

INDEX TO VOLUME 189

This index covers both the *Initial Reports* and *Scientific Results* portions of Volume 189 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 1168, for example, is given as “Site 1168, A3:1–171.”

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

SUBJECT INDEX

A

- abyssal environment, benthic foraminifers, A6:33
- abyssal plains, deposition, A1:7
- acritarchs, biostratigraphy, A7:34
- advection, meteoric waters, A6:51
- age
 - Cretaceous–Cenozoic geochronologic divisions, B5:46
 - Eocene–Oligocene transition, A5:74
- age models
 - bioevents, A4:54; A7:129–130
 - biostratigraphy, A3:33–34; B1:4; B10:2–5
 - Cretaceous–Cenozoic, B3:5–6
 - early Oligocene–early Miocene, B9:1–21
 - Eocene–Oligocene transition, B4:5
 - late Eocene–Quaternary dinocysts, B2:4–5
 - Miocene, B13:3
 - sedimentation rates, A4:16–17; A5:35–36; A6:39–40; A7:36; B6:8–10; B10:8–10
- age vs. depth
 - Maastrichtian–Paleogene, B10:37
 - magnetostratigraphy, A5:38; A6:43; A7:38–39, 77; B9:12
 - Miocene, B13:7
 - Miocene biomagnetostratigraphy, B13:1
 - Neogene–Quaternary, B10:29, 32, 35, 38
 - Paleogene, B10:28, 31, 34
 - paleomagnetism, A5:85; A6:93, 98
 - Site 1168, A3:79; B1:32; B9:12; B10:27, 39–43
 - Site 1169, A4:31
 - Site 1170, A5:72; B1:32; B9:12; B10:30, 44–48
 - Site 1171, A6:89; B1:32; B9:12; B10:33, 49–56
 - Site 1172, A7:70; B1:32; B10:36
 - summary, A1:84
- Agulhas Retroflexion, paleoceanography, A1:13
- alkalinity
 - pore water, A3:43, 161; A4:20, 60; A5:47, 158; A6:51, 166; A7:44, 140
 - vs. depth, A3:93; A4:38; A5:92; A6:105; A7:84
- alteration, silicates, A7:45
- aluminum, sediments, B12:3, 7–12
- aluminum/titanium ratio
 - sediments, B12:3
 - vs. depth, B12:6
- amauroliths, sedimentation rates, B10:13
- ammonium
 - pore water, A3:43, 161; A5:47, 158; A6:51, 166; A7:44, 140
 - vs. depth, A3:93; A5:92; A6:105; A7:84
- anoxic environment, lithology, A3:18
- Antarctic Circumpolar Current
 - dinocysts, A5:34
 - Eocene–Oligocene transition, B1:13
 - gateway history, B1:17

- history, A1:1, 57–60; B1:21
 hydrography, A1:11
 Oligocene, B1:15
 antarctic environment, clay mineralogy, A5:18–19
 Antarctica
 comparison with Tasmanian Gateway, B1:16–17
 Cretaceous/Tertiary boundary, A1:66
 geology, A1:1–98
 ice sheets, B1:2
 tectonics, A1:46–49
 See also Australia–Antarctica Gateway
 apatite, lithologic units, A6:18
 Aquitanian
 dinocyst first and last occurrences, B5:40
 See also Chattian/Aquitian boundary
 aragonite
 biogenic component, B11:3
 vs. age, B11:9–12
 Australia, tectonics, A1:46–49
 Australia–Antarctica Gateway, Paleogene nannofossil
 biostratigraphy, B8:1–14
 Australo–Antarctic Gulf
 lower–middle Eocene, B1:11
 Neogene, B1:16
 paleoenvironment, B2:9–11
 Paleogene, B1:3
 rifting, A1:6–7; B1:2, 6–7, 19
 tectonics, A1:45–49
- B**
- Balleny Fracture Zone
 deposition, A6:19–21
 rift basins, A1:23
 barium
 sediments, B12:2–3, 7–12
 vs. depth, B12:5
 barium/titanium ratio
 sediments, B12:2–3
 vs. depth, B12:6
 Bartonian, dinocyst first and last occurrences, B5:37
 Bartonian/Priabonian boundary, sedimentation rates,
 B10:8–9, 15, 17
 basal sequence boundary, photograph, A6:86
 basement, continental, deposition, A1:7
 basement, drilling, A1:9–10
 Bass Strait, rifting, A1:6–7
 bathyal environment
 benthic foraminifers, A3:28; A6:33
 biostratigraphy, A6:27
 dinocysts, B3:11
 Eocene–Oligocene transition, A7:24–25
 foraminifers, A7:28
 Oligocene, B1:15, 21
 bathymetry
 continental rise, A1:7–8
 maps, B1:28
 offshore, A1:68
 bibliography, dinocyst biostratigraphy, B5:44–45
- bioclasts
 lithologic units, A3:10–11; A4:7–9; A6:13–14
 vs. depth, A3:67
 bioevents
 age diagnosis, A7:129–130
 age models, A4:54; A5:35–36
 ages, A3:150; A5:145–146
 biostratigraphic datums, B13:3
 chart, A6:154–155
 diatoms, A4:15; A5:29, 140; A6:150; A7:125
 dinocysts, A5:142; A6:153; B3:28–29; B4:9; B5:1–98
 Eocene–Oligocene transition, A5:73
 magnetostratigraphy, B10:3
 nannofossils, B7:22–23
 pelagic environment, B6:11
 sedimentation rates, A3:33–34
 biogenic component
 bulk mineralogy, B11:3
 Eocene–Oligocene transition, B1:14
 paleoenvironment, A3:18–21
 vs. depth, A4:29–30
 biogeography
 Cenozoic, B1:20
 dinocysts, B5:6–7
 biomagnetostratigraphic datums
 linear sedimentation plot, B6:23–24
 Oligocene–Miocene age models, B9:4
 biomagnetostratigraphy
 Miocene, B13:11
 Upper Cretaceous–Quaternary, B10:1–57
 biosiliceous component
 Oligocene, B1:16
 paleoenvironment, A5:16
 biostratigraphic datums
 age models, B9:12
 bioevents, B13:3
 dinocysts, A7:128
 foraminifers, A4:52
 magnetic reversals, B9:21
 nannofossils, A4:50; A5:119; A6:138; A7:112; B6:9
 Paleogene nannofossils, B8:14
 planktonic foraminifers, A5:126; A6:143; A7:119
 radiolarians, A5:135; A6:144; A7:120
 sedimentation rates, A3:33–34
 summary of nannofossil zones, B7:16
 biostratigraphy
 correlation, A6:91
 dinocysts, B4:8–10
 Eocene–Oligocene transition, A6:90
 late Eocene–Quaternary dinocysts, B2:1–36
 Miocene nannofossils, B7:1–39
 Neogene, A1:13
 Paleogene nannofossils, B8:1–14
 Quaternary nannofossils, B6:1–26
 Site 1168, A3:21–34
 Site 1169, A4:9–17
 Site 1170, A5:19–36
 Site 1171, A6:25–40
 Site 1172, A7:22–36

summary, A1:35–37
 vs. depth, A7:68

bioturbation
 cyclic processes, A6:21–22
 lithologic units, A3:10–15; A5:10–15; A6:14–19;
 A7:11–18
 lower–middle Eocene, B1:11
 paleoenvironment, A5:15–16
 photograph, A6:81, 84–85, 87; A7:63

bitumen, sediments, A3:41; A5:45

black sediments, photograph, A6:82

Bolboforma, biostratigraphy, A3:28–29; A4:13; A5:26–28;
 A6:32–34; A7:28–30

bottom water
 expansion, A1:56; B1:3
 ventilation, A1:34

brackish environment
 carbonate content, A3:38–39
 paleoenvironment, A6:47–48

Brazil–Malvinas Confluence, paleoceanography, A1:13

Bruce Bank, dinocysts, B4:14

Brunhes Chron
 remanent magnetization, A7:37
 sediments, A6:41

Brunhes/Matuyama boundary, long-core data, A5:37

bulk density logs, vs. depth, A3:113; A5:108; A6:120;
 A7:99

bulk mineralogy
 sediments, B11:1–34
 vs. age, B11:9

Burdigalian, dinocyst first and last occurrences, B5:40

Burdigalian/Langhian boundary, sedimentation rates,
 B10:10, 12, 15, 19

burrows
 lithologic units, A6:15, 18; A7:13, 15–16
 photograph, A6:81

butane
 sediments, A5:45, 156–157; A6:49
See also iso-butane; nona-butane

C

Calabrian. *See* Gelasian/Calabrian boundary

calcareous microfossils, Miocene, B13:1–12

calcite
 biogenic component, B11:3
 dissolution, A6:54
 vs. age, B11:9–12

calcite grains, lithologic units, A3:12

calcium
 comparison with methane, A6:106
 diffusion, A5:49
 geochemical zonation, A4:22
 pore water, A3:43–44, 161; A4:21, 60; A5:47–48, 158;
 A6:52, 166; A7:45, 140
 vs. depth, A3:94; A4:39; A5:93; A6:106; A7:85
 vs. lithium, A7:86
 vs. magnesium, A7:86
See also lithium/calcium ratio; strontium/calcium
 ratio

calcium/chloride ratio, vs. depth, A3:95

caliper logs, vs. depth, A3:109, 112; A5:105; A6:118;
 A7:96

Campanian
 dinocyst first and last occurrences, B5:30
 drift, A1:7
 seafloor spreading, A1:9

Campbell Plateau, tectonics, B1:6

Cape Adare region, glaciation, B1:21

carbon
 summary, A1:40–43
See also hydrogen/carbon ratio

carbon, inorganic, sediments, A3:154–157; A4:58;
 A5:150–153; A6:159–162; A7:134–137

carbon, total, sediments, A3:154–157; A4:58; A5:150–
 153; A6:159–162; A7:134–137

carbon, total organic
 sediments, A3:37–41, 154–159; A4:19–20, 58; A5:41–
 44, 150–153; A6:44–50, 159–162; A7:40–43,
 134–138
 vs. age, B9:19
 vs. carbonate content, A3:90
 vs. depth, A1:88; A3:87; A4:36; A5:87, 113; A6:100;
 A7:80; B9:17

carbon isotopes
 age models, B9:4–6
 Miocene foraminifers, B13:1–12
 vs. age, B9:19
 vs. depth, B9:13–15; B13:5–6

carbon/nitrogen ratio
 paleoenvironment, A3:19–21, 38–40
 sediments, A7:134–137
 vs. depth, A3:87; A4:19–20, 36; A5:41–44, 87; A6:46–
 47, 100; A7:80

carbon/sulfur ratio
 paleoenvironment, A3:18, 20–21, 38–40
 sediments, A7:40, 42, 134–137
 summary, A1:40
 vs. depth, A5:41–44, 88; A6:46–48, 101; A7:81

carbonate content
 age models, B9:5–6
 comparison with lightness, A5:70
 lithologic units, A3:10–15; A4:6–9, 19–20; A5:10–15,
 41–44; A6:12–19, 44–46; A7:11–18
 paleoenvironment, A5:15–16
 sediments, A3:37–39, 154–157; A4:58; A5:68–69, 150–
 153; A6:159–162; A7:40–42, 134–137
 summary, A1:41
 vs. age, B9:19
 vs. depth, A1:88; A3:60–65, 87, 96; A4:28–30, 36;
 A5:63–67, 70, 87; A6:68–74, 79–80, 100; A7:56–
 60, 80; B9:13–17
 vs. lightness, A3:66
 vs. total organic carbon, A3:90

carbonates
 deposition, A1:30–32
 diagenesis, A4:21
 dissolution, A3:44; A4:21; A6:30
 lithostratigraphy summary, A1:32–33
 Neogene, B1:18
 paleoenvironment, A1:22
 Paleogene, A1:55–56

- photograph, A6:76; A7:64
 recrystallization, A3:44; A4:21
 regional scale, A1:43–44
See also terrigenous–carbonate transition
 carbonates, pelagic, Eocene–Oligocene transition, B1:12
 Cascade Seamount guyot
 deposition, A1:8
 history, A1:48
 Cenomanian, dinocyst first and last occurrences, B5:26
 Cenozoic
 biomagnetostratigraphy, B10:1–57
 biostratigraphy, B1:4
 deposition, A1:6–10
 gateway history, B1:1–37
 geology, A1:1–98
 lithostratigraphy summary, A1:32–33
 ocean circulation, A1:57–60
 paleoenvironment, B1:4
 chalk, clay-bearing nannofossil, lithologic units, A7:14
 chalk, diatom-bearing nannofossil, lithologic units,
 A7:14
 chalk, foraminifer-bearing nannofossil, lithologic units,
 A6:13–14; A7:12–13
 chalk, lithologic units, A3:11; A6:13
 chalk, nannofossil
 lithologic units, A3:11–13; A5:12–13
 Oligocene, B1:15
 Chattian
 dinocyst first and last occurrences, B5:39
 See also Rupelian/Chattian boundary
 Chattian/Aquitainian boundary, sedimentation rates,
 B10:9, 12, 15
 chemical weathering, clay mineralogy, A5:17–19
 chloride
 comparison with methane, A6:104
 pore water, A3:42–43, 161; A4:20, 60; A5:46, 158;
 A6:50–51, 166; A7:43–44, 140
 summary, A1:42–43
 vs. depth, A1:89; A3:92; A4:37; A5:91; A6:104; A7:83
 See also calcium/chloride ratio; lithium/chloride ratio;
 magnesium/chloride ratio; potassium/chloride
 ratio; sodium/chloride ratio; strontium/chloride
 ratio
 chlorite
 terrigenous component, B11:4–5
 vs. age, B11:9–12
 vs. depth, A6:88
Chondrites, lithologic units, A3:12–14; A6:15, 18; A7:13,
 15–16
 chromaticity
 comparison with nannofossils and carbonate con-
 tent, A6:79–80
 vs. depth, A3:71, 73; A6:79–80
 See also lightness; reflectance
 Chron 1r.1n, remanent magnetization, A7:38
 Chron 11n, remanent magnetization, A7:38
 Chron 16n.2n, remanent magnetization, A7:38
 Chron 17n.1n, remanent magnetization, A7:38
 Chron 29R
 hiatuses, B3:8
 remanent magnetization, A7:39
 Chron C1n
 biostratigraphic datums, B6:10
 sediments, A6:41
 Chron C1r.1n
 remanent magnetization, A3:35
 sediments, A6:41
 Chron C2An.3n, sedimentation rates, B10:16, 19
 Chron C2n
 biostratigraphic datums, B6:9
 nannofossils, B6:4
 Quaternary nannofossils, B6:6–7
 remanent magnetization, A6:41
 sedimentation rates, B10:13, 19
 Chron C2r.1r, remanent magnetization, A6:41
 Chron C3An.1n, long-core data, A5:37
 Chron C3An.2n, long-core data, A5:37
 Chron C3n.3n, remanent magnetization, A7:37
 Chron C3n.4n, remanent magnetization, A7:37
 Chron C3r, long-core data, A5:37
 Chron C5A.4n, long-core data, A5:37
 Chron C5Acn, remanent magnetization, A6:42
 Chron C5ADn, remanent magnetization, A6:42
 Chron C5An.1n, remanent magnetization, A6:42; A7:37
 Chron C5An.2n, remanent magnetization, A6:42
 Chron C5Br, remanent magnetization, A3:35
 Chron C5Cn, remanent magnetization, A3:35
 Chron C5Cr, remanent magnetization, A3:35
 Chron C5Dn, remanent magnetization, A3:35
 Chron C5Dr, remanent magnetization, A3:35
 Chron C5En, remanent magnetization, A3:35
 Chron C5n, remanent magnetization, A3:35; A6:43;
 A7:37
 Chron C5n.2n
 remanent magnetization, A6:42
 sedimentation rates, B10:12–13
 Chron C6B, terranes, A1:9
 Chron C6Cn.2n
 age models, B9:4
 sedimentation rates, B10:12
 Chron C6Cn.3n, age models, B9:5
 Chron C6n, remanent magnetization, A3:35–36; A6:42
 Chron C7An, long-core data, A5:37
 Chron C7n.1n, long-core data, A5:37
 Chron C7n.2n, long-core data, A5:37
 Chron C10, dinocysts, B3:10
 Chron C10n.2n, sedimentation rates, B10:9
 Chron C11n, dinocysts, B4:12
 Chron C11n.2n, age models, B9:6
 Chron C12r
 dinocysts, B4:9
 remanent magnetization, A3:35
 Chron C13, terranes, A1:9
 Chron C13n
 dinocysts, A5:33; B4:7–9, 12–13
 sedimentation rates, B10:9
 Chron C13r, dinocysts, B4:10
 Chron C15, dinocysts, B4:10
 Chron C15n, dinocysts, B4:8, 10, 12
 Chron C15r, dinocysts, B4:11
 Chron C16, dinocysts, B4:10
 Chron C16n.1n, dinocysts, B4:10, 12

- Chron C16n.2n, dinocysts, B4:8, 10, 12
 Chron C16r.1r, dinocysts, B4:8, 10
 Chron C17n, dinocysts, B4:12
 Chron C17n.1n
 dinocysts, B4:8
 sedimentation rates, B10:15
 Chron C18n1n, dinocysts, B3:9
 Chron C20n, magnetostratigraphy, A5:38
 Chron C20r, remanent magnetization, A6:42
 Chron C21n
 magnetostratigraphy, A5:38
 remanent magnetization, A6:42
 Chron C21r, remanent magnetization, A6:42
 Chron C22n, sedimentation rates, B10:14
 Chron C24r, remanent magnetization, A6:42–43
 Chron C29n, sedimentation rates, B10:17
 Chron C29r, sedimentation rates, B10:17
 Chron C30, seafloor spreading, A1:9
 Chron C30n, sedimentation rates, B10:17
 Chron C33, drift, A1:7
 Chron C34, seafloor spreading, A1:9
 circumpolar currents, Eocene–Oligocene transition, B1:13
 Circumpolar Deep Water, Quaternary, B1:19
 clasts, mud, lithologic units, A3:13
 clasts, rip-up, lithologic units, A7:14
 clay
 lithologic units, A7:13–18
 photograph, A6:84
 sediments, A5:68–69
 vs. depth, A3:67; A6:75, 77–78; A7:61, 65
 clay lithologic units, sediments, A5:17–19, 71
 clay mineralogy
 clay lithologic units, A5:17–19, 71
 lithologic units, A3:15–17; A5:16–19, 71; A6:12–19; A7:19–21
 paleoclimatology, A1:34–35; A6:23–25
 paleoenvironment, A5:17–19; A6:23–25; A7:19–21
 review, B1:4
 sediments, A6:22–25; B11:27–34
 terrigenous component, B11:4–5
 vs. age, B11:9
 vs. depth, A3:77; A6:88; A7:69
 clay minerals
 siliciclastics, B11:3–6
 vs. age, B11:10–12
 See also mixed-layer minerals
 Clay Unit C1
 clay lithologic units, A5:17–19, 71
 clay mineralogy, A7:19–21
 Clay Unit C2
 clay lithologic units, A5:17–19, 71
 clay mineralogy, A7:19–21
 Clay Unit C3
 clay lithologic units, A5:17–19, 71
 clay mineralogy, A7:19–21
 Clay Unit C4
 clay lithologic units, A5:17–19, 71
 clay mineralogy, A7:20–21
 Clay Unit C5, clay mineralogy, A7:20–21
 clays
 diagenesis, A3:44
 lithologic units, A3:12; A5:11–12
 paleoenvironment, A5:15–16
 claystone
 lithologic units, A6:15; A7:16–18
 paleoenvironment, A6:20–21
 photograph, A6:83; A7:66–67
 claystone, diatomaceous, lithologic units, A6:14–15; A7:14–15
 claystone, diatomaceous silty, lithologic units, A7:15
 claystone, diatom-bearing, lithologic units, A7:14–15
 claystone, glauconite-bearing silty, lithologic units, A7:13–14
 claystone, glauconite-bearing silty diatomaceous, lithologic units, A7:13–14
 claystone, nannofossil
 lithologic units, A3:11–12
 photograph, A3:75
 claystone, nannofossil-bearing, lithologic units, A6:15–16; A7:12–15
 claystone, nannofossil-bearing diatomaceous silty, lithologic units, A6:14–15
 claystone, nannofossil-bearing silty, lithologic units, A3:13–14
 claystone, organic-bearing, lithologic units, A6:16
 claystone, organic-bearing silty, lithologic units, A3:14–15
 claystone, sandy, lithologic units, A3:13–14
 claystone, silty, lithologic units, A3:14–15; A5:13–15; A6:14–19; A7:16–18
 clinoptilolite
 biogenic component, B11:3
 vs. age, B11:9–12
 color bands
 lithologic units, A3:10–15
 photograph, A7:62
 color changes
 lithologic units, A6:12–19
 photograph, A4:32
 color cycles, lithologic units, A3:10–11; A7:15–18
 colorimetric coordinate b, vs. depth, A4:29–30
 composite depths
 sections, A3:152; A5:148; A6:43–44, 157; A7:132
 Site 1168, A3:36–37
 Site 1170, A5:39–40
 Site 1171, A6:43–44
 Site 1172, A7:39–40
 compressional wave velocity
 sediments, A3:46, 162–163; A4:23, 61; A5:50, 159–161; A6:55, 167–169; A7:46–47, 141–144
 three-dimensional measurements, A3:102
 vs. depth, A3:100–101; A4:44; A5:98–99; A6:111–112, 122; A7:89–90
 compressional wave velocity logs, vs. depth, A3:110, 115; A5:106, 111; A7:97, 101
 Coniacian, dinocyst first and last occurrences, B5:28
 continental blocks, gateways, A1:49–50; B1:7
 continental margin
 Cenozoic, A1:1–4

seafloor spreading, A1:7
subsidence, B1:4
continental rise, deposition, A1:7
continental shelf, deposition, A1:7
convoluted bedding, lithologic units, A3:12–13
continental slope, deposition, A1:7
cool environment, planktonic foraminifers, B10:3
cooling, Eocene–Oligocene transition, A7:24–25; B1:12
core–log correlation, lithologic units, A3:50–51; A7:49–50
coring
 magnetic experiments, A(appendix):3–7
 summary, A3:119–121
correlation
 composite depths, A5:39–40; A6:157
 dinocysts, B4:11–12; B5:5–6
 Eocene–Oligocene transition, B4:26
 lithologic units, A3:50–51
 magnetic susceptibility, B4:27
 nannofossil biostratigraphy, A6:91
 stratigraphic units, A1:82
cosmopolitan flora, Quaternary, B3:7
Cretaceous
 deposition, A1:6–10
 gateway history, B1:8–11
Cretaceous, Upper
 biomagnetostatigraphy, B10:1–57
 biostratigraphy, B1:4
 deposition, A1:6–10
 dinocysts, B3:1–48; B10:5
 dinocysts index events, B5:1–98
 gateway history, B1:1–37
 lithologic units, A7:16–18
 lithostratigraphy summary, A1:32–33
 planktonic foraminifers, A7:28
 sedimentation rates, B10:17–18
Cretaceous–Paleogene succession, movements, A1:75
Cretaceous/Tertiary boundary
 age models, B3:6
 dinocysts, A7:35
 hiatuses, B3:8
 paleogeography, A1:66
 photograph, A7:67
 sedimentation rates, B10:17–18
cross bedding, lithologic units, A3:13
cross sections, seismic profiles, A3:59
crust, continental, offshore, A1:7
crust, oceanic, seafloor spreading, A1:7
crustal thinning, gateway history, B1:8–11
cryosphere
 ice sheets, B1:2, 19
 lithologic units, A7:19
 lower Cenozoic, B3:13
current flows, Eocene–Oligocene transition, B1:14
cyclic processes
 glauconite, A6:21–22
 summary, A1:38–40

D

Danian
 dinocyst first and last occurrences, B5:32

 dinocysts, A7:35; B3:8
 hiatuses, B1:3; B3:8
 lithologic units, A7:16–18
 unconformities, B1:9
deep resistivity logs, vs. depth, A5:105; A7:96
deep waters
 currents, A1:5
 lithologic units, A7:18–19
Deflandrea phosphoritica group, vs. depth, A5:76
degradation, organic matter, A5:47
dehydration
 minerals, A6:51
 sediments, A5:46
deltaic environment, clay mineralogy, A3:16–21
demagnetization, alternating field, magnetometers, A(appendix):13
density
 sediments, A3:47; A4:64; A5:164–167; A6:56, 172–176; A7:48, 147–149
 summary, A1:38–40
density, dry bulk, sediments, A4:64
density, gamma-ray attenuation bulk
 comparison with undrained shear strength, A3:107; A5:49–50, 103
 vs. depth, A1:85; A3:45, 60–65, 86, 98; A4:22–23, 43; A5:51, 63–67, 86, 96; A6:54, 68–74, 99, 110; A7:79, 88
density, GRAPE, vs. depth, A7:56–59, 68
density, wet bulk
 sediments, A4:64
 vs. depth, A3:47, 98, 104; A4:22–23, 43, 48; A5:96, 101; A6:116; A7:88, 92
density logs
 vs. depth, A3:110, 112–114; A5:106; A6:118, 124; A7:97
 vs. gamma-ray logs, A6:123
 See also bulk density logs
density porosity logs, vs. depth, A3:114; A5:109; A6:121
depocenters, Cretaceous, A1:7
deposition
 Cretaceous–Cenozoic, A1:6–10
 evolution, A5:75
 paleoenvironment, A1:26–27
 ventilation, A6:19–21
diachroneity, nannofossils, B6:12
diagenesis
 carbonates, A4:21
 clays, A3:44
 opal-CT, A3:45; A6:53; A7:45
diatoms
 abundance, A7:121–124
 bioevents, A5:29, 140; A6:150; A7:125
 biostratigraphy, A1:36; A3:30–31; A4:14–15; A5:29–30; A6:35–36; A7:31–32
 distribution and abundance, A3:143–144
 Eocene, B10:3
 Eocene–Oligocene transition, A5:74; B1:15
 lithologic units, A4:7; A5:11–12; A6:12–15
 Maastrichtian–middle Eocene, B10:3
 Neogene, B1:18
 neritic environment, B10:4

paleoenvironment, A5:16
relative abundance, A4:53; A5:136–139; A6:145–149
sediments, A5:68–69
upper Eocene, B1:12
vs. depth, A5:76; A6:75, 77–78; A7:61, 65
vs. dinocysts, A5:76
diatoms, holoplanktonic, Oligocene–Quaternary, B10:4
diffusion
 ions, A5:47–48
 siliciclastics, A5:49
Dinocyst association 1, Eocene–Oligocene transition, B4:11
Dinocyst association 2, Eocene–Oligocene transition, B4:11
dinocysts
 age-diagnostic bioevents, A3:149; A4:56
 Aquitanian–Burdigalian first and last occurrences, B5:40
 Bartonian–Priabonian first and last occurrences, B5:37
 bioevents, A5:142; A6:153; B3:28–29; B4:9; B5:1–98
 biostratigraphy, A3:31–32; A5:31–32; B4:8–10
 Campanian first and last occurrences, B5:30
 Cenomanian first and last occurrences, B5:26
 Chattian first and last occurrences, B5:39
 Coniacian first and last occurrences, B5:28
 Cretaceous–Cenozoic stratigraphic range, B5:43
 Cretaceous/Tertiary boundary, A7:35
 Danian first and last occurrences, B5:32
 datums, A7:128
 distribution, A4:55; A5:141, 143–144; A6:151–152; A7:126–127
 Eocene–Oligocene transition, A7:33–34; B4:1–42
 Eocene–Quaternary, B10:5
 Langhian–Serravallian–Tortonian–Messinian first and last occurrences, B5:41
 late Eocene–Quaternary, B2:1–36
 latest Cretaceous–earliest Oligocene and Quaternary, B3:1–48
 Lutetian first and last occurrences, B5:36
 Maastrichtian first and last occurrences, B5:31
 Oligocene, B1:16
 organic matter, A5:43
 paleoecology, B4:13–15
 paleoenvironment, A6:39; A7:35; B2:9–11; B3:11–12
 photograph, A7:67
 Pliocene–Pleistocene–Holocene first and last occurrences, B5:42
 Quaternary, B10:3
 review, B1:5
 Rupelian first and last occurrences, B5:38
 Santonian first and last occurrences, B5:29
 Selandian–Thanetian first and last occurrences, B5:33
 Turonian first occurrences, B5:27
 Upper Cretaceous–middle Eocene, B10:5
 vs. depth, A5:77; B2:20
 vs. diatoms, A5:76
 Ypresian first occurrences, B5:34
 Ypresian last occurrences, B5:35
 See also phototrophic dinoflagellates

dinoflagellates
 biostratigraphy, A1:36–37
 distribution, A3:145–148; A5:141, 143–144
 review, B1:5
 See also phototrophic dinoflagellates
disconformities, Danian, B1:9
dissociation, gas hydrates, A6:51
dissolution
 bioevents, A3:33–34
 calcite, A5:47–48; A6:54
 carbonates, A3:44; A4:21; A6:30
 Cenozoic, B1:21
 Eocene–Oligocene transition, B1:12
 lower–middle Eocene, B1:10
 vs. depth, B9:18
dolomite
 siliciclastics, B11:3–4
 vs. age, B11:9–12
“doubthouse” effect
 Oligocene–lower Miocene, A1:16, 30
 sedimentation, B1:4
downhole measurements
 Site 1168, A3:47–52
 Site 1170, A5:52–55
 Site 1171, A6:56–60
 Site 1172, A7:48–50
drainage basins, clay mineralogy, A3:16–17
Drake Passage
 Cenozoic, A1:4; B1:7
 Eocene–Oligocene transition, B1:13
 opening, B1:21

E

East Antarctic cryosphere, development, A1:5
East Australian Current
 hydrography, A1:11, 59
 Neogene, B1:16
 paleoceanography, A1:2–3, 13
 Quaternary, B1:19
 Quaternary nannofossils, B6:8
East Tasman Plateau
 deposition, A1:8
 dinocysts, B3:1–48; B4:25
 history, A1:48
 lithofacies, B1:30–31
 lithostratigraphy summary, A1:32–33
 Miocene calcareous microfossils, B13:1–12
 site description, A7:1–149
 tectonics summary, A1:33
East Tasman Saddle, deposition, A1:8
Eastern Highlands, uplifts, A1:7
environment, sedimentation, A1:33–34
Eocene
 benthic foraminifers, A5:27
 biostratigraphy, A6:27
 bulk mineralogy, B11:3–6
 deposition, A6:19–21
 diatoms, A7:31
 dinocysts, A5:31–35
 geology, A1:2

- lithologic units, A5:12–15; A7:14–16
- mudstone, B1:3
- nannofossils, A5:21–22; A7:26
- oscillations in carbonate and lightness, A5:70
- paleoenvironment, A1:50–53; A5:16
- planktonic foraminifers, A5:26
- progradation, A1:7
- sediment geochemistry, B12:2–3
- sedimentation rates, B10:14–15, 17–18
- siliciclastics, A1:23
- stratigraphy, A1:11–12
- See also* Maastrichtian–Eocene sequence; Paleocene/Eocene boundary; Paleocene/Eocene Thermal Maximum; Paleocene–Eocene transition
- Eocene, lower
 - dinocysts, A7:35
 - planktonic foraminifers, A6:32
- Eocene, lower–middle
 - dinocysts, B3:8–9; B10:5
 - palynomorphs, B1:10
 - siliciclastics, B1:9–10
- Eocene, lower/middle boundary
 - age models, B3:6
 - sedimentation rates, B10:14, 17
- Eocene, middle
 - biostratigraphy, A5:20
 - chromaticity, A6:79–80
 - clay mineralogy, A5:17–19
 - dinocysts, A3:32; A5:32; A6:38; A7:34
 - gateways, B1:34–35
 - illite, A6:24
 - lithologic units, A6:14–17
 - ocean circulation, A1:90
 - paleogeographic maps, A1:71
 - photograph, A7:66
 - radiolarians, A5:29; A7:31
 - sedimentation rates, A5:36; B10:8, 12
 - smectite, A6:24
 - stratigraphy, A6:21–22
 - See also* Maastrichtian–middle Eocene
- Eocene, middle–upper
 - dinocysts, A6:37; B2:6–7
 - gateway history, B1:8–11
 - planktonic foraminifers, biostratigraphy, A6:32; A7:28
 - sedimentation rates, B10:11–12
- Eocene, middle/upper boundary
 - biostratigraphy, A7:24
 - deposition, A1:31–32
 - radiolarians, A7:31
 - sedimentation rates, B10:8–9, 15, 17
 - tectonics, B1:7
- Eocene, upper
 - benthic foraminifers, A3:28
 - biostratigraphy, A3:23
 - diatoms, B10:3
 - dinocysts, A3:32; B2:1–36; B3:9–10
 - gateway history, B1:11–15
 - hiatuses, B1:3
 - kaolinite, A3:16–17
 - lithologic units, A3:14–15; A6:14–15
 - neritic environment, B10:4
 - paleogeography and paleoenvironment, A3:78
 - radiolarians, B10:3
 - sedimentation rates, B10:8–9, 18
 - sporomorphs, A3:33
 - See also* Maastrichtian–late Eocene Greenhouse period
- Eocene/Oligocene boundary
 - age models, B3:6
 - benthic foraminifers, A5:26–27
 - biostratigraphy, A3:23; A7:23
 - diatoms, A6:35
 - dinocysts, B5:5–6
 - gateways, B1:34–35
 - magnetic polarity, B10:6
 - magnetostratigraphy, A1:37; A7:38–39
 - nannofossils, A3:24; A5:21
 - paleoenvironment, A1:22, 26–27, 32; A3:20; A5:16
 - paleogeographic maps, A1:72
 - planktonic foraminifers, A3:28; A5:26; A6:32; A7:28
 - radiolarians, A7:30
 - remanent magnetization, A7:38
 - sediment geochemistry, B12:2–3
 - sedimentation rates, A5:35–36; B10:9, 11, 15, 18
 - siliciclastics–carbonates transition, A1:55
 - tectonics, B1:7
 - warm-temperate environment, B3:13
- Eocene–Oligocene transition
 - age interpretations, A5:74
 - age models, B9:7
 - bioevents, A5:73
 - biostratigraphy, A5:20; A6:26, 90
 - correlation, B4:26
 - dinocysts, A5:33–34; A6:37–38; A7:33–34; B3:10; B4:1–42
 - gateways, B1:12–15
 - “glauconitic unit,” A7:33–34
 - lithologic units, A7:18–19
 - nannofossils, A6:28; A7:25–26
 - paleoclimatology, A7:24–25
 - paleoenvironment, A1:53–55; A7:24–25; B10:4
 - palynology, B3:26
 - palynomorphs, A7:32
 - photograph, A6:76
 - sedimentation rates, A6:21
 - stratigraphic compilation, A7:68
- erosion, Eocene, A6:24
- estuarine environment, Neogene, B1:17
- ethane
 - sediments, A3:40–42, 158–160; A5:156–157; A6:49–50, 165; A7:42–43, 139
 - See also* methane/ethane ratio; methane/ethane + propane ratio
- euphotic environment, lower–middle Eocene, B1:11
- eutrophic environment
 - dinocysts, A6:39; A7:35
 - lower–middle Eocene, B1:10
 - paleoenvironment, A5:34
- extension, plate tectonics, A1:8–9

F

- faults. *See* microfaults; strike-slip faults; transform faults
- feldspar
 - siliciclastics, B11:3–6
 - vs. age, B11:9–12
- fluid movement, sediments, A5:46
- fluid-escape structures
 - lithologic units, A3:12–13
 - photograph, A3:75
- fluvial environment, deposition, A1:6
- foraminifer organic linings
 - biostratigraphy, A3:32–33; A7:34
 - distribution, A4:55; A5:141
- foraminifers
 - biostratigraphy, A1:35–37
 - Eocene–Oligocene transition, A5:74
 - lithologic units, A5:11–15; A6:12–14; A7:11–15
 - principal results, A1:14–15, 30–32
 - sediments, A5:68–69
 - vs. depth, A3:67; A6:75, 77–78; A7:61, 65
- foraminifers, benthic
 - biostratigraphy, A3:28–29; A4:13; A5:26–28; A6:32–34; A7:28–30
 - Miocene, B13:1–12
 - paleodepth, A6:92
 - upper Eocene, B1:12
 - vs. depth, A3:80; A4:33; A5:75
- foraminifers, planktonic
 - bioevents and ages, A3:132
 - biostratigraphy, A3:25–28; A4:11–12; A5:22–26; A6:29–32; A7:26–28
 - datum core depths, A6:143
 - datums, A4:52; A5:126; A7:119
 - Miocene, B13:1–12
 - range chart, A3:133–140; A4:51; A5:127–134; A6:139–142; A7:113–118
- Formation Microscanner imagery, vs. depth, A5:110
- frontal movements, lithologic units, A7:19

G

- gamma rays
 - summary, A1:38–40; B1:30
 - vs. depth, A5:97
- gamma-ray logs
 - power spectra, A5:112
 - vs. density logs, A6:123
 - vs. depth, A1:87; A3:109, 111; A5:105, 107; A6:119, 125; A7:96, 98
- gas hydrate stability zone
 - sediments, A3:42–43, 51–52; A7:44
 - summary, A1:43
- gas hydrates
 - dissociation, A5:46; A6:51; A7:44
 - sediments, A3:41, 51–52
 - well-logging, A3:51–52
- gases, headspace, sediments, A4:59; A5:156–157; A6:165; A7:139
- gateways
 - continental blocks, A1:49–50

- Eocene–Oligocene transition, B1:12–15
- opening, A1:53–55; B1:11–15
- See also* Australia–Antarctica Gateway
- Gauss Chron
 - long-core data, A5:37
 - remanent magnetization, A6:41; A7:37
 - sedimentation rates, B10:16, 19
- Gelasian/Calabrian boundary, sedimentation rates, B10:16
- geochemical facies, summary, A1:40–43
- geochemical zonation
 - calcium, A4:22
 - potassium, A4:22
- geochemistry
 - review, B1:5
 - sediments, B12:1–13
 - summary, A1:40–43
- geochemistry, inorganic
 - Site 1168, A3:42–45
 - Site 1169, A4:20–22
 - Site 1170, A5:46–49
 - Site 1171, A6:50–54
 - Site 1172, A7:43–45
- geochemistry, organic
 - Site 1168, A3:37–42
 - Site 1169, A4:19–20
 - Site 1170, A5:40–45
 - Site 1171, A6:44–50
 - Site 1172, A7:40–43
- geothermal gradient
 - gas hydrate stability zone, A3:42–43
 - sediments, A6:55–56; A7:47
 - vs. depth, A6:114
- gephyrocapsids, gateways, B1:19
- glaciation
 - Cenozoic, A1:58–59
 - gateway history, B1:9
 - gateways, B1:34–35
 - upper Eocene, B1:12
- glacioeustasy, lower–middle Eocene, B1:10
- glaucinite
 - cyclic processes, A6:21–22
 - lithologic units, A3:14–15; A5:43; A6:13–19; A7:13–18
 - paleoenvironment, A3:20; A6:20–21
 - photograph, A6:81, 84–85
 - sedimentation, A1:53–54
 - sediments, A5:69
 - terrigenous component, B11:4–5
 - upper Eocene, B1:12
 - vs. depth, A6:75, 77–78; A7:65, 68; B9:18
- glaucinite grains, lithologic units, A7:16–18
- “glaucinitic unit,” dinocysts, A7:33–34
- Gondwana
 - Late Cretaceous, B1:33
 - Upper Cretaceous, A1:70
- gonyaulacoid species
 - paleoecology, B4:14
 - See also* peridinioid/gonyaulacoid ratio
- Great Australian Bight
 - bioevents, B6:11–12
 - plate tectonics, A1:8

green sands, sedimentation, A1:53–54
“greenhouse” effect
 Late Cretaceous–Cenozoic, B1:4, 20
 upper Eocene, A1:16, 30
gypsum
 siliciclastics, B11:3–6
 vs. age, B11:9–12

H

heat flow
 sediments, A3:46–47; A5:51; A6:55–56; A7:47
 vs. depth, A6:114
heterotrophic dinoflagellates, paleoenvironment, A5:34
hexane
 sediments, A5:45, 156–157; A6:49
 See also iso-hexane; nona-hexane
hiatuses
 age models, B9:8
 biostratigraphy, A1:35–37, 53–55; A5:20
 clay mineralogy, A5:18–19
 Cretaceous/Tertiary boundary, B3:8
 Danian, B1:3
 dinocysts, A5:32
 lithologic units, A4:8
 lower Pliocene/upper Miocene, A6:30
 lower/middle Eocene boundary, A7:36
 Miocene/Pliocene boundary, A6:25
 nannofossils, A4:11; A5:21–22; A6:29
 Oligocene, B1:3
 Oligocene/Miocene boundary, B1:6
 paleoenvironment, A3:19; A5:16
 planktonic foraminifers, A5:23–25
 Pleistocene, B6:11
 remanent magnetization, A7:37
 sedimentation rates, A4:16–17; A6:40; B10:19
 upper Eocene, B1:11
 See also disconformities; Marshall Paraconformity; paraconformities; unconformities
Holocene
 dinocyst first and last occurrences, B5:42
 lithologic units, A5:10–11; A6:12; A7:11–12
humid environment, clay mineralogy, A3:16–17
hydrocarbons
 sediments, A3:158–160; A5:154–155
 summary, A1:42
hydrocarbons, liquid, sediments, A3:41
hydrocarbons, volatile, sediments, A3:40–42; A4:20;
 A5:44–45; A6:49–50; A7:42–43
hydrogen, sediments, A3:154–157; A4:58; A5:150–153;
 A6:159–162; A7:134–137
hydrogen/carbon ratio, vs. depth, A5:41, 87
hydrogen index
 sediments, A3:38, 158–159; A5:41, 154–155; A6:45,
 47, 163–164; A7:41, 138;
 vs. depth, A5:87; A6:100; A7:80
hydrography
 age models, B9:8
 ocean circulation, A1:10–11

I

ice sheets
 Cenozoic, A1:13
 cryosphere, B1:2
 Quaternary, B1:19
ice volume, sealevel changes, A1:67
“icehouse” effect
 middle Miocene–Holocene, A1:16, 30
 sedimentation, B1:4, 21
illite
 lithologic units, A5:17–29, 71
 paleoclimatology, A1:34–35
 paleoenvironment, A3:15–17
 terrigenous component, B11:4–5
 vs. age, B11:9–12
 vs. depth, A3:77; A6:22–25, 88; A7:69
index events, dinocysts, B5:1–98
index properties, sediments, A3:166–170; A4:64;
 A5:164–167; A6:172–176; A7:147–149
instruments, magnetic experiments, A(appendix):3–7
iron, sediments, B12:3, 7–12
iron/titanium ratio
 sediments, B12:3
 vs. depth, B12:6
iso-butane, sediments, A5:156–157
iso-hexane, sediments, A5:156–157
iso-pentane, sediments, A5:156–157
isotope events. *See* Mi-1 isotope event; Mi-1a isotope
 event; Oi-1 isotope event; Oi1b isotope event;
 Oi2b isotope event
isotope stratigraphy, Cretaceous–Cenozoic, B10:6–7

J

Jaramillo Subchron
 long-core data, A5:37
 remanent magnetization, A6:41; A7:37
Jurassic, Upper, plate tectonics, A1:8

K

kaolinite
 lithologic units, A5:17–19, 71
 paleoclimatology, A1:34–35
 paleoenvironment, A3:15–17
 terrigenous component, B11:4–5
 upper Eocene, A3:16–17; B1:11
 vs. age, B11:9–12
 vs. depth, A3:77; A6:22–25, 88; A7:69
kerogen, sediments, A3:158–159

L

lacustrine environment, deposition, A1:6
laminations, lithologic units, A3:11–15; A5:11–15;
 A6:13–14; A7:16–18
land bridges, geology, B1:20–21
Langhian
 dinocyst first and last occurrences, B5:41
 See also Burdigalian/Langhian boundary

Last Glacial Maximum, Quaternary, B1:19

lightness

- comparison with carbonate content, A5:70
- lithologic units, A4:6–9; A5:10–15; A7:11–18
- power spectra, A3:70, 74
- vs. carbonate content, A3:66
- vs. depth, A3:60–65, 69, 72; A4:28; A5:63–67, 70, 86; A6:68–74, 99; A7:56–60, 68

See also chromaticity; reflectance; reflectivity

limestone, lithologic units, A5:14–15; A6:20

lithic fragments, vs. depth, A6:75

lithification, photograph, A7:64

lithium

- diffusion, A5:49
- pore water, A3:43–44, 161; A4:21, 60; A5:48, 158; A6:52, 166; A7:45, 140
- vs. calcium, A7:86
- vs. depth, A1:89; A3:94; A4:39; A5:93; A6:106; A7:85

lithium/calcium ratio, vs. depth, A6:106

lithium/chloride ratio, vs. depth, A3:95

lithofacies

- gamma rays, B1:30
- gateway history, B1:8–11
- sedimentation, A1:6
- summary, A1:83

lithologic units

- core–log correlation, A7:49–50
- principal results, A1:14–17, 24–25, 29–30
- Site 1168, A3:10–15
- Site 1169, A4:6–9
- Site 1170, A5:10–15, 118
- Site 1171, A6:12–19
- Site 1172, A7:11–19
- Unit I, A3:10–11; A4:6–8; A5:10–11; A6:12–13; A7:11–13
- Unit II, A3:11–13; A5:11–12; A6:13–14; A7:13–14
- Unit III, A3:13–14; A5:12–13; A6:14; A7:14–15
- Unit IV, A3:14; A5:13; A6:14–15; A7:16–18
- Unit V, A3:14–15; A5:13–15; A6:15–17
- Unit VI, A6:17–19

lithology

- suboxic environment, A3:18–19
- summary, A1:81; A5:118
- vs. depth, A3:60; A5:63–67; A6:68–74; A7:56–60

lithostratigraphy

- Site 1168, A3:8–21
- Site 1169, A4:6–9
- Site 1170, A5:9–19
- Site 1171, A6:10–25, 129
- Site 1172, A7:10–21
- summary, A1:32–33; A4:28; A7:105
- vs. depth, A3:61–65

Lord Howe Rise

- paleoclimatology, A1:34–35
- tectonics, B1:6

luminance. *See* lightness

Lutetian

- dinocyst first and last occurrences, B5:36
- See also* Ypresian/Lutetian boundary

M

Maastrichtian

- age vs. depth, B10:37
- bulk mineralogy, B11:3–6
- clay mineralogy, B11:4–5
- dinocyst first and last occurrences, B5:31
- dinocysts, A7:34–35; B3:7–8
- gateway history, B1:8–11
- lithologic units, A7:16–18
- seafloor spreading, A1:9
- sedimentation rates, B10:17–18
- Maastrichtian, lower, sedimentation rates, B10:17
- Maastrichtian, upper
 - biostratigraphy, A7:23–24
 - nannofossils, A7:26
- Maastrichtian–Eocene sequence, palynology, B3:27
- Maastrichtian–late Eocene Greenhouse period, paleoclimatology, A1:6
- Maastrichtian–middle Eocene, diatoms, B10:3
- Maastrichtian–Paleogene
 - palynomorphs, B10:3
 - siliciclastics, B10:3
- Mac. Robertson Shelf, dinocysts, B4:14
- magnesium
 - comparison with magnesium/chloride ratio, A6:107
 - diffusion, A5:49
 - pore water, A3:44, 161; A4:21–22, 60; A5:48, 158; A6:52, 166; A7:45, 140
 - vs. calcium, A7:86
 - vs. depth, A1:89; A3:94; A4:40; A5:93; A6:107; A7:85
- magnesium/chloride ratio, vs. depth, A3:95
- magnetic declination, magnetometers, A(appendix):11–12
- magnetic experiments, overprints, A(appendix):1–15
- magnetic inclination
 - correlation, B10:5–6
 - magnetometers, A(appendix):10–13, 15
 - vs. depth, A4:34; A5:78–82; A6:94–96; A7:68, 71–75; A(appendix):15
- magnetic intensity
 - magnetometers, A(appendix):10–15
 - vs. depth, A3:82–83; A4:34; A5:78–82; A6:94–97; A7:71–76; A(appendix):14–15
- magnetic intensity bias, vs. depth, A7:75
- magnetic overprints, magnetic experiments, A(appendix):1–15
- magnetic polarity
 - stratigraphy, B10:6
 - vs. depth, A3:82–83; A4:34; A5:78–80; A6:94–96; A7:71–74
- magnetic reversals
 - age models, B9:8
 - biostratigraphic datums, B9:21
 - long-core data, A5:37
- magnetic susceptibility
 - comparison with B chromaticity coordinate, A3:71, 73
 - core–log integration, A3:116
 - correlation, B4:27
 - power spectra, A3:70, 74

- summary, A1:38–40
vs. depth, A1:86; A3:45, 60–65, 86, 99; A4:42; A5:49–50, 86, 95; A6:68–74, 109; A7:56–60, 78–79, 87
- magnetic susceptibility logs, vs. depth, A3:109; A5:105, 113; A7:96
- magnetometers, noise, A(appendix):10
- magnetostratigraphy
age models, B9:6
age vs. depth, A5:38; A6:43; A7:38–39, 77
bioevents, B10:3
chrons, A3:36, 151
correlation, B10:5–6
Eocene/Oligocene boundary, A7:38–39
remanent magnetization, A7:37–39
sediments, A4:18, 57; A5:147; A6:43, 156; A7:131
summary, A1:37–38, 95–97
vs. depth, A7:71–74
- maps
Eocene/Oligocene boundary paleogeography, A1:72
middle Eocene paleogeography, A1:71
structures, A1:74
- marine environment
carbonate content, A3:38–39
lower–middle Eocene, B1:10
- Marshall Paraconformity
age models, B9:4, 8, 12
gateways, B1:15
models, B1:6
- Matuyama Chron. *See* Brunhes/Matuyama boundary
- McMurdo Sound, dinocysts, B4:14
- medium resistivity logs, vs. depth, A6:124
- Messinian, dinocyst first and last occurrences, B5:41
- Messinian/Zanclean boundary, sedimentation rates, B10:10, 12, 16, 19
- methane
comparison with chloride, A6:104
sediments, A3:40–42, 158–160; A4:20, 59; A5:44–45, 156–157; A6:49–50, 165; A7:42–44, 139
vs. depth, A1:89; A3:91; A5:90; A6:103–105; A7:82
- methane/ethane ratio, sediments, A5:44–45, 156–157; A7:43
- methane/ethane + propane ratio, vs. depth, A3:40–42, 91; A5:44–45, 90; A6:49, 103; A7:82
- Mi-1 isotope event
age models, B9:6–7
correlation, B1:6
sedimentation rates, B10:12
- Mi-1a isotope event, benthic foraminifers, B9:4
- mica
lithologic units, A6:15
vs. depth, A6:77–78; A7:65
- microfaults
lithologic units, A6:18
photograph, A6:83
- microtektites, Miocene–Pliocene, B1:18
- middle Miocene global climate transition, gateways, B1:18
- Milankovitch cycles, lower–middle Eocene, B1:10
- mineralogy. *See* bulk mineralogy
- Miocene
calcareous microfossils, B13:1–12
clay mineralogy, A5:19
diatoms, A4:15
dinocysts, B2:8–9
gateway history, B1:17–19
lithologic units, A3:11–12; A4:7–8; A5:11–13; A6:12–13; A7:12–13
models, B1:6
nannofossil biostratigraphy, B7:1–39
nannofossils, B1:6
ooze, B1:3
photograph, A7:62–64
planktonic foraminifers, A3:25–26
radiolarians, A5:28; B10:3
sedimentation rates, B10:9–10, 12–13, 18–20
See also Oligocene–Miocene transition; Oligocene/Miocene boundary; Oligocene/Miocene hiatus
- Miocene, lower
age models, B9:1–21
clay mineralogy, B11:5
nannofossils, B7:8
planktonic foraminifers, A3:27; A5:24–25; A6:31; A7:27
sedimentation rates, B10:13
terranes, A1:9
- Miocene, lower/middle boundary
age models, B3:6
benthic foraminifers, A3:29
biostratigraphy, A7:23
dinocysts, A3:32
planktonic foraminifers, A5:24
sedimentation rates, B10:10, 12, 15–16, 19
- Miocene, lower/upper boundary, nannofossils, A4:10
- Miocene, middle
clay mineralogy, B11:5
planktonic foraminifers, A3:26; A4:12; A5:24; A6:30–31; A7:27
radiolarians, A4:14
sedimentation rates, A5:35; B10:20
See also middle Miocene global climate transition
- Miocene, middle/upper boundary
age models, B3:6
benthic foraminifers, A4:13
biostratigraphy, A3:22; A7:22–23
nannofossils, A3:24
paleoenvironment, A5:16
sedimentation rates, B10:12, 19
- Miocene, upper
biostratigraphy, A3:22
diatoms, A3:31
nannofossils, A4:10
planktonic foraminifers, A5:23–24; A7:27
radiolarians, A3:29
- Miocene/Pliocene boundary
age models, B3:5
biostratigraphy, A3:22; A7:22–23
hiatuses, A6:25, 30
nannofossils, A4:10; A6:28; B7:3, 5, 7, 8
planktonic foraminifers, A5:23–24; A6:30
sedimentation rates, A4:16; B10:10, 12–13, 16, 19

mixed-layer minerals
 lithologic units, A5:17–19, 71
 vs. age, B11:9–12
 vs. depth, A6:22–25, 88; A7:69
mudstone
 depocenters, A1:7
 Eocene, B1:3
 upper Eocene, B1:11
mudstone, calcareous, Oligocene, B1:16
mudstone, diatomaceous, lower–middle Eocene, B1:10

N

nannofossils
 bioevents, B7:22–23
 biostratigraphic datums, B6:9; B7:16
 datum levels, A5:119; A6:138
 datum levels and ages, A3:130–131
 datums, A7:112
 diachroneity, B6:12
 distribution, A5:120–125; A7:106–111
 Eocene–Oligocene transition, A5:74
 identification and abundances, A3:122–129; A4:49;
 A6:130–137
 lithologic units, A5:10–12; A6:12–19; A7:11–13
 Miocene biostratigraphy, B1:6; B7:1–39
 Paleogene biostratigraphy, B8:1–14
 principal results, A1:15–16, 30–32
 Quaternary biostratigraphy, B1:6; B6:1–26
 review, B1:6
 sediments, A5:68–69
 stratigraphic distribution, B6:19–22
 vs. depth, A3:67; A6:75, 77–80; A7:61, 65
nannofossils, calcareous
 biostratigraphy, A3:23–25; A4:9–11; A5:21–22; A6:27–
 29; A7:25–26
 datum levels and age estimates, A4:50
Neogene
 age vs. depth, B10:29, 32, 35, 38
 biostratigraphy, A3:22; A7:22–23
 dinocyst index events, B5:1–98
 dinocysts, A3:32
 gateway history, B1:17–19
 history, A1:12–13, 59–60
 lithology vs. depth, A7:61
 nannofossils, B10:3
 radiolarians, A7:30
 sedimentation rates, B10:9–10, 12–13, 15–16, 18–20
neritic environment
 diatoms, B10:4
 dinocysts, A7:35
 lithologic units, A7:18–19
 lower–middle Eocene, B1:10
neutron porosity logs, vs. depth, A3:114; A5:109;
 A6:121; A7:100
New Zealand, tectonics, B1:6
Ninene Basin
 paleoenvironment, A5:15–16
 tectonics, A1:46
 upper Eocene, B1:11
nitrogen. *See* carbon/nitrogen ratio

nitrogen, total
 sediments, A3:37–38, 154–157; A4:58; A5:41, 150–
 153; A6:159–162; A7:134–137
 vs. depth, A5:87; A6:100; A7:80
nodules, lithologic units, A3:11–12
nona-butane, sediments, A5:156–157
nona-hexane, sediments, A5:156–157
nona-pentane, sediments, A5:156–157
normal faults, deposition, A1:8

O

ocean circulation
 Cenozoic, A1:57–60; B1:2
 hydrography, A1:10–11
 oceanic fronts, A1:76
 surface water, A1:90–92
oceanic fronts
 ocean circulation, A1:76
 Quaternary, B1:19
Oi-1 isotope event, dinocysts, B4:15
Oi1b isotope event, dinocysts, A5:33
Oi2b isotope event, dinocysts, B2:8
“oil window,” sediments, A5:45; A7:41
Olduvai Subchron
 long-core data, A5:37
 remanent magnetization, A6:41; A7:37
 sedimentation rates, B10:13, 16, 19
Oligocene
 age models, B9:1–21
 carbonates, A1:22–23
 clay mineralogy, B11:5
 diatoms, A4:15
 dinocysts, A3:32; A5:31–35; B2:7–8
 gateway history, B1:11–17
 geology, A1:2
 hemipelagic sediments, A1:7
 hiatuses, B1:3
 lithologic units, A3:12–14; A5:12–13; A7:13–14
 models, B1:6
 nannofossils, A5:21–22
 paleoenvironment, A5:16
 radiolarians, A3:30; A5:28–29; B10:3
 sedimentation rates, B10:8–9, 11–12, 14–15, 17–18
 stratigraphy, A1:11–12
 See also Eocene–Oligocene transition; Eocene/Oli-
 gocene boundary
Oligocene, lower
 benthic foraminifers, A3:28
 biostratigraphy, A3:23
 diatoms, A7:31
 dinocysts, B3:1–48
 gateways, B1:34–35
 neritic environment, B10:4
 ocean circulation, A1:91
 palynomorphs, A7:32
 planktonic foraminifers, A3:27–28; A5:25–26; A6:31;
 A7:28
 sedimentation rates, A5:35; B10:15
 terranes, A1:9

- Oligocene, lower/middle boundary, sedimentation rates, A5:35
- Oligocene, lower/upper boundary
 age models, B3:6; B9:8
 biostratigraphy, A3:22; A7:23
 dinocysts, B3:9
 hiatuses, A6:36
 sedimentation rates, B10:18
- Oligocene, upper
 lithologic units, A6:13–14
 ocean circulation, A1:92
 planktonic foraminifers, A3:27; A5:25; A7:27–28
- Oligocene/Miocene boundary
 age models, B3:6
 dinocysts, B2:7
 hiatuses, B1:6
 lithologic units, A6:13–14
 nannofossils, B7:3, 6, 25
 ostracodes, A3:28–29
 planktonic foraminifers, A5:25; A6:31
 sedimentation rates, A5:35; B10:9, 12, 15, 18
- Oligocene/Miocene hiatus, planktonic foraminifers, A7:27–28
- Oligocene–Miocene transition, age models, B9:7
- Oligocene–Quaternary
 holoplanktonic diatoms, B10:4
 ooze, B10:3
- ooze
 Miocene, B1:3
 Pleistocene, B1:4
 Pliocene, B1:4
- ooze, calcareous biogenic, lithologic units, A3:10–11
- ooze, foraminifer, lithologic units, A3:11
- ooze, foraminifer nannofossil, lithologic units, A6:12; A7:11–12
- ooze, foraminifer-bearing nannofossil, lithologic units, A6:12
- ooze, nannofossil
 lithologic units, A3:10–11; A4:6–9; A5:10–12; A6:12–13; A7:11–12
 photograph, A3:68; A7:62–63
- ooze, nannofossil foraminifer, lithologic units, A3:11; A6:12–13
- ooze, pelagic calcareous, Oligocene–Quaternary, B10:3
- opal-CT
 diagenesis, A3:45; A6:53; A7:45
 sediments, A5:47
 siliciclastics, B11:3–5
 vs. age, B11:9–12
- organic matter
 degradation, A5:47; A7:44
 dinocysts, A5:43
 lithologic units, A3:13–14, 38; A5:41–44; A6:17–19, 45–48
 paleoenvironment, A3:19–21
 preservation, A5:43–44
 sediments, A3:38, 43, 158–159; A5:69; A7:40, 138
 siliciclastics, B11:3–6
 vs. depth, A3:67; A6:77–78; A7:61, 65
- ostracodes, biostratigraphy, A3:28–29; A4:13; A5:26–28; A6:32–34; A7:28–30
- Otway Basin, Cenozoic, B1:20
- oxidation, sediments, A3:38–40
- oxygen index, sediments, A3:38–39, 158–159; A5:41, 154–155; A6:45, 163–164; A7:41, 138
- oxygen isotopes
 age models, B9:5–6
 benthic foraminifers, B9:4–5
 comparison of Sites 1170 and 1190, B9:11
 Cretaceous–Cenozoic, B10:6–7
 dinocysts, B4:15
 Miocene foraminifers, B13:1–12
 sealevel changes, A1:67
 temperature, B1:29
 vs. age, B9:11
 vs. depth, B9:13–15; B13:5–6
- oxygenation
 gateway history, B1:8–11
 paleoenvironment, A6:48
- ## P
- paleobathymetry
 diatoms, A5:29; A6:35
 history, B10:3
- paleoceanography
 age models, B9:7–8
 Cenozoic, A1:1–6, 57–60
 Neogene, A1:12–13; B1:18
- Paleocene
 clay mineralogy, B11:4–5
 dinocysts, B3:8
 gateway history, B1:8–11
 lithologic units, A7:16–18
 paleoenvironment, A1:50–53
 progradation, A1:7
 sedimentation rates, B10:18
 unconformities, B1:9
- Paleocene, middle/upper boundary, age models, B3:6
- Paleocene, upper
 deposition, A6:19–21
 dinocysts, A7:34–35
 hiatuses, B1:3
- Paleocene/Eocene boundary
 age models, B3:6
 deposition, A6:19–21
 dinocysts, A6:38–39
 uplifts, B1:7
- Paleocene/Eocene Thermal Maximum
 dinocysts, B5:6
 sedimentation rates, B10:17
- Paleocene–Eocene transition, sedimentation rates, B10:17
- paleoclimatology
 Cenozoic, A1:1–6
 clay mineralogy, A3:16–17; A5:17–19; A6:23–25; A7:19–21
 dinocysts, B2:10–11; B3:11–12
 Eocene–Oligocene transition, A7:24–25

- gateway history, B1:8–11
- Neogene, B1:16, 18; B5:5–6
- principal results, A1:15–18, 30–32
- sedimentation, A1:34–35
- paleodepth
 - benthic foraminifers, A5:27–28; A6:92
 - diatoms, A5:29–30
 - vs. depth, A3:80; A4:33; A5:75
- paleoecology, dinocysts, B4:13–15
- paleoenvironment
 - biogenic component, A3:18–21
 - carbon/nitrogen ratio, A3:19–21
 - carbon/sulfur ratio, A3:18, 20–21
 - Cenozoic, B1:4
 - clay mineralogy, A3:15–17; A5:17–19; A6:23–25; A7:19–21
 - deposition, A1:26–27
 - dinocysts, A6:39; A7:35; B2:9–11; B3:11–12
 - Eocene/Oligocene boundary, A3:20
 - Eocene–Oligocene transition, A1:53–55; A7:24–25
 - glauconite, A3:20–21
 - hiatuses, A3:19
 - lithologic units, A5:15–16
 - lithology, A3:18–21
 - marine incursions, A3:19–20
 - organic matter, A3:19–21
 - Paleocene–Eocene, A1:50–53
 - Paleogene, A1:12; A7:24–25; B4:16
 - principal results, A1:15–17, 22, 30–32
 - sedimentary basins, A6:19–21
 - seismic profiles, A3:18
 - siliciclastics, A3:19–21
 - tectonics, A3:18
 - upper Eocene, A3:78
 - See also* abyssal environment; anoxic environment; antarctic environment; bathyal environment; brackish environment; deltaic environment; estuarine environment; euphotic environment; eutrophic environment; fluvial environment; humid environment; lacustrine environment; marine environment; neritic environment; shelf environment; subantarctic environment; suboxic environment; subtropical environment; temperate environment
- paleoexport production, Quaternary, B1:19
- Paleogene
 - age vs. depth, B10:28, 31, 34, 37
 - biostratigraphy, A7:23–24
 - history, A1:11–12, 57–59; B1:3
 - lithology vs. depth, A7:61, 65
 - margin carbonates, A1:55–56
 - nannofossil biostratigraphy, B8:1–14; B10:3
 - paleoenvironment, A7:24–25; B4:16
 - radiolarians, A7:30–31
 - sedimentation rates, B10:8–9, 11–12, 14–15, 17–18
 - sediments, A1:7
 - See also* Cretaceous–Paleogene succession; Maastrichtian–Paleogene
- paleogeography
 - Cretaceous/Tertiary boundary, A1:66
 - Eocene/Oligocene boundary, A1:72
 - gateway history, B1:8–11, 34–35
 - middle Eocene, A1:71
 - sedimentary basins, A6:20
 - upper Eocene, A3:78
- paleomagnetism
 - Site 1168, A3:34–36
 - Site 1169, A4:17–18
 - Site 1170, A5:36–38
 - Site 1171, A6:40–43
 - Site 1172, A7:36–39
 - summary, A1:37–38
- paleoproductivity
 - Eocene–Oligocene transition, B1:14
 - geochemistry, A3:39–40
 - lithologic units, A7:19
- paleoprovinces, dinocysts, B5:6
- paleowater, nannofossils, A4:11
- palynology
 - Cretaceous–Cenozoic age models, B3:6–7
 - Eocene–Oligocene transition, B3:26
 - Maastrichtian–Eocene sequence, B3:27
 - Quaternary, B3:24–25
- palynomorphs
 - biostratigraphy, A3:31–33; A4:15–16; A5:30–35; A6:36–39; A7:32–35
 - distribution, A3:145–148; A7:126–127
 - Eocene–Oligocene transition, A5:74
 - Maastrichtian–Paleogene, B10:3
 - paleoenvironment, B10:4
 - photomicrograph, B2:23–35
 - vs. depth, B2:20
 - See also* phototrophic dinoflagellates
- palynomorphs, offshore, vs. depth, B3:23
- palynomorphs, terrestrial, vs. depth, B3:23
- paraconformities
 - age models, B9:4
 - Marsall Paraconformity, B1:15
- pentane
 - sediments, A5:45, 156–157; A6:49
 - See also* iso-pentane; nona-pentane
- peridinioid/gonyaulacoid ratio, dinocysts, A5:34
- pH
 - pore water, A3:43, 161; A4:21, 60; A5:47, 158; A6:51, 166; A7:44, 140
 - vs. depth, A3:93; A4:38; A5:92; A6:105; A7:84
- phosphorus
 - sediments, B12:2–3, 7–12
 - vs. depth, B12:5
- phosphorus/titanium ratio
 - sediments, B12:2–3
 - vs. depth, B12:6
- photoelectric effect logs, vs. depth, A3:110; A5:106; A6:118, 124; A7:97
- phototrophic dinoflagellates, paleoenvironment, A5:34
- physical properties
 - Site 1168, A3:45–47
 - Site 1169, A4:22–24
 - Site 1170, A5:49–52
 - Site 1171, A6:54–56
 - Site 1172, A7:46–48
 - summary, A1:38–40

plate tectonics, extension, A1:8–9; B2:2

Pleistocene

- biostratigraphy, A3:22
- clay mineralogy, A5:19; B11:5
- dinocyst first and last occurrences, B5:42
- dinocysts, A5:30
- dinoflagellates, A4:16
- hiatuses, B6:11
- lithologic units, A3:10–11; A5:10–11; A6:12; A7:11–12
- ooze, B1:4
- palynomorphs, A7:32
- See also* Pliocene/Pleistocene boundary; Pliocene–Pleistocene interval

Pliocene

- clay mineralogy, A5:19
- dinocyst first and last occurrences, B5:42
- dinocysts, B2:9
- gateway history, B1:17–19
- lithologic units, A3:10–11; A4:7–8; A5:10–11; A6:12–13; A7:11–12
- ooze, B1:4
- palynomorphs, A7:32
- planktonic foraminifers, A3:25; A4:12; A5:23; A6:30; A7:27
- radiolarians, A4:13–14
- sedimentation rates, B10:9–10, 12–13, 18–20
- See also* Miocene/Pliocene boundary

Pliocene, lower

- dinocysts, A5:31
- dinoflagellates, A4:16

Pliocene, lower/upper boundary

- age models, B3:5
- biostratigraphy, A3:22
- sedimentation rates, B10:10, 16, 19

Pliocene, upper

- clay mineralogy, B11:5
- dinocysts, A5:30
- dinoflagellates, A4:16
- nannofossils, A7:25

Pliocene/Pleistocene boundary

- age models, B3:5
- biostratigraphic datums, B6:9–12
- biostratigraphy, A3:22; A7:22–23
- nannofossils, A4:10; B6:4
- Quaternary nannofossils, B6:5–6
- sedimentation rates, B10:10, 16

Pliocene–Pleistocene interval, sedimentation rates, B10:13, 16, 20

Polar Front

- Cenozoic, A1:3; B1:21
- hydrography, A1:10–11

pore water

- geochemistry, A3:161; A4:60; A5:158; A6:166
- summary, A1:42–43

porosity

- sediments, A4:64; A5:164–167; A6:172–176; A7:147–149
- siliciclastics, B11:3
- vs. depth, A3:104; A4:47; A5:101; A6:116; A7:92
- See also* void ratio

porosity logs

- vs. depth, A3:110, 112, 114; A5:106, 109; A6:118, 124; A7:97

See also density porosity logs; neutron porosity logs

potassium

- comparison with potassium/chloride ratio, A6:107
- diffusion, A5:49
- geochemical zonation, A4:22
- pore water, A3:44, 161; A4:21–22, 60; A5:48, 158; A6:52, 166; A7:45, 140
- vs. depth, A3:94; A4:40; A5:93; A6:107; A7:85
- potassium logs, vs. depth, A3:111; A5:107; A6:119, 124; A7:98

potassium/chloride ratio, vs. depth, A3:95

preservation

- benthic foraminifers, A5:27
- Neogene, B1:16
- organic matter, A5:43–44
- vs. depth, A5:75

pressure solution seams

- lithologic units, A6:18
- See also* solution seams

Priabonian

- dinocyst first and last occurrences, B5:37
- See also* Bartonian/Priabonian boundary
- Priabonian/Rupelian boundary, sedimentation rates, B10:9, 15, 18

progradation

- deltaic environment, A3:18–21
- Eocene, A1:7

propane

- sediments, A3:40–42, 158–160; A5:156–157; A6:49–50, 165; A7:139
- See also* methane/ethane + propane ratio

Prydz Bay

- dinocysts, B4:14
- Eocene–Oligocene transition, B1:14

psychrosphere

- expansion, A1:56
- Neogene, B1:17

pyrite

- lithologic units, A3:11, 13–14; A5:10–12; A6:12–15
- siliciclastics, B11:3–6
- vs. age, B11:9–12
- vs. depth, B9:18

pyroxene

- siliciclastics, B11:3–6
- vs. age, B11:9–12

Q

quartz

- lithologic units, A5:13–15; A7:13–18
- paleoenvironment, A5:15–16
- sediments, A5:68–69
- siliciclastics, B11:3–6
- upper Eocene, B1:12
- vs. age, B11:9–12
- vs. depth, A6:77–78; A7:61, 65; B9:18

quartz grains, lithologic units, A6:12–15; A7:15

Quaternary

- age vs. depth, B10:29, 32, 35, 38

- dinocysts, B2:9; B3:1–48; B10:3
gateway history, B1:17–19
history, A1:12–13
nannofossil biostratigraphy, B1:6; B6:1–26
planktonic foraminifers, A4:11; A5:22–23; A6:30;
A7:26–27
radiolarians, A7:30
sedimentation rates, B10:9–10, 12–13, 18–20
zonation, B6:17
See also Oligocene–Quaternary
- R**
- radiolarians
biostratigraphy, A1:36; A3:29–30; A4:13–14; A5:28–
29; A6:34–35; A7:30–31
datum core depths, A6:144
datums, A3:141–142; A5:135; A7:120
lithologic units, A4:7; A6:12–15
paleoenvironment, B10:4
sediments, A5:68–69
upper Eocene–Oligocene–Miocene, B10:3
vs. depth, A6:75, 77–78, 108; A7:61, 65
recrystallization
carbonates, A3:44; A4:21
summary, A1:43
reflectance
lithologic units, A3:12
vs. depth, A3:86; A5:86; A6:99; A7:78–79
reflectance stratigraphy, Cretaceous–Cenozoic, B10:6–7
reflectivity
comparison with magnetic susceptibility, A3:71, 73
vs. depth, A3:71, 73
See also chromaticity; lightness
relative sediment disturbance, vs. depth, A4:29–30
remanent magnetization
Cenozoic, A1:38
discrete samples, A3:35–36
long-core data, A3:34–35
remanent magnetization, anhysteretic
magnetic characterization, A3:34–36, 85; A4:35;
A5:36–38, 83; A6:41–43; A7:37–39
vs. depth, A5:84; A6:97
remanent magnetization, isothermal
magnetic characterization, A3:34–36, 85; A4:35;
A5:36–38, 83; A6:41–43; A7:37–39
vs. depth, A5:84; A6:97
remanent magnetization, natural
discrete samples, A4:18; A5:37–38; A6:42–43; A7:38
long-core data, A4:17–18; A5:36–37; A6:41–42; A7:37–
38
magnetic characterization, A3:34–36, 85; A4:35;
A5:36–38, 83; A6:41–43; A7:37–39
principal component analysis, A3:84
remanent magnetization, normalized isothermal, vs.
depth, A7:76
resistivity logs
vs. depth, A1:87; A3:109
See also deep resistivity logs; medium resistivity logs;
shallow resistivity logs
- reworking
upper Eocene, B1:12
vs. depth, A3:80
rifting
deposition, A1:6
tectonics, B1:6
terrane, A1:9
rock magnetism, Cenozoic, A1:38
Rock-Eval data, sediments, A3:38, 158–159; A6:163–164;
A7:138
Rupelian
dinocyst first and last occurrences, B5:38
See also Priabonian/Rupelian boundary
Rupelian/Chattian boundary, sedimentation rates,
B10:9, 18
- S**
- salinity
pore water, A3:42–43, 161; A4:20–21, 60; A5:46, 158;
A6:50–51, 166; A7:43–44, 140
vs. depth, A3:92; A5:91
sand
photograph, A3:68
vs. depth, B9:13–15, 17
sandstone
depocenters, A1:7
lithologic units, A6:20
Santonian, dinocyst first and last occurrences, B5:29
Scotia Sea, dinocysts, B4:14
seafloor spreading
Chron 34, A1:9
oceanic crust, A1:7
tectonics, A1:46–49; B1:7
sealevel changes
lower–middle Eocene, B1:10
oxygen isotopes, A1:67
paleoenvironment, B2:10
well-log units, A6:60
seaways, Oligocene opening, B1:4
sediment transport, clay mineralogy, A3:17
sedimentary basins
maps, B1:28
paleoenvironment, A3:18–21; A5:15–16
paleogeography, A6:20
sedimentation
biostratigraphy, A6:26–27
Cenozoic, A1:1–4
paleoclimatology, A1:34–35
regional scale, A1:43–44
summary, A1:33
sedimentation phases, Tasmanian–Antarctic region, B1:4
sedimentation rates
age models, A4:16–17; A5:35–36; A6:39–40; A7:36;
B6:8–10; B9:8
biomagnetostratigraphic datums, B6:23–24
biostratigraphy, A3:33–34
Eocene–Oligocene transition, A6:21; B1:14
glauconite, A6:20–21
lithologic units, A4:8–9

- lower–middle Eocene, B1:10
- Oligocene/Miocene boundary, A6:26
- principal results, A1:25–26, 30–31
- Quaternary, B6:18
- summary, A1:84
- vs. age, B9:20
- vs. depth, A4:33; A5:75
- well-log units, A5:55
- sediments
 - composition, A3:67; A5:68
 - geochemistry, B12:1–13
 - thickness, A1:74
- sediments, brecciated
 - lithologic units, A3:12
 - photograph, A3:75
- Seelandian
 - dinocyst first and last occurrences, B5:33
 - dinocysts, B3:8
- seismic profiles
 - cross sections, A1:73; A3:59; A5:62; A7:54
 - paleoenvironment, A3:18
 - postdrilling interpretation, A1:77–80; A3:57; A5:60; A6:65; A7:53
 - Site 1168, A3:58
 - Site 1169, A4:27
 - Site 1170, A5:61
 - Site 1171, A6:67
 - Site 1172, A7:55
- sequence boundary, photograph, A6:87
- Serravallian, dinocyst first and last occurrences, B5:41
- Serravallian/Tortonian boundary, sedimentation rates, B10:12, 19
- Seymour Island, dinocysts, B4:14
- shale, organic-rich, sediments, A3:52
- shallow resistivity logs, vs. depth, A5:105; A7:96
- shear strength, vs. depth, A4:45
- shear strength, undrained
 - comparison with gamma-ray attenuation bulk density, A3:107; A5:103
 - sediments, A3:165; A4:62; A5:51, 163; A6:56, 171; A7:48, 146
 - vs. depth, A3:107; A6:115; A7:94
- shear strength, vane, sediments, A3:47; A4:23
- shear wave velocity logs, vs. depth, A3:110; A5:106; A7:97
- shelf environment, middle–upper Eocene, A1:52
- shell fragments
 - lithologic units, A3:13, 15; A5:14–15; A7:16–18
 - photograph, A6:82
- siderite, lithologic units, A6:18
- silica
 - comparison with radiolarian abundance, A6:108
 - comparison with sponge spicules, A3:81
 - pore water, A3:44–45, 161; A4:22, 60; A5:47, 158; A6:53, 166; A7:44–45, 140
 - vs. depth, A3:93, 97; A4:41; A5:92; A6:108; A7:84
- silicates
 - alteration, A7:45
 - vs. depth, A3:67
- siliceous microfossils, vs. depth, A3:67, 81
- siliciclastics
 - bulk mineralogy, B11:3–6
 - clay mineralogy, A5:18–19
 - deposition, A1:30–32
 - diffusion, A5:49
 - Eocene–Oligocene transition, B1:13, 29
 - lithologic units, A3:11–15; A5:13–15; A7:18–19
 - lithostratigraphy summary, A1:32–33; B1:21
 - Maastrichtian–Paleogene, B10:3
 - paleoenvironment, A1:22; A3:19–21
 - photograph, A6:76
 - regional scale, A1:43–44, 58–59
 - review, B1:4
 - upper Eocene, B1:11
- silicoflagellates
 - biostratigraphy, A3:30–31; A4:14–15; A5:29–30; A6:35–36; A7:31–32
 - distribution and abundance, A3:143–144
 - lithologic units, A4:7
 - relative abundance, A4:53; A5:136–139; A6:145–149; A7:121–124
- siltstone
 - deposition, A1:7
 - Paleocene, A6:19–21
- siltstone, clayey
 - lithologic units, A3:14–15; A5:13–14; A6:17–19; A7:12–13
 - Oligocene, B1:16
- siltstone, clayey glauconitic, lithologic units, A6:14
- siltstone, glauconite-bearing diatomaceous clayey, lithologic units, A7:13–14
- siltstone, glauconitic
 - bulk mineralogy, B11:3
 - Eocene–Oligocene transition, B1:14
 - photograph, A7:67
 - upper Eocene, B1:12
- siltstone, glauconitic clayey, photograph, A3:76
- siltstone, glauconitic diatomaceous clayey, lithologic units, A7:13–14
- siltstone, glauconitic sandy, lithologic units, A6:14
- siltstone, nannofossil, lithologic units, A3:13
- siltstone, organic clayey, lithologic units, A3:14
- Site 277, Miocene–Pliocene, A1:10
- Site 280, drilling, A1:9–10
- Site 281, drilling, A1:9–10
- Site 282
 - drilling, A1:9–10
 - upper Eocene paleogeography and paleoenvironment, A3:78
- Site 1120, hiatuses, B6:11
- Site 1126, hiatuses, B6:11
- Site 1127, hiatuses, B6:11
- Site 1130, hiatuses, B6:11
- Site 1132, hiatuses, B6:11
- Site 1168, A3:1–171
 - background and objectives, A3:4–6
 - biostratigraphy, A3:21–34
 - bulk and clay mineralogy, B11:9
 - composite depths, A3:36–37
 - downhole measurements, A3:47–52
 - inorganic geochemistry, A3:42–45
 - late Eocene–Quaternary dinocysts, B2:1–36

- lithostratigraphy, A3:8–21
- Miocene nannofossil stratigraphic distribution, B7:17
- Miocene nannofossils, B7:3–5
- Oligocene–Miocene age models, B9:3–4, 6–7
- Oligocene/Miocene boundary nannofossil stratigraphic distribution, B7:18
- operations, A3:6–8
- organic geochemistry, A3:37–42
- Paleogene nannofossils, B8:6–7
- paleomagnetism, A3:34–36
- physical properties, A3:45–47
- principal results, A1:14–17; A3:1–4
- Quaternary nannofossils, B6:4–6
- sedimentation rates, B10:8–10
- site description, A3:1–171
- Site 1169, A4:1–64
 - background and objectives, A4:3–4
 - biostratigraphy, A4:9–17
 - inorganic geochemistry, A4:20–22
 - lithostratigraphy, A4:6–9
 - operations, A4:4–5
 - organic geochemistry, A4:19–20
 - paleomagnetism, A4:17–18
 - physical properties, A4:22–24
 - principal results, A1:17–18; A4:1–2
 - site description, A4:1–64
- Site 1170, A5:1–167
 - background and objectives, A5:6–7
 - biostratigraphy, A5:19–36
 - bulk and clay mineralogy, B11:10
 - composite depths, A5:39–40
 - coring summary, A5:115–117
 - dinocysts vs. depth, B4:25
 - downhole measurements, A5:52–55
 - Eocene–Oligocene transition dinocysts, B4:8–10
 - inorganic geochemistry, A5:46–49
 - lithostratigraphy, A5:9–19
 - Miocene calcareous microfossils, B13:1–12
 - Miocene nannofossil stratigraphic distribution, B7:19
 - Miocene nannofossils, B7:5–6
 - Oligocene–Miocene age models, B9:4–5
 - operations, A5:8–9
 - organic geochemistry, A5:40–45
 - Paleogene nannofossils, B8:8–9
 - paleomagnetism, A5:36–38
 - palynology, B4:28–29
 - physical properties, A5:49–52
 - principal results, A1:18–23; A5:1–5
 - Quaternary nannofossils, B6:6
 - sedimentation rates, B10:10–13
 - site description, A5:1–167
- Site 1171, A6:1–176
 - background and objectives, A6:6–8
 - biostratigraphy, A6:25–40
 - bulk and clay mineralogy, B11:11
 - composite depths, A6:43–44
 - coring summary, A6:126–128
 - dinocysts, vs. depth, B4:25
 - downhole measurements, A6:56–60
 - Eocene–Oligocene transition dinocysts, B4:8–10
 - inorganic geochemistry, A6:50–54
 - lithostratigraphy, A6:10–25, 129
 - Miocene nannofossil stratigraphic distribution, B7:20
 - Miocene nannofossils, B7:6–8
 - Oligocene–Miocene age models, B9:5–6
 - operations, A6:8–10
 - organic geochemistry, A6:44–50
 - Paleogene nannofossils, B8:10–11
 - paleomagnetism, A6:40–43
 - palynology, B4:30–31
 - physical properties, A6:54–56
 - principal results, A1:23–28; A6:1–6
 - Quaternary nannofossils, B6:7
 - sediment geochemistry, B12:1–13
 - sedimentation rates, B10:14–16
 - site description, A6:1–176
- Site 1172, A7:1–149
 - background and objectives, A7:6–8
 - biostratigraphy, A7:22–36; B3:1–48
 - bulk and clay mineralogy, B11:12
 - composite depths, A7:39–40
 - coring summary, A7:102–104
 - dinocysts, B3:1–48
 - dinocysts vs. depth, B4:25
 - downhole measurements, A7:48–50
 - Eocene–Oligocene transition dinocysts, B4:7
 - inorganic geochemistry, A7:43–45
 - lithostratigraphic summary, A7:105
 - lithostratigraphy, A7:10–21
 - Miocene calcareous microfossils, B13:1–12
 - Miocene nannofossil stratigraphic distribution, B7:21
 - Miocene nannofossils, B7:8–9
 - Oligocene–Miocene age models, B9:6
 - operations, A7:9–10
 - organic geochemistry, A7:40–43
 - Paleogene nannofossils, B8:12–13
 - paleomagnetism, A7:36–39
 - palynology, B4:32–37
 - physical properties, A7:46–48
 - principal results, A1:28–32; A7:1–5
 - Quaternary nannofossils, B6:8
 - sedimentation rates, B10:16–20
 - site description, A7:1–149
- slumps, lithologic units, A3:12
- smectite
 - lithologic units, A5:17–19, 71
 - paleoclimatology, A1:34–35
 - paleoenvironment, A3:15–17
 - terrigenous component, B11:4–5
 - upper Eocene, B1:11
 - vs. age, B11:9–12
 - vs. depth, A3:77; A6:22–25, 88; A7:69
- sodium
 - comparison with sodium/chloride ratio, A6:104
 - poore water, A3:42–43, 161; A4:20, 60; A5:46, 158; A6:50–51, 166; A7:43–44, 140
 - vs. depth, A3:92; A4:37; A5:91; A6:104; A7:83
- sodium/chloride ratio
 - comparison with sodium, A6:104
 - vs. depth, A6:104
- solution seams
 - photograph, A7:64
 - See also* pressure solution seams

- South Tasman Rise
 - bathymetry, A1:7–8
 - collapse, A1:7
 - continental blocks, A1:49–50
 - Cretaceous–Paleogene movements, A1:75
 - dinocysts, vs. depth, B4:25
 - lithofacies, B1:30–31
 - lithostratigraphy summary, A1:32–33
 - Miocene calcareous microfossils, B13:1–12
 - Paleogene, B1:3
 - plate tectonics, A1:8–9
 - site description, A4:1–64; A5:1–167; A6:1–176
 - tectonics, A1:6
 - tectonics summary, A1:33
 - trajectory of drilling, A1:69
 - ventilation, A6:19–21
 - South Tasman Saddle, deposition, A1:7–8
 - Southern Ocean
 - Cretaceous/Tertiary boundary, A1:66
 - dinocysts bioevents, B5:1–98
 - evolution, A1:57–60
 - geology, A1:1–98
 - Neogene paleoclimatology, B1:18
 - palynology, B4:1–42
 - splice tie points
 - Site 1168, A3:153
 - Site 1170, A5:149
 - Site 1171, A6:158
 - Site 1172, A7:133
 - sponge spicules
 - biostratigraphy, A3:30–31; A4:14–15; A5:29–30; A6:35–36; A7:31–32
 - comparison with silica, A3:81
 - distribution and abundance, A7:121–124
 - lithologic units, A4:7; A6:12–15
 - relative abundance, A4:53; A5:136–139; A6:145–149
 - sediments, A5:68–69
 - vs. depth, A3:81, 97; A6:75, 77–78; A7:61, 65; B9:18
 - sporomorphs
 - biostratigraphy, A3:32–33; A7:34
 - Cretaceous–Cenozoic age models, B3:6–7
 - distribution, A4:55; A5:141
 - stable isotopes
 - benthic foraminifers, B9:4–5
 - Miocene foraminifers, B13:1–12
 - stratigraphic units, correlation, A1:82
 - stratigraphy, principal results, A1:14–18, 21, 23–30
 - strike-slip faults
 - rifting, A1:6–7; B1:20
 - unconformities, A1:26
 - strontium
 - pore water, A3:43–44, 161; A4:21, 60; A5:47–48, 158; A6:52, 166; A7:44, 140
 - vs. depth, A1:89; A3:94; A4:39; A5:93; A6:106; A7:83
 - strontium/calcium ratio
 - sediments, A5:47–48
 - vs. depth, A6:52, 106; A7:44, 83
 - strontium/chloride ratio, vs. depth, A3:95
 - structures, maps, A1:74
 - subantarctic environment, biostratigraphy, A6:27
 - Subantarctic Front
 - gateway history, B1:17
 - hydrography, A1:10–11
 - planktonic foraminifers, A4:11
 - suboxic environment, lithology, A3:19–20
 - subsidence
 - benthic foraminifers, A6:33
 - clay mineralogy, A3:16–17
 - continental margin, B1:4
 - deposition, A6:19–21
 - Eocene–Oligocene transition, B1:13, 20
 - gateways, B1:15–19
 - Subtropical Convergence
 - diatoms, A7:31
 - gateway history, B1:17
 - hydrography, A1:10–11
 - radiolarians, A4:13
 - subtropical currents, sedimentation, A1:34
 - subtropical environment, planktonic foraminifers, B10:3
 - subtropical flora, Quaternary, B3:7
 - Subtropical Front
 - clay mineralogy, A7:19
 - hydrography, A1:10–11
 - planktonic foraminifers, A4:11
 - subtropical waters, Neogene, B1:16
 - sulfate
 - comparison with methane, A6:105
 - pore water, A3:43, 161; A4:21, 60; A5:47, 158; A6:51, 166; A7:44, 140
 - vs. depth, A1:89; A3:93; A4:38; A5:92; A6:105; A7:82, 84
 - sulfate reduction
 - ooze, A6:54
 - sediments, A3:41, 43
 - sulfur. *See* carbon/sulfur ratio
 - sulfur, total
 - sediments, A3:37–38, 154–157; A5:150–153; A6:159–162; A7:134–137
 - vs. depth, A3:88; A5:88; A6:101; A7:81
 - surface waters
 - Neogene, B1:17
 - ocean circulation, A1:90–92
- T**
- Tasman Fracture Zone
 - clay mineralogy, A5:18
 - deposition, A1:8
 - tectonics, B1:7
 - Tasmania
 - geology, A1:1–89
 - tectonics, A1:46–49
 - Tasmania Margin W
 - lithofacies, B1:30–31
 - site description, A3:1–171
 - Tasmanian Gateway
 - bulk and clay mineral assemblages, B11:1–34
 - Cretaceous–Cenozoic biomagnetostratigraphy, B10:1–57
 - Cretaceous–Holocene history, B1:1–37
 - deepening, B3:12; B4:16

- deposition, A6:19–21
 evolution, A1:49–50
 Miocene nannofossil biostratigraphy, B7:1–39
 opening, A1:4–5, 12, 53–55
 Paleogene nannofossil biostratigraphy, B8:1–14
 Quaternary nannofossil biostratigraphy, B6:1–26
 tectonics, A1:48
 Tasmanian land bridge, geology, A1:1–98; B1:20–21
 Tasmanian region
 comparison with Antarctica, B1:16–17
 Cretaceous–Cenozoic deposition, A1:6–10
 Gondwana Upper Cretaceous, A1:70
 setting within Gondwana in the Late Cretaceous, B1:33
 synthesis, B1:1–37
 Tasmanian–Antarctic region, sedimentation phases, B1:4
 Tasmanian–Antarctic Shear Zone, tectonics, A1:45–49; B1:7
 tectonics
 evolution, A1:45–49, 98; B1:6–7
 paleoenvironment, A3:18
 summary, A1:33
 temperate environment
 biostratigraphy, A6:27
 planktonic foraminifers, B10:3
 temperature
 sediments, A3:38–40, 46–47; A7:41–42, 138
 vs. age, B1:29
 vs. depth, A3:89, 106; A5:41–44, 89, 102; A6:45, 49–50, 102, 114; A7:93
 vs. time, A3:105
 temperature, in-situ, sediments, A3:46–47; A5:51; A6:55; A7:47
 temperature, sea-surface, Quaternary, B1:19
 tension cracks, compressional wave velocity, A3:46
 terranes, rifting, A1:9
 terrigenous component
 clay mineralogy, B11:4–5
 Quaternary, B1:19
 siliciclastics, B11:3–6
 terrigenous–carbonate transition, review, B1:4
 Tertiary. *See* Cretaceous/Tertiary boundary
 Thanetian, dinocyst first and last occurrences, B5:33
 thermal conductivity
 sediments, A3:46, 164; A4:23, 63; A5:50, 162; A6:55, 170; A7:47, 145
 vs. depth, A3:103; A4:46; A5:100; A6:113; A7:91
 thermal maturation, sediments, A3:41; A5:45; A6:45
 thermocline, paleoceanography, A1:13
 thermohaline circulation
 gateways, B1:34–35
 Neogene, B1:17
 Paleogene, A1:56
 thickness, sediments, A1:74
 thorium/uranium ratio, vs. depth, A3:118
 thorium logs
 power spectra, A5:112
 vs. depth, A3:111; A5:107, 113; A6:119, 124–125; A7:98
 titanium
 sediments, B12:2–3, 7–12
 vs. depth, B12:5
See also aluminum/titanium ratio; barium/titanium ratio; iron/titanium ratio; phosphorus/titanium ratio
 Tortonian
 dinocyst first and last occurrences, B5:41
See also Serravallian/Tortonian boundary
 trace elements, sediments, B12:2–3
 Transantarctic flora
 assemblages, B4:16
 Cretaceous–Cenozoic, B3:7
 paleoenvironment, B2:10
 review, B1:5
 Transantarctic Mountains
 Cenozoic, B1:20
 tectonics, A1:45–49
 transform faults, terranes, A1:9
 transgression
 clay mineralogy, A3:16–17
 tectonics, B1:6
 traveltime, velocity vs. depth, A5:114
 traveltime, two-way, vs. depth, A3:117; A6:122
 Turonian, dinocyst first occurrences, B5:27
- U**
 unconformities
 strike-slip faults, A1:26
See also disconformities; hiatuses; Marshall Paraconformity; paraconformities
 uplifts
 Lower Cretaceous, A1:7
 Paleocene/Eocene boundary, B1:7, 20
 upwelling, Eocene–Oligocene transition, B1:14
 uranium logs
 power spectra, A5:112
 vs. depth, A3:111; A5:107, 113; A6:119, 124; A7:98
 uranium. *See* thorium/uranium ratio
- V**
 veins, siliceous, lithologic units, A6:18
 velocity, acoustic, sediments, A7:46–47
 velocity logs
 vs. depth, A3:110, 115; A5:106, 111; A7:97, 101
See also compressional wave velocity logs; shear wave velocity logs
 ventilation
 bottom water, A1:34
 deposition, A6:19–21
 early Oligocene, B3:12
 Eocene–Oligocene transition, A7:24–25
 lithologic units, A7:18–19
 lower–middle Eocene, B1:11
 Paleocene–Eocene, A1:51
 Victoria Land Basin
 Cenozoic, A1:3; B1:20
 Eocene–Oligocene transition, B1:13
 tectonics, A1:47
 void ratio
 sediments, A5:164–167; A6:172–176; A7:147–149
See also porosity

volcanic component, vs. depth, A7:61
 volcanic glass
 lithologic units, A6:13–15; A7:12–18
 sediments, A5:69
 vs. depth, A6:77–78; A7:65
 volcanoclastics, rifting, A1:6

W

warm climate, dinocysts, B5:7
 water content
 sediments, A4:64; A5:51, 164–167; A6:172–176;
 A7:48, 147–149
 vs. depth, A3:104; A4:23, 47; A5:101; A6:116; A7:92
 water masses
 isolation, B3:11
 Neogene, A1:12–13
 weathering, clay mineralogy, A6:24
 Weddell Sea
 dinocysts, B4:14
 Eocene–Oligocene transition, B1:14
 well-log Unit 1, lithologic units, A3:49–50; A5:54; A6:58
 well-log Unit 2, lithologic units, A3:50; A5:54; A6:58
 well-log Unit 3, lithologic units, A3:50; A5:54; A6:58–59
 well-log Unit 4, lithologic units, A3:50; A6:59
 well-log Unit 5, lithologic units, A3:50; A6:59
 well-log units
 lithologic units, A3:49–50; A5:53–55; A6:58–60
 sedimentation rates, A5:55

well-logging
 gas hydrates, A3:51–52
 summary, A1:38–40; A3:47–49, 108; A5:104; A6:117;
 A7:95
 See also core–log correlation
 Western Boundary Current, paleoceanography, A1:13
 wetness, vs. depth, A3:47, 91; A5:90; A6:56, 103
 wind transport, gateways, B1:18, 21
 winnowing, upper Eocene, B1:12

Y

Ypresian
 dinocyst first occurrences, B5:34
 dinocyst last occurrences, B5:35
 Ypresian/Lutetian boundary, sedimentation rates,
 B10:14, 17

Z

z-component, paleomagnetism, B10:5
 Zanclean. *See* Messinian/Zanclean boundary
 Zanclean/Piacenzian boundary, sedimentation rates,
 B10:10, 16, 19
 zonation, Quaternary nannofossils, B6:4
Zoophycos
 lithologic units, A3:12; A6:14–15, 18; A7:11, 13, 15–
 16
 photograph, A7:66

TAXONOMIC INDEX**A**

abies, *Sphenolithus*, Site 1168, B6:25; B7:3
abisectus, *Cyclicargolithus*
 Site 1168, B7:4
 Site 1170, A5:21
 Site 1171, A6:28
abyssorum, *Stilostomella*, Site 1170, A5:27
Acaciapollenites miocenicus, Site 1168, A3:33
Acanthaulax wilsonii, Site 1172, A7:35
Acanthaulax? sp., Site 1168, B2:23
Acarinina aculeata
 Site 1168, A3:28
 Site 1170, A5:26
Acarinina bullbrooki, Site 1171, A6:32
Acarinina collactea, Site 1171, A6:32
Acarinina pentacamerata, Site 1171, A6:32
Acarinina primitiva
 Site 1171, A6:29
 Site 1172, A7:28
Achilleodinium biformoides
 Kofoid system, B5:47
 Tasmanian Gateway, B5:67
Achomosphaera alcicornu
 Kofoid system, B5:47
 Site 1172, B3:9; B4:7
 Tasmanian Gateway, B5:67
Achomosphaera andalusiensis
 Kofoid system, B5:47

Site 1168, A3:32; B2:6, 8
 Tasmanian Gateway, B5:67
actinocoronata, *Reticulosphaera*
 Kofoid system, B5:62
 Site 1168, B2:8, 34
 Site 1172, B3:9; B4:7
 Tasmanian Gateway, B4:10; B10:10, 91
Actinocyclus fryxellae, Site 1169, A4:11, 15–16
Actinocyclus ingens, Site 1168, A3:31
Actinocyclus ingens var. *nodus*
 Site 1169, A4:15
 Site 1171, A6:35
Actinocyclus ingens var. *ovalis*
 Site 1168, A3:31
 Site 1171, A6:35
Actinoptychus spp., Site 1171, A6:35
aculeata, *Acarinina*
 Site 1168, A3:28
 Site 1170, A5:26
aculeata, *Bolboforma*
 Site 1169, A4:13
 Site 1170, A5:28
aculeatum, *Impagidinium*
 Site 1168, B2:9, 28, 34
 Site 1169, A4:16
 Site 1170, A5:30
 Site 1172, B3:10
acuminatum, *Dinogymnium*, Kofoid system, B5:52
acutulum, *Alterbidinium*, Site 1172, B3:7, 31

- acutus*, *Ceratolithus*
 Site 1168, A3:24
 Site 1169, A4:10
 Site 1170, A5:21
- Adnatosphaeridium multispinosum*, Site 1172, B3:30
- Adnatosphaeridium tutulosum*
 Kofoid system, B5:47
 Tasmanian Gateway, B5:67
- aequilateralis*, *Globigerinella*, Site 1170, A5:23
- Aiora fenestrata*, Site 1172, B3:30
- Aireiana verrucosa*
 Site 1168, B2:6
 Site 1172, A7:33; B3:9–10, 30; B4:7, 38
 Tasmanian Gateway, B4:10
- alatum*, *Xiphophoridium*
 Kofoid system, B5:66
 Tasmanian Gateway, B5:98
- alcicornu*, *Achomosphaera*
 Kofoid system, B5:47
 Site 1172, B3:9; B4:7
 Tasmanian Gateway, B5:67
- Algidasphaeridium minutum cesare*, Site 1168, B2:31
- Algidasphaeridium* spp., Site 1168, B2:9
- Alisocysta circumtabulata*
 Kofoid system, B5:47
 Site 1172, B3:7, 30, 41–42
 Tasmanian Gateway, B5:67
- Alisocysta margarita*
 Kofoid system, B5:47
 Site 1172, B3:30
 Tasmanian Gateway, B5:67
- Alisocysta reticulata*
 Kofoid system, B5:47
 Site 1172, A7:24, 35; B3:30, 42, 44
 Tasmanian Gateway, B5:68
- Alisocysta reticulata* group, Site 1172, B3:7
- Alisocysta* spp., Site 1172, B3:8
- Alisogymnium euclaense*
 Kofoid system, B5:47
 Tasmanian Gateway, B5:68
- Alterbidinium acutulum*, Site 1172, B3:7, 31
- Alterbidinium distinctum*
 Site 1170, A5:32; B4:8
 Site 1171, A6:38; B4:8
 Site 1172, A7:34; B3:9, 31; B4:7, 38
 Tasmanian Gateway, B4:11–12
- Alterbidinium* spp.
 Site 1170, A5:31
 Site 1171, A6:37
 Site 1172, B3:8, 12, 42
- Alterbidinium? distinctum*
 Kofoid system, B5:47
 Tasmanian Gateway, B5:68
- altus*, *Chiasmolithus*
 Site 1168, A3:24
 Site 1171, A6:28
 Site 1172, A7:25
 Tasmanian Gateway, B10:12, 15
- Amaurolithus delicatus*
 Site 1168, B7:3
 Site 1169, A4:10, 16
- Site 1170, A5:21; B7:5, 25
 Site 1172, B7:8
 Tasmanian Gateway, B10:13
- Amaurolithus ninae*, Site 1172, B7:25
- Amaurolithus primus*
 Site 1168, A3:24; B7:3
 Site 1169, A4:10
 Site 1170, B7:5
 Site 1171, B7:7
 Site 1172, B7:8, 25
 Tasmanian Gateway, B10:13
- Amaurolithus primus* Subzone
 Site 1170, B7:5
 Site 1172, B7:8
- Amaurolithus* spp., Site 1168, A3:24
- Amaurolithus triconiculatus*, Site 1172, B7:25
- Amiculosphaera umbraculum*
 Kofoid system, B5:47
 Site 1168, A3:32
 Tasmanian Gateway, B5:68
- amoenum*, *Phthanoperidinium*
 Kofoid system, B5:61
 Tasmanian Gateway, B5:90
- Amphisphaera goruna*, Site 1172, A7:31
- amphitrite*, *Lychnocanoma*, Site 1172, A7:30–31
- Amphymenium challengerae*
 Site 1171, A6:34
 Tasmanian Gateway, B10:13
- ampliaperta*, *Helicosphaera*
 Site 1168, B7:4
 Site 1170, B7:6, 26
 Site 1171, B7:7
- amygdula*, *Dictyomitra*, Site 1172, A7:31
- andalousiensis*, *Achomosphaera*
 Kofoid system, B5:47
 Site 1168, A3:32; B2:6, 8
 Tasmanian Gateway, B5:67
- angelinum*, *Axoprunum*, Site 1168, A3:30
- angiporoides*, *Subbotina*
 Site 1168, A3:27
 Site 1170, A5:25–26
 Site 1171, A6:31–32
 Site 1172, A7:27–28
 Tasmanian Gateway, B10:11
- anisostrema*, *Pontosphaera*, Site 1168, B7:35
- Anomalinoides* spp., Site 1172, A7:29
- antarctica*, *Bolboforma*, Site 1168, A3:29
- antarctica*, *Eucampia*, Site 1168, A3:31
- antarctica*, *Selenopemphix*, Site 1169, A4:16
- antarctica*, *Thalassiothrix*, Site 1168, A3:31
- antarctica*, *Tricerapsyris*, Site 1169, A4:14
- antarctica* group, *Deflandrea*
 Kofoid system, B5:52
 Site 1168, B2:6
 Site 1170, A5:31
 Site 1171, A6:38
 Site 1172, B3:7, 9–10, 34, 43; B4:7, 38, 40
 Tasmanian Gateway, B4:6–7, 11–13; B5:75
- antarcticum*, *Arachnodinium*
 Kofoid system, B5:48
 Site 1172, B3:9, 31
 Tasmanian Gateway, B4:7; B5:68–69

- antarcticum*, *Spongoplegma*, Site 1169, A4:14
antiqua, *Cycladophora*, Site 1168, A3:29–30
antiquum, *Eucyrtidium*, Site 1172, A7:30–31
Apectodinium acme, Site 1172, A7:35
Apectodinium augustum
 Kofoid system, B5:47
 Tasmanian Gateway, B5:68
Apectodinium deflandrei
 Kofoid system, B5:47
 Tasmanian Gateway, B5:68
Apectodinium homomorphum, Site 1171, A6:38–39
Apectodinium spp.
 Site 1172, A7:35; B3:8
 Tasmanian Gateway, B5:6–7
apenninicum, *Distatodinium*
 Kofoid system, B5:53
 Tasmanian Gateway, B5:77
apertura, *Globoturborotalita*, Site 1170, A5:24
apertura, *Vozzhennikovia*, Site 1172, B3:41, 47; B4:39
applanatum, *Trinovantedinium*
 Kofoid system, B5:65
 Tasmanian Gateway, B5:96
Apteodinium australiense, Site 1168, B2:7–8, 23, 33
aquaeductum, *Unipontidinium*
 Kofoid system, B5:65
 Tasmanian Gateway, B5:97
aquilonarium, *Stylocontarium*
 Site 1168, A3:29–30
 Site 1169, A4:14
 Site 1172, A7:30
Arachnodinium antarcticum
 Kofoid system, B5:48
 Site 1172, B3:9, 31
 Tasmanian Gateway, B4:7; B5:68–69
Arachnodiscus sp., Site 1168, A3:31
architecturalis, *Distephanosira*, Tasmanian Gateway,
 B4:12–13; B10:18
Areoligera gippingensis
 Kofoid system, B5:48
 Tasmanian Gateway, B5:69
Areoligera semicirculata
 Kofoid system, B5:48
 Tasmanian Gateway, B5:69
Areoligera spp., Site 1170, A5:33
Areoligera? semicirculata, Site 1168, B2:7, 23
Areosphaeridium diktyoplokum
 Kofoid system, B5:48
 Site 1170, A5:20, 33
 Site 1171, A6:38
 Tasmanian Gateway, B4:9; B5:70
Areosphaeridium diktyoplokum–*Enneadocysta partridgei*
 groups, Southern Ocean, A1:37
Arkhangelskilla cymbiformis, Site 1172, A7:24, 26; B8:2
armagedonensis, *Selenopemphix*
 Kofoid system, B5:62
 Tasmanian Gateway, B5:92
armata, *Selenopemphix*
 Kofoid system, B5:63
 Tasmanian Gateway, B5:92
articulata, *Wetzeliella*, Site 1168, A3:32
asanoi, *Reticulofenestra*
 Site 1168, B6:5, 9
 Site 1170, B6:6
 Site 1171, B6:7, 25
 Site 1172, B6:8, 10
 Tasmanian Gateway, B6:4, 11–12
askinae, *Octodinium*
 Kofoid system, B5:59
 Site 1168, B2:6, 30
 Site 1171, B4:6, 15, 38; B5:87
 Site 1172, B3:7, 9, 38
asperus, *Nothofagidites*, Site 1168, A3:33
asymmetricum, *Callaiosphaeridium*
 Kofoid system, B5:49
 Tasmanian Gateway, B5:70
Ataxiodinium choane
 Kofoid system, B5:49
 Site 1168, B2:23–24
 Tasmanian Gateway, B5:70
Ataxiodinium confusum
 Kofoid system, B5:48
 Site 1168, B2:24
 Tasmanian Gateway, B5:70
aubryae, *Cousteaudinium*
 Kofoid system, B5:51
 Tasmanian Gateway, B5:74
augustum, *Apectodinium*
 Kofoid system, B5:47
 Tasmanian Gateway, B5:68
australiense, *Apteodinium*, Site 1168, B2:7–8, 23, 33
australiformis, *Globanomalina*, Site 1171, A6:32
Axoprunum angelinum, Site 1168, A3:30
- ## B
- balbis*, *Spongatractus*
 Site 1170, A5:29
 Site 1172, A7:31
barboi, *Proboscia*
 Site 1168, A3:31
 Site 1169, A4:15
 Site 1171, B6:7
barboi, *Simonseniella*, Site 1170, B6:6
barleeanus, *Melonis*
 Site 1169, A4:13
 Site 1170, A5:28
 Site 1172, A7:29
barronii, *Fragilariopsis*
 Site 1169, A4:15
 Site 1171, B6:7
Barssidinium evangelinae
 Kofoid system, B5:49
 Tasmanian Gateway, B5:70
bartonensis, *Cerebrocysta*
 Site 1170, A5:32
 Site 1172, A7:34; B3:31
 Tasmanian Gateway, B5:71
Batiacasphaera cassicula, Site 1172, B3:31
belemnus, *Sphenolithus*
 Site 1168, A3:24; B7:4
 Site 1170, B7:6

- bellus*, *Discoaster*
Site 1168, B7:4
Site 1172, B7:8, 24
- berggrenii*, *Discoaster*
Site 1168, B7:3
Site 1170, B7:5
Site 1171, B7:7
Site 1172, B7:8
- berggrenii?*, *Discoaster*, Site 1172, B7:25
- bicavatum*, *Senegalinium*, Site 1172, B3:40
- biconiculum*, *Laciniadinium*
Kofoid system, B5:58
Tasmanian Gateway, B5:85
- Biconidinium longissimum*
Kofoid system, B5:49
Tasmanian Gateway, B5:70
- biffii*, *Distatodinium*
Kofoid system, B5:53
Site 1168, B2:7–8, 26
Tasmanian Gateway, B5:77
- biformoides*, *Achilleodinium*
Kofoid system, B5:47
Tasmanian Gateway, B5:67
- bigelowii*, *Braarudosphaera*, Site 1168, B7:36
- bisecta*, *Reticulofenestra*
Site 1168, A3:24
Site 1171, A6:28
Site 1172, A7:23, 25
- bisecta bisecta*, *Reticulofenestra*
Site 1168, B7:5
Site 1171, B7:8, 29
Site 1172, B7:9
Tasmanian Gateway, B10:9
- bisecta s.s.*, *Reticulofenestra*, Tasmanian Gateway, B10:12, 15
- bisulcus*, *Prinsius*, Site 1171, A6:29
- Bolboforma aculeata*
Site 1169, A4:13
Site 1170, A5:28
- Bolboforma antarctica*, Site 1168, A3:29
- Bolboforma capsula*, Site 1168, A3:29
- Bolboforma* spp., Site 1171, A6:34
- Bolivina humeri*, Site 1170, A5:28
- Bolivinopsis* spp., Site 1170, A5:27
- boloniensis*, *Cerodinium*, Site 1172, A7:35
- braarudii*, *Discoaster*, Site 1172, B7:24
- Braarudosphaera bigelowii*, Site 1168, B7:36
- Braarudosphaera discula*, Site 1172, B7:36
- bradyi*, *Karriella*, Site 1171, A6:33
- bramlettei*, *Helicosphaera*, Site 1168, B7:5
- brevis*, *Subbotina*
Site 1168, A3:22, 27–28
Tasmanian Gateway, B10:11
- Brigantedinium* spp.
Site 1168, B2:9, 24
Site 1172, B3:10, 31
Sites 1170–1171, B4:8
Tasmanian Gateway, B4:14–15
- Brigantedinium?* sp.
Site 1172, B3:10, 31; B4:38
Sites 1170–1171, B4:8
- Tasmanian Gateway, B4:6, 10–11, 14–15
- brouweri*, *Discoaster*
Site 1168, B6:5
Site 1169, A4:10
Site 1171, A6:28
Site 1172, A7:25; B6:8, 10, 25
Tasmanian Gateway, B6:4
- bulbosum*, *Hystrichokolpoma*
Kofoid system, B5:56
Tasmanian Gateway, B5:82–83
- Bulimina* spp.
Site 1170, A5:27
Site 1171, A6:33
Site 1172, A7:29
- bullbrookii*, *Acarinina*, Site 1171, A6:32
- bulliforme*, *Palaeocystodinium*
Kofoid system, B5:60
Tasmanian Gateway, B5:89
- bulloides*, *Globigerina*
Site 1169, A4:11
Site 1170, A5:23; B13:8–10
Site 1171, A6:30
Site 1172, A7:27; B13:8–10
- burdigalensis*, *Ectosphaeropsis*
Kofoid system, B5:54
Site 1168, B2:7–8, 26
Tasmanian Gateway, B5:78
- C**
- Calcidiscus fuscus*, Site 1171, B7:7
- Calcidiscus leptoporus*
Site 1168, B6:5; B7:3–4
Site 1169, A4:10
Site 1170, B6:6; B7:5–6
Site 1171, B6:7; B7:7
Site 1172, B6:8; B7:8, 28, 36
- Calcidiscus leptoporus* coccosphere, Site 1172, B7:36
- Calcidiscus macintyreii*
Site 1168, A3:23, 35; B6:5, 9; B7:4; B10:6
Site 1169, A4:10
Site 1170, B6:6; B7:5
Site 1171, A6:28; B6:7, 25; B7:28
Site 1172, B6:8; B7:8–9
Tasmanian Gateway, B6:4, 11
- Calcidiscus macintyreii* Zone
Site 1168, B6:5
Site 1170, B6:5
Site 1172, B6:8
- Calcidiscus premacintyreii*
Site 1168, A3:24; B7:4
Site 1170, B7:6
Site 1171, A6:28; B7:7, 28
Site 1172, B7:9
Tasmanian Gateway, B7:9; B10:12, 19
- Calcidiscus radiatus*, Site 1171, B7:28
- Calcidiscus tropicus*
Site 1168, B7:4–5
Site 1170, B7:6
Site 1171, B7:8, 28
Site 1172, B7:9
Tasmanian Gateway, B7:9

- californicum*, *Damassadinium*
 Kofoid system, B5:52
 Tasmanian Gateway, B5:75
- Caligodinium pychnum*, Site 1168, B2:24
- Callaiosphaeridium asymmetricum*
 Kofoid system, B5:49
 Tasmanian Gateway, B5:70
- Callaiosphaeridium utinensis*, Kofoid system, B5:49
- calvertense*, *Eucyrtidium*, Site 1169, A4:13
- campanula*, *Endoscrinium*
 Kofoid system, B5:54
 Tasmanian Gateway, B5:79
- Camuralithus pelliculatus*, Site 1168, B7:34
- Cannosphaeropsis* n. sp., Site 1168, A3:32
- Cannosphaeropsis passio*
 Kofoid system, B5:49
 Tasmanian Gateway, B5:70
- Cannosphaeropsis* sp. A, Site 1168, B2:24
- Cannosphaeropsis utinensis*
 Kofoid system, B5:49
 Tasmanian Gateway, B5:71
- cantharellus*, *Cordosphaeridium*
 Kofoid system, B5:50
 Tasmanian Gateway, B5:73
- capricornum*, *Cooksonidium*, Site 1168, B2:10, 26
- capricornutus*, *Sphenolithus*, Site 1168, B7:5, 31
- capsula*, *Bolboforma*, Site 1168, A3:29
- characteristicus*, *Hemiaulus*, Tasmanian Gateway, B4:12–13;
 B10:18
- caribbeanica*, *Gephyrocapsa*
 Site 1168, B6:5
 Site 1170, B6:6
 Site 1172, B6:8
 Tasmanian Gateway, B6:4; B10:10
- carinatus*, *Triquetrorhabdulus*, Site 1168, B7:4, 30
- Carpatella cornuta*
 Kofoid system, B5:49
 Tasmanian Gateway, B5:71
- Carpocanistrum ob*, Site 1168, A3:29–30
- Carpodinium obliquicostatum*
 Kofoid system, B5:49
 Tasmanian Gateway, B5:71
- carteri*, *Helicosphaera*
 Site 1168, B6:5
 Site 1170, B6:6
 Site 1171, B6:7
 Site 1172, B6:8
- cassicula*, *Batiacasphaera*, Site 1172, B3:31
- Cassiculosphaeridia reticulata*
 Kofoid system, B5:49
 Tasmanian Gateway, B5:71
- cassiculum*, *Impagidinium*, Site 1172, B3:37, 45
- Cassidium fragile*, Site 1171, A6:39
- castanea*, *Trichodinium*
 Kofoid system, B5:65
 Tasmanian Gateway, B5:96
- Catapsydrax dissimilis*, Tasmanian Gateway, B10:19
- Catinaster coalitus*
 Site 1168, B7:4, 24
 Site 1170, B7:5
- Catinaster coalitus* Zone
 Site 1170, B7:5
 Site 1172, B7:8
- Cavitatus jouseanus*
 Site 1170, A5:29
 Tasmanian Gateway, B4:12–13
- Cavitatus (Synedra) jouseanus*
 Site 1171, A6:35
 Site 1172, A7:32
- Cenosphaera coronata*
 Site 1170, A5:28
 Site 1171, A6:34
- Cenosphaera coronataformis*
 Site 1170, A5:28
 Site 1171, A6:34
- Cenosphaera* sp., Site 1170, A5:28
- centrocarpum*, *Operculodinium*, Site 1168, A3:32; B2:34
- ceratioides*, *Xenascus*
 Kofoid system, B5:66
 Tasmanian Gateway, B5:98
- Ceratolithus acutus*
 Site 1168, A3:24
 Site 1169, A4:10
 Site 1170, A5:21
- Cerebrocysta bartonensis*
 Site 1170, A5:32
 Site 1172, A7:34; B3:31
 Tasmanian Gateway, B5:71
- Cerebrocysta poulsenii*
 Kofoid system, B5:50
 Site 1168, B2:6, 8, 24–25
 Tasmanian Gateway, B5:71
- Cerebrocysta* sp. A, Site 1168, B2:25
- Cerebrocysta* spp.
 Site 1168, B2:8, 25
 Site 1172, B3:42; B4:40
- Cerebrocysta* spp. n. sp., Site 1168, A3:32; B4:21
- Cerodinium boloniensis*, Site 1172, A7:35
- Cerodinium dartmoorium*, Site 1172, B3:32, 42
- Cerodinium diebelii*
 Kofoid system, B5:50
 Tasmanian Gateway, B5:71
- Cerodinium* sp. A, Site 1172, B3:32, 42
- Cerodinium speciosum*, Site 1172, B3:32
- Cerodinium* spp., Site 1172, B3:7–8, 12
- Cerodinium striatum*, Site 1172, B3:32
- Cerodinium wardenense*
 Kofoid system, B5:50
 Tasmanian Gateway, B5:72
- Chaetoceros* resting spores
 Site 1168, A3:31
 Site 1170, A5:30
 Site 1171, A6:35
 Site 1172, A7:32
- challengerae*, *Amphymenium*
 Site 1171, A6:34
 Tasmanian Gateway, B10:13
- challengeri*, *Discoaster*, Site 1172, B7:24
- challengeri*, *Triquetrorhabdulus*, Site 1168, B7:30
- Charlesdowniea coleothrypta*, Site 1171, A6:38

- Charlesdowniea columna*
Kofoid system, B5:50
Tasmanian Gateway, B5:72
- Charlesdowniea crassiramosa*
Kofoid system, B5:50
Tasmanian Gateway, B5:72
- Charlesdowniea edwardsii*
Kofoid system, B5:50
Site 1171, A6:38
Site 1172, B3:9
Tasmanian Gateway, B5:72
- Charlesdowniea edwardsii* group, Site 1172, B3:32
- Chatangiella verrucosa*
Kofoid system, B5:50
Tasmanian Gateway, B5:72
- chathamense*, *Dalella*
Site 1169, A4:16
Site 1170, A5:30
- cheni*, *Eucyrtidium*, Site 1172, A7:31
- Chiasmolithus altus*
Site 1168, A3:24
Site 1171, A6:28
Site 1172, A7:25
Tasmanian Gateway, B10:12, 15
- Chiasmolithus solitus*
Site 1170, A5:20–21
Site 1171, A6:29
Site 1172, A7:26
Tasmanian Gateway, B10:11
- Chichaouadinium vestitum*
Kofoid system, B5:51
Tasmanian Gateway, B5:72–73
- Chiloguembelina cubensis*
Site 1168, A3:22, 27
Site 1170, A5:25
Site 1171, A6:31
Tasmanian Gateway, B10:9, 11
- Chiloguembelina cubensis* Zone, Site 1170, A5:25
- Chilostomella oolina*
Site 1169, A4:13
Site 1170, A5:28
Site 1171, A6:33
Site 1172, A7:29
- Chiropteridium galea*
Kofoid system, B5:51
Tasmanian Gateway, B5:73
- Chiropteridium* spp., Site 1168, B2:7, 25
- chlamydotheca*, *Samlandia*, Site 1168, B2:32
- choane*, *Ataxiodinium*
Kofoid system, B5:49
Site 1168, B2:23–24
Tasmanian Gateway, B5:70
- choanophorum*, *Melitasphaeridium*, Site 1168, B2:29
- Cibicidoides mundulus*
Site 1170, A5:27; B13:8–10
Site 1171, A6:33
Site 1172, A7:29; B13:8–10
Tasmanian Gateway, B10:6
- Cibicidoides* spp.
Site 1171, A6:33
Site 1172, A7:29
- Cibicidoides wuellerstorfi*
Site 1170, B13:8–10
Site 1172, B13:8–10
Tasmanian Gateway, B10:6
- cienkowskii* group, *Eucyrtidium*, Site 1168, A3:30
- cinctum*, *Hystrichokolpoma*
Kofoid system, B5:56
Tasmanian Gateway, B5:83
- Circulodinium distinctum*, Site 1168, A3:32
- circumtabulata*, *Alisocysta*
Kofoid system, B5:47
Site 1172, B3:7, 30, 41–42
Tasmanian Gateway, B5:67
- cladoides*, *Dinopterygium*
Kofoid system, B5:53
Tasmanian Gateway, B5:76
- Clausicoccus obrutus*
Site 1168, B7:34
Site 1170, B7:6
- clavigera*, *Rhabdosphaera*, Site 1168, B6:25
- Cleistosphaeridium diversispinosum*, Site 1172, B3:32
- Cleistosphaeridium placacanthum*, Site 1172, B3:33
- Cleistosphaeridium* spp.
Site 1168, B2:7, 10, 33
Site 1172, B3:10, 12, 42; B4:7, 11
- coalitus*, *Catinaster*
Site 1168, B7:4, 24
Site 1170, B7:5
- Coccolithus formosus*, Site 1168, A3:24
- Coccolithus miopelagicus*
Site 1168, B7:4
Site 1170, B7:5–6
Site 1171, A6:28; B7:7, 35
Site 1172, B7:8–9
- Coccolithus miopelagicus* Subzone
Site 1168, B7:4
Site 1171, B7:7
- Coccolithus pelagicus*
Site 1168, B6:5; B7:3–5
Site 1169, A4:10
Site 1170, B6:6; B7:5–6
Site 1171, B6:7; B7:7, 35
Site 1172, B6:8; B7:8–9; B8:2
- colemanii*, *Spinidinium*, Site 1170, B4:39
- coleothrypta*, *Charlesdowniea*, Site 1171, A6:38
- collactea*, *Acarinina*, Site 1171, A6:32
- colligerum*, *Diphyes*
Kofoid system, B5:53
Tasmanian Gateway, B5:6
- columna*, *Charlesdowniea*
Kofoid system, B5:50
Tasmanian Gateway, B5:72
- compacta*, *Helicosphaera*, Site 1168, B7:5, 27
- compactus*, *Sphenolithus*
Site 1168, B7:4, 32
Site 1172, B7:9, 36
- complicata*, *Thalassiosira*, Site 1170, A5:29
- condylos*, *Dracodinium*
Kofoid system, B5:53
Tasmanian Gateway, B5:77
- conerae*, *Stoveracysta*, Site 1168, B2:8

- conerae*, *Stoveracysta* cf., Site 1168, B2:32
confusum, *Ataxiodinium*
 Kofoid system, B5:48
 Site 1168, B2:24
 Tasmanian Gateway, B5:70
conica, *Lychmoccanoma*
 Site 1170, A5:29
 Site 1171, A6:34
conicus, *Sphenolithus*, Site 1168, B7:32
connecta, *Globoturborotalita*, Site 1170, A5:24–25
conoidea, *Globorotalia*, Site 1168, A3:26
conomiozea, *Globorotalia*
 Site 1168, A3:25–26
 Site 1170, A5:23–24
conopeum, *Gerdioecysta*
 Kofoid system, B5:55
 Tasmanian Gateway, B5:80–81
Conosphaeridium striatoconum
 Kofoid system, B5:51
 Tasmanian Gateway, B5:73
continua, *Paragloborotalia*
 Site 1168, A3:26
 Site 1169, A4:12
 Site 1170, A5:23
 Site 1171, A6:40
 Tasmanian Gateway, B10:13
convallis, *Minylitha*
 Site 1168, B7:3–4, 35
 Site 1171, B7:7
convexa, *Deflandrea*
 Kofoid system, B5:52
 Site 1168, B2:26
 Site 1172, A7:34; B3:34, 43
 Tasmanian Gateway, B5:75
Cooksonidium capricornum, Site 1168, B2:10, 26
Cordosphaeridium cantharellus
 Kofoid system, B5:50
 Tasmanian Gateway, B5:73
Cordosphaeridium fibrospinosum group, Site 1172, B3:33
Cordosphaeridium funiculatum
 Kofoid system, B5:51
 Tasmanian Gateway, B5:73
Cordosphaeridium minimum, Site 1168, B2:33
Cordosphaeridium spp.
 Site 1170, A5:34
 Site 1171, A6:39
cornuta, *Carpatella*
 Kofoid system, B5:49
 Tasmanian Gateway, B5:71
Cornutella profunda, Site 1168, A3:30
coronata, *Cenosphaera*
 Site 1170, A5:28
 Site 1171, A6:34
coronata, *Lampromitra*, Site 1169, A4:13
coronataformis, *Cenosphaera*
 Site 1170, A5:28
 Site 1171, A6:34
coronatum, *Stephodinium*
 Kofoid system, B5:64
 Tasmanian Gateway, B5:95
Coronocyclus nitescens oval, Site 1171, B7:32
Coronocyclus nitescens round, Site 1170, B7:32
Corrudinium harlandii
 Kofoid system, B5:51
 Site 1169, A4:16
 Site 1170, A5:30–31
 Tasmanian Gateway, B5:74
Corrudinium incompositum
 Kofoid system, B5:51
 Site 1172, B3:42; B4:40
 Tasmanian Gateway, B5:74
Corrudinium sp., Site 1172, B3:33; B4:40
Coscinodiscus lewisianus var. *levis*, Tasmanian Gateway,
 B10:11
Coscinodiscus spp., Site 1171, A6:35
costata, *Odontochitina*
 Kofoid system, B5:59
 Tasmanian Gateway, B5:87
Cousteaudinium aubryae
 Kofoid system, B5:51
 Tasmanian Gateway, B5:74
crassaformis, *Globorotalia*
 Site 1169, A4:11
 Site 1170, A5:23
 Site 1171, A6:30
 Site 1172, A7:27
crassiramosa, *Charlesdowniea*
 Kofoid system, B5:50
 Tasmanian Gateway, B5:72
Crassiretrirulites vanraadshovenii, Site 1168, A3:33
crassitabulata, *Eisenackia*, B3:44
Cribosphaerella daniae, Site 1172, A7:24, 26; B8:2
Cribroperidinium sp. A, Site 1172, B3:33
Cryptococcolithus mediaperforatus, Site 1170, B7:33
cubensis, *Chiloguembelina*
 Site 1168, A3:22, 27
 Site 1170, A5:25
 Site 1171, A6:31
 Tasmanian Gateway, B10:9, 11
cuneiformis, *Hemidiscus*
 Site 1169, A4:15
 Site 1171, A6:36
curva, *Paragloborotalia*, Site 1168, A3:26
curva, *Praeorbulina*
 Site 1172, A7:27
 Tasmanian Gateway, B10:10, 19
Cyathidites minor, Site 1168, A3:33
Cycladophora antiqua, Site 1168, A3:29–30
Cycladophora davisiana, Site 1169, A4:14
Cycladophora humerus, Site 1169, A4:14
Cycladophora pliocenica, Site 1169, A4:14
Cycladophora spongothorax, Site 1169, A4:14
Cyclapophysis monmouthensis
 Kofoid system, B5:51
 Tasmanian Gateway, B5:74
Cyclicargolithus abisectus
 Site 1168, B7:4
 Site 1170, A5:21
 Site 1171, A6:28
Cyclicargolithus floridanus
 Site 1168, A3:24; B7:4–5, 26
 Site 1169, A4:10–11

- Site 1170, B7:6
 Site 1171, A6:28; B7:7
 Site 1172, B7:8–9
 Tasmanian Gateway, B10:10, 12, 19
Cyclonephelium filoreticulatum, Kofoid system, B5:51
Cyclonephelium membraniophorum
 Kofoid system, B5:52
 Tasmanian Gateway, B5:74–75
cygniformis, *Deflandrea*
 Kofoid system, B5:52
 Site 1170, A5:31
 Site 1171, A6:37
 Tasmanian Gateway, B5:76
cymbiformis, *Arkhangelskilla*, Site 1172, A7:24, 26; B8:2
Cyrtocapsella japonica
 Site 1168, A3:30; B6:5
 Site 1169, A4:14
 Site 1171, A6:34
 Site 1172, A7:30; B6:8
Cyrtocapsella tetrapera
 Site 1168, A3:30
 Site 1169, A4:14, 16
 Site 1170, A5:28
 Site 1171, A6:34
 Site 1172, A7:30
- D**
- dalei*, *Pentapharsodinium*, Site 1168, B2:9, 31
Dallella chathamense
 Site 1169, A4:16
 Site 1170, A5:30
Damassadinium californicum
 Kofoid system, B5:52
 Tasmanian Gateway, B5:75
daniae, *Cribosphaerella*, Site 1172, A7:24, 26; B8:2
Dapsilidinium sp., Site 1168, B2:33
dartmoorium, *Cerodinium*, Site 1172, B3:32, 42
daviesii, *Reticulofenestra*
 Site 1168, A3:24
 Site 1170, A5:22
davisiana, *Cycladophora*, Site 1169, A4:14
deceptrix, *Nonion*, Site 1171, A6:33
decoraperta, *Globoturborotalita*, Site 1170, A5:24
decussata, *Micula*, Site 1172, A7:26
Deflandrea antarctica group
 Kofoid system, B5:52
 Site 1168, B2:6
 Site 1170, A5:31
 Site 1171, A6:38
 Site 1172, B3:7, 9–10, 34, 43; B4:7, 38, 40
 Tasmanian Gateway, B4:6–7, 11–13; B5:75
Deflandrea convexa
 Kofoid system, B5:52
 Site 1168, B2:26
 Site 1172, A7:34; B3:34, 43
 Tasmanian Gateway, B5:75
Deflandrea cygniformis
 Kofoid system, B5:52
 Site 1170, A5:31
 Site 1171, A6:37
 Tasmanian Gateway, B5:76
Deflandrea oebisfeldensis
 Kofoid system, B5:52
 Tasmanian Gateway, B5:76
Deflandrea phosphoritica
 Kofoid system, B5:52
 Site 1168, A3:32; B2:10
 Site 1170, A5:29, 31, 34, 76–77
 Site 1171, A6:37–39
 Site 1172, A7:33–34; B3:34
 Southern Ocean, A1:37
 Tasmanian Gateway, B5:76
 “*Deflandrea prydzensis*,” Tasmanian Gateway, B4:11
Deflandrea sp. A
 Site 1170, B4:8, 38
 Site 1172, B3:10, 35; B4:38, 40
 Tasmanian Gateway, B4:11
Deflandrea spp.
 Site 1170, A5:21, 34, 76–77
 Site 1172, B3:8, 11–12; B4:7
 Tasmanian Gateway, B4:6, 13–14; B10:5
deflandrei, *Apectodinium*
 Kofoid system, B5:47
 Tasmanian Gateway, B5:68
deflandrei, *Discoaster*, Site 1170, B7:24
dehiscens, *Globoquadrina*
 Site 1168, A3:27; B9:7
 Site 1170, A5:25
 Site 1171, A6:31
 Site 1172, A7:27
delicata, *Thalassiphora*
 Kofoid system, B5:65
 Tasmanian Gateway, B5:95–96
delicata group, *Samlandia*, Site 1172, B3:8
delicatus, *Amaurolithus*
 Site 1168, B7:3
 Site 1169, A4:10, 16
 Site 1170, A5:21; B7:5, 25
 Site 1172, B7:8
 Tasmanian Gateway, B10:13
delitiense, *Spongodinium*
 Kofoid system, B5:64
 Tasmanian Gateway, B5:94–95
delmontensis, *Stichocorys*
 Site 1168, A3:30
 Site 1170, A5:28, 40
 Site 1171, A6:34
 Site 1172, A7:30
densispinatum, *Spinidinium*, Site 1171, A6:39
Denticulopsis dimorpha
 Site 1169, A4:15
 Site 1172, A7:32
 Tasmanian Gateway, B10:13
Dentoglobigerina globularis, Site 1168, B9:7
desueta, *Pontosphaera*, Site 1168, B7:35
detecta, *Ericsonia*, Site 1171, B7:34
Diconodinium spp., Site 1172, B3:7, 46
Dictyomitra amygdula, Site 1172, A7:31
Dictyophimus splendens
 Site 1168, A3:30
 Site 1169, A4:13
 Site 1170, A5:28

- diebelii*, *Cerodinium*
 Kofoid system, B5:50
 Tasmanian Gateway, B5:71
- difficile*, *Heterosphaeridium*
 Kofoid system, B5:55
 Tasmanian Gateway, B5:82
- diktyoplokum*, *Areosphaeridium*
 Kofoid system, B5:48
 Site 1170, A5:20, 33
 Site 1171, A6:38
 Southern Ocean, A1:37
 Tasmanian Gateway, B4:9; B5:70
- dilwynense*, *Senegalinium*, Site 1172, B3:46
- dimorpha*, *Denticulopsis*
 Site 1169, A4:15
 Site 1172, A7:32
 Tasmanian Gateway, B10:13
- Dinogymnium acuminatum*, Kofoid system, B5:52
- Dinogymnium* sp.
 Kofoid system, B5:52
 Tasmanian Gateway, B5:76
- Dinopterygium cladoides*
 Kofoid system, B5:53
 Tasmanian Gateway, B5:76
- Dinopterygium* sp. A, Site 1172, B3:35, 43
- Dinopterygium* spp. n. sp., Site 1172, B3:7
- dionaeacysta*, *Selenopemphix*
 Kofoid system, B5:63
 Tasmanian Gateway, B5:92–93
- Diphyes colligerum*
 Kofoid system, B5:53
 Tasmanian Gateway, B5:6
- Diphyes ficusoides*
 Kofoid system, B5:53
 Site 1168, A3:32; B2:26
 Tasmanian Gateway, B5:6, 77
- disbelemnus*, *Sphenolithus*
 Site 1168, B7:31
 Tasmanian Gateway, B7:9
- Discoaster* 5-rayed spp., Site 1172, B7:24
- Discoaster* 6-rayed spp.
 Site 1168, B7:4–5
 Site 1170, B7:5
 Site 1171, B7:7
 Site 1172, B7:8–9
 Tasmanian Seaway, B1:6
- Discoaster bellus*
 Site 1168, B7:4
 Site 1172, B7:8, 24
- Discoaster bellus* Zone, Site 1172, B7:8
- Discoaster berggrenii*
 Site 1168, B7:3
 Site 1170, B7:5
 Site 1171, B7:7
 Site 1172, B7:8
- Discoaster berggrenii* Subzone
 Site 1170, B7:5
 Site 1171, B7:7
 Site 1172, B7:8
- Discoaster berggrenii?*, Site 1172, B7:25
- Discoaster braarudii*, Site 1172, B7:24
- Discoaster brouweri*
 Site 1168, B6:5
 Site 1169, A4:10
 Site 1171, A6:28
 Site 1172, A7:25; B6:8, 10, 25
 Tasmanian Gateway, B6:4
- Discoaster challengerii*, Site 1172, B7:24
- Discoaster deflandrei*, Site 1170, B7:24
- Discoaster deflandrei* Subzone, Site 1168, B7:5
- Discoaster druggii*
 Site 1168, B7:4
 Site 1171, B7:7
- Discoaster druggii* Subzone, Site 1171, B7:7
- Discoaster exilis*, Site 1172, B7:24
- Discoaster extensus*, Site 1168, B7:24
- Discoaster hamatus*
 Site 1168, B7:4
 Site 1172, B7:25
- Discoaster hamatus* Zone, Site 1172, B7:8
- Discoaster kuepperi*
 Site 1171, A6:29
 Site 1172, A7:26
- Discoaster kugleri*
 Site 1168, B7:4
 Site 1170, B7:6
 Site 1171, B7:7
- Discoaster kugleri* Subzone
 Site 1168, B7:4
 Site 1170, B7:6
 Site 1171, B7:7
 Site 1172, B7:8
- Discoaster loeblichii*
 Site 1168, B7:3
 Site 1169, A4:10–11
 Site 1170, A5:40
 Site 1172, B7:25
- Discoaster neorectus*
 Site 1168, B7:3
 Site 1170, B7:5
 Site 1171, B7:7
 Site 1172, B7:8
- Discoaster neorectus* Subzone
 Site 1170, B7:5
 Site 1171, B7:7
 Site 1172, B7:8
- Discoaster pentaradiatus*, Site 1172, A7:25
- Discoaster quinquerramus*
 Site 1168, B7:3
 Site 1169, A4:10
 Site 1171, A6:28
 Site 1172, A7:25; B7:8, 25
 Tasmanian Gateway, B10:19
- Discoaster saipanensis*, Site 1168, A3:23–24
- Discoaster* spp., Site 1170, B7:24
- Discoaster surculus*
 Site 1168, A3:23, 35; B6:5; B7:3
 Site 1172, B7:25
- Discoaster triradiatus*, Site 1172, B7:25
- discula*, *Braarudosphaera*, Site 1172, B7:36
- dispertitum*, *Impagidinium*, Site 1172, B3:37, 45; B4:40
- dissimilis*, *Catapsydrax*, Tasmanian Gateway, B10:19

dissimilis, *Sphenolithus*, Site 1172, B7:31

Distatodinium apenninicum

Kofoid system, B5:53

Tasmanian Gateway, B5:77

Distatodinium biffii

Kofoid system, B5:53

Site 1168, B2:7–8, 26

Tasmanian Gateway, B5:77

distentus, *Sphenolithus*, Site 1168, A3:24

Distephanosira architecturalis, Tasmanian Gateway,

B4:12–13; B10:18

distinctum, *Alterbidinium*

Site 1170, A5:32; B4:8

Site 1171, A6:38; B4:8

Site 1172, A7:34; B3:9, 31; B4:7, 38

Tasmanian Gateway, B4:11–12

distinctum, *Alterbidinium?*

Kofoid system, B5:47

Tasmanian Gateway, B5:68

distinctum, *Circulodinium*, Site 1168, A3:32

distinctum, *Phthanoperidinium*

Kofoid system, B5:61

Tasmanian Gateway, B5:9–10

divergens, *Operculodinium*

Kofoid system, B5:60

Tasmanian Gateway, B5:88

"*diversa*," "*Odontochitina*"

Kofoid system, B5:59

Tasmanian Gateway, B5:88

diversispinosum, *Cleistosphaeridium*, Site 1172, B3:32

downiei, *Nematosphaeropsis*

Kofoid system, B5:59

Tasmanian Gateway, B5:87

draco, *Rhombodinium*

Kofoid system, B5:62

Tasmanian Gateway, B5:91

Dracodinium condylos

Kofoid system, B5:53

Tasmanian Gateway, B5:77

Dracodinium pachydermum, Tasmanian Gateway, B5:6

Dracodinium politum

Kofoid system, B5:53

Tasmanian Gateway, B5:77

Dracodinium rhomboideum, Tasmanian Gateway, B5:6

Dracodinium varielongitudum

Kofoid system, B5:53

Tasmanian Gateway, B5:77

Dracodinium waipawaense

Kofoid system, B5:53

Site 1171, A6:38

Site 1172, B3:8, 35, 43

Tasmanian Gateway, B5:78

druggii, *Discoaster*

Site 1168, B7:4

Site 1171, B7:7

druggii, *Manumiella*, Site 1172, A7:35; B3:7, 38, 45

druggii, *Sumatradinium*

Kofoid system, B5:64

Tasmanian Gateway, B5:95

Drupptractus irregularis, Site 1169, A4:14

E

Eatonicysta furensis

Kofoid system, B5:53

Tasmanian Gateway, B5:78

Eatonicysta pterococcoides

Kofoid system, B5:53

Tasmanian Gateway, B5:78

Eatonicysta ursulae

Kofoid system, B5:53

Tasmanian Gateway, B5:6, 78

echigoense, *Operculodinium*

Kofoid system, B5:60

Site 1168, A3:32; B2:9

Tasmanian Gateway, B5:89

echinatum, *Phthanoperidinium*

Site 1172, B3:9, 46; B4:40

Tasmanian Gateway, B4:13

echinoideum, *Spinidinium*

Kofoid system, B5:63

Tasmanian Gateway, B5:93

echinosuturatum, *Wilsonidinium*

Kofoid system, B5:66

Tasmanian Gateway, B5:98

Ectosphaeropsis burdigalensis

Kofoid system, B5:54

Site 1168, B2:7–8, 26

Tasmanian Gateway, B5:78

Edwardsiella sexispinosa

Kofoid system, B5:54

Site 1168, B2:6, 8, 26

Tasmanian Gateway, B5:79

edwardsii, *Charlesdowniea*

Kofoid system, B5:50

Site 1171, A6:38

Site 1172, B3:9

Tasmanian Gateway, B5:72

edwardsii group, *Charlesdowniea*, Site 1172, B3:32

Eggerelloides spp., Site 1171, A6:33

Eiffellithus turriseiffelii, Site 1172, A7:26; B8:2

eirikianum, *Operculodinium?*

Kofoid system, B5:60

Tasmanian Gateway, B5:89

Eisenackia crassitabulata, B3:44

elegans, *Hoeglundina*, Site 1168, A3:29

Ellipsodinium rugulosum

Kofoid system, B5:54

Tasmanian Gateway, B5:79

elongata, *Helicosphaera*, Site 1168, B7:26

Elphidium saginatum, Site 1170, A5:27

Elphidium spp.

Site 1170, A5:27

Site 1172, A7:29

Emiliana huxleyi

Site 1168, A3:23, 35; B6:5, 25; B10:6

Site 1169, A4:10

Site 1170, B6:6

Site 1171, A6:28; B6:7

Site 1172, A7:25; B6:8

Tasmanian Gateway, B10:13, 16

- Emiliania huxleyi* acme Zone
 Site 1168, B6:5
 Site 1170, B6:6
 Site 1171, B6:7
 Site 1172, B6:8
- Emiliania huxleyi* Zone
 Site 1168, B6:5
 Site 1170, B6:6
 Site 1171, B6:7
 Site 1172, B6:8
- Emmetrocysta urnaformis*, Site 1168, B2:26
- Endoscrinium campanula*
 Kofoid system, B5:54
 Tasmanian Gateway, B5:79
- Enneadocysta* acme
 Site 1170, A5:32
 Site 1171, A6:38
 Site 1172, A7:34
- Enneadocysta harrisii*, Site 1170, A5:33
- Enneadocysta partridgei*
 Kofoid system, B5:54
 Site 1168, B2:6
 Site 1170, A5:15, 20–21, 31, 33–34, 43, 77
 Site 1171, A6:37–38
 Site 1172, A7:33; B3:7, 9–10, 35, 44; B4:7, 38, 40
 Southern Ocean, A1:37
 Tasmanian Gateway, B4:6, 9, 14; B5:79; B10:9, 11
- Enneadocysta pectiniformis*
 Kofoid system, B5:54
 Site 1170, A5:33
 Tasmanian Gateway, B5:79
- Enneadocysta* sp. A
 Site 1170, B4:9, 14, 38
 Site 1172, B3:9, 44
- Enneadocysta* spp.
 Site 1172, B3:9, 11–12
 Tasmanian Gateway, B4:7; B10:5
- Eocladopyxis peniculata*, Site 1172, B3:35
- Eocladopyxis* sp.
 Site 1168, B2:33
 Site 1172, B3:44
- Eocladopyxis* spp. n. sp., Site 1168, A3:32; B4:22
- Epelidosphaeridia spinosa*
 Kofoid system, B5:54
 Tasmanian Gateway, B5:80
- Epistominella exigua*, Site 1171, A6:33
- Ericsonia detecta*, Site 1171, B7:34
- etrusca*, *Galeacysta*
 Kofoid system, B5:55
 Tasmanian Gateway, B5:80
- euapertura*, *Turborotalia*, Tasmanian Gateway, B10:18
- Eucampia antarctica*, Site 1168, A3:31
- euclaense*, *Alisogymnium*
 Kofoid system, B5:47
 Tasmanian Gateway, B5:68
- Eucyrtidium antiquum*, Site 1172, A7:30–31
- Eucyrtidium calvertense*, Site 1169, A4:13
- Eucyrtidium calvertense* Zone, Site 1169, A4:13
- Eucyrtidium cheni*, Site 1172, A7:31
- Eucyrtidium cienkowskii* group, Site 1168, A3:30
- Eucyrtidium spinosum*
 Site 1168, A3:30
 Site 1171, A6:34
 Site 1172, A7:31
- euphratis*, *Helicosphaera*, Site 1168, B7:26
- Eurydinium* sp., Site 1168, B2:27
- evangelinae*, *Barssidinium*
 Kofoid system, B5:49
 Tasmanian Gateway, B5:70
- evittii*, *Trithyrodinium*
 Kofoid system, B5:65
 Site 1172, A7:24, 35; B3:8, 41
 Tasmanian Gateway, B5:97
- exigua*, *Epistominella*, Site 1171, A6:33
- exilis*, *Discoaster*, Site 1172, B7:24
- extensus*, *Discoaster*, Site 1168, B7:24
- ## F
- fairhavenensis*, *Pyxidinospis*
 Kofoid system, B5:61
 Site 1168, A3:32
 Tasmanian Gateway, B5:90
- falconensis*, *Globigerina*, Site 1169, A4:11
- farnsworthii*, *Triquetrorhabdulus*, Site 1168, B7:30
- fenestrata*, *Aiora*, Site 1172, B3:30
- fibrospinosum* group, *Cordosphaeridium*, Site 1172, B3:33
- ficusoides*, *Diphyes*
 Kofoid system, B5:53
 Site 1168, A3:32; B2:26
 Tasmanian Gateway, B5:6, 77
- filifera*, *Filisphaera*
 Kofoid system, B5:55
 Tasmanian Gateway, B5:80
- Filisphaera filifera*
 Kofoid system, B5:55
 Tasmanian Gateway, B5:80
- filoreticulatum*, *Cyclonephelium*, Kofoid system, B5:51
- filosa*, *Turbiosphaera*
 Site 1172, B3:10, 41, 47; B4:7, 39, 41
 Tasmanian Gateway, B4:11
- Florentinia mayii*
 Kofoid system, B5:55
 Tasmanian Gateway, B5:80
- floridanus*, *Cyclicargolithus*
 Site 1168, A3:24; B7:4–5, 26
 Site 1169, A4:10–11
 Site 1170, B7:6
 Site 1171, A6:28; B7:7
 Site 1172, B7:8–9
 Tasmanian Gateway, B10:10, 12, 19
- floripes*, *Homotryblium*
 Kofoid system, B5:56
 Tasmanian Gateway, B5:82
- Fontbotia wuellerstorfi*
 Site 1168, A3:29
 Site 1170, A5:27
 Site 1171, A6:33
 Site 1172, A7:29
- formosus*, *Coccolithus*, Site 1168, A3:24

Fragilariopsis barronii

Site 1169, A4:15

Site 1171, B6:7

Fragilariopsis lacrima, Site 1169, A4:15*Fragilariopsis reinholdii*, Site 1168, A3:31, 33*Fragilariopsis reinholdii* Zone, Tasmanian Gateway, B10:4*Fragilariopsis weaveri*

Site 1169, A4:15

Site 1170, A5:29

fragile, *Cassidium*, Site 1171, A6:39

framboidal pyrite spheres, Site 1168, B2:34

frequens, *Nephrolithus*, Site 1172, A7:24, 26; B8:2*fryxellae*, *Actinocyclus*, Site 1169, A4:11, 15–16*funiculatum*, *Cordosphaeridium*

Kofoid system, B5:51

Tasmanian Gateway, B5:73

furcatum, *Raphidodinium*

Kofoid system, B5:61

Tasmanian Gateway, B5:90

furensis, *Eatonicysta*

Kofoid system, B5:53

Tasmanian Gateway, B5:78

fusa, *Iselithina*, Site 1168, B7:32*fuscus*, *Calcidiscus*, Site 1171, B7:7**G***galea*, *Chiropteridium*

Kofoid system, B5:51

Tasmanian Gateway, B5:73

Galeacysta etrusca

Kofoid system, B5:55

Tasmanian Gateway, B5:80

Gelatia inflata

Site 1168, B2:10, 27

Site 1171, B4:10, 38

gelida, *Reticulofenestra*

Site 1168, B7:4

Site 1170, B7:5–6

Site 1171, A6:28; B7:7

Site 1172, B7:8–9, 29

gelida, *Rocella*

Site 1171, A6:35

Tasmanian Gateway, B10:12

gelida var. *gelida*, *Rocella*, Site 1169, A4:15*gelida* var. *schraderi*, *Rocella*, Site 1169, A4:15*Geminilithella rotula*

Site 1168, B7:4

Site 1170, B7:6, 34

Site 1172, B7:9

Gephyrocapsa. See also large *Gephyrocapsa* spp.; small *Gephyrocapsa* spp.*Gephyrocapsa caribbeanica*

Site 1168, B6:5

Site 1170, B6:6

Site 1172, B6:8

Tasmanian Gateway, B6:4; B10:10

Gephyrocapsa oceanica

Site 1170, B6:6, 25

Site 1172, B6:8

Tasmanian Gateway, B6:4

Gephyrocapsa oceanica Zone

Site 1168, B6:5

Site 1170, B6:6

Site 1171, B6:7

Site 1172, B6:8

Gephyrocapsa parallela

Site 1171, B6:7

Tasmanian Gateway, B6:4

Gerdiocysta conopeum

Kofoid system, B5:55

Tasmanian Gateway, B5:80–81

ginella, *Trigonopyxidia*

Kofoid system, B5:65

Tasmanian Gateway, B5:96

gippingensis, *Areoligera*

Kofoid system, B5:48

Tasmanian Gateway, B5:69

Glaphyrocysta intricata, Site 1168, B2:27*Glaphyrocysta semitecta*

Kofoid system, B5:55

Tasmanian Gateway, B5:81

Glaphyrocysta spp.

Site 1168, A3:32

Site 1170, A5:34

Site 1171, A6:39

Site 1172, A7:34; B3:8, 35–36, 44

Glaphyrocysta spp. n. sp., Tasmanian Gateway, B3:19; B4:22*Globanomalina australiformis*, Site 1171, A6:32*Globanomalina ovalis*, Site 1171, A6:32*Globigerapsis index*, Tasmanian Gateway, B10:8*Globigerina bulloides*

Site 1169, A4:11

Site 1170, A5:23; B13:8–10

Site 1171, A6:30

Site 1172, A7:27; B13:8–10

Globigerina falconensis, Site 1169, A4:11*Globigerina labiacrassata*

Site 1170, A5:26

Tasmanian Gateway, B10:9

Globigerina quinqueloba

Site 1169, A4:11–12

Site 1170, A5:23

Globigerinatheka index

Site 1168, A3:22, 28

Site 1171, A6:29

Site 1172, A7:28

Globigerinella aequilateralis, Site 1170, A5:23*Globigerinita glutinata*, Site 1169, A4:11–12*Globigerinoides trilobus*

Site 1170, A5:24

Site 1172, A7:27

Globigerinoides trilobus Zone

Site 1168, A3:27

Site 1170, A5:24

Globobulimina spp., Site 1168, A3:28*Globocassidulina* spp.

Site 1168, A3:28–29

Site 1172, A7:29

Globocassidulina subglobosa, Site 1168, A3:29*Globoconella* group, Southern Ocean, A1:35

- Globoconella plexus*, Site 1169, A4:11
- Globoquadrina dehiscens*
Site 1168, A3:27; B9:7
Site 1170, A5:25
Site 1171, A6:31
Site 1172, A7:27
- Globoquadrina dehiscens* Zone
Site 1168, A3:27
Site 1170, A5:25
- Globorotalia conoidea*, Site 1168, A3:26
- Globorotalia conomiozea*
Site 1168, A3:25–26
Site 1170, A5:23–24
- Globorotalia conomiozea* Zone
Site 1168, A3:25–26
Site 1170, A5:23
- Globorotalia crassaformis*
Site 1169, A4:11
Site 1170, A5:23
Site 1171, A6:30
Site 1172, A7:27
- Globorotalia inflata*
Site 1169, A4:12
Site 1171, A6:30
Site 1172, A7:27
- Globorotalia inflata* Zone
Site 1168, A3:25
Site 1169, A4:12
Site 1170, A5:23
- Globorotalia limbata*, Site 1171, A6:30
- Globorotalia miotumida* Zone
Site 1168, A3:26
Site 1170, A5:23
- Globorotalia miozea*, Tasmanian Gateway, B10:19
- Globorotalia pliozea*
Site 1168, A3:25
Site 1169, A4:12, 16
Site 1170, A5:23
- Globorotalia pliozea* Subzone, Site 1170, A5:23
- Globorotalia pliozea* Zone
Site 1168, A3:25
Site 1169, A4:12
- Globorotalia puncticulata*
Site 1168, A3:25
Site 1169, A4:12
Site 1170, A5:23, 40
Site 1171, A6:30
- Globorotalia puncticulata* Subzone
Site 1169, A4:12
Site 1170, A5:23
- Globorotalia puncticulata* Zone, Site 1168, A3:25
- Globorotalia puncticulata/Globorotalia inflata* plexus, Site 1171, A6:30
- Globorotalia truncatulinoides*
Site 1168, A3:25; B6:9
Site 1169, A4:11
Site 1170, A5:22–23, 40
Site 1171, A6:30
Site 1172, A7:26–27
- Globorotalia truncatulinoides* Zone, Site 1168, A3:25
- Globorotalia truncatulinoides/Globorotalia inflata* plexus, Site 1172, A7:27
- Globoturborotalita apertura*, Site 1170, A5:24
- Globoturborotalita connecta*, Site 1170, A5:24–25
- Globoturborotalita connecta* Zone
Site 1168, A3:27
Site 1170, A5:24
- Globoturborotalita decoraperta*, Site 1170, A5:24
- Globoturborotalita woodi*
Site 1168, B9:7
Site 1170, A5:24–25
- Globoturborotalita woodi* Zone
Site 1168, A3:27
Site 1170, A5:25
- Globoturborotalita woodi/Globoturborotalita decoraperta/Globoturborotalita apertura* plexus, Site 1170, A5:24
- globularis*, *Dentoglobigerina*, Site 1168, B9:7
- Glomospira* spp., Site 1172, A7:29
- glorianum*, *Trinovantedinium*
Kofoid system, B5:65
Tasmanian Gateway, B5:96
- glutinata*, *Globigerinita*, Site 1169, A4:11–12
- gochti*, *Wetzeliella*
Kofoid system, B5:66
Site 1168, B2:7
Tasmanian Gateway, B5:97
- goruna*, *Amphisphaera*, Site 1172, A7:31
- grallator*, *Palynodinium*
Kofoid system, B5:61
Tasmanian Gateway, B5:89
- Gramocysta verricula*
Kofoid system, B5:55
Tasmanian Gateway, B5:81
- grande*, *Lychnocanoma*, Site 1169, A4:13
- Guembelitra triseriata*, Tasmanian Gateway, B10:9
- Guttulina* spp., Site 1170, A5:27
- ## H
- Habibacysta tectata*
Kofoid system, B5:55
Tasmanian Gateway, B5:81
- hamatus*, *Discoaster*
Site 1168, B7:4
Site 1172, B7:25
- hampdenensis*, *Reticulofenestra*, Site 1168, B7:29
- hamai*, *Lamprocyrtis*, Site 1168, A3:30
- Hanzawaia mantaensis*, Site 1172, A7:29
- haqii*, *Reticulofenestra*
Site 1168, B7:4–5
Site 1171, B7:7
Site 1172, B7:9
- harlandii*, *Corrudinium*
Kofoid system, B5:51
Site 1169, A4:16
Site 1170, A5:30–31
Tasmanian Gateway, B5:74
- harrisii*, *Enneadocysta*, Site 1170, A5:33
- Helicosphaera ampliaptera*
Site 1168, B7:4
Site 1170, B7:6, 26
Site 1171, B7:7

Helicosphaera ampliaptera Zone

Site 1171, B7:7

Site 1172, B7:9

Helicosphaera bramlettei, Site 1168, B7:5*Helicosphaera carteri*

Site 1168, B6:5

Site 1170, B6:6

Site 1171, B6:7

Site 1172, B6:8

Helicosphaera compacta, Site 1168, B7:5, 27*Helicosphaera elongata*, Site 1168, B7:26*Helicosphaera euphratis*, Site 1168, B7:26*Helicosphaera inversa*, Site 1172, B6:8*Helicosphaera obliqua*, Site 1168, B7:27*Helicosphaera paleocarteri*

Site 1168, B7:4, 26

Site 1170, B7:6

Site 1171, B7:27

Helicosphaera perch-nielsenae, Site 1168, B7:27*Helicosphaera recta*, Site 1168, B7:26*Helicosphaera sellii*

Site 1168, B6:5, 9, 25

Site 1170, B6:25

Tasmanian Gateway, B6:4, 11

Helicosphaera sellii Zone

Site 1168, B6:5

Site 1171, B6:7

Site 1172, B6:8

Tasmanian Gateway, B1:6; B6:4, 11

Hemiaulus characteristicus, Tasmanian Gateway, B4:12–13; B10:18*Hemidiscus cuneiformis*

Site 1169, A4:15

Site 1171, A6:36

Hemiplacophora semilunifera

Kofoid system, B5:55

Site 1168, B2:6

Site 1172, A7:33; B3:9–10; B4:7

Tasmanian Gateway, B4:8, 15; B5:81; B10:11

hermosus, *Pyrocyclus*

Site 1168, B7:4

Site 1172, B7:9, 33

Heteraulacacysta porosa

Kofoid system, B5:55

Tasmanian Gateway, B5:82

heteromorphus, *Sphenolithus*

Site 1168, A3:24; B7:4

Site 1170, B7:6

Site 1171, B7:7

Site 1172, B7:8–10, 31

Heterosphaeridium difficile

Kofoid system, B5:55

Tasmanian Gateway, B5:82

Hexacantium spp.

Site 1168, A3:29

Site 1169, A4:14

hispida, *Uvigerina*, Site 1172, A7:29*Histiocysta* sp., Site 1172, B3:36, 45*Hoeglundina elegans*, Site 1168, A3:29*homomorphum*, *Apectodinium*, Site 1171, A6:38–39*Homotryblium floripes*

Kofoid system, B5:56

Tasmanian Gateway, B5:82

Homotryblium oceanicum

Site 1168, B2:7

Site 1172, B3:10

Homotryblium tenuispinosum

Kofoid system, B5:56

Site 1172, B3:36

Tasmanian Gateway, B5:82

Hughesius tasmaniae

Site 1168, B7:34

Site 1170, B7:6

humerus, *Cycladophora*, Site 1169, A4:14*hunerii*, *Bolivina*, Site 1170, A5:28*huxleyi*, *Emiliana*

Site 1168, A3:23, 35; B6:5, 25; B10:6

Site 1169, A4:10

Site 1170, B6:6

Site 1171, A6:28; B6:7

Site 1172, A7:25; B6:8

Tasmanian Gateway, B10:13, 16

Hystrichokolpoma bulbosum

Kofoid system, B5:56

Tasmanian Gateway, B5:82–83

Hystrichokolpoma cinctum

Kofoid system, B5:56

Tasmanian Gateway, B5:83

“Hystrichokolpoma pseudoceanicum”

Kofoid system, B5:56

Tasmanian Gateway, B5:83

Hystrichokolpoma pusilla, Site 1168, B2:7, 28*Hystrichokolpoma pusillum*

Kofoid system, B5:57

Tasmanian Gateway, B5:83

“Hystrichokolpoma reductum”

Kofoid system, B5:57

Tasmanian Gateway, B5:83

Hystrichokolpoma rigaudiae

Site 1168, A3:32; B2:28, 34

Site 1172, B3:36

Hystrichokolpoma sp. A, Site 1168, B2:28*Hystrichokolpoma* sp. cf. *Homotryblium oceanicum*

Site 1168, B2:7

Site 1172, B3:10

Hystrichokolpoma sp. cf. *Hystrichokolpoma oceanicum*, Site 1172, B3:10; B4:7, 9*Hystrichokolpoma spinosa*, Site 1172, A7:34*Hystrichokolpoma spinosum*

Site 1172, B3:9, 45

Tasmanian Gateway, B4:7

Hystrichokolpoma spp., Site 1168, B2:7, 10*Hystrichokolpoma truncatum*

Site 1172, B3:9, 36

Tasmanian Gateway, B4:7

Hystrichosphaeridium spp., Site 1172, B3:8, 12*Hystrichosphaeridium truswelliae*

Kofoid system, B5:57

Site 1172, B3:9, 36–37, 45

Tasmanian Gateway, B4:7; B5:84

Hystrichosphaeridium tubiferum

Kofoid system, B5:57

Site 1170, A5:32

Site 1172, B3:37

Tasmanian Gateway, B5:84

Hystrichosphaeropsis obscura, Site 1168, B2:28*Hystrichosphaeropsis quascribrata*

Kofoid system, B5:57

Tasmanian Gateway, B5:84

Hystrichosphaeropsis sp., Site 1172, B3:37

I

Ilseolithina fusa, Site 1168, B7:32*Impagidinium aculeatum*

Site 1168, B2:9, 28, 34

Site 1169, A4:16

Site 1170, A5:30

Site 1172, B3:10

Impagidinium cassiculum, Site 1172, B3:37, 45*Impagidinium dispertitum*, Site 1172, B3:37, 45; B4:40*Impagidinium maculatum*, Site 1172, B3:37*Impagidinium pallidum*

Site 1168, A3:32; B2:9, 11

Site 1169, A4:16

Site 1172, B3:10

Impagidinium paradoxum

Site 1168, B2:9, 28–29, 34

Site 1169, A4:16

Site 1170, A5:30

Site 1172, B3:10

Impagidinium patulum

Kofoid system, B5:57

Site 1168, B2:9, 29

Site 1172, B3:10

Tasmanian Gateway, B5:84

Impagidinium spp.

Site 1168, B2:8–10

Site 1171, A6:39

Site 1172, A7:32, 35; B3:10, 12, 45

Impagidinium spp. n. sp., Tasmanian Gateway, B4:22*Impagidinium velorum*, Site 1168, B2:10*Impagidinium victorianum*, Site 1172, B3:38*incompositum*, *Corrudinium*

Kofoid system, B5:51

Site 1172, B3:42; B4:40

Tasmanian Gateway, B5:74

index, *Globigerapsis*, Tasmanian Gateway, B10:8*index*, *Globigerinatheka*

Site 1168, A3:22, 28

Site 1171, A6:29

Site 1172, A7:28

indoceanica, *Pontosphaera*, Site 1171, B6:25*inflata*, *Gelatia*

Site 1168, B2:10, 27

Site 1171, B4:10, 38

inflata, *Globorotalia*

Site 1169, A4:12

Site 1171, A6:30

Site 1172, A7:27

infusorioides, *Palaeohystrichophora*

Kofoid system, B5:61

Tasmanian Gateway, B5:89

ingens, *Actinocyclus*, Site 1168, A3:31*ingens* var. *nodus*, *Actinocyclus*

Site 1169, A4:15

Site 1171, A6:35

ingens var. *ovalis*, *Actinocyclus*

Site 1168, A3:31

Site 1171, A6:35

inornata, *Senoniasphaera*

Kofoid system, B5:63

Site 1172, B3:8, 40

Tasmanian Gateway, B5:93

intricata, *Glaphyrocysta*, Site 1168, B2:27*inura*, *Thalassiosira*, Site 1170, A5:29*inversa*, *Helicosphaera*, Site 1172, B6:8*Invertocysta* spp., Site 1168, B2:8*Invertocysta tabulata*

Kofoid system, B5:57

Site 1168, A3:32; B2:29

Site 1169, A4:16

Site 1170, A5:30

Tasmanian Gateway, B5:84

irregularis, *Drupptractus*, Site 1169, A4:14*Isabelidinium?* *viborgense*

Kofoid system, B5:57

Tasmanian Gateway, B5:84

Isthmolithus recurvus

Site 1168, A3:24, 28, 34

Site 1171, A6:28

Site 1172, A7:25

Tasmanian Gateway, B10:9

italicum, *Leptodinium*

Kofoid system, B5:58

Tasmanian Gateway, B5:86

J

jafari, *Umbilicosphaera*, Site 1168, B7:33*janduchenei*, *Operculodinium*, Site 1168, B2:31*japonica*, *Cyrtocapsella*

Site 1168, A3:30; B6:5

Site 1169, A4:14

Site 1171, A6:34

Site 1172, A7:30; B6:8

jouseanus, *Cavitatus*

Site 1170, A5:29

Tasmanian Gateway, B4:12_13

jouseanus, *Cavitatus* (*Synedra*)

Site 1171, A6:35

Site 1172, A7:32

K

kakanuiensis, *Stoveracysta*

Kofoid system, B5:64

Site 1168, B2:33

Site 1170, A5:33; B4:8

Site 1171, A6:38; B4:8

Site 1172, A7:33; B3:10, 41; B4:39, 41

Tasmanian Gateway, B4:6, 10–12; B5:98

Karreriella bradyi, Site 1171, A6:33
Kleithriasphaeridium loffrense
 Kofoid system, B5:57
 Tasmanian Gateway, B5:84–85
Kleithriasphaeridium readii
 Kofoid system, B5:58
 Tasmanian Gateway, B5:85
kopukuensis, *Verrucosisorites*, Site 1168, A3:33
kuepperi, *Discoaster*
 Site 1171, A6:29
 Site 1172, A7:26
kugleri, *Discoaster*
 Site 1168, B7:4
 Site 1170, B7:6
 Site 1171, B7:7

L

labiacrassata, *Globigerina*
 Site 1170, A5:26
 Tasmanian Gateway, B10:9
labyrinthea, *Nematosphaeropsis*
 Site 1168, B2:30, 34
 Site 1169, A4:16
 Site 1170, A5:30
Labyrinthodinium truncatum
 Kofoid system, B5:58
 Site 1168, B2:6, 8, 29
 Tasmanian Gateway, B5:85
Laciniadinium biconiculum
 Kofoid system, B5:58
 Tasmanian Gateway, B5:85
lacrima, *Fragilariopsis*, Site 1169, A4:15
lacunosa, *Pseudoemiliana*
 Site 1168, B6:5, 25
 Site 1169, A4:10
 Site 1170, B6:6
 Site 1171, A6:28; B6:7
 Site 1172, A7:25; B6:8, 10
lacunosa ovata, *Pseudoemiliana*
 Site 1168, B6:5
 Site 1170, B6:25
 Site 1171, B6:7
Lamprocyrtis hannai, Site 1168, A3:30
Lampromitra coronata, Site 1169, A4:13
langii, *Sphaeropyle*, Site 1169, A4:14
 large *Gephyrocapsa* spp., Tasmanian Seaway, B1:6
laticinctum, *Pentadinium*, Site 1168, B2:8, 31
Lejeunecysta spp.
 Site 1168, A3:32
 Site 1172, B3:38
Lenticulina spp., Site 1170, A5:27
lentiginosa, *Thalassiosira*, Site 1169, A4:15
Lentinia serrata
 Kofoid system, B5:58
 Tasmanian Gateway, B5:85
Leptodinium italicum
 Kofoid system, B5:58
 Tasmanian Gateway, B5:86
leptoporus, *Calcidiscus*
 Site 1168, B6:5; B7:3–4

Site 1169, A4:10
 Site 1170, B6:6; B7:5–6
 Site 1171, B6:7; B7:7
 Site 1172, B6:8; B7:8, 28, 36
leptoporus coccosphere, *Calcidiscus*, Site 1172, B7:36
lewisianus var. *levis*, *Coscinodiscus*, Tasmanian Gateway,
 B10:11
limbata, *Globorotalia*, Site 1171, A6:30
linaperta, *Subbotina*
 Site 1168, A3:28
 Site 1170, A5:26
 Site 1171, A6:32
 Site 1172, A7:28
Lingulodinium machaerophorum, Site 1172, B3:10; B4:7,
 11
Lithelius nautiloides, Site 1168, A3:30
Litosphaeridium siphonophorum
 Kofoid system, B5:58
 Tasmanian Gateway, B5:86
lockerii, *Reticulofenestra*, Site 1168, B7:29
loeblichii, *Discoaster*
 Site 1168, B7:3
 Site 1169, A4:10–11
 Site 1170, A5:40
 Site 1172, B7:25
loffrense, *Kleithriasphaeridium*
 Kofoid system, B5:57
 Tasmanian Gateway, B5:84–85
longifiracatum, *Surculosphaeridium?*
 Kofoid system, B5:65
 Tasmanian Gateway, B5:95
longissima, *Thalassiothrix*, Site 1168, A3:31
longissimum, *Biconidinium*
 Kofoid system, B5:49
 Tasmanian Gateway, B5:70
Lophophaena tekopua, Site 1170, A5:29
luciae, *Spinidinium*, Site 1172, B3:40, 47; B4:6, 39–40
Lychnocanoma amphitrite, Site 1172, A7:30–31
Lychnocanoma conica
 Site 1170, A5:29
 Site 1171, A6:34
Lychnocanoma grande, Site 1169, A4:13
Lychnocanoma nipponica nipponica
 Site 1169, A4:14
 Site 1171, A6:34

M

machaerophorum, *Lingulodinium*, Site 1172, B3:10; B4:7,
 11
macintyreii, *Calcidiscus*
 Site 1168, A3:23, 35; B6:5, 9; B7:4; B10:6
 Site 1169, A4:10
 Site 1170, B6:6; B7:5
 Site 1171, A6:28; B6:7, 25; B7:28
 Site 1172, B6:8; B7:8–9
 Tasmanian Gateway, B6:4, 11
macmurdoense, *Spinidinium*
 Kofoid system, B5:63
 Site 1170, A5:33
 Site 1171, B4:39

- Site 1172, A7:34; B3:7, 9, 40, 47; B4:41
 Tasmanian Gateway, B4:6–7; B5:94; B10:17
maculatum, *Impagidinium*, Site 1172, B3:37
mantaensis, *Hanzawaia*, Site 1172, A7:29
Manumiella druggii, Site 1172, A7:35; B3:7, 38, 45
Manumiella rotundata, Site 1172, B3:45
Manumiella seelandica
 Kofoid system, B5:58
 Site 1172, B3:7
 Tasmanian Gateway, B5:86
Manumiella seymourensis, Site 1172, B3:7
Manumiella spp.
 Site 1172, B3:7–8
 Tasmanian Gateway, B10:17
margarita, *Alisocysta*
 Kofoid system, B5:47
 Site 1172, B3:30
 Tasmanian Gateway, B5:67
mayeri, *Paragloborotalia*
 Site 1168, A3:26
 Site 1169, A4:12
 Site 1170, A5:24
mayii, *Florentinia*
 Kofoid system, B5:55
 Tasmanian Gateway, B5:80
meckelfeldensis, *Wetzeliella*
 Kofoid system, B5:66
 Tasmanian Gateway, B5:97
mediaperforatus, *Cryptococcolithus*, Site 1170, B7:33
Melitasphaeridium choanophorum, Site 1168, B2:29
Melitasphaeridium pseudorecurvatum
 Kofoid system, B5:59
 Tasmanian Gateway, B5:86
Melonis barleeanus
 Site 1169, A4:13
 Site 1170, A5:28
 Site 1172, A7:29
Melonis pompilioides
 Site 1169, A4:13
 Site 1170, A5:28
Melonis spp., Site 1171, A6:33
Membranilarnacia sp., Site 1168, B2:30
Membranilarnacia? picena
 Kofoid system, B5:59
 Site 1168, B2:7, 29–30
 Tasmanian Gateway, B5:86
membraniphorum, *Cyclonephelium*
 Kofoid system, B5:52
 Tasmanian Gateway, B5:74–75
Membranophoridium perforatum
 Kofoid system, B5:59
 Site 1171, A6:38
 Site 1172, B3:9, 38
 Tasmanian Gateway, B4:7; B5:87
 “*Mendicodinium robustum*”
 Kofoid system, B5:59
 Tasmanian Gateway, B5:87
Mendicodinium sp. A, Site 1168, B2:8, 27
micra, *Pseudohastigerina*, Site 1171, A6:32
Micula decussata, Site 1172, A7:26
minimum, *Cordosphaeridium*, Site 1168, B2:33
minor, *Cyathidites*, Site 1168, A3:33
minuta, *Reticulofenestra*
 Site 1168, B7:3–5, 29
 Site 1170, B7:5
 Site 1171, B7:7
 Site 1172, B7:8–9
minutula, *Reticulofenestra*
 Site 1168, B7:3–5
 Site 1170, B7:5–6
 Site 1171, B7:7
 Site 1172, B7:8–9, 36
minutum cezare, *Algidasphaeridium*, Site 1168, B2:31
Minylitha convallis
 Site 1168, B7:3–4, 35
 Site 1171, B7:7
miocenicus, *Acaciapollenites*, Site 1168, A3:33
miopelagicus, *Coccolithus*
 Site 1168, B7:4
 Site 1170, B7:5–6
 Site 1171, A6:28; B7:7, 35
 Site 1172, B7:8–9
miozea, *Globorotalia*, Tasmanian Gateway, B10:19
mirabilis, *Spiniferites*, Site 1171, A6:36
mirabilis, *Spiniferites* cf., Site 1168, B2:32
monmouthensis, *Cyclapophysis*
 Kofoid system, B5:51
 Tasmanian Gateway, B5:74
moriformis, *Sphenolithus*
 Site 1168, B7:4, 32
 Site 1170, B7:5
 Site 1171, B7:7
 Site 1172, B7:8
Morozovella spinulosa, Site 1171, A6:32
multiopora, *Pontosphaera*, Site 1168, B7:35
multispinosum, *Adnatosphaeridium*, Site 1172, B3:30
Multispinula quanta, Site 1172, A7:32
mundulus, *Cibicoides*
 Site 1170, A5:27; B13:8–10
 Site 1171, A6:33
 Site 1172, A7:29; B13:8–10
 Tasmanian Gateway, B10:6
- N**
- nautiloides*, *Lithelius*, Site 1168, A3:30
Nematosphaeropsis downiei
 Kofoid system, B5:59
 Tasmanian Gateway, B5:87
Nematosphaeropsis labyrinthea
 Site 1168, B2:30, 34
 Site 1169, A4:16
 Site 1170, A5:30
Nematosphaeropsis spp.
 Site 1168, B2:8–10
 Site 1172, B3:10, 12
Neogloboquadrina pachyderma, Site 1169, A4:11
Neogloboquadrina pachyderma (sinistral)
 Site 1170, A5:23
 Site 1171, A6:30
 Site 1172, A7:27

neorectus, *Discoaster*
Site 1168, B7:3
Site 1170, B7:5
Site 1171, B7:7
Site 1172, B7:8
nephroides, *Selenopemphix*, Site 1172, B3:40
Nephrolithus frequens, Site 1172, A7:24, 26; B8:2
neptunus, *Stylocontarium*, Site 1168, A3:30
new species
Site 1168, A3:32; B4:21
Site 1172, B3:7
Tasmanian Gateway, B3:19–21; B4:21–23
ninae, *Amaurolithus*, Site 1172, B7:25
nipponica nipponica, *Lychnocanoma*
Site 1169, A4:14
Site 1171, A6:34
nitescens oval, *Coronocyclus*, Site 1171, B7:32
nitescens round, *Coronocyclus*, Site 1170, B7:32
nitzschoides, *Thalassionema*, Site 1168, A3:31
Nonion deceptrix, Site 1171, A6:33
Nonion spp., Site 1170, A5:27
Nothofagidites asperus, Site 1168, A3:33
Nothofagidites spp., Site 1168, A3:33
Nothofagus
Southern Ocean, A1:52
Tasmanian Seaway, B1:12
Nuttalides umbonifera, Site 1171, A6:33
nympha, *Paragloborotalia*
Site 1168, A3:26
Site 1170, A5:24

O

oamaruensis, *Reticulofenestra*
Site 1171, A6:28
Site 1172, A7:25
Tasmanian Gateway, B10:11, 15
ob, *Carpocanistrum*, Site 1168, A3:29–30
obliqua, *Helicosphaera*, Site 1168, B7:27
obliquicostatum, *Carpodinium*
Kofoid system, B5:49
Tasmanian Gateway, B5:71
obrutus, *Clausicoccus*
Site 1168, B7:34
Site 1170, B7:6
obscura, *Hystrichosphaeropsis*, Site 1168, B2:28
obscura, *Schematophora*, Site 1172, B3:39
oceanica, *Gephyrocapsa*
Site 1170, B6:6, 25
Site 1172, B6:8
Tasmanian Gateway, B6:4
oceanicum, *Hystrichokolpoma* sp. cf. *Homotryblium*
Site 1168, B2:7
Site 1172, B3:10
oceanicum, *Hystrichokolpoma* sp. cf. *Hystrichokolpoma*, Site 1172, B4:7, 9
Octodinium askinia
Kofoid system, B5:59
Site 1168, B2:6, 30
Site 1171, B4:6, 15, 38; B5:87
Site 1172, B3:7, 9, 38

Odontochitina costata
Kofoid system, B5:59
Tasmanian Gateway, B5:87
"Odontochitina diversa"
Kofoid system, B5:59
Tasmanian Gateway, B5:88
Odontochitina operculata
Kofoid system, B5:59
Site 1172, B3:7
Tasmanian Gateway, B5:87
Odontochitina porifera
Kofoid system, B5:59
Tasmanian Gateway, B5:88
oebisfeldensis, *Deflandrea*
Kofoid system, B5:52
Tasmanian Gateway, B5:76
Oligospheridium poculum
Kofoid system, B5:60
Tasmanian Gateway, B5:88
Oligospheridium pulcherrimum
Kofoid system, B5:60
Tasmanian Gateway, B5:88
Oligospheridium spp.
Kofoid system, B5:60
Tasmanian Gateway, B5:88
Oolina, Site 1168, A3:29
oolina, *Chilostomella*
Site 1169, A4:13
Site 1170, A5:28
Site 1171, A6:33
Site 1172, A7:29
operculata, *Odontochitina*
Kofoid system, B5:59
Site 1172, B3:7
Tasmanian Gateway, B5:87
Operculodinium centrocarpum, Site 1168, A3:32; B2:34
Operculodinium divergens
Kofoid system, B5:60
Tasmanian Gateway, B5:88
Operculodinium echigoense
Kofoid system, B5:60
Site 1168, A3:32; B2:9
Tasmanian Gateway, B5:89
Operculodinium janduchenei, Site 1168, B2:31
Operculodinium piaseckii, Site 1168, B2:30
Operculodinium spp.
Site 1168, B2:7–8, 10, 34
Site 1172, B3:7–8, 12, 46; B4:40
Operculodinium spp. n. sp., Site 1172, B3:7
Operculodinium? *eirikianum*
Kofoid system, B5:60
Tasmanian Gateway, B5:89
Operculodinium? sp. A, Site 1172, B3:39, 45–46
orangensis, *Pyrocyclus*
Site 1168, B7:4
Site 1171, B7:7
Orbulina suturalis
Site 1168, A3:22
Site 1170, A5:24
Orbulina suturalis Zone
Site 1168, A3:26
Site 1170, A5:24

Orbulina universa

- Site 1169, A4:11
- Site 1170, A5:23; B13:8–10
- Site 1172, A7:27; B13:8–10

Oridorsalis umbonatus

- Site 1170, B13:8–10
- Site 1172, B13:8–10

ornata, *Stoveracysta*

- Kofoid system, B5:64
- Site 1168, B2:6, 32–33
- Site 1171, A6:38
- Site 1172, B3:9–10; B4:7
- Tasmanian Gateway, B4:10–11; B5:95; B10:17–18

ornatum, *Wilsonidinium*

- Site 1170, A5:32
- Site 1172, A7:34–35

ovalis, *Globanomalina*, Site 1171, A6:32*Ovoidinium verrucosum*

- Kofoid system, B5:60
- Tasmanian Gateway, B5:89

P*pachyderma*, *Neogloboquadrina*, Site 1169, A4:11*pachyderma* (sinistral), *Neogloboquadrina*

- Site 1170, A5:23
- Site 1171, A6:30
- Site 1172, A7:27

pachydermum, *Dracodinium*, Tasmanian Gateway, B5:6*pachystylus*, *Spongotractus*, Site 1172, A7:31*Palaeocystodinium bulliforme*

- Kofoid system, B5:60
- Tasmanian Gateway, B5:89

Palaeocystodinium sp., Site 1172, B3:7–8, 39, 46*“Palaeocystodinium striatgranulosum”*

- Kofoid system, B5:61
- Tasmanian Gateway, B5:89

Palaeohystrichophora infusorioides

- Kofoid system, B5:61
- Tasmanian Gateway, B5:89

Palaeoperidinium pyrophorum

- Kofoid system, B5:61
- Site 1172, B3:8, 39
- Tasmanian Gateway, B5:89

Palaeotetradinium silicorum, Kofoid system, B5:61*paleocarteri*, *Helicosphaera*

- Site 1168, B7:4, 26
- Site 1170, B7:6
- Site 1171, B7:27

pallidum, *Impagidinium*

- Site 1168, A3:32; B2:9, 11
- Site 1169, A4:16
- Site 1172, B3:10

Palynodinium grillator

- Kofoid system, B5:61
- Tasmanian Gateway, B5:89

pansum, *Saturnodinium*

- Kofoid system, B5:62
- Tasmanian Gateway, B5:91

paradoxum, *Impagidinium*

- Site 1168, B2:9, 28–29, 34
- Site 1169, A4:16

Site 1170, A5:30

Site 1172, B3:10

Paragloborotalia continuosa

- Site 1168, A3:26
- Site 1169, A4:12
- Site 1170, A5:23
- Site 1171, A6:40

Tasmanian Gateway, B10:13

Paragloborotalia continuosa Zone

- Site 1168, A3:26
- Site 1170, A5:24

Paragloborotalia curva, Site 1168, A3:26*Paragloborotalia mayeri*

- Site 1168, A3:26
- Site 1169, A4:12
- Site 1170, A5:24

Paragloborotalia mayeri Zone

- Site 1168, A3:26
- Site 1170, A5:24

Paragloborotalia nymppha

- Site 1168, A3:26
- Site 1170, A5:24

Paragloborotalia nymppha Zone

- Site 1168, A3:26
- Site 1170, A5:24

Paralia spp.

- Site 1170, A5:30
- Site 1171, A6:35

Paralia sulcata, Site 1172, A7:31*Paralia sulcata* var. *crenulata*, Site 1171, A6:36*parallela*, *Gephyrocapsa*

- Site 1171, B6:7
- Tasmanian Gateway, B6:4

partridgei, *Enneadocysta*

- Kofoid system, B5:54
- Site 1168, B2:6
- Site 1170, A5:15, 20–21, 31, 33–34, 43, 77
- Site 1171, A6:37–38
- Site 1172, A7:33; B3:7, 9–10, 35, 44; B4:7, 38, 40
- Southern Ocean, A1:37
- Tasmanian Gateway, B4:6, 9, 14; B5:79; B10:9, 11

passio, *Cannosphaeropsis*

- Kofoid system, B5:49
- Tasmanian Gateway, B5:70

patulum, *Impagidinium*

- Kofoid system, B5:57
- Site 1168, B2:9, 29
- Site 1172, B3:10
- Tasmanian Gateway, B5:84

Paucisphaeridium sp., Site 1172, B3:39, 46; B4:39*Paucisphaeridium* spp. n. sp., Tasmanian Gateway, B4:22*pectiniformis*, *Enneadocysta*

- Kofoid system, B5:54
- Site 1170, A5:33
- Tasmanian Gateway, B5:79

pelagica, *Thalassiphora*

- Site 1168, A3:32; B2:7, 10
- Site 1170, A5:21, 34, 77
- Site 1171, A6:37
- Site 1172, B3:12
- Tasmanian Gateway, B4:14

pelagicus, *Coccolithus*

Site 1168, B6:5; B7:3–5

Site 1169, A4:10

Site 1170, B6:6; B7:5–6

Site 1171, B6:7; B7:7, 35

Site 1172, B6:8; B7:8–9; B8:2

pelliculatus, *Camuralithus*, Site 1168, B7:34

peniculata, *Eocladopyxis*, Site 1172, B3:35

pennatula, *Vulvulina*, Site 1168, A3:29

pentacamerata, *Acarinina*, Site 1171, A6:32

Pentadinium laticinctum, Site 1168, B2:8, 31

Pentapharsodinium dalei, Site 1168, B2:9, 31

pentaradiatus, *Discoaster*, Site 1172, A7:25

perch-nielsenae, *Helicosphaera*, Site 1168, B7:27

peregrina, *Stichocorys*

Site 1168, A3:30

Site 1170, A5:28

Site 1171, A6:34

peregrina, *Uvigerina*

Site 1168, B10:6

Site 1172, A7:29

perforatum, *Membranophoridium*

Kofoid system, B5:59

Site 1171, A6:38

Site 1172, B3:9, 38

Tasmanian Gateway, B4:7; B5:87

perforatum, *Rhombodinium*

Kofoid system, B5:62

Tasmanian Gateway, B5:91

perforatum, *Saturnodinium*

Kofoid system, B5:62

Tasmanian Gateway, B5:91

perplexa, *Reticulofenestra*

Site 1168, B7:3–4

Site 1170, B7:5–6, 29

Site 1171, B7:7

Site 1172, B7:8

phosphoritica, *Deflandrea*

Kofoid system, B5:52

Site 1168, A3:32; B2:10

Site 1170, A5:29, 31, 34, 76–77

Site 1171, A6:37–39

Site 1172, A7:33–34; B3:34

Southern Ocean, A1:37

Tasmanian Gateway, B5:76

Phthanoperidinium amoenum

Kofoid system, B5:61

Tasmanian Gateway, B5:90

Phthanoperidinium distinctum

Kofoid system, B5:61

Tasmanian Gateway, B5:9–10

Phthanoperidinium echinatum

Site 1172, B3:9, 46; B4:40

Tasmanian Gateway, B4:13

Phthanoperidinium spp.

Site 1172, B3:12

Tasmanian Gateway, B4:11, 13

Phthanoperidinium spp. n. sp., Tasmanian Gateway,
B3:20; B4:22

piaseckii, *Operculodinium*, Site 1168, B2:30

picena, *Membranilarnacia*?

Kofoid system, B5:59

Site 1168, B2:7, 29–30

Tasmanian Gateway, B5:86

placacantha, *Systematophora*, Site 1168, A3:32

placacanthum, *Cleistosphaeridium*, Site 1172, B3:33

plexus, *Globoconella*, Site 1169, A4:11

pliocenica, *Cycladophora*, Site 1169, A4:14

pliozea, *Globorotalia*

Site 1168, A3:25

Site 1169, A4:12, 16

Site 1170, A5:23

poculum, *Oligospheridium*

Kofoid system, B5:60

Tasmanian Gateway, B5:88

politum, *Dracodinium*

Kofoid system, B5:53

Tasmanian Gateway, B5:77

Polysphaeridium zoharyi, Tasmanian Gateway, B5:5

pomeroli, *Turborotalia*, Site 1170, A5:26

pompilioides, *Melonis*

Site 1169, A4:13

Site 1170, A5:28

Pontosphaera anisostrema, Site 1168, B7:35

Pontosphaera desueta, Site 1168, B7:35

Pontosphaera indoceanica, Site 1171, B6:25

Pontosphaera multipora, Site 1168, B7:35

Pontosphaera spp., Site 1171, B6:7

porifera, *Odontochitina*

Kofoid system, B5:59

Tasmanian Gateway, B5:88

porosa, *Heteraulacacysta*

Kofoid system, B5:55

Tasmanian Gateway, B5:82

porosum, *Rhombodinium*

Kofoid system, B5:62

Tasmanian Gateway, B5:91

porosus, *Spiniferites*

Kofoid system, B5:63

Tasmanian Gateway, B5:94

poulsenii, *Cerebrocysta*

Kofoid system, B5:50

Site 1168, B2:6, 8, 24–25

Tasmanian Gateway, B5:71

Praeorbulina curva

Site 1172, A7:27

Tasmanian Gateway, B10:10, 19

Praeorbulina curva Zone

Site 1168, A3:25–26

Site 1170, A5:24

Praeorbulina suturalis, Site 1168, A3:22, 26

premacintyreii, *Calcidiscus*

Site 1168, A3:24; B7:4

Site 1170, B7:6

Site 1171, A6:28; B7:7, 28

Site 1172, B7:9

Tasmanian Gateway, B7:9; B10:12, 19

primitiva, *Acarinina*

Site 1171, A6:29

Site 1172, A7:28

primus, *Amaurolithus*

Site 1168, A3:24; B7:3

Site 1169, A4:10

Site 1170, B7:5

Site 1171, B7:7

Site 1172, B7:8, 25

Tasmanian Gateway, B10:13

Prinsius bisulcus, Site 1171, A6:29*Prinsius* spp., Site 1171, B8:2*Proboscia barboi*

Site 1168, A3:31

Site 1169, A4:15

Site 1171, B6:7

producta, *Reticulofenestra*, Site 1168, B7:3, 29*profunda*, *Cornutella*, Site 1168, A3:30*Protoperidinium* spp.

Site 1169, A4:16

Site 1170, A5:34

Site 1172, A7:32

protrusa, *Senoniasphaera*, Kofoid system, B5:63

"prydzensis," "Deflandrea," Tasmanian Gateway, B4:11

Pseudocubus vema

Site 1169, A4:13

Site 1171, A6:34

Pseudoemiliana lacunosa

Site 1168, B6:5, 25

Site 1169, A4:10

Site 1170, B6:6

Site 1171, A6:28; B6:7

Site 1172, A7:25; B6:8, 10

Pseudoemiliana lacunosa ovata

Site 1168, B6:5

Site 1170, B6:25

Site 1171, B6:7

Pseudoemiliana lacunosa Zone

Site 1168, B6:5

Site 1170, B6:6

Site 1171, B6:7

Site 1172, B6:8

Tasmanian Gateway, B6:4

Pseudohastigerina micra, Site 1171, A6:32

"pseudoceanicum," "Hystrichokolpoma"

Kofoid system, B5:56

Tasmanian Gateway, B5:83

pseudorecurvatum, *Melitasphaeridium*

Kofoid system, B5:59

Tasmanian Gateway, B5:86

pseudoumbilica, *Reticulofenestra*

Site 1172, A7:25

Tasmanian Gateway, B10:13

pseudoumbilicus, *Reticulofenestra*

Site 1168, A3:23; B7:3–4

Site 1169, A4:10

Site 1170, B7:5

Site 1171, A6:28; B7:7

Site 1172, B7:8–9, 29

pterococcoides, *Eatonicysta*

Kofoid system, B5:53

Tasmanian Gateway, B5:78

pulcherrimum, *Oligosphaeridium*

Kofoid system, B5:60

Tasmanian Gateway, B5:88

punctulata, *Globorotalia*

Site 1168, A3:25

Site 1169, A4:12

Site 1170, A5:23, 40

Site 1171, A6:30

pusilla, *Hystrichokolpoma*, Site 1168, B2:7, 28*pusillum*, *Hystrichokolpoma*

Kofoid system, B5:57

Tasmanian Gateway, B5:83

pychnum, *Caligodinium*, Site 1168, B2:24*pygmea*, *Uvigerina*, Site 1170, B10:6*Pyrocyclus hermosus*

Site 1168, B7:4

Site 1172, B7:9, 33

Pyrocyclus orangensis

Site 1168, B7:4

Site 1171, B7:7

pyrophorum, *Palaeoperidinium*

Kofoid system, B5:61

Site 1172, B3:8, 39

Tasmanian Gateway, B5:89

Pyxidinospis fairhavenensis

Kofoid system, B5:61

Site 1168, A3:32

Tasmanian Gateway, B5:90

Pyxidinospis spp. n. sp., Tasmanian Gateway, B3:20;
B4:22–23*Pyxidinospis waipawaensis* group

Site 1170, A5:32

Site 1172, B3:8

Pyxilla spp., Site 1172, A7:31

Q

quanta, *Multispinula*, Site 1172, A7:32*quasicribrata*, *Hystrichosphaeropsis*

Kofoid system, B5:57

Tasmanian Gateway, B5:84

quinqueloba, *Globigerina*

Site 1169, A4:11–12

Site 1170, A5:23

quinqueramus, *Discoaster*

Site 1168, B7:3

Site 1169, A4:10

Site 1171, A6:28

Site 1172, A7:25; B7:8, 25

Tasmanian Gateway, B10:19

R

radiatus, *Calcidiscus*, Site 1171, B7:28*radiosa*, *Stylosphaera*, Site 1170, A5:29*Raetiaedinium truncigerum*

Kofoid system, B5:61

Tasmanian Gateway, B5:90

ramosus, *Spiniferites*, Site 1168, A3:32*ramosus* subsp. *maeandriformis*, *Spiniferites*

Kofoid system, B5:63

Tasmanian Gateway, B5:94

- Raphidodinium furcatum*
Kofoid system, B5:61
Tasmanian Gateway, B5:90
- readii*, *Kleithriasphaeridium*
Kofoid system, B5:58
Tasmanian Gateway, B5:85
- recta*, *Helicosphaera*, Site 1168, B7:26
- recurvus*, *Isthmolithus*
Site 1168, A3:24, 28, 34
Site 1171, A6:28
Site 1172, A7:25
Tasmanian Gateway, B10:9
- redondoensis*, *Theocorys*, Site 1169, A4:14
"reductum," "Hystrichokolpoma"
Kofoid system, B5:57
Tasmanian Gateway, B5:83
- reinholdii*, *Fragilariopsis*, Site 1168, A3:31, 33
- Renidinium rigidum*
Kofoid system, B5:61
Tasmanian Gateway, B5:90–91
- Reophax* spp.
Site 1171, A6:33
Site 1172, A7:29
- reticulata*, *Alisocysta*
Kofoid system, B5:47
Site 1172, A7:24, 35; B3:30, 42, 44
Tasmanian Gateway, B5:68
- reticulata*, *Cassiculosphaeridia*
Kofoid system, B5:49
Tasmanian Gateway, B5:71
- reticulata*, *Reticulofenestra*
Site 1168, A3:24
Site 1170, A5:20
Site 1171, A6:29
Site 1172, A7:25–26
Tasmanian Gateway, B10:8, 11
- reticulata* group, *Alisocysta*, Site 1172, B3:7
- Reticulosphaera actinocoronata*
Kofoid system, B5:62
Site 1168, B2:8, 34
Site 1172, B3:9; B4:7
Tasmanian Gateway, B4:10; B10:10, 91
- Reticulofenestra*. See also small *Reticulofenestra* spp.
- Reticulofenestra asanoi*
Site 1168, B6:5, 9
Site 1170, B6:6
Site 1171, B6:7, 25
Site 1172, B6:8, 10
Tasmanian Gateway, B6:4, 11–12
- Reticulofenestra bisecta*
Site 1168, A3:24
Site 1171, A6:28
Site 1172, A7:23, 25
- Reticulofenestra bisecta bisecta*
site 1168, B7:5
Site 1171, B7:8, 29
site 1172, B7:9
Tasmanian Gateway, B10:9
- Reticulofenestra bisecta* s.s., Tasmanian Gateway, B10:12,
- Reticulofenestra daviesii*
Site 1168, A3:24
Site 1170, A5:22
- Reticulofenestra gelida*
Site 1168, B7:4
Site 1170, B7:5–6
Site 1171, A6:28; B7:7
Site 1172, B7:8–9, 29
- Reticulofenestra hampdenensis*, Site 1168, B7:29
- Reticulofenestra haqii*
Site 1168, B7:4–5
Site 1171, B7:7
Site 1172, B7:9
- Reticulofenestra lockerii*, Site 1168, B7:29
- Reticulofenestra minuta*
Site 1168, B7:3_5, 29
Site 1170, B7:5
Site 1171, B7:7
Site 1172, B7:8–9
- Reticulofenestra minutula*
Site 1168, B7:3–5
Site 1170, B7:5–6
Site 1171, B7:7
Site 1172, B7:8–9, 36
- Reticulofenestra oamaruensis*
Site 1171, A6:28
Site 1172, A7:25
Tasmanian Gateway, B10:11, 15
- Reticulofenestra perplexa*
Site 1168, B7:3–4
Site 1170, B7:5–6, 29
Site 1171, B7:7
Site 1172, B7:8
- Reticulofenestra producta*, Site 1168, B7:3, 29
- Reticulofenestra pseudoumbilica*, Site 1172, A7:25
- Reticulofenestra pseudoumbilica* paracme, Tasmanian Gateway, B10:13
- Reticulofenestra pseudoumbilicus*
Site 1168, A3:23; B7:3–4
Site 1169, A4:10
Site 1170, B7:5
Site 1171, A6:28; B7:7
Site 1172, B7:8–9, 29
- Reticulofenestra pseudoumbilicus* paracme
Site 1168, B7:3
Site 1170, B7:5
Site 1171, B7:7
Site 1172, B7:8
Tasmanian Gateway, B7:9
- Reticulofenestra reticulata*
Site 1168, A3:24
Site 1170, A5:20
Site 1171, A6:29
Site 1172, A7:25–26
Tasmanian Gateway, B10:8, 11
- Reticulofenestra* sp.
Site 1171, B7:36
Site 1172, B8:2

Reticulofenestra stavensis

Site 1170, B7:6

Site 1171, B7:29

Reticulofenestra umbilica

Site 1168, A3:24

Site 1170, A5:20–22

Site 1171, A6:28–29

Site 1172, A7:25–26

Reticulofenestra umbilicus, Tasmanian Gateway, B10:9, 15*Rhabdosphaera clavigera*, Site 1168, B6:25*Rhombodinium draco*

Kofoid system, B5:62

Tasmanian Gateway, B5:91

Rhombodinium perforatum

Kofoid system, B5:62

Tasmanian Gateway, B5:91

Rhombodinium porosum

Kofoid system, B5:62

Tasmanian Gateway, B5:91

rhomboideum, *Dracodinium*, Tasmanian Gateway, B5:6*rigaudiae*, *Hystrichokolpoma*

Site 1168, A3:32; B2:28, 34

Site 1172, B3:36

rigidum, *Renidinium*

Kofoid system, B5:61

Tasmanian Gateway, B5:90–91

robusta, *Sphaeropyle*

Site 1168, A3:30

Site 1169, A4:14

robusta, *Theocorys*, Site 1170, A5:29*“robustum,” “Mendicodinium”*

Kofoid system, B5:59

Tasmanian Gateway, B5:87

Rocella gelida

Site 1171, A6:35

Tasmanian Gateway, B10:12

Rocella gelida var. *gelida*, Site 1169, A4:15*Rocella gelida* var. *schraderi*, Site 1169, A4:15*Rocella vigilans*

Site 1170, B9:5

Site 1171, A6:35; B9:5

Site 1172, A7:32

Tasmanian Gateway, B4:12–13

Rocella vigilans var. A, Tasmanian Gateway, B10:18*Rocella vigilans* var. B, Tasmanian Gateway, B10:12, 15*rotula*, *Geminilithella*

Site 1168, B7:4

Site 1170, B7:6, 34

Site 1172, B7:9

rotundata, *Manumiella*, Site 1172, B3:45*rotundata*, *Senoniasphaera*

Kofoid system, B5:63

Tasmanian Gateway, B5:93

rotundata subsp. *alveolata*, *Senoniasphaera*

Kofoid system, B5:63

Tasmanian Gateway, B5:93

Rugoglobigerina rugosa, Site 1172, A7:28*rugosa*, *Rugoglobigerina*, Site 1172, A7:28*rugosus*, *Triquetrorhabdulus*

Site 1168, B6:10; B7:3

Site 1170, B7:5

Site 1171, A6:28; B7:7

Site 1172, B6:10; B7:8, 30

Tasmanian Gateway, B10:10, 16, 19

rugulosum, *Ellipsodinium*

Kofoid system, B5:54

Tasmanian Gateway, B5:79

S

saginatam, *Elphidium*, Site 1170, A5:27*saipanensis*, *Discoaster*, Site 1168, A3:23–24*Samlandia chlamydophora*, Site 1168, B2:32*Samlandia delicata* group, Site 1172, B3:8*Saturnodinium pansum*

Kofoid system, B5:62

Tasmanian Gateway, B5:91

Saturnodinium perforatum

Kofoid system, B5:62

Tasmanian Gateway, B5:91

Schematophora obscura, Site 1172, B3:39*Schematophora speciosa*

Kofoid system, B5:62

Site 1168, B2:6, 32

Site 1172, A7:33; B3:9–10, 39–40; B4:7, 39

Tasmanian Gateway, B4:8–9, 15; B5:92

schlumbergeri, *Sigmoilopsis*

Site 1170, A5:28

Site 1172, A7:29

Scyphosphaera sp., Site 1172, B7:32*seelandica*, *Manumiella*

Kofoid system, B5:58

Site 1172, B3:7

Tasmanian Gateway, B5:86

Selenopemphix antarctica, Site 1169, A4:16*Selenopemphix armagedonensis*

Kofoid system, B5:62

Tasmanian Gateway, B5:92

Selenopemphix armata

Kofoid system, B5:63

Tasmanian Gateway, B5:92

Selenopemphix dionaeacysta

Kofoid system, B5:63

Tasmanian Gateway, B5:92–93

Selenopemphix nephroides, Site 1172, B3:40*Selenopemphix* spp., Tasmanian Gateway, B4:15*sellii*, *Helicosphaera*

Site 1168, B6:5, 9, 25

Site 1170, B6:25

Tasmanian Gateway, B6:4, 11

semicirculata, *Areoligera*

Kofoid system, B5:48

Tasmanian Gateway, B5:69

semicirculata, *Areoligera?*, Site 1168, B2:7, 23*semilunifera*, *Hemiplacophora*

Kofoid system, B5:55

Site 1168, B2:6

Site 1172, A7:33; B3:9–10; B4:7

Tasmanian Gateway, B4:8, 15; B5:81; B10:11

semitecta, *Glaphyrocysta*

Kofoid system, B5:55

Tasmanian Gateway, B5:81

- Senegalinium bicavatum*, Site 1172, B3:40
Senegalinium dilwynense, Site 1172, B3:46
Senoniasphaera inornata
 Kofoid system, B5:63
 Site 1172, B3:8, 40
 Tasmanian Gateway, B5:93
Senoniasphaera protrusa, Kofoid system, B5:63
Senoniasphaera rotundata
 Kofoid system, B5:63
 Tasmanian Gateway, B5:93
Senoniasphaera rotundata subsp. *alveolata*
 Kofoid system, B5:63
 Tasmanian Gateway, B5:93
serrata, *Lentinia*
 Kofoid system, B5:58
 Tasmanian Gateway, B5:85
sexispinosa, *Edwardsiella*
 Kofoid system, B5:54
 Site 1168, B2:6, 8, 26
 Tasmanian Gateway, B5:79
seymourensis, *Manumiella*, Site 1172, B3:7
Sigmoilopsis schlumbergeri
 Site 1170, A5:28
 Site 1172, A7:29
silicorum, *Palaeotetradinium*, Kofoid system, B5:61
Simonseniella barboi, Site 1170, B6:6
siphonophorum, *Litosphaeridium*
 Kofoid system, B5:58
 Tasmanian Gateway, B5:86
 skolochorate acritarchs, Site 1168, B2:34–35
 small *Gephyrocapsa* spp.
 Site 1168, B6:5
 Site 1170, B6:6
 Site 1171, B6:7
 Site 1172, B6:8, 25
 Tasmanian Gateway, B6:4, 11
 small *Gephyrocapsa* Zone
 Site 1168, B6:5
 Site 1170, B6:6
 Site 1171, B6:7
 Site 1172, B6:8
 small *Reticulofenestra* spp.
 Site 1168, B6:5
 Site 1170, B6:6
 Site 1171, B6:7
 Site 1172, B6:8
solitus, *Chiasmolithus*
 Site 1170, A5:20–21
 Site 1171, A6:29
 Site 1172, A7:26
 Tasmanian Gateway, B10:11
soucouyantiae, *Sumatradinium*
 Kofoid system, B5:65
 Tasmanian Gateway, B5:95
speciosa, *Schematophora*
 Kofoid system, B5:62
 Site 1168, B2:6, 32
 Site 1172, A7:33; B3:9–10, 39–40; B4:7, 39
 Tasmanian Gateway, B4:8–9, 15; B5:92
speciosum, *Cerodinium*, Site 1172, B3:32
spectabilis, *Spiroplectammina*, Site 1172, A7:29
Sphaeropyle langii, Site 1169, A4:14
Sphaeropyle robusta
 Site 1168, A3:30
 Site 1169, A4:14
Sphenolithus abies, Site 1168, B6:25; B7:3
Sphenolithus belemnus
 Site 1168, A3:24; B7:4
 Site 1170, B7:6
Sphenolithus belemnus Zone
 Site 1170, B7:6
 Site 1171, B7:7
Sphenolithus capricornutus, Site 1168, B7:5, 31
Sphenolithus compactus
 Site 1168, B7:4, 32
 Site 1172, B7:9, 36
Sphenolithus conicus, Site 1168, B7:32
Sphenolithus disbelemnus
 Site 1168, B7:31
 Tasmanian Gateway, B7:9
Sphenolithus dissimilis, Site 1172, B7:31
Sphenolithus distentus, Site 1168, A3:24
Sphenolithus heteromorphus
 Site 1168, A3:24; B7:4
 Site 1170, B7:6
 Site 1171, B7:7
 Site 1172, B7:8–10, 31
Sphenolithus heteromorphus Zone
 Site 1171, B7:7
 Site 1172, B7:9
Sphenolithus moriformis
 Site 1168, B7:4, 32
 Site 1170, B7:5
 Site 1171, B7:7
 Site 1172, B7:8
Spinidinium colemanii, Site 1170, B4:39
Spinidinium densispinatum, Site 1171, A6:39
Spinidinium echinoideum
 Kofoid system, B5:63
 Tasmanian Gateway, B5:93
Spinidinium luciae, Site 1172, B3:40, 47; B4:6, 39–40
Spinidinium macmurdoense
 Kofoid system, B5:63
 Site 1170, A5:33
 Site 1171, B4:39
 Site 1172, A7:34; B3:7, 9, 40, 47; B4:41
 Tasmanian Gateway, B4:6–7; B5:94; B10:17
Spinidinium spp.
 Site 1170, A5:31
 Site 1171, A6:37
 Site 1172, B3:12, 47
 Tasmanian Gateway, B4:11, 14
Spinidinium spp. n. sp., Tasmanian Gateway, B3:21; B4:23
Spiniferites cf. *mirabilis*, Site 1168, B2:32
Spiniferites mirabilis, Site 1171, A6:36
Spiniferites porosus
 Kofoid system, B5:63
 Tasmanian Gateway, B5:94
Spiniferites ramosus, Site 1168, A3:32
Spiniferites ramosus subsp. *maeandriformis*
 Kofoid system, B5:63
 Tasmanian Gateway, B5:94

- Spiniferites* sp. A, Site 1172, B3:41
Spiniferites sp. B, Site 1172, B3:41
Spiniferites spp.
 Site 1168, B2:7–8, 10
 Site 1171, A6:39
 Site 1172, A7:35; B3:12; B4:7–8
 Tasmanian Gateway, B4:6, 14
Spiniferites spp. n. sp., Site 1172, B3:7
Spiniferites? *velatus*
 Kofoid system, B5:63
 Tasmanian Gateway, B5:94
spinosa, *Epelidosphaeridia*
 Kofoid system, B5:54
 Tasmanian Gateway, B5:80
spinosa, *Hystrichokolpoma*, Site 1172, A7:34
spinosa, *Thalassiphora?*
 Kofoid system, B5:65
 Tasmanian Gateway, B5:96
spinosum, *Eucyrtidium*
 Site 1168, A3:30
 Site 1171, A6:34
 Site 1172, A7:31
spinosum, *Hystrichokolpoma*
 Site 1172, B3:9, 45
 Tasmanian Gateway, B4:7
spinulosa, *Morozovella*, Site 1171, A6:32
Spiroplectammina spectabilis, Site 1172, A7:29
Spiroplectammina spp.
 Site 1171, A6:33
 Site 1172, A7:29
splendens, *Dictyophimus*
 Site 1168, A3:30
 Site 1169, A4:13
 Site 1170, A5:28
Spongattractus balbis
 Site 1170, A5:29
 Site 1172, A7:31
Spongattractus pachystylus, Site 1172, A7:31
Spongodinium delitiense
 Kofoid system, B5:64
 Tasmanian Gateway, B5:94–95
Spongoplegma antarcticum, Site 1169, A4:14
spongothorax, *Cycladophora*, Site 1169, A4:14
stavensis, *Reticulofenestra*
 Site 1170, B7:6
 Site 1171, B7:29
Stephanopyxis spp.
 Site 1170, A5:30
 Site 1172, A7:32
Stephanopyxis turris, Site 1171, A6:35
Stephodinium coronatum
 Kofoid system, B5:64
 Tasmanian Gateway, B5:95
Stichocorys delmontensis
 Site 1168, A3:30
 Site 1170, A5:28, 40
 Site 1171, A6:34
 Site 1172, A7:30
Stichocorys peregrina
 Site 1168, A3:30
 Site 1170, A5:28
 Site 1171, A6:34
Stilostomella abyssorum, Site 1170, A5:27
Stoveracysta cf. *conerae*, Site 1168, B2:32
Stoveracysta conerae, Site 1168, B2:8
Stoveracysta kakanuiensis
 Kofoid system, B5:64
 Site 1168, B2:33
 Site 1170, A5:33; B4:8
 Site 1171, A6:38; B4:8
 Site 1172, A7:33; B3:10, 41; B4:39, 41
 Tasmanian Gateway, B4:6, 10–12; B5:98
Stoveracysta ornata
 Kofoid system, B5:64
 Site 1168, B2:6, 32–33
 Site 1171, A6:38
 Site 1172, B3:9–10; B4:7
 Tasmanian Gateway, B4:10–11; B5:95; B10:17–18
striatoconum, *Conosphaeridium*
 Kofoid system, B5:51
 Tasmanian Gateway, B5:73
 “*striatogranulosum*,” “*Palaeocystodinium*”
 Kofoid system, B5:61
 Tasmanian Gateway, B5:89
striatum, *Cerodinium*, Site 1172, B3:32
Stylacontarium aquilonarium
 Site 1168, A3:29–30
 Site 1169, A4:14
 Site 1172, A7:30
Stylacontarium neptunus, Site 1168, A3:30
Stylatractus universus
 Site 1168, A3:30
 Site 1172, B6:10
Stylosphaera radiosa, Site 1170, A5:29
Subbotina angiporoides
 Site 1168, A3:27
 Site 1170, A5:25–26
 Site 1171, A6:31–32
 Site 1172, A7:27–28
 Tasmanian Gateway, B10:11
Subbotina angiporoides Zone
 Site 1168, A3:27–28
 Site 1170, A5:25–26
Subbotina brevis
 Site 1168, A3:22, 27–28
 Tasmanian Gateway, B10:11
Subbotina brevis Zone
 Site 1168, A3:28
 Site 1170, A5:26
Subbotina linaperta
 Site 1168, A3:28
 Site 1170, A5:26
 Site 1171, A6:32
 Site 1172, A7:28
subglobosa, *Globocassidulina*, Site 1168, A3:29
sulcata, *Paralia*, Site 1172, A7:31
sulcata var. *crenulata*, *Paralia*, Site 1171, A6:36
Sumatradinium druggii
 Kofoid system, B5:64
 Tasmanian Gateway, B5:95
Sumatradinium soucouyantiae
 Kofoid system, B5:65
 Tasmanian Gateway, B5:95

Surculosphaeridium? longifircatum

Kofoid system, B5:65

Tasmanian Gateway, B5:95

surculus, *Discoaster*

Site 1168, A3:23, 35; B6:5; B7:3

Site 1172, B7:25

suspectum, *Trithyrodinium*, Kofoid system, B5:65*suturalis*, *Orbulina*

Site 1168, A3:22

Site 1170, A5:24

suturalis, *Praeorbulina*, Site 1168, A3:22, 26*Svalbardella* spp., Site 1168, B2:8, 33*symeonidesii*, *Tetralithoides*, Site 1168, B7:33*Systematophora placacantha*, Site 1168, A3:32**T***tabulata*, *Invertocysta*

Kofoid system, B5:57

Site 1168, A3:32; B2:29

Site 1169, A4:16

Site 1170, A5:30

Tasmanian Gateway, B5:84

tasmaniae, *Hughesius*

Site 1168, B7:34

Site 1170, B7:6

Tasmanites, Site 1168, A3:32

Tau Zone, Site 1169, A4:13

tectata, *Habibacysta*

Kofoid system, B5:55

Tasmanian Gateway, B5:81

tekopua, *Lophophaena*, Site 1170, A5:29*tenuispinosum*, *Homotryblium*

Kofoid system, B5:56

Site 1172, B3:36

Tasmanian Gateway, B5:82

Tetralithoides symeonidesii, Site 1168, B7:33*tetraoestrupii* var. *reimeri*, *Thalassiosira*, Site 1171, B6:7*tetrapera*, *Cyrtocapsella*

Site 1168, A3:30

Site 1169, A4:14, 16

Site 1170, A5:28

Site 1171, A6:34

Site 1172, A7:30

Thalassionema nitzschioides, Site 1168, A3:31*Thalassiosira complicata*, Site 1170, A5:29*Thalassiosira insigna* Zone, Tasmanian Gateway, B10:4*Thalassiosira inura*, Site 1170, A5:29*Thalassiosira lentiginosa*, Site 1169, A4:15*Thalassiosira tetraoestrupii* var. *reimeri*, Site 1171, B6:7*Thalassiothrix antarctica*, Site 1168, A3:31*Thalassiothrix antarctica*-*longissima* group, Site 1168, A3:31*Thalassiphora delicata*

Kofoid system, B5:65

Tasmanian Gateway, B5:95–96

Thalassiphora pelagica

Site 1168, A3:32; B2:7, 10

Site 1170, A5:21, 34, 77

Site 1171, A6:37

Site 1172, B3:12

Tasmanian Gateway, B4:14

Thalassiphora? spinosa

Kofoid system, B5:65

Tasmanian Gateway, B5:96

Thecosphaera spp.

Site 1168, A3:29

Site 1169, A4:14

Theocorys redondoensis, Site 1169, A4:14*Theocorys robusta*, Site 1170, A5:29*Theocorythium trachelium trachelium*, Site 1168, A3:30*Toweius* spp., Site 1171, B8:2*trachelium trachelium*, *Theocorythium*, Site 1168, A3:30*Triblastula utinensis*

Kofoid system, B5:65

Tasmanian Gateway, B5:96

Triceraspis antarctica, Site 1169, A4:14*Trichodinium castanea*

Kofoid system, B5:65

Tasmanian Gateway, B5:96

triconiculus, *Amaurolithus*, Site 1172, B7:25*Trigonopyxidia ginella*

Kofoid system, B5:65

Tasmanian Gateway, B5:96

trilobus, *Globigerinoides*

Site 1170, A5:24

Site 1172, A7:27

Trinovantedinium applanatum

Kofoid system, B5:65

Tasmanian Gateway, B5:96

Trinovantedinium glorianum

Kofoid system, B5:65

Tasmanian Gateway, B5:96

Triquetrorhabdulus carinatus, Site 1168, B7:4, 30*Triquetrorhabdulus carinatus* Zone

Site 1168, B7:4

Site 1172, B7:9

Triquetrorhabdulus challengerii, Site 1168, B7:30*Triquetrorhabdulus farnsworthii*, Site 1168, B7:30*Triquetrorhabdulus rugosus*

Site 1168, B6:10; B7:3

Site 1170, B7:5

Site 1171, A6:28; B7:7

Site 1172, B6:10; B7:8, 30

Tasmanian Gateway, B10:10, 16, 19

triradiatus, *Discoaster*, Site 1172, B7:25*triseriata*, *Guembelitra*, Tasmanian Gateway, B10:9*Trithyrodinium evittii*

Kofoid system, B5:65

Site 1172, A7:24, 35; B3:8, 41

Tasmanian Gateway, B5:97

Trithyrodinium suspectum, Kofoid system, B5:65*tropicus*, *Calcidiscus*

Site 1168, B7:4–5

Site 1170, B7:6

Site 1171, B7:8, 28

Site 1172, B7:9

Tasmanian Gateway, B7:9

truncatulinoidea, *Globorotalia*

Site 1168, A3:25; B6:9

Site 1169, A4:11

Site 1170, A5:22–23, 40

- Site 1171, A6:30
 Site 1172, A7:26–27
truncatum, *Hystrichokolpoma*
 Site 1172, B3:9, 36
 Tasmanian Gateway, B4:7
truncatum, *Labyrinthodinium*
 Kofoid system, B5:58
 Site 1168, B2:6, 8, 29
 Tasmanian Gateway, B5:85
truncigerum, *Raetiaedinium*
 Kofoid system, B5:61
 Tasmanian Gateway, B5:90
truswelliae, *Hystrichosphaeridium*
 Kofoid system, B5:57
 Site 1172, B3:9, 36–37, 45
 Tasmanian Gateway, B4:7; B5:84
tubiferum, *Hystrichosphaeridium*
 Kofoid system, B5:57
 Site 1170, A5:32
 Site 1172, B3:37
 Tasmanian Gateway, B5:84
Turbiosphaera filosa
 Site 1172, B3:10, 41, 47; B4:7, 39, 41
 Tasmanian Gateway, B4:11
Turborotalia euapertura, Tasmanian Gateway, B10:18
Turborotalia euapertura Zone
 Site 1168, A3:27
 Site 1170, A5:25
Turborotalia pomeroli, Site 1170, A5:26
turris, *Stephanopyxis*, Site 1171, A6:35
turriseiffelii, *Eiffellithus*, Site 1172, A7:26; B8:2
tutulosum, *Adnatosphaeridium*
 Kofoid system, B5:47
 Tasmanian Gateway, B5:67

U

- umbilica*, *Reticulofenestra*
 Site 1168, A3:24
 Site 1170, A5:20–22
 Site 1171, A6:28–29
 Site 1172, A7:25–26
Umbilicosphaera jafari, Site 1168, B7:33
umbilicus, *Reticulofenestra*, Tasmanian Gateway, B10:9, 15
umbonatus, *Oridorsalis*
 Site 1170, B13:8–10
 Site 1172, B13:8–10
umbonifera, *Nuttalides*, Site 1171, A6:33
umbraculum, *Amiculosphaera*
 Kofoid system, B5:47
 Site 1168, A3:32
 Tasmanian Gateway, B5:68
Unipontidinium aquaeductum
 Kofoid system, B5:65
 Tasmanian Gateway, B5:97
universa, *Orbulina*
 Site 1169, A4:11
 Site 1170, A5:23; B13:8–10
 Site 1172, A7:27; B13:8–10
universus, *Stylatractus*
 Site 1168, A3:30
 Site 1172, B6:10

- Upsilon Zone, Site 1169, A4:13–14
urnaformis, *Emmetrocyta*, Site 1168, B2:26
ursulae, *Eatonicysta*
 Kofoid system, B5:53
 Tasmanian Gateway, B5:6, 78
utinensis, *Callaiosphaeridium*, Kofoid system, B5:49
utinensis, *Cannosphaeropsis*
 Kofoid system, B5:49
 Tasmanian Gateway, B5:71
utinensis, *Triblastula*
 Kofoid system, B5:65
 Tasmanian Gateway, B5:96
Uvigerina hispida, Site 1172, A7:29
Uvigerina peregrina
 Site 1168, B10:6
 Site 1172, A7:29
Uvigerina pygmaea, Site 1170, B10:6
Uvigerina spp.
 Site 1168, A3:28
 Site 1172, A7:29

V

- Vaginulina* spp., Site 1170, A5:27
vanraadshovenii, *Crassiretrirulites*, Site 1168, A3:33
varielongitudum, *Dracodinium*
 Kofoid system, B5:53
 Tasmanian Gateway, B5:77
velatus, *Spiniferites?*
 Kofoid system, B5:63
 Tasmanian Gateway, B5:94
velorum, *Impagidinium*, Site 1168, B2:10
vema, *Pseudocubus*
 Site 1169, A4:13
 Site 1171, A6:34
verricula, *Gramocysta*
 Kofoid system, B5:55
 Tasmanian Gateway, B5:81
verrucosa, *Aireiana*
 Site 1168, B2:6
 Site 1172, A7:33; B3:9–10, 30; B4:7, 38
 Tasmanian Gateway, B4:10
verrucosa, *Chatangiella*
 Kofoid system, B5:50
 Tasmanian Gateway, B5:72
Verrucosporites kopukuensis, Site 1168, A3:33
verrucosum, *Ovoidinium*
 Kofoid system, B5:60
 Tasmanian Gateway, B5:89
vestitum, *Chichaouadinium*
 Kofoid system, B5:51
 Tasmanian Gateway, B5:72–73
viborgense, *Isabelidinium?*
 Kofoid system, B5:57
 Tasmanian Gateway, B5:84
victorianum, *Impagidinium*, Site 1172, B3:38
vigilans, *Rocella*
 Site 1170, B9:5
 Site 1171, A6:35; B9:5
 Site 1172, A7:32
 Tasmanian Gateway, B4:12–13
vigilans var. *A*, *Rocella*, Tasmanian Gateway, B10:18

- vigilans* var. B, *Rocella*, Tasmanian Gateway, B10:12, 15
Vozzhennikovia apertura, Site 1172, B3:41, 47; B4:39
Vozzhennikovia spp.
 Site 1170, A5:31, 33–34
 Site 1171, A6:37–39
 Site 1172, B3:7, 9, 12, 47; B4:7
 Tasmanian Gateway, B4:6, 11, 14; B10:5
Vozzhennikovia spp. n. sp., Tasmanian Gateway, B3:21;
 B4:23
Vozzhennikovia? spp.
 Site 1170, B4:39
 Site 1172, B4:40–41
Vulvulina pennatula, Site 1168, A3:29

W

- waipawaense*, *Dracodinium*
 Kofoid system, B5:53
 Site 1171, A6:38
 Site 1172, B3:8, 35, 43
 Tasmanian Gateway, B5:78
waipawaensis group, *Pyxidinospis*
 Site 1170, A5:32
 Site 1172, B3:8
wardenense, *Cerodinium*
 Kofoid system, B5:50
 Tasmanian Gateway, B5:72
weaveri, *Fragilariopsis*
 Site 1169, A4:15
 Site 1170, A5:29
Wetzeliella articulata, Site 1168, A3:32
Wetzeliella gochtii
 Kofoid system, B5:66
 Site 1168, B2:7
 Tasmanian Gateway, B5:97
Wetzeliella meckelfeldensis
 Kofoid system, B5:66
 Tasmanian Gateway, B5:97
Wetzeliella spp., Site 1171, A6:38
Wilsonidinium echinosuturatum
 Kofoid system, B5:66
 Tasmanian Gateway, B5:98
Wilsonidinium ornatum
 Site 1170, A5:32
 Site 1172, A7:34–35
wilsonii, *Acanthaulax*, Site 1172, A7:35
woodi, *Globoturborotalita*
 Site 1168, B9:7
 Site 1170, A5:24–25
wuellerstorfi, *Cibicidoidea*
 Site 1170, B13:8–10
 Site 1172, B13:8–10
 Tasmanian Gateway, B10:6
wuellerstorfi, *Fontbotia*
 Site 1168, A3:29
 Site 1170, A5:27
 Site 1171, A6:33
 Site 1172, A7:29

X

- Xanthiopyxis* spp., Site 1170, A5:30
Xenascus ceratioides
 Kofoid system, B5:66
 Tasmanian Gateway, B5:98
Xiphophoridium alatum
 Kofoid system, B5:66
 Tasmanian Gateway, B5:98

Z

- zoharyi*, *Polysphaeridium*, Tasmanian Gateway, B5:5
 zones (with letter prefixes),
 AP6, Site 1171, A6:32
 AP7, Site 1172, A7:28
 AP8, Site 1171, A6:32
 AP9, Site 1171, A6:32
 AP10, Site 1171, A6:32
 AP11, A6:32; A7:28
 AP12, A6:32; A7:28
 AP13, A6:29, 31–32; A7:23, 27
 CN1, Site 1168, B7:4
 CN1/CN2 boundary, Site 1168, A3:24
 CN1a, A7:23; B7:8
 CN1a/CN1b boundary, B7:4, 6
 CN1a/CP19 boundary, Site 1168, B7:5
 CN1b, A6:28; B7:5, 8
 CN1b/CN1c boundary, B7:4–5, 9
 CN1c, Site 1168, B7:5
 CN2, B7:4, 6–7, 9
 CN3, A3:22; B7:4, 6–7, 9
 CN3/CN4 boundary, Site 1171, B7:7
 CN4, B7:3, 6–7, 9
 CN4/CN5a boundary, B7:6–7
 CN5/CN6 boundary, Site 1168, A3:24
 CN5a, Site 1168, B7:4
 CN5b, B7:4, 6, 8
 CN6, A7:23; B7:4–5, 7–8
 CN7, B7:4, 7
 CN8, Site 1171, B7:7
 CN8a, B7:4, 7–8
 CN8b, B7:3, 8
 CN9/CN10 boundary, Site 1171, B7:7
 CN9a, A3:24; B7:3, 5, 7
 CN9a/CN9b boundary, Site 1171, B7:7
 CN9b, A3:24; A4:10; B7:3, 8
 CN9b/CN10 boundary, B7:3, 5
 CN11, A3:24; A4:10
 CN12, Site 1168, A3:23
 CN15, Site 1168, A3:23
 CP15, Site 1168, A3:23
 CP19/CN1 boundary, Site 1172, B7:9
 N14, Site 1169, A4:13
 N17, Site 1169, A4:13
 NN1/NN2 boundary, Site 1168, B7:4
 NN2, A3:16–17; A5:19
 NN3, A3:16–17; A5:19
 NN4, A3:16–17; A5:19; B7:4
 NN9, Site 1168, A3:17

NN11, Site 1168, A3:17
 NN16, Site 1168, A3:17
 NN17, Site 1172, A7:25
 NN18, Site 1172, A7:25
 NN19, Site 1172, A7:25
 NP16/NP17 boundary, Site 1172, A7:20
 NP17, Site 1170, A5:18
 NP25, Site 1168, A3:16–17
 SN1, A3:22, 27; A5:25; A6:31; A7:23, 27
 SN2, A3:27; A5:25; A6:31; A7:27
 SN3, A3:27; A5:24; A6:31
 SN4, A3:27; A5:24; A6:31; A7:27
 SN5, A3:22, 26; A5:24; A6:30–31; A7:27
 SN6, A3:26; A6:30–31; A7:27
 SN7, A3:26; A4:12; A5:24; A6:30; A7:27
 SN8, A3:22, 26; A5:24; A6:30; A7:23, 27
 SN9, A3:26; A5:23; A6:30

SN9/SN10 boundary, Site 1171, A6:40
 SN10, A3:26; A5:23; A6:29–30
 SN11, A3:25–26; A5:23–24; A6:29–30; A7:27
 SN12a, A3:22; A4:12; A5:23; A6:29–30; A7:27
 SN12b, A3:22, 25; A4:12; A7:27
 SN13, A3:25; A4:12; A5:23; A6:30; A7:27
 SN14, A3:25; A4:11
 SP8, Site 1170, A5:26
 SP9, Site 1170, A5:26
 SP10, A3:28; A5:26
 SP11, A3:28; A5:26
 SP12, A3:22, 28; A5:26
 SP13, Site 1170, A5:25
 SP14, Site 1172, A7:28
 SP14a, A5:25; A6:29, 31
 SP14b, A3:22; A5:25; A7:23