

# INDEX TO VOLUME 172

This index covers both the *Initial Reports* and *Scientific Results* portions of Volume 172 of the *Proceedings of the Ocean Drilling Program*. References to page numbers in the *Initial Reports* are preceded by “A” with a colon (A:) and to those in the *Scientific Results* (this 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 Sites 1054–1055, for example, is given as “Sites 1054–1055, A:33–76.”

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

#### advection

- carbon dioxide, B3:3
- ground water, A:288
- sediment drifts, A:7–8

#### age

- oxygen isotopes, B5:19
- sediments, B5:19
- vs. oxygen isotopes, B9:10

#### age vs. depth

- sedimentation rates, A:54
- Site 1056, A:114
- Site 1057, A:118
- Site 1058, A:121
- Site 1059, A:125
- Site 1060, A:203–204
- Site 1061, A:206–207
- Site 1062, A:210–211
- Site 1063, A:277–278
- Sites 1054–1055, A:53

#### albite, X-ray diffraction data, B5:21

#### algal mats

- geochemistry, B Overview:4
- sediments, B1:2

#### alkalinity

- diagenesis, A:60–63, 123, 125, 218, 221, 223
- pore water, A:314, 316
- sediments, A:285–286
- vs. depth, A:62, 136, 226, 285, 316

#### alkanes. *See n*-alkanes

#### alkenes

- mass chromatograms, B1:4
- sediments, B1:2

#### aluminosilicates

- cyclic processes, B5:5–6
- sediments, B5:4
- stadials, B Overview:4
- vs. age, B5:19
- vs. depth, B5:13

#### aluminum oxide

- sediments, B5:4–5, 22
- vs. potassium oxide, B5:14
- vs. titanium oxide, B5:14
- See also* potassium oxide/aluminum oxide ratio; silica/aluminum oxide ratio

#### aluminum oxide/titanium oxide ratio

- sediments, B5:4–5
- stadials/interstadials, B Overview:4
- vs. depth, B5:13

ammonium

- diagenesis, A:60, 123, 125
- pore water, A:221, 311–313
- sediments, A:285–286
- vs. depth, A:62, 136, 226, 285

anisotropy, magnetic susceptibility, B Overview:4; B4:1–22

ankerite, authigenesis, A:226

anorthite, X-ray diffraction data, B5:21

Antarctic Bottom Water, ocean circulation, A:7, 288; B Overview:6

aragonite, lithologic units, A:84, 91, 172–174

Argentine Basin, mud waves, A:9

Atlantic Ocean N, ocean circulation, A:7

Atlantic Ocean NW, Pliocene–Holocene, B Overview:1–15

augite, lithologic units, A:88

authigenesis

- diagenesis, A:125–126
- oxidation, B2:4–6
- pore water, A:63
- precipitation, A:225–226, 228
- sediments, A:286–288

**B**

bacteria

- methane, A:55
- sediments, A:210–211

*Bacteriostrium hyalinum*, scanning electron micrograph, B5:18

Bahama Outer Ridge

- paleoceanography, B Overview:5–6
- sedimentation, A:311

basal contact, photograph, A:166

bathymetric gradients, paleoceanography, B Overview:5–6

benzeneacetonitrile, mass chromatograms, B1:9

Bermuda Rise

- composite depths, A:313
- Dansgaard–Oeschger cycles, B5:1–24
- magnetic excursions, B10:1–18
- organic geochemistry, B1:1–9
- paleoceanography, A:9
- sedimentation, A:311
- site description, A:251–308

Bermuda Rise NE

- carbon dioxide, B3:1–16
- sediment drifts, A:7–8

biocenoses, diatoms, B8:4

biogenic component

- lithologic units, A:84–92
- photograph, A:84; B7:18

biosiliceous content, lithologic units, A:164–165, 168, 170–174

biostratigraphy

- correlation, A:176, 178, 313
- diatoms, B8:1–49
- general section, B Overview:12
- Neogene, A:319–321
- Pleistocene, A:319–321

Sites 1054–1055, A:40–44

Sites 1056–1059, A:93–97

Sites 1060–1062, A:178–184

Sites 1063–1064, A:259–262

bioturbation

lithologic units, A:90–92, 164–165, 168, 170–174

photograph, A:166–167, 175

sedimentary structures, B7:4–12

Blake Event

magnetic excursions, A:266

magnetic inclination, A:46

magnetostratigraphy, A:188

Blake Outer Ridge

magnetic excursions, B10:1–18

magnetic susceptibility, B4:1–22

paleoceanography, B Overview:5–6

Blake Outer Ridge, intermediate depth, site description, A:77–156

Blake-Bahama Outer Ridge

carbon dioxide, B3:1–16

composite depths, A:313

gas hydrates, A:321

geology, A:7–11

magnetic susceptibility, B4:1–22

sedimentary structures, B7:1–37

sedimentation, A:311

Blake-Bahama Outer Ridge, deep, site description, A:157–250

Brunhes Chron

magnetic excursions, A:266, 319–320; B Overview:6; B10:1–18

magnetostratigraphy, A:46–47, 99–100, 186–188, 263, 316–317

Brunhes/Matuyama boundary

magnetic inclination, A:268

magnetic polarity transition, A:320

magnetostratigraphy, A:46–47, 99–100, 114–115, 186–188, 316–317

sedimentation, A:311

Brunhes/Matuyama polarity transition

comparison in Sites 1060 and 1063, A:319

magnetic polarity, A:318–319

magnetostratigraphy, A:263

bulk density logs, vs. depth, A:243, 300

burrows

lithologic units, A:38, 87

photograph, A:89, 171

butane. *See iso-butane*

**C**

calcite

cyclic processes, B5:5–6

interstadials, B Overview:4

lithologic units, A:84–88, 164–165, 168, 170–174, 258–259

sediments, B5:4

vs. age, B5:19

vs. calcium oxide, B5:15

vs. depth, B5:13

X-ray diffraction data, B5:21

- calcite, magnesian, lithologic units, A:257–258  
calcite cement, lithologic units, A:38  
calcium  
  authigenesis, A:63, 125–126, 225–226, 228  
  pore water, A:286–288, 311–313  
  vs. depth, A:62, 137, 227–228, 286–287  
calcium carbonate  
  age and concentration and sedimentation rates,  
    A:116–117, 119, 123–124, 206, 209, 214, 280  
  mass accumulation rates, A:48–49, 55  
  sedimentation rates, A:316  
  sediments, A:58–59, 130–131, 219–221, 282–283  
  vs. depth, A:132, 205, 208, 215, 284  
calcium carbonate accumulation rates  
  vs. age, A:316  
  vs. depth, A:56  
calcium oxide  
  sediments, B5:4–5, 22  
  vs. calcite, B5:15  
caliper logs, vs. depth, A:243–244, 300–301  
carbon  
  cycling, B3:2  
  organic matter, A:214, 216–217  
carbon, inorganic, sediments, A:55, 57–59, 118, 121,  
  130–131, 211–212, 214, 219–221, 277–278, 282–  
  283  
carbon, organic  
  age and concentration and accumulation rates,  
    A:116–117, 119, 123, 126, 206, 210, 216, 281  
  mass accumulation rates, A:49, 55  
  photograph, A:256  
  vs. depth, A:132, 205, 208, 215  
  *See also* organic carbon accumulation rates  
carbon, total, sediments, A:58–59, 130–131, 211–212,  
  214, 219–221, 282–283  
carbon, total organic  
  sediments, A:55–59, 118–119, 121, 130–131, 133,  
    219–221, 223, 277–278, 282–284  
  vs. depth, A:133–134, 222, 284  
carbon/nitrogen ratio  
  carbonate content, A:278  
  organic matter, A:121–122, 214, 216–217, 278, 281  
  sediments, A:55, 57–59, 282–283  
  vs. depth, A:222, 284  
carbon dioxide  
  advection, B3:3  
  carbon isotopes, B3:1–16  
  gas hydrates, A:9–11  
  reduction, B Overview:2–5  
carbon dioxide, dissolved, carbon isotopes, B3:5  
carbon isotopes  
  carbonate stratigraphy, B Overview:6  
  methane, B3:1–16  
  paleoceanography, B Overview:5  
  upper Pleistocene, B9:1–14  
  vs. depth, B3:11–16  
carbonate content  
  cyclic processes, B5:5–6  
  diffuse spectral reflectance, B6:1–12  
  lithologic units, A:37–40, 84–92, 118–119, 121, 164–  
    165, 168, 170–174  
  measured vs. predicted data, B6:8–12  
  sediments, A:211–212, 214, 217, 219–221, 278; B4:9–  
    13  
  vs. depth, A:83, 87, 90, 92, 165, 170, 172, 222, 255,  
    258; B4:7, 8  
carbonates  
  authigenesis, A:63  
  diagenesis, A:286–288  
  photograph, A:167, 175  
  sedimentation, A:174, 176–178, 201–207  
  sedimentation rates, A:311–313  
Carolina Slope  
  geology, A:7–11  
  sedimentation, A:311  
  site description, A:33–76  
Caspian Sea, triterpanes, B1:5  
chloride  
  gas hydrates, A:126, 128–129  
  pore water, A:228–229  
  vs. depth, A:63, 138, 228, 287, 321  
chlorite  
  sediments, B5:4  
  X-ray diffraction data, B5:21  
*Chondrites*  
  lithologic units, A:84, 90–91, 164–165, 168, 170–174,  
    257–258  
  photograph, A:168  
chromaticity  
  correlation, A:47–48, 102–104  
  vs. depth, A:50–51, 52, 108, 109, 110–113, 193–194,  
    196, 197–201, 256, 272–276  
  vs. oxygen isotopes, B9:7–8, 9  
  *See also* color  
chronostratigraphy, vs. reflectors, A:317  
clasts, mud, lithologic units, A:39–40, 84  
clay  
  lithologic units, A:38, 83–93, 164–165, 168, 170–174,  
    255–259  
  photograph, A:84–85, 89, 92, 166, 175, 259; B7:18  
  sediment drifts, A:7–8  
  sedimentary structures, B7:4–12  
clay, nannofossil  
  lithologic units, A:38, 84–88, 164–165, 168, 170–174  
  photograph, A:90  
clay, silty, lithologic units, A:38, 83–92, 258–259  
clay lithology, well logging, A:242  
clay minerals  
  chemical and nuclear parameters, A:245  
  lithologic units, A:84–88  
clays  
  lithology, A:302  
  scanning electron micrograph, B5:18  
  sediments, B5:4  
Cobb Mountain Subchron  
  magnetic excursions, A:266  
  magnetic reversals, B Overview:7  
  magnetostratigraphy, A:46, 316–317  
color  
  correlation, A:188–189, 194–201, 266–268  
  lithologic units, A:37–40, 84–92, 164–165, 168, 170–  
    174, 255–258

*See also* chromaticity  
color bands, lithologic units, A:87  
color change, photograph, A:259  
composite depths  
  correlation, A:47, 101–104, 188–189, 194–201, 266–268  
  depth offsets, A:48, 105, 190, 269  
  Sites 1054–1055, A:47–48  
  Sites 1054–1064, A:313  
  Sites 1060–1062, A:188–201  
  Sites 1063–1064, A:266–268  
  vs. core-top depth, A:113–114, 202–203, 277  
compressional wave velocity  
  cyclic processes, B5:6–7  
  Dansgaard-Oeschger cycles, B Overview:4  
  discrete measurements, A:133–134  
  millennial-scale variability, A:134  
  sediments, A:63–68, 143–145, 236, 295–296  
  vs. age, B5:19  
  vs. depth, A:64–65, 138–140, 153, 229–231, 237, 289, 291; B5:10, 16  
compressional wave velocity, longitudinal, vs. depth, A:237  
compressional wave velocity, transverse, vs. depth, A:145, 295  
concretions, clay, lithologic units, A:38–40  
concretions, dolomitized clay, photograph, A:39  
contour currents, photograph, A:92  
contourites  
  lithologic units, A:93  
  sedimentary structures, B7:1–37  
convoluted beds  
  lithologic units, A:88  
  photograph, A:89  
cores, redox, B2:1–11  
correlation  
  biostratigraphy, A:176  
  composite depths, A:47, 101–104, 188–189, 194–201, 266–268  
  depth dependence, A:311–314  
  depth-to-depth  
    Sites 1055–1056, A:54  
    Sites 1056–1057, A:120  
    Sites 1058 and 1061, A:118  
    Sites 1059 and 1061, A:125  
    Sites 1060–1061, A:204  
    Sites 1061–1062, A:212  
  magnetostratigraphy, A:313  
  reflectance, A:47  
  seismic reflection, A:72  
  stratigraphy, A:47–48, 188–201, 266–268  
  uranium logs, A:240  
correlation coefficient, carbonate content measured vs. predicted data, B6:8–12  
coulometry, sediments, A:58–59, 130–131, 219–221, 282–283  
cross laminations. *See* ripple cross laminations  
cyclic processes, sedimentation, A:118–125

## D

Dansgaard-Oeschger cycles  
  compressional wave velocity, B Overview:4  
  sediments, B5:1–24  
datums levels, calcareous nannofossils, A:41–42, 94–96, 179–183, 260–261  
deep water, ocean circulation, A:7  
Deep Western Boundary Current, glaciation, B Overview:3  
deformation  
  functions, A:103  
  lithologic units, A:88  
deformation, coring-induced, directional variation, A:100–101  
degassing, lithologic units, A:84–92  
demagnetization  
  magnetic excursions, B11:2–6  
  natural remanent magnetization, A:46–47  
demagnetization, alternating-field, sediments, A:44–47, 102, 186, 266  
density  
  cyclic processes, B5:5–6  
  porosity logs, A:299, 302  
  vs. depth, A:153  
  vs. diatom abundance, B Overview:4  
density, bulk  
  cyclic processes, B5:6–7  
  Dansgaard-Oeschger cycles, B Overview:4  
  gamma rays, B8:3  
  millennial-scale variability, A:134  
  sediments, A:65–67, 129, 132, 231–232, 290–291  
  vs. age, B5:19  
  vs. depth, A: 66–67, 229–231, 289–291; B5:10, 16; B8:18, 20  
  *See also* bulk density logs  
density, grain  
  sediments, A:65–67, 231–232, 290–291  
  vs. depth, A:66–67, 141–143, 233–235, 293–294  
density, GRAPE  
  correlation, A:47–48, 102–104, 188–189, 194–201, 266–268  
  sediments, A:63–65  
  vs. depth, A:50–51, 64–65, 107, 109–111, 138–140, 193, 195, 197–199, 271, 274–275  
  density, wet bulk, vs. depth, A:141–143, 233–234, 293–294  
density logs. *See* bulk density logs  
deposition, glaciation, A:8  
depth offsets  
  composite depths, A:48, 105, 190, 269  
  vs. core-top depth, A:53  
depth transects, paleoceanography, A:8–9  
diagenesis  
  lithologic units, A:87, 172, 255–258, 259  
  oxidation, B2:4–6  
  photograph, A:39, 89, 167, 171, 175  
  pore water, A:286–288  
  *See also* authigenesis; recrystallization

diagenesis, early  
 organic matter, A:60–63, 123, 125, 218, 221–225, 281, 285–286  
 sediments, A:118

diatoms  
 biostratigraphy, A:43–44, 97, 183–184, 262; B8:1–49  
 distribution, A:43, 97, 184, 262  
 habitat, B8:35  
 lithologic units, A:38, 91, 164–165, 168, 170–174, 255–258  
 paleoecology, B8:3–6, 7–15, 19  
 phosphate, B8:4  
 taxonomy and ecological preferences, B8:7–15  
 vs. density, B Overview:4  
 vs. depth, B8:18, 20–24

diffuse spectral reflectance, high-resolution methods, B6:1–12

dissolution  
 carbonate content, A:278  
 carbonates, A:214  
 diatoms, B8:5  
 minerals, A:225–226, 228, 286–288  
 sediments, A:121, 288

dolomite  
 lithologic units, A:38–40, 84, 91, 258–259  
 sediments, B5:4  
 X-ray diffraction data, B5:21

downhole measurements  
 Sites 1060–1062, A:235–245  
 Sites 1063–1064, A:294–304  
*See also* well-logging

**E**

eccentricity, sediments, A:121

erosion contact, photograph, A:88

erosional surfaces  
 sedimentary structures, B7:4–12, 20  
 X-ray radiography, B7:17, 20, 29

ethane, sediments, A:53–55, 59, 116, 118, 209, 272–277

ethane, vacutainer, vs. depth, A:218

**F**

fatty acids, geochemistry, B1:1–9

feldspars  
 sediments, B5:4  
*See also* albite; anorthite; orthoclase; plagioclase

ferric/ferrous iron ratio, sediments, B Overview:3

foliation. *See* magnetic foliation

foraminifers  
 biostratigraphy, A:319–321  
 lithologic units, A:38, 85, 90–91, 164–165, 168, 170–174  
 oxygen isotopes, B Overview:5  
 photograph, A:85, 87, 175  
 stable isotopes, B9:1–14

foraminifers, benthic, biostratigraphy, A:43, 96–97, 181, 183, 261–262

foraminifers, planktonic, biostratigraphy, A:42–43, 95–96, 180–181, 261

Formation Microscanner logs  
 lithology, A:242, 245, 302–304  
 microresistivity, A:302  
 vs. depth, A:246

**G**

gamma rays  
 bulk density, B8:3  
 sediments, A:129, 132  
 vs. depth, A: 64–65, 138, 139, 140, 229–231, 289

gamma-ray logs  
 correlation, A:303–304  
 vs. depth, A:244, 301, 303

gas expansion, remanent magnetization, A:263

gas hydrates  
 carbon dioxide, B3:3  
 dissociation, A:126, 128–129, 228–229  
 geographic extent, A:320–321  
 maps, A:11  
 pore water, A:9–11  
 sediments, A:63, 288

gas voids, sediments, A:116, 118, 209–221

gases, carbon isotopes, B3:1–16

gases, headspace, sediments, A:57, 128, 217, 281

gases, vacutainer, sediments, A:57, 129, 218, 282

Gauss Chron, magnetostratigraphy, A:263, 316–317

geochemistry, inorganic  
 Sites 1054–1055, A:59–63  
 Sites 1056–1059, A:122–129  
 Sites 1060–1062, A:217–229  
 Sites 1063–1064, A:281–288

geochemistry, organic  
 Site 1063, B1:1–9  
 Sites 1054–1055, A:49, 51–59  
 Sites 1056–1059, A:116–122  
 Sites 1060–1062, A:207–217  
 Sites 1063–1064, A:271–281

geomagnetic poles, virtual  
 Brunhes Chron, B10:4–5; B Overview:6  
 magnetic excursions, B11:3

geothermal gradient, sediments, A:288

Gilsa Excursion, magnetic excursions, A:266

glaciation  
 cyclic processes, B5:6  
 Deep Western Boundary Current, B Overview:3  
 deposition, A:8  
 lithologic units, A:39–40  
 magnetic excursions, B11:4  
 paleoclimatology, A:314, 317–318  
 sediments, A:121, 288  
*See also* interstadials; last glacial maximum; stadials

glaucinite, lithologic units, A:91

goethite, sediments, B2:4–6

grain size  
 lithologic units, A:84  
 paleoceanography, A:8–9  
 reproducibility, B5:12  
 sediments, B5:5, 16  
 volume vs. diameter, B5:11

Greenland Ice Core Project, oxygen isotopes, B5:19

ground water, advection, A:288  
Gulf Stream, ocean circulation, A:7

## H

habitat, diatoms, B8:35  
halite  
  sediments, B5:4  
  X-ray diffraction data, B5:21  
heat flow  
  sediments, A:235, 293  
hematite, sediments, B2:4–6  
high-resolution methods, diffuse spectral reflectance,  
  B6:1–12  
Holocene  
  biostratigraphy, A:40–44, 93–97, 178–184, 260–262,  
    319–321  
  lithologic units, A:37–38, 83–92, 164–165, 168, 170–  
    174, 255, 258–259  
  *See also* Pliocene–Holocene sequence  
hornblende, X-ray diffraction data, B5:21  
hydrocarbons  
  carbon isotopes, B3:1–16  
  mass chromatograms, B1:7–8  
  *See also* alkenes; benzeneacetonitrile; ethane; fatty ac-  
    ids; gases; indene; indole; *iso*-butane; *iso*-pen-  
    tane; lipids; methane; methane/ethane ratio; *n*-  
    alkanes; propane; steranes; sulfate/methane  
    boundary; triterpanes  
hydrocarbons, volatile, sediments, A:53–55, 116, 118,  
  207, 209–211, 272–277  
hydrogen index  
  organic matter, A:216, 278, 281, 284  
  sediments, A:55, 60, 133, 223  
  vs. oxygen index, A:60, 133–134, 223, 284, 317  
hydrography, paleoceanography, A:9

## I

illite  
  cyclic processes, B5:6  
  sediments, B5:4  
  X-ray diffraction data, B5:21  
illite-smectite mixture, X-ray diffraction data, B5:21  
impedance, acoustic  
  profiles, A:72–73  
  vs. depth, A:75, 152–153  
indene, mass chromatograms, B1:9  
index properties  
  average values and standard deviation, A:143, 232,  
    293  
  sediments, A:65–67, 132–133, 140–141, 231–232,  
    290–291, 293–294  
indole, mass chromatograms, B1:9  
intermediate water, ocean circulation, A:7  
interstadials  
  calcite, B Overview:4  
  marine isotope Stage 3, B Overview:5  
  *See also* stadials/interstadials  
iron  
  authigenesis, A:225–226, 228

  oxidation, B2:1–11  
  pore water, A:286–288, 311–313  
  valence, B2:9  
  vs. depth, A:227–228, 286–287  
  *See also* ferric/ferrous iron ratio  
iron oxidation, sediments, B Overview:3  
iron oxides  
  lithologic units, A:91  
  sediments, B5:22  
iron sulfides  
  authigenesis, A:286–288  
  lithologic units, A:38–40  
  photograph, A:89  
iron, total, distribution, B2:11  
*iso*-butane, sediments, A:116, 118, 209, 272–277  
*iso*-butane, vacutainer, vs. depth, A:218  
*iso*-pentane, sediments, A:272–277

## J

Jaramillo Subchron  
  magnetic excursions, A:266  
  magnetostratigraphy, A:46–47, 99–100, 115, 186–188,  
    316–317  
JV Armaan Well, triterpanes, B1:5–6

## K

kaolinite  
  sediments, B5:4  
  X-ray diffraction data, B5:21  
Kazakhstan  
  hydrocarbons, B1:7–8  
  triterpanes, B1:5–6  
kerogen, lithologic units, A:256–258

## L

laminations  
  lithologic units, A:258–259  
  mid-Pleistocene transition, A:314, 317–318  
  photograph, A:166, 256; B7:26  
  silt, A:174, 176–178  
  *See also* cross laminations  
Laschamp Excursion  
  magnetic excursions, A:266; B11:4, 19  
  magnetostratigraphy, A:188  
  split-core data, B Overview:7  
last glacial maximum, oxygen isotopes, B Overview:6  
lightness  
  correlation, A:47–48, 102–104, 188–189, 194–201,  
    266–268  
  lithologic units, A:164–165, 168, 170–174  
  sediments, A:63–65  
  spectral analysis, A:177  
  vs. depth, A:50–51, 108–111, 165, 170, 172, 193, 195,  
    197–199, 202, 272, 274–275, 291  
lipids, geochemistry, B1:1–9  
lithologic units  
  Unit, A:37–38, 83–92, 164–165, 168, 170–172, 254–  
    259

- Unit II, A:38, 85, 88, 91, 170–173  
 Unit III, A:38, 171, 173–174  
 uranium logs, A:240
- lithology**  
 clays, A:302  
 vs. depth, A:83, 87, 90, 92, 165, 170, 172, 255, 258, 317
- lithostratigraphy**  
 correlation, A:313  
 general section, B Overview:12  
 mud waves, B Overview:4–5  
 reflectance, A:38  
 Sites 1054–1055, A:37–40  
 Sites 1056–1059, A:83–93  
 Sites 1060–1062, A:164–178  
 Sites 1063–1064, A:254–259
- loss on ignition, sediments, B5:22**
- lutite, red**  
 chromaticity, A:256  
 distribution, A:315  
 lithologic units, A:84–93, 258  
 oxygen isotopes, B Overview:5–6  
 sedimentation, A:311  
 vs. age, A:315  
 vs. depth, A:165, 170, 172  
*See also* red beds
- M**
- maghemite, oxidation, B2:5**
- magnesium**  
 authigenesis, A:63, 125–126, 225–226, 228  
 pore water, A:286–288, 311–313  
 vs. depth, A:62, 137, 227–228, 286–287
- magnesium oxide, sediments, B5:22**
- magnetic declination**  
 corrected vs. uncorrected, A:102  
 magnetic excursions 13 $\alpha$  and 14 $\alpha$ , B10:15  
 magnetic excursions 15 $\alpha$  and 15 $\beta$ , B10:16  
 magnetic excursions 17 $\alpha$ , B10:17  
 magnetic excursions, B11:2–6  
 vs. depth, A:44–45, 98–101, 185–186; B10: 10, 12, 14–16, 18; B11:12, 14, 17
- magnetic declination, bidirectional, vs. depth, B4:7–8**
- magnetic excursion 3 $\alpha$ , Stage 3, B11:2–6**
- magnetic excursion 3 $\beta$**   
 split-core data, B Overview:7  
 Stage 3, B11:2–6
- magnetic excursion 7 $\alpha$ , split-core data, B Overview:7**
- magnetic excursion 13 $\alpha$ , Brunhes Chron, B10:4–5**
- magnetic excursion 14 $\alpha$ , Brunhes Chron, B10:4–5**
- magnetic excursion 15 $\alpha$ , Brunhes Chron, B10:4–5**
- magnetic excursion 15 $\beta$ , Brunhes Chron, B10:4–5**
- magnetic excursion 17 $\alpha$ , Brunhes Chron, B10:4–5**
- magnetic excursions**  
 Brunhes Chron, B10:1–18  
 magnetostratigraphy, A:46, 187–188, 263, 266, 316–317  
 paleointensity, A:188  
 Stage 3, B11:1–20
- magnetic foliation, vs. depth, B4:7–8**
- magnetic inclination**  
 Blake Event, A:46  
 Brunhes/Matuyama boundary, A:268  
 long-core measurements, vs. calculated deflected, A:104
- magnetic excursions 13 $\alpha$  and 14 $\alpha$ , B10:15**
- magnetic excursions 15 $\alpha$  and 15 $\beta$ , B10:16**
- magnetic excursions 17 $\alpha$ , B10:17**
- magnetic excursions, B11:2–6**
- magnetostratigraphy, A:99–100, 187–188**  
 sediments, A:44–47  
 vs. depth, A:44–46, 98–101, 185–186, 264–265, 267, 320; B10:9, 11, 13; B11:9, 11, 13, 15–18
- magnetic intensity**  
 vs. depth, A:44–45, 98–101, 185, 264–265, 267; B11:15–18  
*See also* paleointensity
- magnetic lineation, vs. depth, B4:7–8**
- magnetic overprinting, sediments, B2:6**
- magnetic polarity**  
 Brunhes/Matuyama polarity transition, A:318–319  
 magnetostratigraphy, A:46, 99–100, 186–187, 263  
 reversal boundaries, A:187
- magnetic reversals, magnetostratigraphy, A:46, 100, 187–188, 263, 266**
- magnetic susceptibility**  
 anisotropy, B Overview:4; B4:1–22  
 correlation, A:47–48, 102–104, 188–189, 194–201, 266–268  
 sedimentation, A:311  
 sediments, A:63–65, 129, 132  
 vs. age, A:115, 119, 122, 126, 204, 207, 212–213, 277, 314  
 vs. depth, A:44–45, 50–51, 64–65, 83, 87, 90, 92, 107–108, 110–113, 138–140, 165, 170, 172, 193–194, 197–202, 204, 207, 212–213, 229–231, 255, 258, 264–265, 267, 271, 273, 275–276, 289–290, 320; B4:7–8; B7:15, 19, 21, 27, 31, 34; B8:20  
 vs. sedimentation rates, A:54
- magnetostratigraphy**  
 correlation, A:313  
 general section, B Overview:12  
 magnetic excursions, A:263, 266, 316–317  
 magnetic polarity, A:99–100, 263  
 magnetic reversals, A:100, 102
- major elements, sediments, B5:4–5**
- manganese**  
 authigenesis, A:225–226, 228  
 pore water, A:311–313  
 vs. depth, A:227–228, 286–287
- manganese oxide, sediments, B5:22**
- marine isotope Stage 2, oxygen isotopes, B Overview:5**
- marine isotope Stage 3**  
 diatoms, B8:18  
 magnetic excursions, B Overview:6  
 oxygen isotopes, B Overview:5  
 paleomagnetism, B11:1–20
- marine isotope Stage 3 $\beta$ , magnetic excursions, B Overview:7**
- marine isotope Stage 4, diatoms, B8:6, 18**

marine isotope Stage 5  
  diatoms, B8:18  
  magnetic excursions, B Overview:6  
marine isotope Stage 5e, paleoceanography, B Overview:5  
marine isotope Stage 7 $\alpha$ , magnetic excursions, B Overview:7  
marine isotope Stage 8, magnetic excursions, A:188  
marine isotope Stage 11, magnetic excursions, A:188  
marine isotope Stage 17, magnetic excursions, B Overview:6  
marine isotope Stages 1–4, bulk mass accumulation rates, B11:20  
marine isotope Stages 5e–5d, paleoceanography, B Overview:5  
marine isotope Stages 8–10  
  color reflectance, B7:16, 22, 32, 35  
  magnetic susceptibility, B7:15, 21, 31, 34  
marine isotope Stages 9–12, paleohydrography, B Overview:6  
marine isotope Stages 10–12, red lutite, B Overview:6  
mass accumulation rates  
  calcium carbonate, A:49, 55  
  organic carbon, A:49, 55, 116–117, 119, 123, 126, 205, 208, 213, 279  
  Sites 1054–1055, A:48–49  
  Sites 1056–1059, A:104–107, 113–116  
  Sites 1060–1062, A:201–207  
  Sites 1063–1064, A:268–271  
  vs. depth, A:117, 120, 124, 127, 205, 208, 215, 279  
  *See also* organic carbon accumulation rates; sedimentation rates  
mass accumulation rates, bulk, marine isotope Stages 1–4, B11:20  
mass flow deposits  
  lithologic units, A:39–40, 93  
  location, A:40  
  photograph, A:40  
Matuyama Chron  
  magnetic excursions, A:266  
  magnetostratigraphy, A:46, 99–100, 186–188, 263, 316–317  
  *See also* Brunhes/Matuyama boundary  
methane  
  carbon isotopes, B3:1–16  
  oxidation, B Overview:2–5; B3:2  
  pore water, A:311–313  
  sediments, A:53–55, 59, 116, 118, 207, 209–211, 272–277  
  vs. depth, A:128, 216, 284, 317; B3:11  
  vs. sulfate, A:222–223, 225  
  *See also* sulfate/methane boundary  
methane, headspace, vs. depth, A:57–58  
methane/ethane ratio  
  sediments, A:53–55, 59, 116, 118, 209–211, 272–277, 314  
  vs. depth, A:57–58, 219, 284, 317  
methanogenesis  
  diagenesis, A:60, 118, 209–211, 223, 225, 228  
  sediments, A:286–288  
  sulfate, B3:2–3

*See also* sulfate reduction  
mica, lithologic units, A:84–92, 164–165, 168, 170–174  
microresistivity, Formation Microscanner logs, A:302  
mid-Pleistocene transition, paleoclimatology, A:314, 317–318  
minerals  
  chemical composition, B5:23  
  dissolution, A:225–226, 228  
Moessbauer spectra, sediments, B2:8  
Mono Lake Excursion  
  Brunhes Chron, B10:4–5  
  magnetic excursions, A:266  
mottling, lithologic units, A:87, 164–165, 168, 170–174, 255–258  
mud waves  
  dynamics, A:9  
  lithostratigraphy, B Overview:4–5  
  sedimentation, A:177–178  
  sedimentation rates, A:206–207  
  seismic reflection, A:245–247  
mudstone, organic matter, A:275  
muscovite  
  sediments, B5:4  
  vs. depth, B5:13  
  X-ray diffraction data, B5:21

## **N**

*n*-alkanes  
  mass chromatograms, B1:4, 7–8  
  sediments, B1:2  
nanofossils  
  lithologic units, A:84–93, 164–165, 168, 170–174, 255–259  
  photograph, A:84, 175  
  sedimentary structures, B7:4–12  
nanofossils, calcareous  
  biostratigraphy, A:41–42, 93–95, 178–180, 260–261, 319–321  
  datums levels, A:41–42, 94–96, 179, 180–183, 260–261  
Neogene  
  biostratigraphy, A:319–321  
  paleoceanography, A:9  
neritic environment, diatoms, B8:5–6  
nitrogen  
  organic matter, A:214, 216–217  
  *See also* carbon/nitrogen ratio  
nitrogen compounds, mass chromatograms, B1:9  
nitrogen, total, sediments, A:58–59, 130–131, 219–221, 282–283  
nodules  
  lithologic units, A:88  
  photograph, A:89  
North Atlantic Deep Water  
  ocean circulation, A:7, 93, 288  
  paleoceanography, B Overview:5  
  temperature, B Overview:11  
nutrient proxies, paleoceanography, A:8–9  
nutrients, diatoms, B8:4



**O**

- obliquity, sediments, A:121
- ocean basins, sediment drifts, A:7–8
- ocean circulation
  - Atlantic Ocean N, A:7
  - mud waves, B Overview:4–5
- Olduvai Subchron
  - magnetic excursions, A:266
  - magnetostratigraphy, A:187
- ooze, clayey nannofossil
  - lithologic units, A:84–92, 164–165, 168, 170–174
  - photograph, A:256
- ooze, nannofossil
  - lithologic units, A:164–165, 168, 170–174
  - photograph, A:90
- opal, lithologic units, A:258
- opal-A, sediments, A:288
- organic carbon accumulation rates, vs. depth, A:56
- organic matter
  - carbon/nitrogen ratio, A:121–122
  - decomposition, A:218, 221–225, 281, 285–286
  - diagenesis, A:60–63, 123, 125
  - geochemistry, B1:1–9
  - sources, A:214, 216–217, 278, 281
- orthoclase, X-ray diffraction data, B5:21
- oxidation
  - iron, B2:1–11
  - organic matter, A:278, 281
  - sediments, A:121
  - See also* redox
- oxidation, anaerobic, methane, B3:6
- oxides, comparison of X-ray diffraction data with X-ray fluorescence data, B5:23
- oxygen index
  - organic matter, A:216, 278, 281
  - sediments, A:55, 60, 133, 223, 284
  - vs. hydrogen index, A:60, 133–134, 223, 284, 317
- oxygen isotope Stage 3. *See* marine isotope Stage 3
- oxygen isotope stratigraphy
  - correlation, A:318; B9:5–6
  - vs. depth, A:303
- oxygen isotopes
  - foraminifers, B Overview:5
  - Greenland Ice Core Project, B5:19
  - red lutite, B Overview:5–6
  - upper Pleistocene, B9:1–14
  - vs. age, B9:10
  - vs. chromaticity, B9:7–8, 9
  - vs. reflectance, B9:7–8

**P**

- paleoceanography
  - bathymetric gradients, B Overview:5–6
  - biostratigraphy, A:319–321
  - millennial-scale variability, A:134
  - physical properties, B Overview:3–4
  - Pliocene–Pleistocene interval, A:7–11
- paleoclimatology
  - middle Pleistocene, A:314–315, 317–318
  - middle Pliocene–Pleistocene interval, A:7–11
  - millennial-scale variability, A:134
- paleoecology, diatoms, B Overview; B8:3–15, 19, 35
- paleohydrography
  - carbonate stratigraphy, B Overview:6
  - marine isotope Stages 9–12, B Overview:6
- paleointensity, magnetic excursions, A:188
- paleomagnetic secular variation, magnetostratigraphy, A:187
- paleomagnetic secular variation, directional, Brunhes Chron, B10:2–3
- paleomagnetism
  - sediments, A:318–319; B Overview:6–7
  - Sites 1054–1055, A:44–47
  - Sites 1056–1059, A:97–104
  - Sites 1060–1062, A:184–188
  - Sites 1063–1064, A:262–266
  - Stage 3, B11:1–20
- pebbles, lithologic units, A:88
- pentane. *See* iso-pentane
- petroleum potential, sediments, A:60, 133, 223, 284
- phosphate
  - diagenesis, A:123, 125, 221–223
  - diatoms, B8:4
  - sediments, A:285–286
  - vs. depth, A:62, 136, 226, 285
- phosphorus oxide, sediments, B5:22
- photoelectric factor
  - clay lithology, A:242
  - vs. potassium, A:245, 302
- photoelectric factor logs, vs. depth, A:300
- physical properties
  - paleoceanography, B Overview:3–4
  - Sites 1054–1055, A:63–68
  - Sites 1056–1059, A:129, 132–134
  - Sites 1060–1062, A:229–235
  - Sites 1063–1064, A:288–294
- plagioclase
  - lithologic units, A:88
  - See also* albite; anorthite
- Planolites*, lithologic units, A:90–91, 172, 257–258
- Pleistocene
  - biostratigraphy, A:40–44, 93–97, 178–184, 260–262, 319–321
  - lithologic units, A:37–38, 83–92, 164–165, 168, 170–174, 255–258
  - sedimentation rates, A:311–313
  - See also* Pliocene–Pleistocene sequence
- Pleistocene, middle
  - paleoclimatology, A:314–315, 317–318
  - See also* mid-Pleistocene transition
- Pleistocene, upper, stable isotopes, B9:1–14
- Pliocene
  - biostratigraphy, A:260–262, 319–321
  - lithologic units, A:255–258
- Pliocene–Holocene sequence, sedimentation, B Overview:1–15
- Pliocene–Pleistocene sequence, paleoceanography, A:7–11
- pore water
  - carbon isotopes, B3:11–15

gas hydrates, A:9–11  
 geochemistry, A:59–63, 135, 135, 217–218, 221–229, 286–288, 292, 311–313  
 methane, B3:6–7  
 porosity, vs. depth, A:66–67, 141–143, 233–234, 293–294  
 porosity logs  
   density, A:240, 299, 302  
   vs. depth, A:243, 300  
 potassium  
   authigenesis, A:63, 125–126, 225–226, 228  
   pore water, A:286–288, 314, 316  
   vs. depth, A:62, 137, 227–228, 286–287, 316  
   vs. photoelectric factor, A:245, 302  
 potassium logs  
   clay lithology, A:242  
   vs. depth, A:244, 301, 303  
   *See also* thorium/potassium ratio logs  
 potassium oxide  
   sediments, B5:4–5, 22  
   vs. aluminum oxide, B5:14  
 potassium oxide/aluminum oxide ratio  
   sediments, B5:4–5  
   stadials/interstadials, B Overview:4  
   vs. depth, B5:13  
 precipitation, authigenesis, A:225–226, 228  
 preservation, carbonates, A:214  
 production index, sediments, A:60, 133, 223, 284  
 productivity  
   carbonates, A:214  
   diatoms, B8:4  
 propane, sediments, A:116, 118, 209, 272–277  
 propane, vacutainer, vs. depth, A:218  
 proteins  
   mass chromatograms, B1:9  
   sediments, B1:2  
 pteropods, lithologic units, A:84  
 pyrite  
   lithologic units, A:84  
   sediments, B2:4–6  
 pyroxenes. *See* augite

## Q

quartz  
   lithologic units, A:84, 88, 164–165, 168, 170–174, 258–259  
   mixture with biogenic silica, B5:20  
   sediments, B5:4  
   X-ray diffraction data, B5:21  
 Quaternary  
   magnetic susceptibility, B4:1–22  
   *See also* Holocene; mid-Pleistocene transition; Pleistocene

## R

radiolarians, lithologic units, A:38, 91, 255–258  
 recrystallization, sediments, A:288  
 red beds  
   lithologic units, A:39–40, 84–92  
   *See also* lutite, red

redox  
   lithologic units, A:164–165, 168, 170–174  
   sediments, B2:1–11  
   *See also* oxidation  
 reduction  
   carbon dioxide, B Overview:2–5  
   sediments, B2:4–6  
   *See also* sulfate reduction  
 reflectance  
   correlation, A:47, 188–189, 194–201  
   lithologic units, A:83–92, 164–165, 168, 170–174, 255–258  
   lithostratigraphy, A:38  
   sediments, A:63–65, 232  
   vs. depth, A:83, 87, 90, 92, 165, 170, 172, 235; B7:16, 22, 28, 32, 35  
   vs. oxygen isotopes, B9:7–9  
   vs. sediment chemistry, B Overview:3  
 reflectors, vs. chronostratigraphy, A:317  
 remanent magnetization, anhysteretic, magnetic excursions, B11:3–4  
 remanent magnetization, characteristic, discrete samples, A:186, 263  
 remanent magnetization, natural  
   deformation, A:100–101  
   discrete samples, A:45–46, 99–100  
   gas expansion, A:263  
   magnetic excursions, B11:5  
   magnetostratigraphy, A:316–317  
   sediments, A:44–47, 98–99, 185–188  
 resistivity  
   sediments, A:68, 71–72, 134, 151, 235, 241–242, 294, 298–299  
   vs. depth, A:72, 152, 241, 299  
   *See also* microresistivity  
 resistivity logs  
   correlation, A:303–304  
   vs. depth, A:243, 300  
 Reunion Event, magnetostratigraphy, A:316–317  
 ripple cross laminations, sedimentary structures, B7:4–12

## S

salinity  
   sediments, A:288  
   vs. potential temperature, A:9  
   vs. temperature, B Overview:11  
 sand, photograph, B7:18  
 sand, foraminifer, lithologic units, A:39–40  
 sand, silty foraminifer, lithologic units, A:38  
 scoured contact  
   photograph, A:40, 84–85, 87, 256  
   sedimentary structures, B7:4–12  
   X-ray radiography, B7:29  
 secular variations. *See* paleomagnetic secular variation  
 sediment drifts, paleoceanography, A:7–8  
 sediment volume, vs. depth, B5:17  
 sedimentary structures  
   contourites and turbidites, B7:1–37  
   photograph, B7:14, 18, 24, 26

- X-ray radiography, B Overview:3
- sedimentation
  - cyclic processes, A:118–125
  - lithologic units, A:174, 176–178
  - uniformity, A:311
- sedimentation, pelagic, lithologic units, A:39–40
- sedimentation rates
  - age vs. depth, A:54
  - calcium carbonate, A:116–117, 119, 123, 126, 205, 208, 215, 279, 316
  - comparison, A:213
  - lithologic units, A:93
  - magnetic excursions, B11:4
  - Pleistocene, A:311–313
  - Pliocene–Holocene, B Overview:1–15
  - Sites 1054–1055, A:48–49
  - Sites 1056–1059, A:104–107, 113–116
  - Sites 1060–1062, A:201–207
  - Sites 1063–1064, A:268–271
  - vs. age, A:115, 119, 122, 126, 204, 207, 212–213, 277, 315
  - vs. depth, A:117, 120, 124, 127, 205, 208, 215, 279
  - vs. magnetic susceptibility, A:54
  - See also* mass accumulation rates
- sedimentology, Pliocene–Holocene, B Overview:2–5
- sediments
  - age, B5:19
  - chemical composition, B5:22
  - coulometry, A:58–59, 130–131, 219–221, 282–283
  - Dansgaard-Oeschger cycles, B5:1–24
  - elements, A:58–59, 130–131, 219–221, 282–283
  - ferric/ferrous iron ratio, B Overview:3
  - iron oxidation, B Overview:3; B2:1–11
  - magnetic susceptibility, B4:1–22
  - mineral composition, B5:21
  - Moessbauer spectra, B2:8
  - Rock-Eval data, A:60, 133, 223, 284
  - scanning electron micrograph, B5:18
  - X-ray radiography, B7:17, 20, 23, 25, 29–30, 33, 36
- sediments, clayey mixed, lithologic units, A:37–38
- sediments, layered, photograph, A:40
- sediments, mixed, lithologic units, A:84–92
- sediments, red, sedimentation, A:174, 176–178
- sediments, silty mixed, lithologic units, A:37–38
- seismic lines, tracks, A:154, 246–247, 304
- seismic profiles
  - Sites 1054–1055, A:71–74
  - Sites 1056–1059, A:155–156
  - Sites 1063–1064, A:305–306, 308
  - tracks, A:249–250
- seismic reflection, correlation, A:72, 143, 146, 245–247, 304–306
- seismic reflectors
  - mid-Pleistocene transition, A:314, 317–318
  - vs. depth, A:317
- seismograms, synthetic
  - profiles, A:74–75
  - vs. two-way traveltime, A:75
- shear strength
  - sediments, A:133–134, 235, 292
  - vs. depth, A:147, 239
  - shear strength, normalized, vs. depth, A:147
  - shear strength, peak, vs. depth, A:297
  - shear strength, undrained
    - sediments, A:69, 145–146, 238, 296–297
    - vs. depth, A:70, 238
  - shear strength, vane, sediments, A:67–68
- shell fragments
  - lithologic units, A:84, 91
  - photograph, A:87
- siderite
  - authigenesis, A:226
  - lithologic units, A:91
  - sediments, B2:4–6
- silica
  - authigenesis, A:63, 125–126, 225–226, 228
  - pore water, A:286–288
  - sediments, B5:4–5, 22
  - vs. depth, A:62, 137, 227–228, 286–287
  - silica, amorphous, sediments, B5:4
  - silica, biogenic
    - cyclic processes, B5:6
    - lithologic units, A:255–258
    - mixture with quartz, B5:20
    - physical properties, B Overview:4
    - scanning electron micrograph, B5:18
    - sediments, A:288
    - vs. age, B5:19
    - vs. depth, B5:13, 17
    - X-ray diffraction data, B5:21
  - silica/aluminum oxide ratio
    - sediments, B5:4–5
    - vs. depth, B5:13
  - silicates, oxidation, B2:4–6
- siliciclastics
  - lithologic units, A:84
  - photograph, A:84; B7:18
  - sedimentation, A:174, 176–178
- silicoflagellates, lithologic units, A:38, 255–258
- silt
  - laminations, A:174, 176–178
  - lithologic units, A:84–92, 164–165, 168, 170–174
  - photograph, A:84–85, 89–90, 92, 166–167, 256; B7:14, 18, 26
  - sediment drifts, A:7–8
  - sedimentary structures, B7:4–12
- silt, clayey, photograph, B7:14
- silt, sandy, photograph, A:259
- Site 997, chloride, A:321
- Site 1054
  - red sediments, B Overview:5–6
  - stable isotopes, B9:11
- Site 1055
  - red sediments, B Overview:5–6
  - stable isotopes, B9:12
- Site 1057
  - magnetic susceptibility, B4:1–22
  - sediments, B Overview:4
- Site 1059, stadials/interstadials, B Overview:4–5
- Site 1060
  - Brunhes Chron, B10:1–18
  - Brunhes/Matuyama polarity transition, A:318–319

- Site 1061  
Brunhes Chron, B10:1–18  
magnetic susceptibility, B4:1–22  
paleomagnetism, B11:1–20  
sediments, B Overview:4
- Site 1062  
Brunhes Chron, B10:1–18  
iron oxidation, B2:1–11  
mud waves, B Overview:4–5  
paleomagnetism, B11:1–20
- Site 1063  
biostratigraphy, B8:1–49  
Brunhes Chron, B10:1–18  
Brunhes/Matuyama polarity transition, A:318–319  
Dansgaard-Oeschger cycles, B5:1–24  
organic geochemistry, B1:1–9  
paleomagnetism, B11:1–20  
red sediments, B Overview:5–6  
stable isotopes, B9:13–14
- site geophysics  
Sites 1054–1055, A:68–75  
Sites 1056–1059, A:135, 138, 143, 146  
Sites 1060–1062, A:245–247  
Sites 1063–1064, A:304–306
- Sites 1054–1055, A:33–76  
background and objectives, A:35  
biostratigraphy, A:40–44  
composite depths, A:47–48  
coring, A:36  
inorganic geochemistry, A:59–63  
lithostratigraphy, A:37–40  
mass accumulation rates, A:48–49  
operations, A:35–37  
organic geochemistry, A:49, 51–59  
paleomagnetism, A:44–47  
physical properties, A:63–68  
sedimentation rates, A:48–49  
site description, A:33–76  
site geophysics, A:68–75  
stratigraphic correlation, A:47–48
- Sites 1054–1062, salinity, A:9
- Sites 1054–1064, carbonate content, B6:1–12
- Sites 1056–1059, A:77–156  
background and objectives, A:81  
biostratigraphy, A:93–97  
coring, A:82–83  
inorganic geochemistry, A:122–129  
lithostratigraphy, A:83–93  
mass accumulation rates, A:104–107, 113–116  
operations, A:81–83  
organic geochemistry, A:116–122  
paleomagnetism, A:97–104  
physical properties, A:129, 132–134  
sedimentation rates, A:104–107, 113–116  
site description, A:77–156  
site geophysics, A:135, 138, 143, 146
- Sites 1060–1062, A:157–250  
background and objectives, A:161  
biostratigraphy, A:178–184  
composite depths, A:188–201  
coring, A:162–163  
downhole measurements, A:235–245  
inorganic geochemistry, A:217–229  
lithostratigraphy, A:164–178  
mass accumulation rates rates, A:201–207  
operations, A:161–164  
organic geochemistry, A:207–217  
paleomagnetism, A:184–188  
physical properties, A:229–235  
sedimentation rates, A:201–207  
site description, A:157–250  
site geophysics, A:245–247
- Sites 1063–1064, A:251–308  
background and objectives, A:252  
biostratigraphy, A:259–262  
composite depths, A:266–268  
coring, A:253  
correlation, A:266–268  
downhole measurements, A:294–304  
inorganic geochemistry, A:281–288  
lithostratigraphy, A:254–259  
mass accumulation rates, A:268–271  
operations, A:252–254  
organic geochemistry, A:271–281  
paleomagnetism, A:262–266  
physical properties, A:288–294  
sedimentation rates, A:268–271  
site description, A:251–308  
site geophysics, A:304–306
- slump beds  
lithologic units, A:84–92  
photograph, A:89
- smectite. *See* illite-smectite mixture
- sodium oxide, sediments, B5:22
- Sohm Abyssal Plain  
paleoceanography, A:9  
pore water, A:311–313  
sedimentary structures, B7:1–37  
site description, A:251–308
- species diversity, diatoms, B8:6
- SPECMAP logs  
correlation, A:318  
vs. depth, A:303
- splice tie points  
Site 1063, A:270  
Sites 1054–1055, A:49  
Sites 1056–1059, A:106–107  
Sites 1060–1062, A:191–192
- spliced records, summary, A:52
- sponge spicules, lithologic units, A:38, 91, 164–165, 168, 170–174
- squalene derivatives, sediments, B1:2
- stable isotopes  
upper Pleistocene, B9:1–14  
*See also* carbon isotopes; oxygen isotopes
- stadials, aluminosilicates, B Overview:4
- stadials/interstadials  
aluminum oxide/titanium oxide ratio, B Overview:4  
potassium oxide/aluminum oxide ratio, B Overview:4
- steranes  
mass chromatograms, B1:5–6  
sediments, B1:2

stratification, inclined, photograph, A:174  
 stratigraphy, correlation, A:188–201  
 strontium  
   authigenesis, A:225–226, 228  
   pore water, A:286–288  
   vs. depth, A:227–228, 286–287  
 sulfate  
   diagenesis, A:60–63, 123, 125  
   methanogenesis, B3:2–3  
   pore water, A:228–229, 316  
   sediments, A:281, 285–286  
   vs. depth, A:62, 136, 226, 285, 316; B3:11  
   vs. methane, A:222–223, 225  
 sulfate/methane boundary  
   carbon cycling, B3:2  
   diagenesis, A:123, 125, 222, 225–227  
   pore water, A:311–313  
   sediments, A:272–277, 285–286  
 sulfate reduction  
   diagenesis, A:60–63, 123, 125, 218, 221, 223, 225  
   pore water, A:286–288  
   sediments, B Overview:2–5  
 sulfur, sediments, B5:22  
 sulfur, total, sediments, A:58–59, 130–131, 219–221,  
 282–283  
 surface water, ocean circulation, A:7

**T**

temperature  
   organic matter, A:278, 281  
   vs. salinity, B Overview:11  
 temperature, equilibrium, vs. depth, A:240  
 temperature, potential, vs. salinity, A:9  
 temperature logs  
   gas hydrates, A:245  
   vs. depth, A:246, 303  
 thanatocenoses, diatoms, B8:4  
 thermal conductivity  
   sediments, A:68, 70, 133–134, 149–150, 235, 239,  
   293, 298  
   vs. depth, A:71, 150, 240, 298  
 thermogenesis, fractures, A:274  
 thorium logs  
   clay lithology, A:242  
   vs. depth, A:244, 301, 303  
 thorium/potassium ratio logs, vs. depth, A:244, 301  
 titanium oxide  
   sediments, B5:4–5, 22  
   vs. aluminum oxide, B5:14  
   *See also* aluminum oxide/titanium oxide ratio  
 transport, diatoms, B8:4  
 traveltime, two-way, synthetic seismograms, A:75

triterpanes  
   mass chromatograms, B1:5–6  
   sediments, B1:2  
 turbidites  
   lithologic units, A:172–173, 258–259  
   photograph, A:175; B7:24  
   position, A:176  
   sedimentary structures, B7:1–37  
   sedimentation, A:174, 176–178  
   X-ray radiography, B7:25

**U**

u-channel records, magnetic excursions, B11:3–6  
 uranium logs  
   correlation, A:240  
   vs. depth, A:244, 301

**V**

velocity, acoustic, sediments, A:233–235, 291  
 velocity logs, vs. depth, A:243, 300  
 vivianite, sediments, B2:4–6

**W**

water content, vs. depth, A:66–67, 141–143, 233–234,  
 293–294  
 well-log Unit 1, correlation, A:238, 298  
 well-log Unit 2, correlation, A:238, 298–299  
 well-log Unit 3, correlation, A:238, 299  
 well-log Unit 4, correlation, A:240, 299  
 well-log units, correlation, A:237–238, 240, 298–299  
 well-logging  
   graphic summary, A:242, 299  
   Sites 1060–1062, A:235–245  
   Sites 1063–1064, A:294–304  
   *See also* downhole measurements

**X**

X-ray diffraction data, sediments, A:37, 86, 91, 169–170,  
 173, 257  
 X-ray radiography, sedimentary structures, B Over-  
 view:3; B7:4–12, 20–37

**Y**

Younger Dryas, glaciation, A:8

**Z**

*Zoophycos*, lithologic units, A:84, 90–91, 164–165, 168,  
 170–174, 257–258

## TAXONOMIC INDEX

## A

- Achnanthes brevipes*, Sites 1056–1059, A:97  
*Actinocyclus curvatulus*, Site 1063, B8:7, 36  
*Actinocyclus ellipticus* var. *elongatus*, Site 1063, B8:7, 44  
*Actinocyclus ingens*, Site 1063, B8:7  
*Actinocyclus nodulifer*, Site 1063, B8:5–6  
*Actinocyclus octonarius*, Site 1063, B8:7, 36  
*Actinocyclus octonarius* var. *tenella*, Site 1063, B8:7, 36  
*Actinocyclus senarius*, Site 1063, B8:7, 21, 36  
*Actinocyclus splendens*, Site 1063, B8:7, 36  
*affinis*, *Globobulimina*  
 Sites 1054–1055, A:43  
 Sites 1060–1062, A:183  
*affinis*, *Globobullacuímina*, Sites 1056–1059, A:97  
*africana*, *Azpeitia*, Site 1063, B8:8, 39  
*africanus*, *Coscinodiscus*  
 Sites 1060–1062, A:184  
 Sites 1063–1064, A:262  
*aguste-lineata*, *Thalassiosira*, Site 1063, B8:14, 45  
*alternans*, *Biddulphia*, Site 1063, B8:9  
*altispira*, *Dentoglobigerina*  
 Sites 1060–1062, A:180  
 Sites 1063–1064, A:254, 261  
*amphiceros*, *Raphoneis*, Site 1063, B8:2, 4, 12, 23, 43  
*arachne*, *Asteromphalus*, Site 1063, B8:7  
*Asterolampra grevillei*, Site 1063, B8:7, 37  
*Asterolampra marylandica*  
 Site 1063, B8:7, 21, 39  
 Sites 1063–1064, A:262  
*Asteromphalus arachne*, Site 1063, B8:7  
*Asteromphalus elegans*, Site 1063, B8:7–8, 39  
*Asteromphalus heptactis*, Site 1063, B8:8, 39  
*Asteromphalus* sp. A?, Site 1063, B8:8, 37–38  
*asymmetricus*, *Discoaster*  
 Sites 1060–1062, A:178  
 Sites 1063–1064, A:261  
*Auliscus sculptus*, Site 1063, B8:8, 49  
*aurita*, *Odontella*, Site 1063, B8:12, 42  
*Azpeitia africana*, Site 1063, B8:8, 39  
*Azpeitia neocrenulata*, Site 1063, B8:8, 21, 39  
*Azpeitia nodulifer*, Site 1063, B8:8–9, 40

## B

- Bacteriastrium hyalinum*, Site 1063, B5:18; B8:5, 9, 21, 41  
*Bacteriastrium* spp.  
 Site 1063, B8:6  
 Sites 1063–1064, A:262  
*barleeaanum*, *Melonis*, Sites 1056–1059, A:96–97  
*Biddulphia alternans*, Site 1063, B8:9  
*Bolivina paula*, Sites 1056–1059, A:97  
*Bolivina* spp., Sites 1054–1055, A:43  
*Bolivinita quadrilatera*, Sites 1056–1059, A:97  
*bombus*, *Diploneis*  
 Site 1063, B8:10  
 Sites 1056–1059, A:97  
*bradyi*, *Eggerella*, Sites 1063–1064, A:262  
*brevipes*, *Achnanthes*, Sites 1056–1059, A:97

*brightwellii*, *Ditylum*, Site 1063, B8:5–6, 11, 22, 42  
*brouweri*, *Discoaster*

Sites 1054–1055, A:42–43  
 Sites 1063–1064, A:261

*Bulimina costata*

Sites 1054–1055, A:43  
 Sites 1056–1059, A:96–97

*Bulimina marginata*

Sites 1054–1055, A:43  
 Sites 1056–1059, A:96–97

*bulloides*, *Pullenia*, Sites 1063–1064, A:262

## C

- calcar-avis*, *Pseudosolenia*, Site 1063, B8:12, 23, 42  
*Calcidiscus macintyreii*  
 Sites 1054–1055, A:42  
 Sites 1060–1062, A:180  
*calida*, *Globigerinella*, Sites 1054–1064, A:320  
*carinata*, *Cassidulina*  
 Sites 1054–1055, A:43  
 Sites 1056–1059, A:96  
*Cassidulina carinata*  
 Sites 1054–1055, A:43  
 Sites 1056–1059, A:96  
*Chaetoceros diadema*, Site 1063, B8:9, 41  
*Chaetoceros lacinosus*, Site 1063, B8:4–5, 9, 21, 41  
*Chaetoceros messanensis*, Site 1063, B8:9  
*Chaetoceros mitra*, Site 1063, B8:9, 41  
*Chilostomella oolina*  
 Sites 1054–1055, A:43  
 Sites 1060–1062, A:183  
*Cibicidoides pachyderma*, Sites 1054–1055, A:43; B9:2, 5,  
 11–12  
*Cibicidoides wuellerstorfi*  
 Site 1063, B9:13–14  
 Sites 1054–1055, A:43; B9:2, 5–6, 11–12  
 Sites 1056–1059, A:96–97  
 Sites 1060–1062, A:183  
 Sites 1063–1064, A:262  
*Cocconeis disculoides*, Site 1063, B8:2, 4, 9, 21, 43  
*convexa*, *Thalassiosira*, Site 1063, B8:24  
*convexa* var. *aspinosa*, *Thalassiosira*, Site 1063, B8:14  
*Coscinodiscus africanus*  
 Sites 1060–1062, A:184  
 Sites 1063–1064, A:262  
*Coscinodiscus* cf. *nodulus*, Sites 1063–1064, A:262  
*Coscinodiscus marginatus*, Site 1063, B8:9–10  
*Coscinodiscus nitidus*, Site 1063, B8:10, 40  
*Coscinodiscus oculusiridus*, Site 1063, B8:10  
*Coscinodiscus radiatus*, Site 1063, B8:6, 10, 21, 40  
*Coscinodiscus reniformis*, Site 1063, B8:10, 49  
*costata*, *Bulimina*  
 Sites 1054–1055, A:43  
 Sites 1056–1059, A:96–97  
*crabro*, *Diploneis*, Site 1063, B8:10  
*crassaformis hessi*, *Truncorotalia*  
 Sites 1054–1055, A:42  
 Sites 1054–1064, A:320

Sites 1056–1059, A:95–96, 114  
 Sites 1060–1062, A:180  
 Sites 1063–1064, A:255, 261  
*cuneiformis*, *Hemidiscus*, Site 1063, B8:11, 22, 40  
*curvatulus*, *Actinocyclus*, Site 1063, B8:7, 36  
*curvirostris*, *Rhizosolenia*, Site 1063, B8:12, 42  
*Cymatosira lorenziana*, Site 1063, B8:2, 4, 10, 21, 43

**D**

*Delphineis surirella*, Site 1063, B8:2, 4, 6, 10, 22, 43  
*denticulata*, *Podosira*, Site 1063, B8:12, 44  
*Dentoglobigerina altispira*  
 Sites 1060–1062, A:180  
 Sites 1063–1064, A:254, 261  
*diadema*, *Chaetoceros*, Site 1063, B8:9, 41  
*Diploneis bombus*  
 Site 1063, B8:10  
 Sites 1056–1059, A:97  
*Diploneis crabro*, Site 1063, B8:10  
*Diploneis ovalis*, Sites 1056–1059, A:97  
*Diploneis* spp., Site 1063, B8:4, 11, 22, 43  
*Diploneis subovalis*, Site 1063, B8:10  
*Discoaster asymmetricus*  
 Sites 1060–1062, A:178  
 Sites 1063–1064, A:261  
*Discoaster brouweri*  
 Sites 1054–1055, A:42–43  
 Sites 1063–1064, A:261  
*Discoaster pentaradiatus*  
 Sites 1054–1055, A:43  
 Sites 1060–1062, A:177  
 Sites 1063–1064, A:261  
*Discoaster surculus*  
 Sites 1054–1055, A:42  
 Sites 1063–1064, A:261  
*Discoaster tamalis*  
 Sites 1060–1062, A:177–178  
 Sites 1063–1064, A:260–261  
*Discoaster triradiatus*, Sites 1063–1064, A:261  
*disculoides*, *Cocconeis*, Site 1063, B8:2, 4, 9, 21, 43  
*Ditylum brightwellii*, Site 1063, B8:5–6, 11, 22, 42  
*doliolus*, *Fragilariopsis*, Site 1063, B8:4, 6, 11, 22, 43  
*doliolus*, *Pseudoenotia*  
 Site 1063, B8:3  
 Sites 1054–1055, A:43  
 Sites 1056–1059, A:97

**E**

*eccentrica*, *Thalassiosira*, Site 1063, B8:6, 14, 24, 46  
*Eggerella bradyi*, Sites 1063–1064, A:262  
*Ehrenbergina trigona*, Sites 1063–1064, A:262  
*elegans*, *Asteromphalus*, Site 1063, B8:7–8, 39  
*elegans*, *Hoeglundina*  
 Sites 1054–1055, A:43  
 Sites 1056–1059, A:97  
*ellipticus* var. *elongatus*, *Actinocyclus*, Site 1063, B8:7, 44  
*Emiliania huxleyi*  
 Sites 1054–1055, A:41–42  
 Sites 1054–1064, A:319

Sites 1056–1059, A:93–95  
 Sites 1060–1062, A:178–179  
 Sites 1063–1064, A:260–261  
*Epistominella exigua*  
 Sites 1054–1055, A:43  
 Sites 1063–1064, A:262  
*Epistominella* spp., Sites 1056–1059, A:97  
*Ethmodiscus rex*  
 Site 1063, B8:5, 11, 22  
 Sites 1060–1062, A:183  
*exigua*, *Epistominella*  
 Sites 1054–1055, A:43  
 Sites 1063–1064, A:262  
*exilis*, *Menardella*  
 Sites 1054–1055, A:43  
 Sites 1060–1062, A:180  
 Sites 1063–1064, A:261

**F**

*ferelineata*, *Thalassiosira*, Site 1063, B8:14  
*fistulosus*, *Globigerinoides*, Sites 1054–1055, A:41  
*Fragilariopsis doliolus*, Site 1063, B8:4, 6, 11, 22, 43  
*Fursenkoina mexicana*, Sites 1054–1055, A:43

**G**

*Gephyrocapsa omega*, Sites 1054–1055, A:42  
*Gephyrocapsa* spp.  
 Sites 1054–1055, A:41–42  
 Sites 1054–1064, A:314  
 Sites 1056–1059, A:94, 104, 114, 119, 121–122  
 Sites 1060–1062, A:180, 211, 214, 216–217  
 Sites 1063–1064, A:269, 278  
*Globigerinella calida*, Sites 1054–1064, A:320  
*Globigerinoides fistulosus*, Sites 1054–1055, A:41  
*Globigerinoides obliquus*  
 Sites 1054–1055, A:42  
 Sites 1056–1059, A:95  
 Sites 1060–1062, A:180  
 Sites 1063–1064, A:261  
*Globigerinoides ruber*  
 Atlantic Ocean NW, B Overview:5  
 Site 1063, B9:3, 9–10, 13–14  
 Sites 1054–1055, A:42; B9:2–3, 5–8, 11–12  
*Globigerinoides sacculifera*, Sites 1054–1055, B9:2–3, 5  
*Globobulimina affinis*  
 Sites 1054–1055, A:43  
 Sites 1056–1059, A:97  
 Sites 1060–1062, A:183  
*Globobulimina* spp., Sites 1056–1059, A:97  
*Globobullacuimina affinis*, Sites 1056–1059, A:97  
*Globocassidulina subglobosa*  
 Sites 1054–1055, A:43  
 Sites 1060–1062, A:183  
 Sites 1063–1064, A:261–262  
*Globoconella inflata*  
 Sites 1054–1055, A:43  
 Sites 1060–1062, A:180  
 Sites 1063–1064, A:261  
*Globoconella puncticulata*, Sites 1063–1064, A:261

*Globorotalia tumida flexuosa*

- Sites 1054–1055, A:42
- Sites 1054–1064, A:320
- Sites 1056–1059, A:95–96
- Sites 1060–1062, A:180
- Sites 1063–1064, A:261

*Globorotalia tumida tumida*, Sites 1054–1055, A:42*grevillei*, *Asterolampra*, Site 1063, B8:7, 37*Gyroidinoides soldanii*, Sites 1054–1055, A:43*Gyroidinoides* spp.

- Sites 1054–1055, A:43
- Sites 1056–1059, A:96–97
- Sites 1060–1062, A:183

**H***hauckii*, *Hemiaulus*, Site 1063, B8:4, 11, 42*Helicosphaera sellii*, Sites 1054–1055, A:42*Hemiaulus hauckii*, Site 1063, B8:4, 11, 42*Hemidiscus cuneiformis*, Site 1063, B8:11, 22, 40*heptactis*, *Asteromphalus*, Site 1063, B8:8, 39*hirsuta*, *Hirsutella*, Sites 1054–1064, A:320*Hirsutella hirsuta*, Sites 1054–1064, A:320*Hoeglundina elegans*

- Sites 1054–1055, A:43
- Sites 1056–1059, A:97

*humerosa*, *Navicula*, Sites 1056–1059, A:97*huxleyi*, *Emiliana*

- Sites 1054–1055, A:41–42
- Sites 1054–1064, A:319
- Sites 1056–1059, A:93–95
- Sites 1060–1062, A:178–179
- Sites 1063–1064, A:260–261

*hyalinum*, *Bacteriastrum*, Site 1063, B5:18; B8:5, 9, 21, 41**I***inflata*, *Globoconella*

- Sites 1054–1055, A:43
- Sites 1060–1062, A:180
- Sites 1063–1064, A:261

*ingens*, *Actinocyclus*, Site 1063, B8:7**L***lacinus*, *Chaetoceros*, Site 1063, B8:4–5, 9, 21, 41*lacunosa*, *Pseudoemiliana*

- Sites 1054–1055, A:41–42, 54
- Sites 1054–1064, A:317
- Sites 1056–1059, A:94–95, 104, 114–115, 121
- Sites 1060–1062, A:176, 178–179, 201, 203–204, 206
- Sites 1063–1064, A:255, 261, 269

*laevigata*, *Valvulineria*, Sites 1054–1055, A:43*leptopus*, *Thalassiosira*, Site 1063, B8:14, 24, 47*lineata*, *Thalassiosira*, Site 1063, B8:6, 14–15, 24, 46*lorenziana*, *Cymatosira*, Site 1063, B8:2, 4, 10, 21, 43*lyroides*, *Navicula*, Site 1063, B8:11, 43**M***macintyreii*, *Calcidiscus*

- Sites 1054–1055, A:42

Sites 1060–1062, A:180

*marginata*, *Bulimina*

- Sites 1054–1055, A:43
- Sites 1056–1059, A:96–97

*marginatus*, *Coscinodiscus*, Site 1063, B8:9–10*marina*, *Nitzschia*

Site 1063, B8:5, 11–12, 22, 43

Sites 1060–1062, A:184

Sites 1063–1064, A:262

*marylandica*, *Asterolampra*

- Site 1063, B8:7, 21, 39
- Sites 1063–1064, A:262

*Melonis barleeanum*, Sites 1056–1059, A:96–97*Melonis pompilioides*, Sites 1060–1062, A:183*Menardella exilis*

- Sites 1054–1055, A:43
- Sites 1060–1062, A:180
- Sites 1063–1064, A:261

*Menardella miocenica*

- Sites 1054–1055, A:43
- Sites 1054–1064, A:320
- Sites 1060–1062, A:180–181
- Sites 1063–1064, A:261

*Menardella multicamerata*

- Sites 1060–1062, A:180
- Sites 1063–1064, A:261

*Menardella pertenuis*, Sites 1054–1055, A:43*messanensis*, *Chaetoceros*, Site 1063, B8:9*mexicana*, *Fursenkoina*, Sites 1054–1055, A:43*miocenica*, *Menardella*

- Sites 1054–1055, A:43
- Sites 1054–1064, A:320
- Sites 1060–1062, A:180–181
- Sites 1063–1064, A:261

*mitra*, *Chaetoceros*, Site 1063, B8:9, 41*multicamerata*, *Menardella*

- Sites 1060–1062, A:180
- Sites 1063–1064, A:261

**N***Navicula humerosa*, Sites 1056–1059, A:97*Navicula lyroides*, Site 1063, B8:11, 43*neocrenulata*, *Azpeitia*, Site 1063, B8:8, 21, 39*Neogloboquadrina pachyderma*, Atlantic Ocean NW, B  
Overview:5*nitidus*, *Coscinodiscus*, Site 1063, B8:10, 40*Nitzschia marina*

- Site 1063, B8:5, 11–12, 22, 43
- Sites 1060–1062, A:184
- Sites 1063–1064, A:262

*Nitzschia panduriformis*, Site 1063, B8:12, 43*Nitzschia reinholdii*

- Site 1063, B8:12, 43
- Sites 1054–1055, A:43
- Sites 1056–1059, A:97
- Sites 1060–1062, A:183
- Sites 1063–1064, A:262

*Nitzschia reinholdii* Zone

- Site 1063, B8:3
- Sites 1054–1055, A:43



*Nitzschia sicula* var., Site 1063, B8:12, 22, 43  
*nitzschioides*, *Thalassionema*  
 Site 1063, B8:4–5, 13–14, 23, 43  
 Sites 1063–1064, A:262  
*nitzschioides* var. *parva*, *Thalassionema*, Sites 1063–1064,  
 A:262  
*nodulifer*, *Actinocyclus*, Site 1063, B8:5–6  
*nodulifer*, *Azpeitia*, Site 1063, B8:8–9, 40  
*nodulus*, *Coscinodiscus* cf., Sites 1063–1064, A:262  
*nordenskoeldii*, *Thalassiosira*, Site 1063, B8:4, 15, 24, 47

## O

*obliquus*, *Globigerinoides*  
 Sites 1054–1055, A:42  
 Sites 1056–1059, A:95  
 Sites 1060–1062, A:180  
 Sites 1063–1064, A:261  
*octonarius*, *Actinocyclus*, Site 1063, B8:7, 36  
*octonarius* var. *tenella*, *Actinocyclus*, Site 1063, B8:7, 36  
*oculusiridus*, *Coscinodiscus*, Site 1063, B8:10  
*Odontella aurita*, Site 1063, B8:12, 42  
*Odontella* spp., Site 1063, B8:23  
*oestrupii*, *Thalassiosira*  
 Site 1063, B8:6, 15, 24, 47  
 Sites 1060–1062, A:184  
 Sites 1063–1064, A:262  
*omega*, *Gephyrocapsa*, Sites 1054–1055, A:42  
*oolina*, *Chilostomella*  
 Sites 1054–1055, A:43  
 Sites 1060–1062, A:183  
*Oridorsalis umbonatus*  
 Sites 1054–1055, A:43  
 Sites 1056–1059, A:97  
 Sites 1060–1062, A:183  
 Sites 1063–1064, A:261–262  
*Osangularia umbonifera*  
 Sites 1060–1062, A:183  
 Sites 1063–1064, A:261–262  
*ovalis*, *Diploneis*, Sites 1056–1059, A:97

## P

*pachyderma*, *Cibicidoides*, Sites 1054–1055, A:43; B9:2, 5,  
 11–12  
*pachyderma*, *Neogloboquadrina*, Atlantic Ocean NW, B  
 Overview:5  
*pacifica*, *Thalassiosira*, Site 1063, B8:15, 24, 48  
*panduriformis*, *Nitzschia*, Site 1063, B8:12, 43  
*Paralia sulcata*, Site 1063, B8:5, 12, 23, 44  
*paula*, *Bolivina*, Sites 1056–1059, A:97  
*pentaradiatus*, *Discoaster*  
 Sites 1054–1055, A:43  
 Sites 1060–1062, A:177  
 Sites 1063–1064, A:261  
*peregrina*, *Uvigerina*  
 Sites 1056–1059, A:97  
 Sites 1060–1062, A:183  
*pertenuis*, *Menardella*, Sites 1054–1055, A:43  
*Pinnularia* spp., Sites 1056–1059, A:97  
*Pleurosigma* spp., Sites 1056–1059, A:97

*plicata*, *Thalassiosira*, Site 1063, B8:15, 24, 48  
*Podosira denticulata*, Site 1063, B8:12, 44  
*Podosira stelliger*, Site 1063, B8:4, 12, 40  
*pompilioides*, *Melonis*, Sites 1060–1062, A:183  
*Pseudoemiliana lacunosa*  
 Sites 1054–1055, A:41–42, 54  
 Sites 1054–1064, A:317  
 Sites 1056–1059, A:94–95, 104, 114–115, 121  
 Sites 1060–1062, A:176, 178–179, 201, 203–204, 206  
 Sites 1063–1064, A:255, 261, 269  
*Pseudoeunotia doliolus*  
 Site 1063, B8:3  
 Sites 1054–1055, A:43  
 Sites 1056–1059, A:97  
*Pseudoeunotia doliolus* Zone  
 Site 1063, B8:3  
 Sites 1063–1064, A:262  
*Pseudosolenia calcar-avis*, Site 1063, B8:12, 23, 42  
*pseudoumbilicus*, *Reticulofenestra*, Sites 1060–1062, A:180  
*Pullenia bulloides*, Sites 1063–1064, A:262  
*Pulleniatina* spp., Sites 1054–1055, A:43  
*punctulata*, *Globoconella*, Sites 1063–1064, A:261

## Q

*quadrilatera*, *Bolivinita*, Sites 1056–1059, A:97

## R

*radiatus*, *Coscinodiscus*, Site 1063, B8:6, 10, 21, 40  
*Raphoneis amphiceros*, Site 1063, B8:2, 4, 12, 23, 43  
*Raphoneis* spp., Sites 1056–1059, A:97  
*reinholdii*, *Nitzschia*  
 Site 1063, B8:12, 43  
 Sites 1054–1055, A:43  
 Sites 1056–1059, A:97  
 Sites 1060–1062, A:183  
 Sites 1063–1064, A:262  
*reniformis*, *Coscinodiscus*, Site 1063, B8:10, 49  
*Reticulofenestra pseudoumbilicus*, Sites 1060–1062, A:180  
*rex*, *Ethmodiscus*  
 Site 1063, B8:5, 11, 22  
 Sites 1060–1062, A:183  
*Rhizosolenia curvirostris*, Site 1063, B8:12, 42  
*Roperia tessellata*, Site 1063, B8:12–13, 23, 44  
*ruber*, *Globigerinoides*, Atlantic Ocean NW, B Overview:5  
 Site 1063, B9:3, 9–10, 13–14  
 Sites 1054–1055, A:42; B9:2–3, 5–8, 11–12

## S

*sacculifera*, *Globigerinoides*, Sites 1054–1055, B9:2–3, 5  
*sculptus*, *Auliscus*, Site 1063, B8:8, 49  
*sellii*, *Helicosphaera*, Sites 1054–1055, A:42  
*senarius*, *Actinocyclus*, Site 1063, B8:7, 21, 36  
*sicula* var., *Nitzschia*, Site 1063, B8:12, 22, 43  
*soldanii*, *Gyroidinoides*, Sites 1054–1055, A:43  
*splendens*, *Actinocyclus*, Site 1063, B8:7, 36  
*Stellarina stellaris*, Site 1063, B8:13  
*stellaris*, *Stellarina*, Site 1063, B8:13  
*stelliger*, *Podosira*, Site 1063, B8:4, 12, 40

*Stephanopyxis turris*, Site 1063, B8:13  
*Stilostomella* spp.  
 Sites 1054–1055, A:43  
 Sites 1056–1059, A:97  
*subglobosa*, *Globocassidulina*  
 Sites 1054–1055, A:43  
 Sites 1060–1062, A:183  
 Sites 1063–1064, A:261–262  
*subovalis*, *Diploneis*, Site 1063, B8:10  
*sulcata*, *Paralia*, Site 1063, B8:5, 12, 23, 44  
*surculus*, *Discoaster*  
 Sites 1054–1055, A:42  
 Sites 1063–1064, A:261  
*Suriella* spp., Site 1063, B8:4, 13, 43  
*surirella*, *Delphineis*, Site 1063, B8:2, 4, 6, 10, 22, 43

## T

*tamales*, *Discoaster*  
 Sites 1060–1062, A:177–178  
 Sites 1063–1064, A:260–261  
*tesselata*, *Roperia*, Site 1063, B8:12–13, 23, 44  
*Thalassionema nitzschioides*  
 Site 1063, B8:4–5, 13–14, 23, 43  
 Sites 1063–1064, A:262  
*Thalassionema nitzschioides* var. *parva*, Sites 1063–1064, A:262  
*Thalassionema* spp.  
 Site 1063, B8:6  
 Sites 1060–1062, A:184  
*Thalassiosira aguste-lineata*, Site 1063, B8:14, 45  
*Thalassiosira convexa*, Site 1063, B8:24  
*Thalassiosira convexa* var. *aspinosa*, Site 1063, B8:14  
*Thalassiosira eccentrica*, Site 1063, B8:6, 14, 24, 46  
*Thalassiosira ferelineata*, Site 1063, B8:14  
*Thalassiosira leptopus*, Site 1063, B8:14, 24, 47  
*Thalassiosira lineata*, Site 1063, B8:6, 14–15, 24, 46  
*Thalassiosira nordenskiöldii*, Site 1063, B8:4, 15, 24, 47  
*Thalassiosira oestrupii*  
 Site 1063, B8:6, 15, 24, 47  
 Sites 1060–1062, A:184  
 Sites 1063–1064, A:262  
*Thalassiosira pacifica*, Site 1063, B8:15, 24, 48  
*Thalassiosira plicata*, Site 1063, B8:15, 24, 48  
*Thalassiosira* spp., Site 1063, B8:5  
*Thalassiothrix* spp.  
 Site 1063, B8:6  
 Sites 1060–1062, A:184  
 Sites 1063–1064, A:262  
*Triceratium* spp., Site 1063, B8:15, 49  
*trigona*, *Ehrenbergina*, Sites 1063–1064, A:262  
*triradiatus*, *Discoaster*, Sites 1063–1064, A:261  
*truncatulinoides*, *Truncorotalia*  
 Sites 1054–1055, A:42–43  
 Sites 1060–1062, A:180  
 Sites 1063–1064, A:261  
*Truncorotalia crassaformis hessi*  
 Sites 1054–1055, A:42

Sites 1054–1064, A:320  
 Sites 1056–1059, A:95–96, 114  
 Sites 1060–1062, A:180  
 Sites 1063–1064, A:255, 261  
*Truncorotalia truncatulinoides*  
 Sites 1054–1055, A:42–43  
 Sites 1060–1062, A:180  
 Sites 1063–1064, A:261  
*tumida flexuosa*, *Globorotalia*  
 Sites 1054–1055, A:42  
 Sites 1054–1064, A:320  
 Sites 1056–1059, A:95–96  
 Sites 1060–1062, A:180  
 Sites 1063–1064, A:261  
*tumida tumida*, *Globorotalia*, Sites 1054–1055, A:42  
*turris*, *Stephanopyxis*, Site 1063, B8:13

## U

*umbonatus*, *Oridorsalis*  
 Sites 1054–1055, A:43  
 Sites 1056–1059, A:97  
 Sites 1060–1062, A:183  
 Sites 1063–1064, A:261–262  
*umbonifera*, *Osangularia*  
 Sites 1060–1062, A:183  
 Sites 1063–1064, A:261–262  
*Uvigerina peregrina*  
 Sites 1056–1059, A:97  
 Sites 1060–1062, A:183

## V

*Valvulineria laevigata*, Sites 1054–1055, A:43

## W

*wuellerstorfi*, *Cibicidoides*  
 Site 1063, B9:13–14  
 Sites 1054–1055, A:43; B9:2, 5–6, 11–12  
 Sites 1056–1059, A:96–97  
 Sites 1060–1062, A:183  
 Sites 1063–1064, A:262

## Z

zones (with letter prefixes)  
 CN12c, Sites 1054–1055, A:41  
 CN12d, Sites 1054–1055, A:41  
 CN12d/CN12c boundary, Sites 1054–1055, A:41  
 CN13, Sites 1054–1055, A:42  
 CN13b, Sites 1054–1055, A:41  
 CN14, A:42, 94  
 CN14a, Sites 1054–1055, A:42  
 CN14b, Sites 1054–1055, A:42  
 CN15, A:42, 94  
 N21, Sites 1054–1055, A:41  
 N22, Sites 1054–1055, A:41–42  
 NN21, Sites 1056–1059, A:94