1219, A12:15
Dictyococcites scrippsae, Site 1218, A11:13
Dictyococcites spp., Site 1219, A12:15
Dictyococcites tani, Site 1219, A12:15
dictyoda, *Reticulofenestra*
 Site 1217, A10:9
 Site 1218, A11:14
 Site 1219, A12:15
Dictyopodium eurylophus, Site 1220, B5:25, 63
Dictyopodium oxlophus, Site 1220, B5:25, 64
Dictyoprora amphora, Site 1220, B5:16–17, 59
Dictyoprora armadillo
 Site 1218, B3:31, 76
 Site 1220, B5:17, 59
Dictyoprora mongolfieri
 Pacific Ocean N equatorial, B24:7–8
 Site 1216, A9:6
 Site 1220, A13:17; B5:17, 59
Dictyoprora mongolfieri Interval Zone, Pacific Ocean N equatorial, B3:11
Dictyoprora ovata, Site 1220, B5:17–18, 59
Dictyoprora pirum, Site 1219, B5:18, 59
Dictyoprora pirum s.s., Site 1218, B3:32, 76
Dictyoprora sp. A, Site 1220, B5:18, 59
Didymocyrtis bassanii, Site 1219, B3:32, 71
Didymocyrtis prismatica, Site 1220, B5:40–41, 71
Didymocyrtis tetrathalamus, Site 1222, A15:9
Didymocyrtis tubaria, Site 1219, B3:15, 33, 71
disbelemnus, *Sphenolithus*, Site 1218, A11:12
Discoaster barbadiensis
 Pacific Ocean N equatorial, A1:22
 Site 1215, A8:7
 Site 1218, A1:35; A11:4, 13–14
Discoaster bifax, Site 1219, A12:15
Discoaster binodosus
 Site 1215, A8:7
 Site 1219, A12:15–16
Discoaster bisectus
 Site 1217, A10:9
 Site 1218, A11:13–14
Discoaster calculosus, Site 1220, A13:11
Discoaster deflandrei
 Site 1217, A10:9
 Site 1218, A11:11–13
 Site 1219, A12:13–14
 Site 1221, A14:10
 Site 1222, A15:7
Discoaster deflandrei gr., Site 1220, A13:11
Discoaster diastypus
 Site 1219, A12:16
 Site 1220, A13:11
 Site 1221, A14:11
Discoaster druggii
 Site 1218, A11:12
 Site 1219, A12:14
Discoaster exilis
 Site 1218, A11:11
 Site 1219, A12:13
Discoaster falcatus
 Site 1215, A8:7
 Site 1220, A13:11
Discoaster gemmifer, Site 1219, A12:15
Discoaster lodoensis, Site 1215, A8:7
Discoaster mirus, Site 1219, A12:15
Discoaster mohleri
 Site 1215, A8:8
 Site 1220, A13:13
 Site 1221, A14:11

- Site 1222, A15:8
Discoaster multiradiatus
 Site 1215, A8:7–8, 14–15
 Site 1217, A10:10
 Site 1219, A12:16
 Site 1220, A13:11, 13
 Site 1221, A14:11
 Site 1222, A15:8
Discoaster musicus, Site 1219, A12:13
Discoaster nobilis
 Site 1220, A13:13
 Site 1221, A14:11–12
 Site 1222, A15:8
Discoaster nodifer
 Site 1218, A11:14
 Site 1221, A14:10
 Site 1222, A15:7
Discoaster okadai
 Site 1215, A8:8
 Site 1221, A14:11
Discoaster saipanensis
 Pacific Ocean N equatorial, A1:22
 Site 1218, A1:35; A11:4, 13–14
Discoaster septemradiatus, Site 1219, A12:15
Discoaster signus
 Site 1218, A11:11
 Site 1219, A12:13
Discoaster spp.
 Site 1218, A11:11
 Site 1219, A12:13
Discoaster sublodoensis, Site 1219, A12:15
Discoaster tanii
 Site 1217, A10:9
 Site 1218, A11:13–14
 Site 1221, A14:10
 Site 1222, A15:7
Discoaster variabilis
 Site 1218, A11:11
 Site 1219, A12:13
Discoaster wemmelensis, Site 1219, A12:15
disolenia, *Acrobotrys*, Site 1219, B3:24, 76
dissimilis, *Catapsydrax*
 Site 1218, A11:15–16
 Site 1219, A12:16–18
dissimilis ciproensis, *Catapsydrax*
 Site 1218, A11:14–15
 Site 1219, A12:17–18
dissonata, *Alabamina*, Site 1220, B7:23
distentus, *Sphenolithus*
 Site 1219, A12:14–15
 Site 1220, A13:11
Distephanus crux, Site 1219, B9:11, 28
Distephanus/Dictyocha ratio, Site 1219, B9:7
distichus, *Ellipsolithus*, Site 1220, A13:11
dominasinensis, *Artophormis*
 Pacific Ocean N equatorial, B3:25, 74
 Site 1220, B5:21, 63
Dorcadospyrus alata, Site 1219, A12:20; B3:33, 71
Dorcadospyrus alata Interval Zone, Pacific Ocean N equatorial, B3:6
Dorcadospyrus anastasis n.sp., Site 1219, B3:15, 33–34, 71
Dorcadospyrus ateuchus
 Site 1218, A11:19
 Site 1219, A4:5; A12:20; B3:34, 71; B4:3
Dorcadospyrus ateuchus Interval Zone
 Pacific Ocean N equatorial, B3:8
 Site 1219, B4:2
Dorcadospyrus circulus
 Site 1219, B3:34, 71
 Site 1220, B5:15, 58
Dorcadospyrus copelata n.sp., Site 1219, B3:34–35, 71
Dorcadospyrus cyclacantha n.sp., Site 1219, B3:15, 35, 71
Dorcadospyrus dentata, Site 1219, A12:20; B3:35, 71
Dorcadospyrus forcipata, Pacific Ocean N equatorial, B3:36, 72
Dorcadospyrus ombros n.sp., Site 1218, B3:36, 72
Dorcadospyrus papilio, Site 1218, B3:37, 72
Dorcadospyrus praeforcipata, Site 1219, B3:37, 72
Dorcadospyrus pseudopapilio
 Site 1218, B3:37, 72
 Site 1220, B5:15–16, 58
Dorcadospyrus quadripes
 Site 1220, B3:37–38, 72; B5:16, 58
 Site 1222, A15:9
Dorcadospyrus riedelii, Site 1219, B3:15, 38, 72
Dorcadospyrus scambos n.sp., Site 1219, B3:38–39, 73
Dorcadospyrus simplex s.s., Site 1219, B3:39, 73
Dorcadospyrus spinosa
 Site 1220, B3:15, 39, 73; B5:16, 58
 Site 1222, A15:9
Dorothia trochoides
 Site 1215, A8:10
 Site 1221, A14:13
druggii, *Discoaster*
 Site 1218, A11:12
 Site 1219, A12:14
- E**
- Ebriopsis antiqua*, Pacific Ocean N equatorial, B10:3
echolsi, *Astrononion*
 Site 1218, B8:25
 Site 1219, A12:19
Eggerella sp., Site 1215, B7:15
elegans, *Bomolithus*, Site 1221, A14:11
elevata, *Paralabamina*
 Site 1215, B7:3, 31
 Site 1220, B7:3
Ellipsolithus distichus, Site 1220, A13:11
Ellipsolithus macellus
 Site 1215, A8:8
 Site 1221, A14:11
elongata, *Lychnocanoma*
 Site 1218, A11:19; B3:17; B4:2
 Site 1219, B4:3
 Site 1222, A15:8
eminens, *Toweius*
 Site 1215, A8:8
 Site 1220, A13:11, 13
 Site 1221, A14:11–12
eocaenus, *Cibicidoides*
 Site 1215, B7:27

- Site 1218, A11:18
 Site 1219, A12:19
 Site 1220, B7:3
 Site 1221, B7:3
eocanica, *Clavigerinella*, Site 1218, A11:16
eopelagicus, *Coccolithus*
 Site 1218, A11:13
 Site 1219, A12:15
Eouviferina sp., Site 1215, B7:34
Epistominella exigua
 Site 1218, A11:17
 Site 1219, A12:19, 55
Ericsonia formosa
 Site 1218, A11:14
 Site 1219, A12:15
 Site 1221, A14:10
Ericsonia robusta
 Site 1215, A8:8
 Site 1221, A14:11
Ericsonia spp.
 Site 1221, A14:11
 Site 1222, A15:8
Ericsonia subpertusa, Site 1215, A8:8
euapertura, *Subbotina*
 Site 1218, A11:15–16
 Site 1219, A12:19
 Site 1220, A13:13
Eucyrtidium fistuligerum
 Site 1217, A10:11
 Site 1218, B5:5
Eucyrtidium fistuligerum group, Site 1220, B5:35, 69
Eucyrtidium ?hillaby, Site 1218, B5:22–23, 62
Eucyrtidium mitodes n.sp., Site 1218, B3:40, 74
Eucyrtidium montiparum, Site 1218, B5:23, 62
Eucyrtidium ?panthera, Site 1220, B5:23, 62
Eucyrtidium plesiodiaphanes, Site 1219, B3:40, 74
Eucyrtidium sp. F, Site 1218, B5:23–24, 63
Eucyrtidium sp. F1, Site 1220, B5:24, 62
Eucyrtidium (?) sp. J, Site 1220, B5:24, 63
eurylophus, *Dictyopodium*, Site 1220, B5:25, 63
Eurystomoskevos petrushevskayae, Site 1218, B5:38, 70
Eusyringium fistuligerum
 Site 1216, A9:6
 Site 1218, B3:40, 74
Evolvecassidulina cf. *howei*, Site 1218, B8:20
excavatus var. *semilunaris*, *Coscinodiscus*, Site 1220, B6:24
exigua, *Epistominella*
 Site 1218, A11:17
 Site 1219, A12:19, 55
exigua, *Pseudoparrella*
 Site 1218, B8:3, 21
 Site 1219, B8:3
exilis, *Discoaster*
 Site 1218, A11:11
 Site 1219, A12:13
- F**
- fabaeforme chaunothorax*, *Lamptonium*, Site 1220, B3:41, 74
falcatus, *Discoaster*
 Site 1215, A8:7
 Site 1220, A13:11
Falsoguttulina sp. 1, Site 1215, B7:18
Falsoguttulina wolburgi, Site 1215, B7:18
Fasciculithus alanii, Site 1220, A13:12
Fasciculithus bobii, Site 1220, A13:12
Fasciculithus involutus
 Site 1215, A8:8
 Site 1220, A13:12–13
 Site 1221, A14:11
Fasciculithus richardii
 Site 1215, A8:8
 Site 1220, A13:12–13
Fasciculithus schaubii
 Site 1215, A8:8
 Site 1220, A13:12–13
Fasciculithus spp.
 Pacific Ocean equatorial, B1:19
 Site 1220, A1:40
Fasciculithus tympaniformis
 Pacific Ocean N equatorial, A1:25
 Site 1215, A8:8
 Site 1217, A10:10
 Site 1220, A13:12–13
 Site 1221, A14:11
Fasciculithus ulii, Site 1221, A14:11
Favocassidulina spinifera, Site 1218, B8:20
Favocassidulina subfavus, Site 1218, B8:20
fennerae, *Rossiella*, Site 1220, B6:23
fibula fibula, *Dictyocha*, Site 1219, B9:6, 10
ficus, *Theocotylissa*, Site 1219, B3:49, 75
Fissurina sp., Site 1218, A11:18, 50
fistuligerum, *Eucyrtidium*
 Site 1217, A10:11
 Site 1218, B5:5
fistuligerum, *Eusyringium*
 Site 1216, A9:6
 Site 1218, B3:40, 74
fistuligerum group, *Eucyrtidium*, Site 1220, B5:35, 69
flexuosa, *Corbisema*, Site 1219, B9:9, 28
florealis, *Nuttallides*, Site 1221, A14:13
floridanus, *Cyclicargolithus*
 Site 1218, A11:11, 13
 Site 1219, A12:13
?floris, *Heliolithus*, Site 1220, A13:12
forcipata, *Dorcadospyris*, Pacific Ocean N equatorial,
 B3:36, 72
formaster, *Theocamptra*, Site 1220, B5:19–20, 59
formosa, *Ericsonia*
 Site 1218, A11:14
 Site 1219, A12:15
 Site 1221, A14:10
formosa, *Morozovella*
 Site 1215, A8:8–9
 Site 1219, A12:18
Francesita advena, Site 1219, A12:19
frequens, *Cruciplacolithus*, Site 1221, A14:11
fulgens, *Nannotetrina*, Site 1219, A12:15
furcata, *Anthocyrtilis*, Site 1220, B5:38, 70
furcatolithoides, *Sphenolithus*, Site 1218, A11:14
Fursenkoina sp.
 Site 1215, B7:22

Site 1218, A11:18

G

galavisi, *Dentoglobigerina*, Site 1219, A12:16

gartneri, *Reticulofenestra*, Site 1218, A11:13–14

Gaudryina pyramidata, Site 1220, A13:16

Gavelinella beccariiformis

Site 1215, A8:9–10; B7:3, 29

Site 1217, A10:11

Site 1220, A13:15–16; B7:3–4

Site 1221, A14:13

gemmifer, *Discoaster*, Site 1219, A12:15

girardanus, *Gyroidinoides*, Site 1220, B7:34

Globanomalina ovalis, Site 1221, A14:12

Globanomalina pseudoimitata

Site 1215, A8:8–9

Site 1217, A10:10

Site 1220, A13:13

Globanomalina pseudomenardii, Site 1221, A14:12

Globigerina angulisuturalis, Site 1218, A11:16

Globigerinoides primordius, Site 1219, A12:17

Globigerinoides triloba, Site 1219, A12:17

Globimorphina trochoidea, Site 1220, B7:22

Globocassidulina globosa

Site 1215, B7:3, 22

Site 1217, A10:11

Site 1220, B7:3

Site 1221, A14:13; B7:3

Globocassidulina sp. 1, Site 1220, B7:22

Globocassidulina sp. A, Site 1218, B8:20

Globocassidulina sp. B, Site 1218, B8:20

Globocassidulina spp.

Site 1217, A10:10

Site 1218, A11:17–18

Site 1219, A12:19

Site 1220, A13:15

Globocassidulina subglobosa

Site 1218, B8:3, 20

Site 1219, B8:3

Globoquadrina biniaensis, Site 1218, A11:15

Globoquadrina dehiscens

Site 1218, A11:14

Site 1219, A12:16–17

Globoquadrina praedeheiscens, Site 1218, A11:14–15

Globoquadrina praeturritilina, Site 1218, A11:15

Globoquadrina prasaepis

Site 1218, A11:15

Site 1219, A12:16, 18

Globoquadrina rohri, Site 1219, A12:16

Globoquadrina sellii

Site 1218, A11:15

Site 1219, A12:17

Globoquadrina suteri, Site 1218, A11:15–16

Globoquadrina tapuriensis

Site 1218, A11:15–16

Site 1219, A12:17–18

Globoquadrina tapuriensis-dehiscens group, Site 1219, A12:16

Globoquadrina tripartita

Site 1218, A11:15–16

Site 1219, A12:17–18

Globoquadrina venezuelana

Site 1218, A11:14–15; B17:1–12

Site 1219, A12:16

Globorotalites conicus

Site 1215, B7:25

Site 1221, B7:3–4

Globorotalites micheliniana

Site 1215, B7:3, 25

Site 1220, B7:3

Globorotaloides suteri

Site 1218, A11:14

Site 1219, A12:18

globosa, *Globocassidulina*

Site 1215, B7:3, 22

Site 1217, A10:11

Site 1220, B7:3

Site 1221, A14:13; B7:3

globosus, *Gyroidinoides*

Site 1215, A8:9–10; B7:33

Site 1221, A14:13; B7:3

globulifera, *Tritaxia*

Site 1215, A8:10

Site 1221, B7:15–16

globulosa, *Dentoglobigerina*, Site 1219, A12:17

Glomospira gordialis, Site 1216, A9:6

goetheana, *Podocyrthis*, Site 1221, A14:15

goetheana, *Podocyrthis* (*Lampterium*)

Site 1218, B5:29, 66

Site 1220, A13:17; B3:45, 75

gordialis, *Glomospira*, Site 1216, A9:6

gortani, *Subbotina*, Site 1218, A11:15

goruna, *Stylosphaera*, Site 1218, B5:40, 70

goudkoffi, *Gyroidinoides*, Site 1215, B7:25

gracilis, *Artophormis*

Pacific Ocean N equatorial, B3:25, 73

Site 1218, B5:5

Site 1219, B5:5

Site 1220, B5:21–22, 61

gracilis, *Morozovella*

Site 1215, A8:8

Site 1217, A10:10

Site 1219, A12:18

grandis, *Chiasmolithus*

Site 1218, A11:14

Site 1219, A12:15

grata, *Buliminella* cf., Site 1220, B7:22

gravida, *Centrobotrys*

Pacific Ocean N equatorial, B3:15

Site 1220, B5:20, 59

griffinae, *Parasubbotina*, Site 1218, A11:16

grimsdalei, *Cibicidoides*

Site 1217, A10:11

Site 1218, A11:17–18; B8:25; B17:1–12

Site 1219, A12:19

Site 1220, A13:15

Site 1221, B7:28

Gubkinella asiatica, Site 1220, B7:34

Gyroidina E, Site 1218, B8:22

Gyroidinoides beisseli, Site 1215, B7:33

Gyroidinoides girardanus, Site 1220, B7:34

Gyroidinoides globosus

Site 1215, A8:9–10; B7:33

Site 1221, A14:13; B7:3

Gyroidinoides goudkoffi, Site 1215, B7:25*Gyroidinoides nitidus*, Site 1221, B7:34*Gyroidinoides octocameratus*, Site 1221, B7:33*Gyroidinoides quadratus*, Site 1220, A13:15*Gyroidinoides soldanii*

Site 1218, B8:22

Site 1222, A15:8

Gyroidinoides sp. A, Site 1218, B8:22*Gyroidinoides* sp. B, Site 1218, B8:23*Gyroidinoides* sp. C, Site 1218, B8:23*Gyroidinoides* spp.

Site 1217, A10:10–11

Site 1218, A11:17–18; B8:3

Site 1219, A12:19; B8:3

Site 1220, A13:15

Gyroidinoides subangulatus, Site 1215, B7:33**H***hadra*, *Lophocyrtis* (*Cyclampterium*), Site 1219, B5:26, 65*haidingeri*, *Neoponides*, Site 1215, B7:34“*Hantkenina*” cf. *bolivariana*, Site 1218, A11:16*Hantkenina* spp.

Pacific Ocean N equatorial, A1:21

Site 1218, A1:35; A11:4, 13, 16

Haplophragmoides sp., Site 1220, B7:14*hastata*, *Corbisema*, Site 1219, B9:8*havanense*, *Nonion*

Site 1215, B7:32

Site 1218, B8:26

Site 1220, A13:15

Site 1221, B7:23

havanensis, *Cibicidoides*

Site 1217, A10:11

Site 1218, A11:17; B17:1–12

Site 1220, A13:15

Helicosphaera compacta

Site 1218, A11:13

Site 1219, A12:15

Helioliscus spp., Pacific Ocean N equatorial, B24:7*Heliolithus ?floris*, Site 1220, A13:12*Heliolithus riedelii*, Site 1221, A14:11–12*Hemiorbulina* cf. *arcuatula*, Site 1215, B7:19*Heronallenia* sp., Site 1220, B7:29*hesslandii*, *Dictyococcites*

Site 1217, A10:9

Site 1218, A11:13–14

Site 1219, A12:15

Site 1221, A14:10

Site 1222, A15:7

heteromorphus, *Sphenolithus*

Site 1218, A11:12

Site 1219, A12:13

heteroporos, *Lamprocyrtis*, Site 1222, A15:9*hexacantha*, *Dictyocha*, Site 1219, B9:10, 28*hexaxypophorus*, *Lithelius*, Site 1218, B5:45, 74*?hillaby*, *Eucyrtidium*, Site 1218, B5:22–23, 62*hillebrandti*, *Neoponides*

Site 1215, A8:9; B7:31

Site 1220, A13:15–16; B7:3–4

Site 1221, A14:13

Hippocrepinella sp., Site 1220, B7:14*hirsuta*, *Thyrsoyrtis*, Site 1216, A9:6*hispidia*, *Calocyclus*

Site 1218, B5:22, 62

Site 1220, A13:17

Hormosina sp., Site 1220, B7:14*howei*, *Evolvecassidulina* cf., Site 1218, B8:20*hunneri*, *Bolivina*, Site 1218, B8:20*Hyperammina?* sp., Site 1220, B7:14*Igorina albeari*, Site 1221, A14:12*Igorina lodoensis*, Site 1220, A13:13*impedens*, *Bulimina*, Site 1221, B7:21*incrassata*, *Coryphostoma*, Site 1215, B7:20*inermis*, *Corbisema*, Site 1221, B10:2*inermis inermis*, *Corbisema*, Site 1219, B9:9, 28*inflata*, *Abyssamina*, Site 1215, A8:9*infrequens*, *Neoponides*, Site 1215, B7:32*insulsus*, *Lenticulina*, Site 1215, B7:19*inversus*, *Pseudotriquetrorhabdulus*, Site 1219, A12:15*involutus*, *Fasciculithus*

Site 1215, A8:8

Site 1220, A13:12–13

Site 1221, A14:11

irregularis, *Axoprunum* sp. aff. *Axoprunum*, Site 1220, B5:39, 70*Isthmolithus recurvus*, Site 1218, A11:13**J***jacchia*(?), *Lophocyrtis*, Site 1218, B5:27, 65*jacchia*, *Lophocyrtis* (*Lophocyrtis*), Site 1218, B5:26–27, 65*jarvisi*, *Bulimina*, Site 1220, B7:21*jarvisi*, *Clavigerinella*, Site 1218, A11:16*jarvisi*, *Pullenia*, Site 1221, B7:26*jarvisi*, *Spiroplectammina*

Site 1215, A8:10

Site 1220, B7:15

junctus, *Neochiastozygus*

Site 1219, A12:16

Site 1222, A15:8

K*Karrerella chapapotensis*, Site 1218, B8:19*kugleri*, *Cestodiscus*, Site 1220, B6:23*kugleri*, *Paragloborotalia*

Site 1218, A1:34; A11:14, 19

Site 1219, A12:17, 20

L*lamontdohertyi*, *Cibicidoides*, Site 1218, B8:24*Lamprocyclus rhinoceros*, Site 1218, B5:28, 66*Lamprocyclus* sp. A, Site 1218, B5:29, 66*Lamprocyrtis heteroporos*, Site 1222, A15:9*Lamprocyrtis nigrinae*, Site 1222, A15:8

- Lamptonium fabaeforme chaunothorax*, Site 1220, B3:41, 74
latipons, *Cruciplacolithus*, Site 1221, A14:11
lensiformis, *Morozovella*, Site 1215, A8:9
Lenticulina insulsus, Site 1215, B7:19
Lenticulina sp., Site 1215, B7:34
Lenticulina whitei
 Site 1215, B7:19
 Site 1220, A13:15
linaperta, *Parasubbotina* cf., Site 1218, A11:16
Linaresia semicribrata, Site 1221, B7:24
Liriospyris longicornuta, Site 1219, B3:15, 41, 73
Lithelius hexaxyphophorus, Site 1218, B5:45, 74
Lithocampe subligata
 Site 1218, B4:2
 Site 1219, B4:3
Lithocyclia angusta
 Pacific Ocean N equatorial, B3:15–16; B5:4
 Site 1218, B5:5, 41, 71
 Site 1219, B5:5
 Site 1220, B5:6
Lithocyclia aristotelis group
 Pacific Ocean N equatorial, B5:4
 Site 1218, B5:5, 41, 71
 Site 1219, B5:5
 Site 1220, B5:6
Lithocyclia aristotelis group form A, Site 1220, B5:42, 71
Lithocyclia crux, Site 1218, B5:42, 71
Lithocyclia ocellus, Site 1218, B5:42, 72; B24:7
Lithocyclia sp. aff. *Lithocyclia stella*, Site 1218, B5:42, 72
lochites, *Thyrsocyrtis*
 Site 1218, B5:5
 Site 1219, B5:5
 Site 1220, B5:6
lochites, *Thyrsocyrtis* (*Pentalocorys*), Site 1220, B5:31, 68
lodoensis, *Discoaster*, Site 1215, A8:7
lodoensis, *Igorina*, Site 1220, A13:13
longicornuta, *Liriospyris*, Site 1219, B3:15, 41, 73
Lophocyrtis (*Apoplanius*) *aspera*, Site 1218, B5:25, 64
Lophocyrtis (*Apoplanius*) *nomas*, Site 1218, B5:25, 64
Lophocyrtis aspera group
 Pacific Ocean N equatorial, B5:4
 Site 1218, B5:5
 Site 1219, B5:5
 Site 1220, B5:6
Lophocyrtis (*Cyclampterium*) *hadra*, Site 1219, B5:26, 65
Lophocyrtis (*Cyclampterium*) *milowii*, Site 1218, B5:26, 65
Lophocyrtis jacchia(?), Site 1218, B5:27, 65
Lophocyrtis (*Lophocyrtis*?) *barbadense*, Site 1218, B5:26, 65
Lophocyrtis (*Lophocyrtis*) *jacchia*, Site 1218, B5:26–27, 65
Lophocyrtis nomas
 Site 1218, B4:2
 Site 1219, B4:3
Lophocyrtis (*Sciadiapeplus*) *oberhaensliae*, Site 1220, B5:27, 65
Lophophaena apiculata, Site 1220, B5:20, 60
Lophophaena capito, Site 1220, B5:20, 60
Lophophaena radians, Site 1220, B5:20, 60
lunata, *Paralabamina*
 Site 1220, B7:25
 Site 1221, B7:31
Lychnocanium continuum, Site 1218, B5:37, 69
Lychnocanium tridentatum, Site 1220, B5:37, 69
Lychnocanoma amphitrite, Site 1220, B5:35, 69
Lychnocanoma apodora, Site 1219, B3:43, 74
Lychnocanoma babylonis, Site 1218, B5:35–36, 70
Lychnocanoma elongata
 Site 1218, A11:19; B3:17; B4:2
 Site 1219, B4:3
 Site 1222, A15:8
Lychnocanoma elongata Interval Zone
 Pacific Ocean N equatorial, B3:7–8
 Site 1218, B4:2
Lychnocanoma tripodium
 Pacific Ocean N equatorial, B5:4
 Site 1218, B5:5
 Site 1219, B5:5
 Site 1220, B5:6
Lychnocanoma tripodium form A, Site 1218, B5:36, 69
Lychnocanoma tripodium form B, Site 1218, B5:37, 69
Lychnocanoma tripodium form C, Site 1220, B5:37, 69
Lychnocanoma turgidum, Site 1219, B3:44, 74
- ## M
- macellus*, *Ellipsolithus*
 Site 1215, A8:8
 Site 1221, A14:11
marginodentata, *Morozovella*
 Site 1215, A8:9
 Site 1217, A10:10
 Site 1220, A13:13
Marssonella oxycona, Site 1215, B7:16
Marssonella trochoides, Site 1221, B7:16
Martinottiella communis, Site 1220, A13:15
Martinottiella spp., Site 1220, A13:15
marylandicus, *Phormostichoartus*, Site 1220, B5:18, 59
mayeri, *Paragloborotalia*
 Site 1218, A11:14
 Site 1219, A12:16
mckannai, *Morozovella*, Site 1221, A14:12
meliniana, *Globorotalites*
 Site 1215, B7:3, 25
 Site 1220, B7:3
microporum, *Stichopilium* ?, Site 1219, B5:37, 70
midwayensis, *Bulimina*
 Site 1220, B7:21
 Site 1221, A14:13
midwayensis, *Coryphostoma* cf., Site 1220, B7:20
midwayensis, *Saracenaria*
 Site 1215, B7:34
 Site 1220, B7:19
Miliammmina sp., Site 1216, A9:6
milowii, *Lophocyrtis* (*Cyclampterium*), Site 1218, B5:26, 65
milowii, *Triquetrorhabdulus*
 Site 1218, A11:12
 Site 1220, A13:11
minuta, *Allomorphina*, Site 1215, B7:26
mirus, *Discoaster*, Site 1219, A12:15
mitodes n.sp., *Eucyrtidium*, Site 1218, B3:40, 74
mitra, *Podocyrctis*
 Site 1217, A10:11
 Site 1221, A14:14

mitra group, *Zealithapium*

Site 1218, B5:44, 74

Site 1220, B5:6

mohleri, *Discoaster*

Site 1215, A8:8

Site 1220, A13:13

Site 1221, A14:11

Site 1222, A15:8

mongolfieri, *Dictyoprora*

Pacific Ocean N equatorial, B24:7–8

Site 1216, A9:6

Site 1220, A13:17; B5:17, 59

monile, *Nodosaria*, Site 1215, B7:17*montiparum*, *Eucyrtidium*, Site 1218, B5:23, 62*moriformis*, *Sphenolithus*

Site 1215, A8:7

Site 1217, A10:9

Site 1218, A11:13

Site 1219, A12:15

Site 1220, A13:11

Site 1221, A14:10

Site 1222, A15:7

Morozovella acuta

Site 1219, A12:18

Site 1220, A13:13–14

Site 1221, A14:12

Morozovella aequa

Site 1215, A8:8–9

Site 1217, A10:10

Site 1220, A13:13

Site 1221, A14:12

Morozovella allisonensis

Pacific Ocean N equatorial, A1:25

Site 1220, A13:14

Morozovella angulata, Site 1221, A14:12*Morozovella apantesma*, Site 1220, A13:14*Morozovella aragonensis*, Site 1220, A13:13*Morozovella formosa*

Site 1215, A8:8–9

Site 1219, A12:18

Morozovella gracilis

Site 1215, A8:8

Site 1217, A10:10

Site 1219, A12:18

Morozovella lensiformis, Site 1215, A8:9*Morozovella marginodentata*

Site 1215, A8:9

Site 1217, A10:10

Site 1220, A13:13

Morozovella mckannai, Site 1221, A14:12*Morozovella occlusa*, Site 1219, A12:18*Morozovella subbotinae*

Site 1215, A8:9

Site 1217, A10:10

Site 1219, A12:18

Site 1220, A13:13–14

Morozovella velascoensis

Site 1219, A12:18

Site 1220, A13:13

Site 1221, A14:12

multiradiatus, *Discoaster*

Site 1215, A8:7–8, 14–15

Site 1217, A10:10

Site 1219, A12:16

Site 1220, A13:11, 13

Site 1221, A14:11

Site 1222, A15:8

mundulus, *Cibicoides*

Site 1218, A11:17; B8:3, 24

Site 1219, B8:3

Site 1220, A13:15

Site 1222, A15:8

Muricoglobigerina senni, Site 1218, A11:16*musicus*, *Discoaster*, Site 1219, A12:13**N***nana*, *Paragloborotalia*

Site 1218, A11:16

Site 1219, A12:16, 18

Nannotetrina fulgens, Site 1219, A12:15*Nannotetrina* spp.

Site 1218, A11:14

Site 1219, A12:15

Naviculopsis biapiculata, Site 1219, B9:7, 12, 28*Naviculopsis biapiculata* Interval Zone, Site 1219, B9:5, 7*Naviculopsis constricta*, Site 1219, B9:7*Naviculopsis constricta* Interval Zone, Site 1219, B9:4*Naviculopsis lata* Range Zone, Site 1219, B9:5, 7*Naviculopsis ponticula*, Site 1219, B9:7*Naviculopsis ponticula* Partial Range Zone, Site 1219, B9:5*Naviculopsis ponticula spinosa*, Site 1219, B9:7*Naviculopsis trigeminus* n.sp., Site 1219, B9:14–15, 28–29*Naviculopsis trispinosa*, Site 1219, B9:15, 28*Neochiastozygus junctus*

Site 1219, A12:16

Site 1222, A15:8

Neochiastozygus spp., Site 1221, A14:11*Neorepidolithus* spp., Site 1222, A15:8*Neoeponides haidingeri*, Site 1215, B7:34*Neoeponides hillebrandti*

Site 1215, A8:9; B7:31

Site 1220, A13:15–16; B7:3–4

Site 1221, A14:13

Neoeponides infrequens, Site 1215, B7:32*Neoflabellina rugosa*, Site 1220, B7:19*Neoflabellina semicibrata*, Site 1220, A13:16*Neoflabellina semireticulata*

Site 1220, A13:15

Site 1221, A14:13

Nephrosipyris sp. A, Site 1220, B5:16, 58*nigrinae*, *Lamprocyrtis*, Site 1222, A15:8*nitescens*, *Coronocyclus*

Site 1218, A11:11

Site 1219, A12:13

nitida, *Acarinina*

Site 1215, A8:8

Site 1220, A13:14

Site 1221, A14:12

nitidus, *Gyroidinoides*, Site 1221, B7:34

nobilis, Discoaster
Site 1220, A13:13
Site 1221, A14:11–12
Site 1222, A15:8
nodifer, Dictyococcites, Site 1219, A12:15
nodifer, Discoaster
Site 1218, A11:14
Site 1221, A14:10
Site 1222, A15:7
Nodosaria monile, Site 1215, B7:17
Nodosaria sp., Site 1220, B7:17
nomas, Lophocyrtis
Site 1218, B4:2
Site 1219, B4:3
nomas, Lophocyrtis (Apoplanius), Site 1218, B5:25, 64
Nonion affine, Site 1218, B8:25
Nonion havanense
Site 1215, B7:32
Site 1218, B8:26
Site 1220, A13:15
Site 1221, B7:23
Nonion sp. 1, Site 1215, B7:23
Nuttallides florealis, Site 1221, A14:13
Nuttallides sp. 1, Site 1215, B7:30
Nuttallides sp. 2, Site 1221, B7:30
Nuttallides truempyi
Site 1215, A8:9–10; B7:3, 30
Site 1217, A10:11
Site 1218, A11:18
Site 1219, B21:29
Site 1220, A13:15–16; B7:3; B18:1–12
Site 1221, A14:13; B7:3, 30; B18:1–12
Nuttallides umbonifera
Site 1217, A10:10–11
Site 1218, A11:17; B8:3, 21; B19:1–13
Site 1219, A12:19; B8:3

O

oberhaensliae, Lophocyrtis (Sciadiaplepus), Site 1220, B5:27, 65
occlusa, Morozovella, Site 1219, A12:18
ocellus, Lithocyrtia, Site 1218, B5:42, 72; B24:7
octocameratus, Gyroidinoides, Site 1221, B7:33
octopylus, Acrocubus, Pacific Ocean N equatorial, B3:15, 24–25, 71
okadai, Discoaster
Site 1215, A8:8
Site 1221, A14:11
oligocena, Azpeitia, Site 1220, B6:25
ombros n.sp., *Dorcadospyrus*, Site 1218, B3:36, 72
opima nana, Paragloborotalia
Site 1218, A11:15–16
Site 1220, A13:13
opima opima, Paragloborotalia
Site 1218, A11:15–16
Site 1219, A12:17–18
Site 1220, A13:13
Oridorsalis plummerae
Site 1215, B7:29
Site 1220, B7:28

Site 1221, B7:29
Oridorsalis umbonatus
Site 1215, B7:28–29
Site 1218, A11:17–18, 50; B8:3, 21–22
Site 1219, A12:19; B8:3
Site 1220, A13:15–16; B7:3
Site 1221, B7:3
Site 1222, A15:8
ornatum, Cryptocarpium
Pacific Ocean N equatorial, B5:4
Site 1218, B5:5
Site 1219, B5:5
Site 1220, B5:6, 28, 66
ornatum, Rhopalocanium, Site 1219, B3:47, 75
Orthokarstenia brevispinosa, Site 1220, B7:17
Orthokarstenia clarki, Site 1221, B7:17
Orthorhabdus serratus
Site 1218, A11:11
Site 1219, A12:14
orthostylus, Tribrachiatus
Site 1215, A8:7
Site 1219, A12:16
Site 1220, A13:11
Site 1221, A14:11
orthotenes n.sp., *Thyrsocyrtis (Pentalacorys)*, Site 1220, B3:54–55, 75
Osangularia plummerae, Site 1221, B7:3
Osangularia velascoensis, Site 1215, A8:10
osloensis, Pullenia, Site 1218, B8:26
ouezzanensis, Aragonina, Site 1215, B7:18
ovalis, Cestodiscus, Site 1220, B6:24
ovalis, Globanomalina, Site 1221, A14:12
ovata, Dictyoprora, Site 1220, B5:17–18, 59
oxlophus, Dictyopodium, Site 1220, B5:25, 64
oxycona, Marssonella, Site 1215, B7:16

P

paleocenica, Clavatorella, Site 1220, A13:15
paleocenica, Parasubbotina, Site 1220, A13:14–15
paleocenica, Pleurostomella
Site 1215, B7:19
Site 1220, B7:3
paleocenica, Stilostomella, Site 1221, B7:17
paleocenica, Tritaxia, Site 1221, B7:15
Paleopleurostomella pleurostomelloides, Site 1215, B7:20
?panthera, Eucyrtidium, Site 1220, B5:23, 62
papalis, Podocyrtis (Podocyrtis), Site 1220, B3:46, 75; B5:29–30, 66
papilio, Dorcadospyrus, Site 1218, B3:37, 72
Paragloborotalia continuosa, Site 1218, A11:14–15
Paragloborotalia kugleri
Site 1218, A1:34; A11:14, 19
Site 1219, A12:17, 20
Paragloborotalia mayeri
Site 1218, A11:14
Site 1219, A12:16
Paragloborotalia nana
Site 1218, A11:16
Site 1219, A12:16, 18

- Paragloborotalia opima nana*
Site 1218, A11:15–16
Site 1220, A13:13
- Paragloborotalia opima opima*
Site 1218, A11:15–16
Site 1219, A12:17–18
Site 1220, A13:13
- Paragloborotalia pseudokugleri*, Site 1218, A11:15
- Paragloborotalia siakensis*, Site 1218, A11:14
- Paralabamina elevata*
Site 1215, B7:3, 31
Site 1220, B7:3
- Paralabamina lunata*
Site 1220, B7:25
Site 1221, B7:31
- Paralabamina* sp., Site 1221, B7:31
- Paralabamina* sp. 1
Site 1220, B7:32
Site 1221, B7:31
- Paralabamina* sp. 4, Site 1221, B7:32
- Parasubbotina* cf. *linaperta*, Site 1218, A11:16
- Parasubbotina griffinae*, Site 1218, A11:16
- Parasubbotina paleocenica*, Site 1220, A13:14–15
- Parasubbotina varianta*, Site 1217, A10:10
- parvula*, *Bulimina*, Site 1218, B8:20
- patagonica*, *Subbotina*
Site 1217, A10:10
Site 1220, A13:13–14
Site 1221, A14:12
- pelagicus*, *Coccolithus*
Site 1215, A8:7
Site 1217, A10:9
Site 1218, A11:13–14
Site 1219, A12:13, 15
Site 1220, A13:13
Site 1221, A14:10–11
Site 1222, A15:7–8
- peregrina*, *Stichocorys*, Site 1222, A15:8
- Periphaena decora*, Site 1218, B5:42–43, 72
- Periphaena triactis*
Pacific Ocean N equatorial, B5:4; B24:7
Site 1218, B5:5, 43, 72
Site 1219, B5:5
Site 1220, B5:6
- perisinos* n.sp., *Theocyrtis*, Site 1218, B3:52, 76
- perpumila* n.sp., *Theocyrtis*, Site 1219, B3:51, 75
- pertusus*, *Toweius*
Site 1219, A12:16
Site 1220, A13:11, 13
Site 1221, A14:12
Site 1222, A15:8
- petrushevskayae*, *Centrobotrys*, Site 1220, B5:20, 59
- petrushevskayae*, *Eurystomoskevos*, Site 1218, B5:38, 70
- petterssoni*, *Diartus*, Site 1218, A11:18
- Phormocyrtis striata striata* Interval Zone, Pacific Ocean N equatorial, B3:12
- Phormostichoartus marylandicus*, Site 1220, B5:18, 59
- pierinae*, *Axoprimum*, Site 1218, B5:39, 70
- pinguisicoides*, *Thyrsocyrtis* (*Thyrsocyrtis?*), Site 1220, B5:34, 61
- pirum*, *Dictyoprora*, Site 1219, B5:18, 59
- pirum* s.s., *Dictyoprora*, Site 1218, B3:32, 76
- Placentammima* sp., Site 1220, B7:14
- Placozygus sigmoides*
Site 1219, A12:16
Site 1222, A15:8
- plectopons*, *Zygodiscus*, Site 1221, A14:12
- plesiodiaphanes*, *Eucyrtidium*, Site 1219, B3:40, 74
- Pleurostomella clavata*, Site 1215, B7:19
- Pleurostomella paleocenica*
Site 1215, B7:19
Site 1220, B7:3
- Pleurostomella rimosa*, Site 1220, B7:19
- Pleurostomella* sp. A, Site 1218, B8:19
- Pleurostomella* sp. C, Site 1218, B8:19
- Pleurostomella* spp., Site 1219, A12:19
- Pleurostomella subcarinata*, Site 1220, B7:3
- Pleurostomella subnodosa*
Site 1215, B7:17
Site 1220, B7:19
- Pleurostomella velascoensis*
Site 1215, B7:17
Site 1220, B7:19
- pleurostomelloides*, *Paleopleurostomella*, Site 1215, B7:20
- plummerae*, *Oridorsalis*
Site 1215, B7:29
Site 1220, B7:28
Site 1221, B7:29
- plummerae*, *Osangularia*, Site 1221, B7:3
- plummerae*, *Stilostomella*, Site 1220, B7:17
- poagi*, *Abyssamina*
Site 1215, A8:9
Site 1217, A10:11
Site 1220, A13:15
- Podocyrtis chalara*
Site 1217, A10:11
Site 1221, A14:14
- Podocyrtis goetheana*, Site 1221, A14:15
- Podocyrtis* (*Lampterium*) *chalara*, Site 1220, A13:17; B5:29, 66
- Podocyrtis* (*Lampterium*) *chalara* Lineage Zone, Pacific Ocean N equatorial, B3:10; B24:5–6
- Podocyrtis* (*Lampterium*) *goetheana*
Site 1218, B5:29, 66
Site 1220, A13:17; B3:45, 75
- Podocyrtis* (*Lampterium*) *goetheana* Interval Zone, Pacific Ocean N equatorial, B3:9–10; B24:6
- Podocyrtis* (*Lampterium*) *mitra* Lineage Zone, Pacific Ocean N equatorial, B3:10; B24:5–6
- Podocyrtis mitra*
Site 1217, A10:11
Site 1221, A14:14
- Podocyrtis* (*Pentalacorys*) *triacantha* Interval Zone, Pacific Ocean N equatorial, B3:11
- Podocyrtis* (*Podocyrtis*) *papalis*, Site 1220, B3:46, 75; B5:29–30, 66
- Podocyrtis* (*Podocyrtoges*) *ampla*, Site 1217, B3:16
- Podocyrtis* (*Podocyrtoges*) *ampla* Lineage Zone, Pacific Ocean N equatorial, B3:10–11
- Podocyrtis* (*Podocyrtoges*) *diamesa*, Site 1220, B3:46, 75
- ponticula*, *Naviculopsis*, Site 1219, B9:7
- ponticula spinosa*, *Naviculopsis*, Site 1219, B9:7

praeacuta, *Valvalabamina*, Site 1215, B7:24
praeacutus, *Anomalinoidea*
 Site 1215, A8:9; B7:3
 Site 1220, A13:15; B7:3
 Site 1221, A14:13; B7:3
Praebulimina reussi, Site 1215, B7:22
Praebulimina sp., Site 1220, A13:16
praecentralis, *Subbotina*, Site 1215, A8:9
praedelescens, *Globoquadrina*, Site 1218, A11:14–15
praeforcipata, *Dorcadospyrus*, Site 1219, B3:37, 72
praemundulus, *Cibicoides*
 Site 1218, A11:17–18
 Site 1220, A13:15
praeturritilina, *Globoquadrina*, Site 1218, A11:15
prasaepis, *Globoquadrina*
 Site 1218, A11:15
 Site 1219, A12:16, 18
predistentus, *Sphenolithus*
 Site 1217, A10:9
 Site 1218, A11:13
 Site 1220, A13:11
 Site 1221, A14:10
primitiva, *Thalassiothrix* sp. cf. *Thalassiothrix*, Site 1220,
 B6:24
primordius, *Globigerinoides*, Site 1219, A12:17
primus, *Sphenolithus*
 Site 1219, A12:16
 Site 1220, A13:13
 Site 1221, A14:11
 Site 1222, A15:8
Prinsius bisulcus
 Site 1219, A12:16
 Site 1220, A13:13
 Site 1221, A14:11
 Site 1222, A15:8
prismatica, *Didymocortis*, Site 1220, B5:40–41, 71
prismaticum, *Pterocanium*, Site 1222, A15:8
profunda, *Quadriformina*
 Site 1215, B7:3, 26
 Site 1218, B8:24
 Site 1220, B7:3
prolixa, *Bulimina*, Site 1220, B7:21
proteus, *Trochamminoides*, Site 1216, A9:6
pseudocontinua, *Dentoglobigerina*, Site 1219, A12:17
Pseudodictyophimus sp. C, Site 1218, B5:20–21, 60
Pseudohastigerina wilcoxensis, Site 1219, A12:18
pseudoimitata, *Globanomalina*
 Site 1215, A8:8–9
 Site 1217, A10:10
 Site 1220, A13:13
pseudokugleri, *Paragloborotalia*, Site 1218, A11:15
pseudomenardii, *Globanomalina*, Site 1221, A14:12
pseudopapilio, *Dorcadospyrus*
 Site 1218, B3:37, 72
 Site 1220, B5:15–16, 58
Pseudoparrella exigua
 Site 1218, B8:3, 21
 Site 1219, B8:3
pseudoradians, *Sphenolithus*
 Site 1219, A12:15
 Site 1220, A13:11

Pseudotriquetrorhabdulus inversus, Site 1219, A12:15
Pterocanium prismaticum, Site 1222, A15:8
Pterocodon campanella, Site 1218, B5:38, 70
Pteropilium sp. aff. *Pterocanium contiguum*, Site 1219,
 B3:47, 75
ptomatus, *Thecospharella*, Site 1220, B5:38, 70
Pullenia bulloides, Site 1218, B8:26
Pullenia coryelli
 Site 1215, A8:9–10; B7:26
 Site 1217, A10:11
 Site 1220, A13:15; B7:4
 Site 1221, A14:13
Pullenia cretacea, Site 1215, B7:26
Pullenia jarvisi, Site 1221, B7:26
Pullenia osloensis, Site 1218, B8:26
Pullenia quinqueloba, Site 1218, B8:26
Pullenia salisburyi, Site 1218, B8:26
Pullenia sp. A, Site 1218, B8:26
Pullenia sp. B, Site 1218, B8:26
Pullenia spp.
 Site 1218, B8:3
 Site 1219, A12:19; B8:3
Pullenia subcarinata
 Site 1215, B7:3, 26
 Site 1218, A11:17–18; B8:26
punctocarinata, *Acarinina*, Site 1218, A11:16
puriri, *Theocorys*, Site 1219, B3:48, 74
pyramidalis, *Quadratobuliminella*, Site 1221, B7:22
pyramidata, *Gaudryina*, Site 1220, A13:16
pyramidata, *Tritaxia*, Site 1220, B7:16
Pyrulinoidea acuminatus, Site 1215, B7:17

Q

quadrata, *Abyssamina*
 Site 1215, A8:10, 26; B7:2–3, 26
 Site 1220, A13:15; B7:3
 Site 1221, A14:13; B7:3
quadrata, *Siphocampe*, Site 1220, B5:19, 59
Quadratobuliminella pyramidalis, Site 1221, B7:22
quadratus, *Gyroidinoides*, Site 1220, A13:15
Quadriformina profunda
 Site 1215, B7:3, 26
 Site 1218, B8:24
 Site 1220, B7:3
quadripes, *Dorcadospyrus*
 Site 1220, B3:37–38, 72; B5:16, 58
 Site 1222, A15:9
quetra, *Acarinina*
 Site 1219, A12:18
 Site 1220, A13:13
quinqueloba, *Pullenia*, Site 1218, B8:26

R

radians, *Lophophaena*, Site 1220, B5:20, 60
radians, *Sphenolithus*
 Site 1215, A8:7, 14
 Site 1218, A11:14
Recurvoides sp.
 Site 1220, A13:15

- Site 1221, A14:12
recurvus, *Isthmolithus*, Site 1218, A11:13
regina, *Corbisema*, Site 1221, B10:2
reticulatus, *Cestodiscus*, Site 1220, B6:25
Reticulofenestra dictyoda
 Site 1217, A10:9
 Site 1218, A11:14
 Site 1219, A12:15
Reticulofenestra gartneri, Site 1218, A11:13–14
Reticulofenestra umbilicus
 Site 1217, A10:9
 Site 1218, A11:13–14
 Site 1219, A12:15
 Site 1221, A14:10
 Site 1222, A15:7
reussi, *Praebulimina*, Site 1215, B7:22
Rhabdammina sp., Site 1220, B7:14
rhinoceros, *Lamprocyclus*, Site 1218, B5:28, 66
Rhizammina spp.
 Site 1220, A13:15
 Site 1221, A14:13
rhizodon, *Thyrsocyrtis* (*Thyrsocyrtis*), Site 1220, B5:34–35, 68
Rhomboaster cuspis, Site 1217, A10:10
Rhomboaster spp.
 Pacific Ocean N equatorial, A1:26
 Site 1220, A1:40; A13:11–12; A14:11
Rhomboaster spp.–*Discoaster araneus* association, Pacific Ocean equatorial, B1:19
Rhomboaster-Tribrachiatus lineage
 Site 1215, A8:7
 Site 1217, A10:9
 Site 1219, A12:16
 Site 1220, A13:12
 Site 1221, A14:11
Rhopalastrum sp. A, Site 1218, B5:43, 73
Rhopalastrum sp. B, Site 1220, B5:43, 73
Rhopalastrum (?) sp. C, Site 1218, B5:43–44, 73
Rhopalocanium, Site 1219, B3:47, 75
Rhopalocanium ornatum, Site 1219, B3:47, 75
Rhopalodictyum californicum, Site 1220, B5:45, 74
richardii, *Fasciculithus*
 Site 1215, A8:8
 Site 1220, A13:12–13
riedelii, *Dorcadospyrus*, Site 1219, B3:15, 38, 72
riedelii, *Heliolithus*, Site 1221, A14:11–12
rimosa, *Pleurostomella*, Site 1220, B7:19
robusta, *Calocyclus* (*Calocyclus*), Pacific Ocean N equatorial, B3:28, 75
robusta, *Ericsonia*
 Site 1215, A8:8
 Site 1221, A14:11
robustus, *Cestodiscus*, Site 1220, B6:25
Rocella gelida Range Zone, Site 1220, B6:5
Rocella semigelida, Site 1220, B6:24
Rocella vigilans, Site 1220, B6:24
Rocella vigilans Partial Range Zone, Site 1220, B6:4–5
rohri, *Acarinina*, Site 1218, A11:16
rohri, *Globoquadrina*, Site 1219, A12:16
Rossiella fennerae, Site 1220, B6:23
Rossiella fennerae Interval Zone, Site 1220, B6:5–6
Rossiella symmetrica, Site 1220, B6:24
rugosa, *Neoflabellina*, Site 1220, B7:19
rugosa, *Stilostomella*, Site 1215, B7:17
rugosus, *Triquetrorhabdulus*, Site 1218, A11:11
- S**
- Saccamina* sp., Site 1220, B7:14
saipanensis, *Dictyococcites*, Site 1219, A12:15
saipanensis, *Discoaster*
 Pacific Ocean N equatorial, A1:22
 Site 1218, A1:35; A11:4, 13–14
salisburyi, *Pullenia*, Site 1218, B8:26
Saracenaria midwayensis
 Site 1215, B7:34
 Site 1220, B7:19
scambos n.sp., *Dorcadospyrus*, Site 1219, B3:38–39, 73
schaubii, *Fasciculithus*
 Site 1215, A8:8
 Site 1220, A13:12–13
scrippsae, *Dictyococcites*, Site 1218, A11:13
sellii, *Globoquadrina*
 Site 1218, A11:15
 Site 1219, A12:17
selmensis, *Tappanina*
 Site 1215, B7:3, 18
 Site 1220, B7:3
semicostata, *Bulimina*, Site 1217, A10:11
semicibrata, *Linaresia*, Site 1221, B7:24
semicibrata, *Neoflabellina*, Site 1220, A13:16
semigelida, *Rocella*, Site 1220, B6:24
semireticulata, *Neoflabellina*
 Site 1220, A13:15
 Site 1221, A14:13
semitecta var. *terquemiana*, *Sigmomorphina*, Site 1221, B7:17
senni, *Muricoglobigerina*, Site 1218, A11:16
septemradiatus, *Discoaster*, Site 1219, A12:15
serrata, *Calocyclus* (*Calocyclus*), Pacific Ocean N equatorial, B3:15
serratus, *Orthorhabdus*
 Site 1218, A11:11
 Site 1219, A12:14
setanios n.sp., *Theocyrtis*, Site 1218, B3:52–53, 76
Sethochytris triconiscus, Site 1221, A14:14
Sethoperid sp. A, Site 1220, B5:21, 60
Sethoperid sp. B, Site 1220, B5:21, 60
siakensis, *Paragloborotalia*, Site 1218, A11:14
sibaiaensis, *Acarinina*
 Pacific Ocean N equatorial, A1:25
 Site 1220, A13:14
sigmoides, *Placozygus*
 Site 1219, A12:16
 Site 1222, A15:8
Sigmomorphina semitecta var. *terquemiana*, Site 1221, B7:17
signus, *Discoaster*
 Site 1218, A11:11
 Site 1219, A12:13
simplex s.s., *Dorcadospyrus*, Site 1219, B3:39, 73
Siphocampe acephala, Site 1217, A10:7

- Siphocampe quadrata*, Site 1220, B5:19, 59
Siphocampe sp. A, Site 1220, B5:19, 59
Siphocampe sp. aff. *Siphocampe acephala*, Site 1218, B5:18–19, 59
Siphonodosaria abyssorum
 Site 1218, A11:17–18
 Site 1219, A12:19
 Site 1220, A13:15
 Site 1222, A15:8
Siphonodosaria antillea, Site 1218, B8:19
Siphonodosaria spinata, Site 1218, B8:19
soldadoensis, *Acarinina*
 Site 1215, A8:8
 Site 1217, A10:10
 Site 1219, A12:18
 Site 1220, A13:13–14
 Site 1221, A14:12
soldanii, *Gyroidinoides*
 Site 1218, B8:22
 Site 1222, A15:8
solitus, *Chiasmolithus*
 Site 1215, A8:7
 Site 1218, A11:14
spatiosa, *Cycladophora*, Site 1220, B5:38, 70
spectabilis, *Spiroplectammina*
 Site 1218, B8:19
 Site 1220, B7:15
 Site 1221, A14:12
speculum speculum, *Dictyochoa*, Site 1219, B9:7
Sphaeroidina bulloides, Site 1218, B8:23
Sphenolithus abies, Site 1219, A12:13
Sphenolithus anarrhopus, Site 1215, A8:7
Sphenolithus celsus
 Site 1218, A11:13
 Site 1220, A13:11
Sphenolithus ciperoensis
 Site 1218, A11:12
 Site 1219, A12:14
Sphenolithus delphix
 Site 1218, A1:34; A11:4, 12–13, 19
 Site 1219, A1:38; A12:4–5, 14, 17, 20
Sphenolithus disbelemnus, Site 1218, A11:12
Sphenolithus distentus
 Site 1219, A12:14–15
 Site 1220, A13:11
Sphenolithus furcatolithoides, Site 1218, A11:14
Sphenolithus heteromorphus
 Site 1218, A11:12
 Site 1219, A12:13
Sphenolithus moriformis
 Site 1215, A8:7
 Site 1217, A10:9
 Site 1218, A11:13
 Site 1219, A12:15
 Site 1220, A13:11
 Site 1221, A14:10
 Site 1222, A15:7
Sphenolithus predistentus
 Site 1217, A10:9
 Site 1218, A11:13
 Site 1220, A13:11
 Site 1221, A14:10
Sphenolithus primus
 Site 1219, A12:16
 Site 1220, A13:13
 Site 1221, A14:11
 Site 1222, A15:8
Sphenolithus pseudoradians
 Site 1219, A12:15
 Site 1220, A13:11
Sphenolithus radians
 Site 1215, A8:7, 14
 Site 1218, A11:14
Sphenolithus tribulosus
 Site 1217, A10:9
 Site 1220, A13:11
 Site 1221, A14:10
sphinx, *Stichopilidium*, Site 1218, B5:31, 68
spinata, *Siphonodosaria*, Site 1218, B8:19
spinifera, *Favocassidulina*, Site 1218, B8:20
spinosa, *Dictyochoa*, Site 1221, B10:2
spinosa, *Dorcadospyrus*
 Site 1220, B3:15, 39, 73; B5:16, 58
 Site 1222, A15:9
spinosa, *Valvulina*
 Site 1218, B8:19
 Site 1221, B7:16
Spirocyrtis subtilis, Site 1218, B3:48, 76
Spiroplectammina jarvisi
 Site 1215, A8:10
 Site 1220, B7:15
Spiroplectammina sp. A, Site 1218, B8:19
Spiroplectammina spectabilis
 Site 1218, B8:19
 Site 1220, B7:15
 Site 1221, A14:12
Spiroplectammina subglabra, Site 1221, B7:15
spissiformis, *Anomalinoides*
 Site 1217, A10:11
 Site 1218, A11:18
 Site 1221, A14:13
spissiformis praeacuta, *Anomalinoides*, Site 1221, A14:13
Spongaster tetras tetras, Site 1222, A15:8
spongoconus, *Theocorys*
 Site 1218, B5:24–25, 65
 Site 1219, B3:48–49, 74
stella, *Lithocyclia* sp. aff. *Lithocyclia*, Site 1218, B5:42, 72
stenum, *Anthocyrtidium*, Site 1220, B5:27, 66
Stichocorys delmontensis, Site 1219, B4:3
Stichocorys delmontensis Interval Zone
 Pacific Ocean N equatorial, B3:7
 Site 1218, B4:2
Stichocorys peregrina, Site 1222, A15:8
Stichocorys wolffii, Site 1218, B4:2
Stichocorys wolffii Interval Zone, Pacific Ocean N equatorial, B3:6–7
Stichopilidium sphinx, Site 1218, B5:31, 68
Stichopilium ? microporum, Site 1219, B5:37, 70
Stichopilium ? sp. B, Site 1220, B5:37, 70
Stilostomella paleocenica, Site 1221, B7:17
Stilostomella plummerae, Site 1220, B7:17
Stilostomella rugosa, Site 1215, B7:17

- Stylosphaera coronata laevis*
 Pacific Ocean N equatorial, B5:4
 Site 1218, B5:5, 39–40, 70
 Site 1220, B5:6
- Stylosphaera goruna*, Site 1218, B5:40, 70
- subangulatus*, *Gyroidinoides*, Site 1215, B7:33
- Subbotina angioporoides*, Site 1218, A11:16
- Subbotina euapertura*
 Site 1218, A11:15–16
 Site 1219, A12:19
 Site 1220, A13:13
- Subbotina gortani*, Site 1218, A11:15
- Subbotina patagonica*
 Site 1217, A10:10
 Site 1220, A13:13–14
 Site 1221, A14:12
- Subbotina praecentralis*, Site 1215, A8:9
- Subbotina* sp., Site 1215, A8:9
- Subbotina triangularis*
 Site 1220, A13:13
 Site 1221, A14:12
- Subbotina utilisindex*
 Site 1218, A11:16
 Site 1220, A13:13
- Subbotina velascoensis*, Site 1221, A14:12
- subbotinae*, *Morozovella*
 Site 1215, A8:9
 Site 1217, A10:10
 Site 1219, A12:18
 Site 1220, A13:13–14
- subcarinata*, *Pleurostomella*, Site 1220, B7:3
- subcarinata*, *Pullenia*
 Site 1215, B7:3, 26
 Site 1218, A11:17–18; B8:26
- subcarinatus*, *Cibicidoides*, Site 1221, B7:27
- subfavus*, *Favocassidulina*, Site 1218, B8:20
- subglabra*, *Spiroplectammina*, Site 1221, B7:15
- subglobosa*, *Globocassidulina*
 Site 1218, B8:3, 20
 Site 1219, B8:3
- subligata*, *Lithocampe*
 Site 1218, B4:2
 Site 1219, B4:3
- sublodoensis*, *Discoaster*, Site 1219, A12:15
- subnodosa*, *Pleurostomella*
 Site 1215, B7:17
 Site 1220, B7:19
- subpertusa*, *Ericsonia*, Site 1215, A8:8
- subtilis*, *Spirocyrtis*, Site 1218, B3:48, 76
- suteri*, *Globoquadrina*, Site 1218, A11:15–16
- suteri*, *Globorotaloides*
 Site 1218, A11:14
 Site 1219, A12:18
- symmetrica*, *Rossiella*, Site 1220, B6:24
- Site 1221, A14:10
 Site 1222, A15:7
- Tappanina selmensis*
 Site 1215, B7:3, 18
 Site 1220, B7:3
- tapuriensis*, *Globoquadrina*
 Site 1218, A11:15–16
 Site 1219, A12:17–18
- tenuis*, *Cruciplacolithus*, Site 1219, A12:16
- Tenuitella clemenciae*
 Site 1218, A11:15
 Site 1219, A12:17
- Tenuitella?* sp., Site 1217, A10:10
- Tenuitella* spp.
 Site 1215, A8:8
 Site 1221, A14:12
- Tenutellinata angustumbilicata*
 Site 1218, A11:15–16
 Site 1219, A12:17
- tetracantha*, *Thyrsocyrtis*
 Pacific Ocean N equatorial, B5:4
 Site 1218, B5:5
 Site 1219, B5:5
 Site 1220, B5:5
- tetracantha*, *Thyrsocyrtis (Pentalocorys)*, Site 1218, B5:31–32, 68
- tetrapera*, *Cyrtocapsella*
 Site 1218, A1:34; A11:4; B4:2
 Site 1219, A12:20; B4:3
 Site 1220, A13:16
- tetras tetras*, *Spongaster*, Site 1222, A15:8
- tetrathalamus*, *Didymocyrtis*, Site 1222, A15:9
- Thalassiosira? bukryi*, Site 1220, B6:24
- Thalassiothrix* sp. cf. *Thalassiothrix primitiva*, Site 1220, B6:24
- Thalmanmammina* sp.
 Site 1220, A13:15
 Site 1221, A14:12
- Thecosphaera* sp. A, Site 1220, B5:38, 69
- Thecosphaera ptomatus*, Site 1220, B5:38, 70
- Theocamptra formaster*, Site 1220, B5:19–20, 59
- Theocorys bianulus*, Site 1218, B5:24, 63
- Theocorys puriri*, Site 1219, B3:48, 74
- Theocorys spongoconus*
 Site 1218, B5:24–25, 65
 Site 1219, B3:48–49, 74
- Theocorythium vetulum*, Site 1222, A15:9
- Theocotyle cryptocephala* Interval Zone, Pacific Ocean N equatorial, B3:11–12
- Theocotylissa ficus*, Site 1219, B3:49, 75
- Theocyrtis annosa*
 Site 1218, B3:50, 75; B4:2
 Site 1219, A12:20
- Theocyrtis careotuberosa* n.sp., Site 1218, B3:50–51, 75
- Theocyrtis perisinos* n.sp., Site 1218, B3:52, 76
- Theocyrtis perpumila* n.sp., Site 1219, B3:51, 75
- Theocyrtis setanios* n.sp., Site 1218, B3:52–53, 76
- Theocyrtis tuberosa*
 Site 1218, B5:30, 67
 Site 1219, A4:5; B3:53, 76; B5:5
 Site 1222, A15:9
- T**
- tanii*, *Dictyococcites*, Site 1219, A12:15
- tanii*, *Discoaster*
 Site 1217, A10:9
 Site 1218, A11:13–14

- Theocyrtis tuberosa* form A
Pacific Ocean N equatorial, B5:4
Site 1218, B5:5
Site 1219, B5:5
Site 1220, B5:6
- Theocyrtis* (?) *tuberosa* form A, Site 1218, B5:30, 67
Theocyrtis (?) *tuberosa* form B, Site 1218, B5:30–31, 67
- Theocyrtis tuberosa* group
Pacific Ocean N equatorial, B5:4
Site 1218, B5:5
- Theocyrtis tuberosa* Interval Zone, Pacific Ocean N equatorial, B3:8; B5:4
- thermophila*, *Centrobotrys*, Pacific Ocean N equatorial, B3:15, 30, 76
- Tholospyris anthophora*
Site 1218, B4:2
Site 1219, B4:3
- Thoracosphaera* spp.
Pacific Ocean N equatorial, A1:26
Site 1220, A13:12–13
- Thyrsocyrtis bromia* form A
Site 1218, B5:5
Site 1220, B5:6
- Thyrsocyrtis hirsuta*, Site 1216, A9:6
- Thyrsocyrtis lochites*
Site 1218, B5:5
Site 1219, B5:5
Site 1220, B5:6
- Thyrsocyrtis (Pentalocorys) orthotenes* n.sp., Site 1220, B3:54–55, 75
- Thyrsocyrtis (Pentalocorys) lochites*, Site 1220, B5:31, 68
- Thyrsocyrtis (Pentalocorys) tetracantha*, Site 1218, B5:31–32, 68
- Thyrsocyrtis (Pentalocorys) triacantha*, Site 1218, B5:32–33, 68
- Thyrsocyrtis* spp.
Pacific Ocean N equatorial, B5:4
Site 1218, B5:5
- Thyrsocyrtis tetracantha*
Pacific Ocean N equatorial, B5:4
Site 1218, B5:5
Site 1219, B5:5
Site 1220, B5:5
- Thyrsocyrtis (Thyrsocyrtis) bromia*, Site 1218, B5:33, 68
- Thyrsocyrtis (Thyrsocyrtis) bromia* form A, Site 1220, B5:33, 68
- Thyrsocyrtis (Thyrsocyrtis?) pinguisoides*, Site 1220, B5:34, 61
- Thyrsocyrtis (Thyrsocyrtis) rhizodon*, Site 1220, B5:34–35, 68
- Thyrsocyrtis triacantha*
Site 1217, A10:11
Site 1220, A13:17
- Toweius ?crassus*, Site 1220, A13:11
- Toweius eminens*
Site 1215, A8:8
Site 1220, A13:11, 13
Site 1221, A14:11–12
- Toweius pertusus*
Site 1219, A12:16
Site 1220, A13:11, 13
- Site 1221, A14:12
Site 1222, A15:8
- Toweius* spp., Site 1215, A8:7
- triacantha*, *Thyrsocyrtis*
Site 1217, A10:11
Site 1220, A13:17
- triacantha*, *Thyrsocyrtis (Pentalocorys)*, Site 1218, B5:32–33, 68
- triactis*, *Periphaena*
Pacific Ocean N equatorial, B5:4; B24:7
Site 1218, B5:5, 43, 72
Site 1219, B5:5
Site 1220, B5:6
- triangularis*, *Bulimina*, Site 1221, B7:21
- triangularis*, *Subbotina*
Site 1220, A13:13
Site 1221, A14:12
- Tribrachiatus bramelettei*
Site 1215, A8:7
Site 1217, A10:9–10
Site 1219, A12:16
Site 1221, A14:11
Site 1222, A15:8
- Tribrachiatus contortus*
Site 1215, A8:7
Site 1217, A10:9
Site 1219, A12:16
Site 1221, A14:11
- Tribrachiatus orthostylus*
Site 1215, A8:7
Site 1219, A12:16
Site 1220, A13:11
Site 1221, A14:11
- Tribrachiatus* spp., Site 1221, A14:11
- tribulosus*, *Sphenolithus*
Site 1217, A10:9
Site 1220, A13:11
Site 1221, A14:10
- triceros*, *Tricerospyrus*, Site 1219, A12:20
- triceros*, *Tristylospyrus*
Site 1218, A11:19
Site 1220, B3:56, 73
- Tricerospyrus triceros*, Site 1219, A12:20
- triconiscus*, *Sethochytris*, Site 1221, A14:14
- tridentatum*, *Lychnocanium*, Site 1220, B5:37, 69
- trigeminus* n.sp., *Naviculopsis*, Site 1219, B9:14–15, 28–29
- trihedra*, *Bulimina*, Site 1220, B7:3, 21
- triloba*, *Globigerinoides*, Site 1219, A12:17
- tripartita*, *Globoquadrina*
Site 1218, A11:15–16
Site 1219, A12:17–18
- tripodium*, *Lychnocanoma*
Pacific Ocean N equatorial, B5:4
Site 1218, B5:5
Site 1219, B5:5
Site 1220, B5:6
- tripodium* form A, *Lychnocanoma*, Site 1218, B5:36, 69
- tripodium* form B, *Lychnocanoma*, Site 1218, B5:37, 69
- tripodium* form C, *Lychnocanoma*, Site 1220, B5:37, 69
- Triquetrorhabdulus carinatus*
Site 1218, A11:12

Site 1219, A12:14
 Site 1220, A13:11
Triquetrorhabdulus milowii
 Site 1218, A11:12
 Site 1220, A13:11
Triquetrorhabdulus rugosus, Site 1218, A11:11
trispinosa, *Naviculopsis*, Site 1219, B9:15, 28
Tristylopyris triceros
 Site 1218, A11:19
 Site 1220, B3:56, 73
Tritaxia globulifera
 Site 1215, A8:10
 Site 1221, B7:15–16
Tritaxia paleocenica, Site 1221, B7:15
Tritaxia pyramidata, Site 1220, B7:16
Trochamminoides proteus, Site 1216, A9:6
trochoidea, *Globimorphina*, Site 1220, B7:22
trochoides, *Dorothia*
 Site 1215, A8:10
 Site 1221, A14:13
trochoides, *Marssonella*, Site 1221, B7:16
trochus, *Cestodiscus*, Site 1220, B6:24–25
truempyi, *Nuttallides*
 Site 1215, A8:9–10; B7:3, 30
 Site 1217, A10:11
 Site 1218, A11:18
 Site 1219, B21:29
 Site 1220, A13:15–16; B7:3; B18:1–12
 Site 1221, A14:13; B7:3, 30; B18:1–12
tubaria, *Didymocyrtis*, Site 1219, B3:15, 33, 71
tuberosa, *Theocyrtis*
 Site 1218, B5:30, 67
 Site 1219, A4:5; B3:53, 76; B5:5
 Site 1222, A15:9
tuberosa form A, *Theocyrtis*
 Pacific Ocean N equatorial, B5:4
 Site 1218, B5:5
 Site 1219, B5:5
 Site 1220, B5:6
tuberosa form A, *Theocyrtis* (?), Site 1218, B5:30, 67
tuberosa form B, *Theocyrtis* (?), Site 1218, B5:30–31, 67
tuberosa group, *Theocyrtis*
 Pacific Ocean N equatorial, B5:4
 Site 1218, B5:5
Turborotalia ampliapertura
 Site 1218, A11:16
 Site 1219, A12:18
turgidum, *Lychnocanoma*, Site 1219, B3:44, 74
turris, *Calocyclus*, Site 1218, B5:22, 62
tuxpamensis, *Bulimina*, Site 1220, A13:16; B7:21
tympaniformis, *Fasciculithus*
 Pacific Ocean N equatorial, A1:25
 Site 1215, A8:8
 Site 1217, A10:10
 Site 1220, A13:12–13
 Site 1221, A14:11

U

ulii, *Fasciculithus*, Site 1221, A14:11
umbilicus, *Reticulofenestra*

Site 1217, A10:9
 Site 1218, A11:13–14
 Site 1219, A12:15
 Site 1221, A14:10
 Site 1222, A15:7
umbonatus, *Oridorsalis*
 Site 1215, B7:28–29
 Site 1218, A11:17–18, 50; B8:3, 21–22
 Site 1219, A12:19; B8:3
 Site 1220, A13:15–16; B7:3
 Site 1221, B7:3
 Site 1222, A15:8
umbonifera, *Nuttallides*
 Site 1217, A10:10–11
 Site 1218, A11:17; B8:3, 21; B19:1–13
 Site 1219, A12:19; B8:3
unicavus, *Catapsydrax*
 Site 1218, A11:16
 Site 1219, A12:18
utilisindex, *Subbotina*
 Site 1218, A11:16
 Site 1220, A13:13

V

Valvalabamina depressa, Site 1215, B7:33
Valvalabamina praeacuta, Site 1215, B7:24
Valvalabamina sp. 1, Site 1221, B7:24
Valvalabamina sp. 2, Site 1220, B7:32
Valvalabamina spp.
 Site 1215, B7:24
 Site 1220, B7:3
Valvulina spinosa
 Site 1218, B8:19
 Site 1221, B7:16
variabilis, *Discoaster*
 Site 1218, A11:11
 Site 1219, A12:13
variata, *Parasubbotina*, Site 1217, A10:10
velascoensis, *Aragonina*
 Site 1215, A8:9–10
 Site 1217, A10:11
 Site 1220, A13:15
 Site 1221, A14:13
velascoensis, *Bulimina*, Site 1221, B7:21
velascoensis, *Morozovella*
 Site 1219, A12:18
 Site 1220, A13:13
 Site 1221, A14:12
velascoensis, *Osangularia*, Site 1215, A8:10
velascoensis, *Pleurostomella*
 Site 1215, B7:17
 Site 1220, B7:19
velascoensis, *Subbotina*, Site 1221, A14:12
venezuelana, *Globoquadrina*
 Site 1218, A11:14–15; B17:1–12
 Site 1219, A12:16
veniamini, *Bogorovia*, Site 1220, B6:23
vetulum, *Theocorythium*, Site 1222, A15:9
vigilans, *Rocella*, Site 1220, B6:24

W

weddellensis, *Alabaminella*, Site 1218, B8:23
wemmelensis, *Discoaster*, Site 1219, A12:15
whitei, *Lenticulina*
 Site 1215, B7:19
 Site 1220, A13:15
wilcoxensis, *Acarinina*, Site 1217, A10:10
wilcoxensis, *Chiloguembelina*
 Site 1215, A8:9
 Site 1219, A12:18
wilcoxensis, *Pseudohastigerina*, Site 1219, A12:18
wolburgi, *Falsoguttulina*, Site 1215, B7:18
wolffii, *Stichocorys*, Site 1218, B4:2

Y

yeguaensis, *Dentoglobigerina*, Site 1219, A12:16–17

Z

Zealithapium anoectum group, Site 1218, B5:44, 74
Zealithapium mitra group
 Site 1218, B5:44, 74
 Site 1220, B5:6
 zones (with letter prefixes)
 CN1a, Site 1219, A12:14
 CN3, Site 1218, A11:12
 CN3/CN4 boundary, A11:12; A12:13
 CN4, Site 1218, A11:11
 CN4–CN3 transition, Site 1218, A11:11
 CN5b, Site 1218, A11:11
 CP6, A11:11; A14:11
 CP7, Site 1215, A8:7
 CP8, A13:13; A14:11
 CP9, Site 1221, A14:11
 CP9a, A1:42; A13:11; A14:11; A15:8
 CP9a/CP9b boundary, A8:7; A12:16
 CP9b, A12:5, 16; A14:11
 CP12b/CP13a boundary, Site 1219, A12:15
 CP13, Site 1219, A12:15
 CP13/CP14a boundary, Site 1218, A11:2, 14
 CP14a, A11:2, 11; A12:15
 CP14b, Site 1219, A12:15
 CP15, Site 1222, A15:7
 CP16a, A1:21; A11:13
 CP16a+b, A12:15; A13:11; A14:10; A15:7
 CP16a+b/CP16c boundary, A11:13; A14:10
 CP16b, A1:21; A11:13
 CP16c, A1:35; A4:5; A11:4; A13:11; A15:7
 CP16c/CP17 boundary, A11:13; A14:10; A15:7
 CP17, A13:11; A14:10
 CP18, A4:6; A12:14–15; A13:11
 CP19a, Site 1220, A13:11
 CP19b, Site 1219, A12:14
 M1a, Site 1218, A11:14–15
 M1a–M3, Site 1218, A11:14
 M1b, A11:14; A12:17
 M2–M3, Site 1219, A12:17
 M2/M3 boundary, Site 1218, A11:14
 M2–M4, Site 1219, A1:37; A12:16
 M3, Site 1218, A11:15

M4, Site 1219, A12:17
 NN4, A11:11–12; A12:13
 NN5, A11:11; A12:13
 NN7, Site 1218, A11:11
 NN8, Site 1218, A11:11
 NP8, A1:28; A8:7–8; A14:11
 NP8/NP9 boundary, Site 1215, A8:8
 NP9, A1:28; A8:7–8; A10:9–10; A12:16; A13:13
 NP9/NP10 boundary, Site 1215, A8:7
 NP10, A1:28; A10:9; A12:16; A13:11; A14:11–12;
 A15:8
 NP10/NP11 boundary, A8:7; A12:16
 NP11, A1:28; A8:7; A14:11
 NP12, A1:28; A8:7
 NP14/NP15 boundary, Site 1219, A12:15
 NP15, Site 1219, A12:15
 NP16, Site 1218, A11:11, 14
 NP17, Site 1219, A12:15
 NP20, Site 1222, A15:7
 NP21, A1:21–22, 35; A11:4, 13; A12:15; A13:11;
 A14:10; A15:7
 NP21/NP22 boundary, A11:13; A14:10
 NP22, A13:11; A15:7; B3:17
 NP22/NP23 boundary, A11:13; A14:10; A15:7
 NP23, Site 1221, A14:10
 NP23/CP17–18, Site 1218, A11:13
 NP24, Site 1219, A12:14
 NP25, Site 1219, A12:14
 P4c–P7, Site 1215, A8:8
 P5, A8:9; A13:13
 P5–P6, Site 1221, A14:12
 P6, Site 1220, A13:14
 P6a, Site 1217, A10:10
 P6b, A8:9; A10:10
 P7, Site 1220, A13:13
 P11, Site 1218, A11:16
 P12, Site 1218, A11:16
 P15, Site 1217, A10:11
 P16/P18 boundary, Pacific Ocean N equatorial, A1:21
 P18/P19 boundary, Pacific Ocean N equatorial, A1:21
 P18/P19 zonal range, Site 1218, A11:16
 P19, A4:5; A11:16; A12:18
 P20, Site 1219, A1:37; A12:18
 P20–P21, Site 1219, A12:16
 P21, Site 1219, A1:37; A12:17–18
 P21a, Site 1218, A11:16
 P21b, A11:15–16; A12:17
 P21b/P22 boundary, Site 1219, A12:17–18
 P22, A4:5; A11:15
 RN1, A11:19; A12:20; A13:16; B3:7; B4:2–3
 RN1–RN20, Pacific Ocean N equatorial, B3:15
 RN2, B3:7; B4:2–3
 RN2/RN3 boundary, Site 1218, A11:19
 RN2–RN5, Pacific Ocean N equatorial, B3:15
 RN3, A12:20; B3:6–7
 RN3/RN4 boundary, Site 1218, A11:18
 RN4, A11:18; A12:20; B3:6, 15, 17
 RN5, A11:18; A12:19–20; B3:6
 RN6, A11:18; A12:19; B3:5
 RN7, Site 1218, A11:18
 RN10, Site 1222, A15:8

- RN12, Site 1222, A15:8
 RP7, A13:17; A14:13–14
 RP8, A13:17; B3:12
 RP9, A9:6; B3:12
 RP10, Pacific Ocean equatorial, B3:11–12
 RP11, A1:42; A9:6; A13:17–18; A14:14; B3:11
 RP12, A12:19–20; A13:17–18; A14:14; B3:11
 RP12–RP19, Pacific Ocean N equatorial, B3:15
 RP13, A9:6; A13:17; B3:10–11
 RP13/RP14 boundary, Site 1221, A14:14
 RP14, A10:11; A13:17; A14:14; B3:10; B24:5–6
 RP15, A10:11; A13:17; A14:15; B3:10; B24:5–6
 RP15/RP16 boundary, Site 1221, A14:14
 RP16, A13:17; A14:14–15; B3:9–10; B24:6
 RP17, A10:11–12; A11:19; A13:17; A14:14; B3:9; B5:4–6
 RP17/RP18 boundary, A10:11; B5:4–5
 RP18, A10:12; A11:19; A12:20; A13:17; A14:14, 17;
 A15:9; B3:9; B5:4–7
 RP18/RP19 boundary, B5:4–5
 RP19, A10:11; A12:20; A13:17; A14:13–14, 17; B3:9;
 B5:4–7
 RP19/RP20 boundary, B5:4–5
 RP20, A11:19; A13:16–17; A15:9; B3:8; B5:4–7
 RP21, A4:5; A11:19; A12:20; A13:16; A15:9; B3:8, 15;
 B4:2–3
 RP22, A11:19; A12:20; A13:16; A15:8; B3:7–8, 15–16;
 B4:2–3
Zygocircus cimelium, Site 1219, B3:56–57, 73
Zygodiscus plectopons, Site 1221, A14:12
Zygodiscus spp., Site 1220, A13:12
Zygrhablithus bijugatus, Pacific Ocean equatorial, B1:19