

INDEX TO VOLUME 108

This index provides coverage for both the *Initial Reports* and *Scientific Results* portions of Volume 108 of the *Proceedings of the Ocean Drilling Program*. Index entries with the suffix *a* refer to pages in the *Initial Reports*, and those with *b*, to pages in the *Scientific Results* (this book).

The index is presented in three parts: (1) a Subject Index, (2) a Site Index, and (3) a Paleontological Index. In addition to this printed version, the index is also available in the form of a machine-readable, ASCII-encoded, 9-track magnetic tape, 1600 bpi.

The index was prepared by Wm. J. Richardson Associates, Inc., under subcontract to the ocean Drilling Program. It follows the concept developed by the Deep Sea Drilling Project at Scripps Institution of Oceanography for a comprehensive, cumulative index of DSDP volumes. Both of these indexes are based on a hierarchy of entries: (1) a main entry, defined as a key word or concept followed by a reference to the page on which that word or concept appears; (2) a subentry, defined as a further elaboration on the main entry followed by a page reference; and (3) a sub-subentry, defined as an even further elaboration on the main entry or subentry followed by a page reference.

The Subject Index follows a standard format. Geographic and individual names are referenced in the index only if they are subjects of discussion. This index also includes broad fossil groups, such as foraminifers and radiolarians, which also appear in the Paleontological Index.

The Site Index is structured to contain entries for the sites discussed in the volume. Site entries are modified by subject subentries.

The Paleontological 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) broad fossil groups, including individual genera and species that have been erected or emended formally; (2) biostratigraphic zones; and (3) fossils depicted in illustrations.

The indexes cover text figures and tables but not core description forms ('barrel sheets') or core photographs. Also excluded are bibliographic references, names of individuals, and routine front and back matter.

For further information, contact the Chief Production Editor, Ocean Drilling Program, 1000 Discovery Drive, College Station, Texas 77840.

SUBJECT INDEX

- Africa
 aridification, 3b
 cycles, 221b
 glacial boundary changes, 222b
- Africa N
 aridification
 effect of North Atlantic SST on, 465b–466b
 factors affecting, 477b
 Pliocene, 147b
 seasonal insolation heating, 464b, 466b
 climatic evolution, 376b–377b
 Miocene–Pleistocene, 476b–481b
 models and trends, 471b–473b
- Africa NW
 climatic zones, 34a
 depositional environment, glacial/interglacial cycles, 384b
- Africa W
 continental margin, site locations, 331a
 lithogenic sediment sources, 241b
- African Easterly Jet
 dust transport, 241b, 244b
 variations in westward, 255b
 glacial/interglacial cycles, 93b
 pollen transport, 96b
 Sahel-Saharan boundary, 94b
- Antarctic Bottom Water
 direction of flow, 3b
 lateral advection, 280b
 origin, 328a
 production rate, glacial/interglacial cycles, 157b
- Antarctic Intermediate Water, silica content, 19b
- Antarctica, glaciation history, 183b
- Ash, volcanic, Atlantic Ocean, eastern tropical: Site 659, 228a
- Atlantic Ocean, eastern tropical: Site 657
 aeolo-marine sediments, 244b–245b
 age-depth correlations, 49a–50a, 58a
 acidification event, 255b–256b
 biostratigraphy, 35a–43a
 marker species, 56a
 lithologic units, 31a–32a, 34a–35a, 361b
 depositional environment, 35a
 Miocene–Pliocene hiatus, 329b
 lithology, 331b
 coarse-grained layers, 330b
 marker species, 56a
 lithostratigraphy, 39a, 40a
 location, 4b, 25b, 32a, 33a, 36b, 72b, 106a, 122b, 223a, 242b, 330b, 352b, 362b, 460b
 paleoproductivity, 378b
 sediment morphology, 32a
 sequential deposits
 downslope transport, 329b
 turbidite, 329b–330b
 stratigraphy, 32a, 331b
 turbidites, 320b
- Atlantic Ocean, eastern tropical: Site 658
 aeolo-marine sediments, 245b, 248b–249b, 253b–254b
 river input, 254b, 257b
 age models, 123b–124b
 aridification event, 255b–256b
 biomarker abundances
 and climatic change, 391b
 comparison, Site 660, 391b
 diagenesis, 392b
 flux ranges, 393b
 biostratigraphy, 114a–118a
 Brunhes/Matuyama boundary, hiatus, 174b–176b, 180b
 climatic change
 Pliocene–Pleistocene, 180b–181b
 sedimentary evidence, 250b–251b
 climatic fluctuation, Pliocene–Pleistocene, 183b
 depositional environment, 114a
 depth correlations, 136a
 geologic and topographic setting, 108a
 hardground, 124b
 lithologic units, 106a, 112a, 114a
 lithology, 122b
 color cycles, 361b
 summarized, 111a, 112a
 lithostratigraphy
 Brunhes chron hiatus, 106a
 effect of gas content on, 110a, 112a
 Pliocene unconformity, 112a
 location, 4b, 25b, 33a, 36b, 72b, 105a, 106a, 114b, 122b, 150b, 223a, 242b, 330b, 352b, 362b, 398b, 460b
 magnetostratigraphy, 415b, 416b, 417b
 Matuyama/Gauss boundary, hiatus, 183b
 molecular stratigraphic study, 387b–393b
 orbital forcing, 131b
 paleoproductivity, 377b–378b
 sedimentary environment, 397b, 399b–405b
 sedimentology, 110a–114a
 siliciclastic sediments, accumulation rate, 249b
 spectral analysis, 130b–131b, 139b
 stratigraphy, 106a
 upwelling, 256b
- Atlantic Ocean, eastern tropical: Site 659
 aeolo-marine sediments, 254b
 age models, 122b–123b
 aridification event, 255b–256b
 biostratigraphy, 222a, 228a–232a
 Brunhes/Matuyama boundary, 442b–443b
 depositional environment, 228a, 311b
 depth correlations, 251a–252a, 253a
 geologic setting, 224a
 lithologic units, 222a–223a, 225a–226a
 lithology, 121b–122b
 color cycles, 227a, 228a, 311b, 361b–362b
 Neogene, 312b
 lithostratigraphy, 222a
 location, 4b, 25b, 33a, 36b, 72b, 114b, 122b, 150b, 221a, 223a, 242b, 312b, 330b, 362b, 398b, 460b
 magnetostratigraphy, 415b, 416b, 418b, 420b
 paleoceanography and paleoclimate, 223a
 paleoproductivity, 378b, 379b
 sedimentation rate, 123b
 sedimentology, 225a–228a
 sequential deposits, 316b, 323b
 contourite, 318b–319b, 323b
 grain-size analysis, 315b
 Neogene distribution, 319b
 pelagic and hemipelagic, 312b–314b
 Terms 1–2, 314b
 Terms 2–4, 316b–317b
 turbidite, 314b–317b, 323b, 324b, 325b
 siliciclastic sediments, 252b, 253b
 spectral analysis, 130b–131b, 139b
 stratigraphy, Neogene, 312b
 volcanic episodes, 319b
- Atlantic Ocean, eastern tropical: Site 660
 aeolo-marine sediments, 254b–255b
 aridification event, 255b–256b
 bathymetry, 331a, 411a
 biomarker abundances
 and climatic change, 391b
 comparison, Site 658, 391b
 flux ranges, 393b
 biostratigraphy, 328a, 336a–340a
 depositional history, 335a
 depth correlations, 357a, 358a
 geologic and topographic setting, 329a–330a
 lithologic units, 327a, 330a–331a, 335a
 lithostratigraphy, 328a, 336a
 correlation, Site 661, 410a
 hiatuses, 410a
 location, 4b, 25b, 36b, 72b, 122b, 242b, 298b, 327a, 362b, 460b
 molecular stratigraphic study, 387b–393b
 isotopic stages, 390b–391b
 U₃₇ profile, 391b
 sedimentology, 330a–331a
- Atlantic Ocean, eastern tropical: Site 661
 age-depth correlations, 427b
 aridification event, 255b–256b
 bathymetry, 331a, 411a
 biostratigraphy, 410a, 415a–419a
 bioturbation, 300b
 depositional environment, 306b–308b
 depositional history, 415a
 depth correlations, 431a, 432a
 geologic setting, 411a
 lithologic units, 297b, 409a–410a, 412a–415a
 Horizon H1, 302b–303b, 308b
 Horizon H2, 303b–306b, 308b
 Unit III, Intervals I–IV, 298b–300b, 302b
 lithostratigraphy, 410a, 413a
 correlation, Site 660, 410a
 location, 4b, 25b, 36b, 72b, 122b, 242b, 298b, 362b, 409a, 460b
 logging, 425a, 427a
 magnetostratigraphy, 415b, 418b, 423b
 magnetic minerals, postdepositional alteration, 418b–419b
 spectral analysis, 421b, 428b
 navigation plot, 972a
 sedimentology, 412a–415a
 sediments
 source area, 306b–307b
 transport mechanism, 306b
- Atlantic Ocean, eastern tropical: Site 662
 age models, 122b
 age-depth correlation, 211b
 biostratigraphy, 488a, 492a–496a
 climatic fluctuation, African monsoonal effects, 146b, 147b
 depositional history, 492a
 depth correlations, 505a
 geologic and topographic setting, 489a
 isotopic stratigraphy, 211b–212b
 lithologic units, 487a, 491a–492a
 lithology, 122b
 lithostratigraphy, 488a
 location, 4b, 25b, 36b, 72b, 122b, 144b,

SUBJECT INDEX

- 212b, 460b, 487a, 489a
 sea-surface temperatures, 188b, 488a–489a
 planktonic species data, 193b–194b, 198b, 199b–201b
 sediment ponds, 489a
 sedimentology, 491a–492a
 spectral analysis, 130b–131b, 139b
 Atlantic Ocean, eastern tropical: Site 663
 age-depth correlation, 211b
 biostratigraphy, 560a, 561a–564a
 depositional history, 561a
 depth correlations, 574a
 geologic and topographic setting, 558a–559a
 isotopic stratigraphy, 211b–212b
 lithologic units, 557a, 560a–561a
 correlation, seismic units and slumps, 573a
 lithostratigraphy, 560a
 location, 4b, 25b, 36b, 72b, 122b, 212b, 460b, 489a, 557a
 sedimentology, 560a–561a
 Atlantic Ocean, eastern tropical: Site 664
 age-depth correlation, 211b
 biostratigraphy, 620a
 Brunhes/Matuyama boundary, 443b–444b, 448b
 climatic fluctuation, African monsoonal effects, 146b, 147b
 depositional environment, 623a
 depth correlations, 620a, 633a
 geologic and topographic setting, 621a
 isotopic stratigraphy, 211b–212b
 lithologic units, 622a–623a
 lithostratigraphy, 620a
 location, 4b, 25b, 36b, 72b, 122b, 144b, 212b, 460b, 489a, 620a
 sedimentology, 622a–623a
 Atlantic Ocean, eastern tropical
 atmospheric circulation, 3b, 34a
 bathymetry, 329a
 biostratigraphy, 455b–458b
 deep-water circulation, 3b
 dust sources, 244b
 geochronology, 16a–17a
 location, 6a, 743a
 logging, 25a–26a
 near-equatorial divergence signal, 489a
 sediment classification, 13a, 14a
 surface currents, 330a
 surface water circulation, 3b
 Atmospheric-circulation system, Atlantic Ocean E, 34a
 Attapulgitite, Atlantic Ocean, eastern tropical: Site 659, 312b
 Benguela Current
 cold-water advection, 489a
 cool-water transport, equatorial Atlantic, 75b
 dissolution effect, 80b
 effect on diatom productivity, 33b
 Biomarkers
 lipid signature, 387b
 in molecular stratigraphic studies, 387b
 upwelling sites, 351b, 356b, 357b
 Brunhes/Matuyama boundary, Atlantic Ocean, eastern tropical, 441b–446b, 628a
 Bulk density. *See* Density
 Calcium, Atlantic Ocean, eastern tropical: Site 664, 221b
 Calcium carbonate
 Atlantic Ocean, eastern tropical: Site 657, 54a
 Atlantic Ocean, eastern tropical: Site 660
 distribution, 328a
 major change in, 328a
 Atlantic Ocean, eastern tropical: Site 661, 429a
 Atlantic Ocean, eastern tropical: Site 662, 192b, 195b, 499a
 dissolution, 197b
 high-amplitude changes, 488a
 sea-surface temperature and, 208b, 210b
 Atlantic Ocean, eastern tropical: Site 663, 561a, 571a
 high-amplitude changes, 558a
 Atlantic Ocean, eastern tropical: Site 664
 high-amplitude changes, 621a, 629a
 relation to slump deposits, 629a
 Sierra Leone Rise: Site 665, 758a
 high-amplitude changes, 742a
 Sierra Leone Rise: Site 666, 805a
 value fluctuations, 791a
 Sierra Leone Rise: Site 667, periodicity, 834a
 Calcium compensation depth, Atlantic Ocean, eastern tropical: Site 661, 306b, 307b
 Canary Current, 32a, 80b, 223a
 cold-water advection, 221a, 223a
 dissolution effect, 80b
 Cap Blanc, upwelling, 33a, 106a, 256b
 Cape Verde Plateau
 lithology, 311b
 microphysiography and seismic character, 224a
 Carbon dioxide, glacial/interglacial changes, 468b, 469b
 Carbon, inorganic
 Atlantic Ocean, eastern tropical, 124a, 235a, 342a, 422a, 497a, 565a, 1055a
 Sierra Leone Rise, 751a, 846a
 Carbon isotopes
 Atlantic Ocean, eastern tropical: Site 658, 171b–174b, 176b–177b
 Brunhes/Matuyama boundary, 174b–175b
 planktonic and benthic records, 183b–184b
 Atlantic Ocean, eastern tropical: Site 659, 178b
 planktonic and benthic records, 183b–184b
 Atlantic Ocean, eastern tropical: Site 660, 328a
 glacial/interglacial cycles, 163b–164b
 North Atlantic deep-water circulation and, 290b–291b
 Oligocene/Miocene boundary, enrichment, 288b, 289b, 291b
 Sierra Leone Rise, 163b–164b, 288b, 289b
 Site 552, 163b–164b
 Carbon, organic
 accumulation rates, 378b
 Atlantic Ocean, eastern tropical: Site 657, 45a–46a, 49a, 371b, 373b, 374b
 slumps and turbidites, 379b
 TOC values, 364b
 Atlantic Ocean, eastern tropical: Site 658, 124a–125a, 366b–371b, 374b, 376b, 382b
 accumulation rates, 373b, 383b, 476b
 lithologic changes with TOC fluctuation, 127a
 physical properties and, 400b–401b
 TOC values, 363b, 365b
 vs. depth of upwelling, 399b
 Atlantic Ocean, eastern tropical: Site 659, 235a, 371b, 372b, 373b, 399b
 accumulation rates, 373b
 TOC values, 364b
 Atlantic Ocean, eastern tropical: Site 660, 342a, 343a, 345a
 Atlantic Ocean, eastern tropical: Site 661, 422a, 425a
 Atlantic Ocean, eastern tropical: Site 662, 491a, 497a, 498a, 499a
 Atlantic Ocean, eastern tropical: Site 663, 561a, 565a, 566a
 Atlantic Ocean, eastern tropical: Site 664, 624a, 629a, 635a
 Atlantic Ocean, eastern tropical, 1055a–1064a
 maturity, 374b–375b
 quality of, 364b–365b, 373b–374b
 glacial/interglacial cycles, 343a, 378b
 marine, 45a–46a, 343a, 846a
 depositional factors, 362b
 paleoproductivity implications, NW Africa, 377b–379b
 sedimentation rates and, 385b
 qualifying methods
 extractable lipids, 374b
 kerogen microscopy, 373b–374b
 organic carbon/nitrogen ratios, 373b
 Rock-Eval pyrolysis, 658b
 Sierra Leone Rise: Site 665, 751a, 754a
 Pliocene concentrations, 164b
 vs. depth, 747a
 Sierra Leone Rise: Site 666, 795a, 799a, 803a
 Sierra Leone Rise: Site 667, 846a–847a,
 Sierra Leone Rise, distribution, 158b
 Site 552, 164b
 terrigenous, paleoclimatic implications, NW Africa, 375b–377b
 Carbon/nitrogen ratio, Atlantic Ocean, eastern tropical, 373b, 375b, 377b
 Carbonate
 Atlantic Ocean, eastern tropical: Site 657, 46a, 49a, 244b
 Atlantic Ocean, eastern tropical: Site 658, 114a, 125a, 133a, 401b, 1051a
 lithologic changes with fluctuations, 127a
 Atlantic Ocean, eastern tropical: Site 659, 241a, 249a, 312b
 accumulation rates, 254b
 correlation, lithologic units, 235a–236a
 Atlantic Ocean, eastern tropical: Site 660, 336a, 345a, 353a, 1052a
 accumulation rates, 254b
 Atlantic Ocean, eastern tropical: Site 661, 301b–302b, 414a, 422a–423a, 425a
 accumulation rates, 255b
 Campanian–Maestrichtian, 307b
 glacial/interglacial fluctuations, 423a
 Atlantic Ocean, eastern tropical: Site 662, 220b, 226b–232b, 491a, 498a, 503a
 lithostratigraphic correlation, 497a, 499a
 Atlantic Ocean, eastern tropical: Site 663, 220b, 232b–234b, 566a

- high-amplitude changes, 565a-566a
- Atlantic Ocean, eastern tropical: Site 664, 219b, 234b-240b, 624a, 635a, 641a
- effect on index properties, 629a
- preservation change, 620a
- Atlantic Ocean, eastern tropical, 1055a-1064a
- accumulation rates, 246b-248b
- flux changes, 212b
- glacial/interglacial cycles, 157b-158b
- vs. age, 405b
- flux trends
- factors affecting recent, 223b
- long-term, calculation, 213b-214b
- Pleistocene, 214b-217b, 222b-223b
- Pliocene, 214b
- Sierra Leone Rise: Site 665, 754a
- lithologic units and, 751a-752a
- vs. depth, 747a
- Sierra Leone Rise: Site 666, 795a, 803a
- sequences, 800a
- Sierra Leone Rise: Site 667, 838a, 849a, 854a
- Carbonate compensation depth, Sierra Leone Rise: Site 665, 742a
- Carbons, aliphatic, Atlantic Ocean, eastern tropical: Site 658, steroid/hopanoid elution range, 359b
- Chalk, nannofossil, Sierra Leone Rise: Site 667, 838a
- Circulation model, in sensitivity tests, 463b-464b
- Clay, Atlantic Ocean, eastern tropical: Site 658, 249b, 257b
- Clay mineralogy
- Atlantic Ocean, eastern tropical, 314b, 320b-321b, 337b, 338b, 342b
- sediment source, 338b
- turbidite sequences, 314b, 318b, 320b-321b, 337b, 338b, 342b
- Clay, nannofossil, Atlantic Ocean, eastern tropical: Site 657, 35a
- Clay, silty
- Atlantic Ocean, eastern tropical: Site 657, 35a
- Atlantic Ocean, eastern tropical: Site 660, 330a-331a
- Atlantic Ocean, eastern tropical: Site 661, 412a-413a
- Cobb Mountain subchron, Sierra Leone Rise: Site 665, 749a
- Contourites
- Atlantic Ocean, eastern tropical: Site 659, 323b
- Atlantic Ocean, eastern tropical, Neogene distribution, 321b
- bottom current influence, 318b-319b
- characteristics, 320b
- Coriolis force, 328a
- Deep-water circulation
- Atlantic Ocean, eastern tropical, 3b, 158b, 164b-165b, 223b, 281b
- north-south sources, mixing of, 157b
- northwest Africa, 34a
- Oligocene, 290b-291b
- Pleistocene, 223b
- Pliocene, 164b-165b, 281b
- Density
- Atlantic Ocean, eastern tropical: Site 657, 48a, 53a, 1016a
- Atlantic Ocean, eastern tropical: Site 658, 132a, 400b, 403b, 1016a
- Atlantic Ocean, eastern tropical: Site 659, 236a, 248a, 403b, 1016a
- Atlantic Ocean, eastern tropical: Site 660, 344a, 351a, 1016a, 1024a
- Atlantic Ocean, eastern tropical: Site 661, 428a, 1016a
- fluctuations, 423a
- Atlantic Ocean, eastern tropical: Site 662, 226b-232b, 503a, 1016a, 1030a
- Atlantic Ocean, eastern tropical: Site 663, 232b-240b, 569a, 1016a, 1033a
- Atlantic Ocean, eastern tropical: Site 664, 640a, 641a, 1016a, 1036a-1037a
- Atlantic Ocean, eastern tropical
- vs. age, 405b
- vs. depth, 404b
- Sierra Leone Rise: Site 665, 758a, 1016a, 1039a
- Sierra Leone Rise: Site 666, 805a, 1016a, 1041a
- Sierra Leone Rise: Site 667, 854a, 855a, 1016a, 1043a-1045a, 1046a
- units I-III, 847a
- Sierra Leone Rise: Site 668, 938a
- See also* Grain density
- Dissolution, Atlantic Ocean, eastern tropical, 35a, 236a
- Dust plumes, Atlantic Ocean, eastern tropical, 466b
- Eastern Boundary Current, Atlantic Ocean, eastern tropical: Site 657, 32a
- Eolian transportation, Atlantic Ocean, eastern tropical, 147b, 155b-156b
- Feldspar, in turbidite sequences, 338b
- Feldspar/clay, Atlantic Ocean, eastern tropical, accumulation rates, 246b-248b, 249b, 254b, 255b
- Ferrenes, Atlantic Ocean, eastern tropical: Site 658, 352b
- Gas, biogenic, and acoustic properties, 402b-403b
- Gas, hydrocarbon
- Atlantic Ocean, eastern tropical: Site 658
- calculation of, 129a
- high concentrations, 110a, 112a, 124a, 127a
- methane/ethane ratio vs. depth, 124a
- Geochemistry
- Atlantic Ocean, eastern tropical: Site 661, 298b-302b
- Campanian sediments, 306b-308b
- Geochemistry, inorganic
- Atlantic Ocean, eastern tropical: Site 657, 45a, 48a
- Atlantic Ocean, eastern tropical: Site 658, 123a-124a
- Atlantic Ocean, eastern tropical: Site 659, 235a, 241a
- Atlantic Ocean, eastern tropical: Site 660, 342a, 344a
- Atlantic Ocean, eastern tropical: Site 661, 422a, 425a
- Atlantic Ocean, eastern tropical: Site 662, 497a, 498a
- Atlantic Ocean, eastern tropical: Site 663, 565a, 566a
- Atlantic Ocean, eastern tropical: Site 664, 628a-629a, 635a
- Sierra Leone Rise: Site 665, 751a
- Sierra Leone Rise: Site 666, 799a, 803a
- Sierra Leone Rise: Site 667, 845a-846a, 848a
- Sierra Leone Rise: Site 668, 936a, 937a
- Geochemistry, organic
- Atlantic Ocean, eastern tropical: Site 657, 45a-47a
- Rock-Eval pyrolysis, 46a, 50a
- Atlantic Ocean, eastern tropical: Site 658, 124a-127a
- Rock-Eval pyrolysis, 125a, 126a
- Atlantic Ocean, eastern tropical: Site 659, 235a-236a
- Atlantic Ocean, eastern tropical: Site 660, 342a-344a
- Rock-Eval pyrolysis, 343a, 346a
- Atlantic Ocean, eastern tropical: Site 661, 422a-423a
- Atlantic Ocean, eastern tropical: Site 662, 497a, 499a
- Atlantic Ocean, eastern tropical: Site 663, 565a-566a
- Atlantic Ocean, eastern tropical: Site 664, 629a
- Rock-Eval pyrolysis, 46a, 635a, 755a
- Sierra Leone Rise: Site 665, 751a
- Sierra Leone Rise: Site 666, 799a-800a
- Rock-Eval pyrolysis, 803a
- Sierra Leone Rise: Site 667, 846a-847a
- Sierra Leone Rise: Site 668, 937a
- Glacial/interglacial cycles
- Atlantic Ocean, eastern tropical, 147b
- effect on carbon content, 336a, 343a
- Grain density
- Atlantic Ocean, eastern tropical: Site 657, 47a-48a, 54a
- Atlantic Ocean, eastern tropical: Site 658, 127a, 133a, 401b-402b, 1051a
- biogenic opal and, 1047a-1050a, 1053a
- Atlantic Ocean, eastern tropical: Site 659, 249a
- Atlantic Ocean, eastern tropical: Site 660, 344a, 353a, 1052a
- biogenic opal and, 1047a-1050a, 1053a
- Atlantic Ocean, eastern tropical: Site 661, 429a
- Atlantic Ocean, eastern tropical: Site 662, 505a
- Atlantic Ocean, eastern tropical: Site 663, 570a
- Atlantic Ocean, eastern tropical: Site 664, 641a, 642a
- Atlantic Ocean, eastern tropical, 400b
- Sierra Leone Rise: Site 665, 758a
- Sierra Leone Rise: Site 666, 805a
- Sierra Leone Rise: Site 667, 847a, 854a, 855a
- Sierra Leone Rise: Site 668, 938a
- Grain size
- African continental margin, wind velocity interpretations, 467b-468b
- Atlantic Ocean, eastern tropical: Site 657, 262b
- turbidite sequences, 333b
- Atlantic Ocean, eastern tropical: Site 658, 263b-272b
- Atlantic Ocean, eastern tropical: Site 659, 272b-276b
- sequential deposits, 315b
- Atlantic Ocean, eastern tropical: Site 660, 276b
- Atlantic Ocean, eastern tropical: Site 661, 276b-277b, 300b
- terrigenous grain scale, 14a
- GRAPE data

SUBJECT INDEX

- Atlantic Ocean, eastern tropical: Site 657, 55a
 Atlantic Ocean, eastern tropical, 1015a-1016a
 Guinea Dome Upwelling
 marine productivity, 328a, 387b
 relation of Site 661 to, 410a
 Hadley Cell, evolution, 328a
 Hopanoid, Atlantic Ocean, eastern tropical, 352b, 354b
 Hydrocarbon, aliphatic
 Atlantic Ocean, eastern tropical: Site 658, 352b
 compound classes, 354b
 steroid/hopanoid elution range, 360b
 Atlantic Ocean, eastern tropical: Site 659, 352b
 straight-chain fatty acids, 354b
 Hydrogen index, Atlantic Ocean, eastern tropical: Site 657, vs. oxygen index, 50a
 Iberian Basin, oxygen isotope values, 281b
 Ice sheets
 African aridity and, 222b
 Northern Hemisphere, 222b
 sea-surface temperature and, 464b-468b
 Ice volume
 Antarctica, Pliocene, 183b
 Tertiary, 3b
 Insolation heating, North African aridification and, 464b-466b
 Intertropical Convergence Zone, 3b, 5a, 221a
 latitudinal shifts and Saharan aridification, 256b
 northward paleo-advance, 32a
 seasonal positions, 328a, 465b, 467b-468b
 Isotopes, stable
 Atlantic Ocean, eastern tropical: Site 658, erosional hiatus, Brunhes/Matuyama boundary, 170b
 Eocene, 281b
 Oligocene-Miocene, 281b-282b
 Pliocene, deep-ocean distribution, 165b
 Sierra Leone Rise: Site 665, 161b-162b
 correlation, Site 552, 164b
 Sierra Leone Rise: Site 667, 281b-282b, 284b, 286b
 Sierra Leone Rise, 279b-280b
 Site 366, 283b, 285b
 Site 552, 160b, 161b-162b
 Jaramillo Subchron, Atlantic Ocean, eastern tropical: Site 664, transition, 628a
 Kane Gap
 bottom-water circulation, 328a
 deep-water exchange, 297b
 hiatus, current-controlled, 308b
 relation of Site 660 to, 327a
 relation of Site 661 to, 409a, 410a
 Kaolinite, Atlantic Ocean, eastern tropical: Site 661, 302b, 307b
 Kellogg Shale, Eocene foraminifers assemblage, 339a
 Kings Trough, oxygen isotope values, 281b
 Last Glacial Maximum, biogenic opal content, Atlantic Ocean, eastern tropical, 248b
 Lipids
 Atlantic Ocean, eastern tropical: Site 658, 353b-355b, 358b, 381b
 Atlantic Ocean, eastern tropical: Site 659, 353b-355b
 Atlantic Ocean, eastern tropical, 354b-356b, 358b, 388b, 389b
 ketone distribution, 355b, 360b
 extractable
 Atlantic Ocean, eastern tropical: Site 658, 125a-126a
 unsaturation index vs. depth, 127a
 molecular stratigraphic study, 387b
 glacial/interglacial cycles, 390b
 principal components analysis, 389b-390b
 U_{37} profiles, 390b
 as upwelling biomarkers, 351b, 356b, 387b
 Magnetic anomalies, Oligocene-Pleistocene time scale, 15a
 Magnetic properties
 Atlantic Ocean, eastern tropical: Site 658, magnetic accumulation rates, 419b
 Atlantic Ocean, eastern tropical: Site 659, magnetic accumulation rates, 422b
 Atlantic Ocean, eastern tropical: Site 661, magnetic accumulation rates, 424b
 Atlantic Ocean, eastern tropical, magnetite concentration, 418b
 Sierra Leone Rise: Site 665, magnetic accumulation rates, 426b
 Magnetic susceptibility, 1006a
 Atlantic Ocean, eastern tropical: Site 657, 44a, 46a, 47a, 1006a, 1007a
 Atlantic Ocean, eastern tropical: Site 658, 119a-120a, 123a, 1007a
 Atlantic Ocean, eastern tropical: Site 659, 233a, 239a, 1008a, 1009a
 Atlantic Ocean, eastern tropical: Site 660, 340a-341a, 343a, 344a-345a, 353a, 354a, 1009a, 1010a
 correlation, Site 661, 421a, 422a
 Atlantic Ocean, eastern tropical: Site 661, 420a, 1010a, 1011a
 correlation, Site 660, 421a, 422a
 Atlantic Ocean, eastern tropical: Site 662, 496a
 Atlantic Ocean, eastern tropical: Site 664, 628a
 Sierra Leone Rise: Site 665, 25a, 750a, 753a, 1011a
 Sierra Leone Rise: Site 666, 798a, 1012a
 Sierra Leone Rise: Site 667, 843a, 846a, 1012a, 1013a
 Sierra Leone Rise: Site 668, 936a, 1013a
 Magnetostratigraphy
 Atlantic Ocean, eastern tropical: Site 657, 43a-44a, 46a, 432b, 435b
 events, placement and ages, 48a
 Atlantic Ocean, eastern tropical: Site 658, 119a-120a, 121a, 415b, 416b, 432b-433b, 435b, 436b
 geomagnetic correlation, 122a
 Atlantic Ocean, eastern tropical: Site 659, 122b-123b, 232a-233a, 234a, 235a, 237a, 238a, 415b, 416b, 433b, 436b
 Brunhes-Matuyama transition, 233a
 variations, 236a
 Atlantic Ocean, eastern tropical: Site 660, 340a, 341a, 342a, 433b, 436b
 Atlantic Ocean, eastern tropical: Site 661, 415b, 418b, 419a-420a, 433b, 437b
 events, placement and ages, 423a
 Atlantic Ocean, eastern tropical: Site 662, 433b, 496a
 events, placement and ages, 496a
 Atlantic Ocean, eastern tropical: Site 663, 433b
 events, placement and ages, 565a
 Atlantic Ocean, eastern tropical: Site 664, 433b, 437b, 438b, 628a, 630a-632a
 correlation, lithologic units, 632a
 chron boundaries, 432b
 Atlantic Ocean, eastern tropical, 456b
 demagnetization behavior, 430b
 Atlantic Ocean, eastern tropical, 431b, 445b, 446b
 discrete samples vs. continuous measurements, 232a
 multishot core orientation device, 434b
 remanence
 post-splitting, 419a
 stability, 340a
 Sierra Leone Rise: Site 665, 415b, 418b, 433b, 438b, 747a-750a, 751a, 752a
 comparison, photographic orientation, 752a
 depth to reversal boundaries, 749a, 752a
 Sierra Leone Rise: Site 666, 433b-434b, 438b, 797a-798a, 799a, 800a, 801a
 Sierra Leone Rise: Site 667, 434b, 439b, 843a, 844a, 845a
 secondary component, 843a
 Sierra Leone Rise: Site 668, 434b, 439b, 935a, 936a
 Site 552, 125b-126b
 Site 607, 125b
 Manganese
 altered nodule, 308b
 Atlantic Ocean, eastern tropical: Site 661, 302b
 deposition, 308b
 Matuyama/Brunhes chron, Sierra Leone Rise: Site 667, 931a
 Milankovitch cycles; Atlantic Ocean, eastern tropical, 32a, 228a
 Mineralogy
 Atlantic Ocean, eastern tropical: Site 657, 262b
 Atlantic Ocean, eastern tropical: Site 658, 263b
 Atlantic Ocean, eastern tropical: Site 659, 272b-276b
 Atlantic Ocean, eastern tropical: Site 660, 276b
 Atlantic Ocean, eastern tropical: Site 661, 276b-277b, 301b-302b
 Monsoon, African
 effect on climate, 146b, 147b
 moisture budget, during aridification, 255b
 North Atlantic Deep Water, 328a
 lateral advection, Pleistocene, 184b
 nutrient depletion, 165b
 production rate, glacial/interglacial cycles, 157b
 North Equatorial Divergence Zone, upwelling, 343a
 Northern Component/North Atlantic Deep Water

- glacial/interglacial fluctuation, 281b
lateral advection, Pleistocene, 280b
Oligocene-Miocene, 291b
- Olduvai subchron, Sierra Leone Rise: Site 667, 931a
- Ooze, calcareous, Atlantic Ocean, eastern tropical, 75b
- Ooze, diatom, Sierra Leone Rise: Site 665, 743a
- Ooze, nannofossil
Atlantic Ocean, eastern tropical: Site 657, 35a
Atlantic Ocean, eastern tropical: Site 658, 112a, 114a
Atlantic Ocean, eastern tropical: Site 659, 226a
Atlantic Ocean, eastern tropical: Site 660, 330a-331a
Atlantic Ocean, eastern tropical: Site 661, 412a-413a
Atlantic Ocean, eastern tropical: Site 662, 492a
Sierra Leone Rise: Site 665, 743a
Sierra Leone Rise: Site 666, 795a
Sierra Leone Rise: Site 667, 837a, 838a
- Ooze, radiolarian, Atlantic Ocean, eastern tropical: Site 660, 328a, 343a
- Opal
Atlantic Ocean, eastern tropical: Site 658, accumulation rates, 248b, 249b
Atlantic Ocean, eastern tropical: Site 662, 220b, 226b-232b
Atlantic Ocean, eastern tropical: Site 663, 220b, 232b-234b
Atlantic Ocean, eastern tropical: Site 664, 219b, 221b, 234b-240b
Atlantic Ocean, eastern tropical, 212b flux trends
effect of upwelling on, 217b-218b
factors affecting recent, 223b-224b
Pleistocene, 214b-215b, 223b
Pliocene, 214b, 217b-219b
- Opal, biogenic, 1050a
Atlantic Ocean, eastern tropical: Site 645, 744a
Atlantic Ocean, eastern tropical: Site 658, 1051a
Atlantic Ocean, eastern tropical: Sites 658, 660, relation to grain density, 1047a-1050a, 1053a
Atlantic Ocean, eastern tropical: Site 660, 1052a
estimating methods, 1047a
Sierra Leone Rise: Site 665, 741a
Sierra Leone Rise: Site 666, 795a
X-ray diffractograms, 1048a-1049a
- Orbital forcing
Atlantic Ocean, eastern tropical, 131b-132b
Site 677, 131b
- Oxygen isotopes
Atlantic Ocean, eastern tropical: Site 657, 168b-170b
Atlantic Ocean, eastern tropical: Site 658, 95b, 168b-170b, 171b-174b, 181b-182b
accumulation rates, 249b
effect of ice volume on, 96b
glacial-interglacial events, 177b-179b, 183b
negative events, 176b-177b
stages and events, 179b
stratigraphy, 174b-177b
- Atlantic Ocean, eastern tropical: Site 659, benthic and planktonic records, 170b, 174b
Atlantic Ocean, eastern tropical: Site 662, stratigraphy, 191b-193b
Atlantic Ocean, eastern tropical: Site 663, 165b
Atlantic Ocean, eastern tropical glacial/interglacial cycles, 157b-158b
Pleistocene, 215b, 216b
Eocene, 279b
Oligocene/Miocene boundary, Sierra Leone Rise, 288b, 289b
Sierra Leone Rise: Site 665, glacial/interglacial cycles, 163b
Sierra Leone Rise, 287b-288b
Site 552, 163b
Site 607, 163b
stratigraphic correlations, 289b-290b
- P*-wave velocity
Atlantic Ocean, eastern tropical: Site 657, 48a, 55a, 1017a, 1018a
Atlantic Ocean, eastern tropical: Site 658, 133a, 402b, 412b
Atlantic Ocean, eastern tropical: Site 659, 237a, 249a, 403b, 1019a, 1020a-1021a, 1022a, 1023a
Atlantic Ocean, eastern tropical: Site 660, 34a, 344a, 350a, 353a, 1023a, 1025a
Atlantic Ocean, eastern tropical: Site 661, 424a, 429a, 1026a, 1027a-1028a, 1029a
Atlantic Ocean, eastern tropical: Site 662, 503a, 505a, 1029a, 1031a
repeatability of logs, 499a
Atlantic Ocean, eastern tropical: Site 663, 570a, 571a, 1034a
Atlantic Ocean, eastern tropical: Site 664, 413b, 640a, 642a, 1035a, 1037a, 1038a
Atlantic Ocean, eastern tropical, 1015a-1016a
automated logger
application, eastern tropical Atlantic, 411b-412b
operating principles, 407b-410b
velocity calculations, 410b-411b
Sierra Leone Rise: Site 665, 759a, 1039a, 1040a
thermal conductivity and, 757a
Sierra Leone Rise: Site 666, 805a, 806a, 1040a
Sierra Leone Rise: Site 667, 847a-848a, 852a, 854a, 1042a
Sierra Leone Rise: Site 668, 938a
- Pelagites
Atlantic Ocean, eastern tropical: Site 659, 323b
characteristics, 320b
- Physical properties
Atlantic Ocean, eastern tropical: Site 657, 47a-48a, 50a-52a, 262b
Atlantic Ocean, eastern tropical: Site 658, 127a-129a, 263b-272b, 400b-404b
vs. age, 403b-404b
Atlantic Ocean, eastern tropical: Site 659, 236a-237a, 242a-244a, 272b-276b, 400b-404b
vs. age, 403b-404b
Atlantic Ocean, eastern tropical: Site 660, 276b, 344a, 347a-349a
- Atlantic Ocean, eastern tropical: Site 661, 276b-277b, 423a-424a, 426a
Atlantic Ocean, eastern tropical: Site 662, 499a, 500a, 502a
Atlantic Ocean, eastern tropical: Site 663, 566a, 567a-569a
temperature gradients, 569a
Atlantic Ocean, eastern tropical: Site 664, 629a, 636a-639a
effect of carbonate on, 629a
Sierra Leone Rise: Site 665, 752a, 755a-756a
effect of carbonate on, 752a
Sierra Leone Rise: Site 666, 801a, 803a-804a
Sierra Leone Rise: Site 667, 847a-848a, 850a-852a, 853a
Sierra Leone Rise: Site 668, 937a
- Plate tectonics, influence on dust fluxes, 223b-224b
- Porosity
Atlantic Ocean, eastern tropical: Site 657, 54a
Atlantic Ocean, eastern tropical: Site 658, 127a, 132a
Atlantic Ocean, eastern tropical: Site 659, 248a
Atlantic Ocean, eastern tropical: Site 660, 351a
Atlantic Ocean, eastern tropical: Site 661, 428a
Atlantic Ocean, eastern tropical: Site 662, 503a
Atlantic Ocean, eastern tropical: Site 663, 570a
Atlantic Ocean, eastern tropical: Site 664, 640a, 641a
Atlantic Ocean, eastern tropical, 400b, 403b
vs. age, 405b
vs. depth, 404b
Sierra Leone Rise: Site 665, 758a, 759a
Sierra Leone Rise: Site 666, 805a
Sierra Leone Rise: Site 667, 854a, 855a
Sierra Leone Rise: Site 668, 938a
- Pyrite, Atlantic Ocean, eastern tropical: Site 661, 300b, 302b
- Quartz
accumulation rates. 246b-248b. 249b, 254b, 256b, 258b
in carbonate-poor intervals, 377b
Atlantic Ocean, eastern tropical, 244b, 246b-248b, 249b, 254b, 256b, 258b
eolian grains, 335b
fluvial, 346b
in turbidite sequences, 319b, 335b
- Romanche Fracture Zone, 32b, 328a
NADW advection, 281b
relation of Site 662 to, 487a, 489a
relation of Site 663 to, 557a
slump deposits, 621a
stratigraphic hiatus, 63b
- Sahara
aridity cycles, 255b
diatom record, 155b-156b
meteorological factors, 143b
monsoonal effects, 147b
Northern Hemisphere glaciation and, 241b
climatic history, 257b
Messinian salinity crisis, 255b
Saharan Air Layer, 221a

SUBJECT INDEX

- dust transport, 149b, 241b
 relation of Site 659 to, 223a
 zonal mid-tropospheric jet, 32a
- Sahel, aridity cycles, monsoonal effects, 147b
- Sahel/Sahara boundary
 latitude changes, 105b
 trade winds, 98b, 101b
- Sand, Atlantic Ocean, eastern tropical: Site 657, 35a, 41a
- Sand, siliciclastic, turbidite sequences, 317b, 338b
- Sand, silty, Atlantic Ocean, eastern tropical: Site 657, 35a, 41a
- Sand, volcanic, turbidite sequences, 317b
- Sea-surface circulation
 Atlantic Ocean, eastern tropical: Site 662, cooling trend, 488a-489a
 Eastern equatorial Atlantic, 330a
- Sea-surface temperature
 Antarctic, opal flux and, 218b-219b
 Atlantic Ocean, eastern tropical: Site 658, planktonic record, 170b
 Atlantic Ocean, eastern tropical: Site 662, 206b-207b
 African monsoonal effects, 205b
 calcium carbonate and, 208b, 210b
 correlation, core RC24-7, 195b
 F-20 factor analysis, 194b-195b, 202b, 203b-205b
 Pleistocene, 197b-198b
 Pliocene, 202b
 subantarctic influence, 205b
 T-cold estimates, 194b-195b
- Atlantic Ocean, eastern tropical
 precessional component, 202b, 259b
 Saharan aridification and, 259b
- Atlantic Ocean N
 effect on North African aridification, 465b-466b
 ice sheets and, 464b-468b
 low-latitude, circumantarctic temperature and, 469b-471b
 orbital periodicities, quick-count method, 187b-188b
 piston core RC24-7, 190b-191b
 Pliocene-Pleistocene, Atlantic Ocean, equatorial divergence, 187b
- Seafloor subsidence, influence on carbonate concentration, 224b
- Sedimentation rate
 Atlantic Ocean, eastern tropical: Site 657, 45a, 47a, 48a, 363b
 Atlantic Ocean, eastern tropical: Site 658, 123a, 167b, 363b
 biostratigraphic and magnetostratigraphic indicators, 120a, 122a, 123a
 glacial/interglacial cycles, 170b
 Miocene hiatus, 120a
- Atlantic Ocean, eastern tropical: Site 659, 123b, 167b, 180b, 233a-235a, 240a, 253b, 363b
 biostratigraphic and magnetostratigraphic indicators, 234a, 239a
- Atlantic Ocean, eastern tropical: Site 660, 327a-328a, 341a, 344a, 363b
 biostratigraphic and magnetostratigraphic indicators, 343a
- Atlantic Ocean, eastern tropical: Site 661, 363b, 420a-422a
 biostratigraphic markers, 420a-421a
 Maestrichtian, 424a
- Atlantic ocean, eastern tropical: Site 662, 488a, 496a-497a
- age-depth curve, 506a
 biostratigraphic markers, 497a
 Pleistocene increase, 497a
- Atlantic Ocean, eastern tropical: Site 663, 565a, 566a, 574a
- Atlantic Ocean, eastern tropical: Site 664, 634a, 643a
 biostratigraphic and magnetostratigraphic indicators, 633a
 displaced units, 628a
 pelagic sediments, 620a
- Atlantic Ocean, eastern tropical, 215b-216b, 245b
 local redistribution, 216b
 Miocene hiatus, 45a, 233a-234a
 Cretaceous/Tertiary boundary, 410a, 422a
- Oligocene/Miocene boundary, 234a, 845a
- Sierra Leone Rise: Site 665, 750a
 accumulation-rate curve, 753a
 biostratigraphic and magnetostratigraphic indicators, 753a
- Sierra Leone Rise: Site 666, 798a-799a
 biostratigraphic and magnetostratigraphic indicators, 802a
 no-turbidite/slump-free, 799a
 stratigraphic events, 802a
 turbidite sequences, 791a
- Sierra Leone Rise: Site 667, 15b, 20b
 biostratigraphic and magnetostratigraphic markers, 844a-845a, 846a-847a, 848a
 Miocene hiatus, 844a
- Sierra Leone Rise: Site 668, 936a
 biostratigraphic and magnetostratigraphic indicators, 937a
- Sierra Leone Rise, Oligocene-Miocene, 287b
 Site 552, 125b-126b, 160b
 Site 574, 15b, 20b
 Site 607, 125b
- Seismic reflection profiling
 Atlantic Ocean, eastern tropical: Site 657, 36a, 37a, 38a, 56a, 949a-950a, 961a-962a
- Atlantic Ocean, eastern tropical: Site 658, 107a, 108a-109a, 134a, 950a
 analog seismic data, 963a, 964a-967a
 bowl-shaped structure, 131a, 133a
 correlations, 135a
 reflector sources, 129a
- Atlantic Ocean, eastern tropical: Site 659, 225a, 226a, 950a, 968a
- Atlantic Ocean, eastern tropical: Site 660, 331a, 332a-334a, 950a, 969a-970a
 double reflector, 329a
 reflector sources, 346a
- Atlantic Ocean, eastern tropical: Site 661, 412a, 424a, 430a, 950a, 971a
 lithologic correlation, 424a
- Atlantic Ocean, eastern tropical: Site 662, 490a, 558a, 950a, 973a, 974a-977a
- Atlantic Ocean, eastern tropical: Site 663, 558a, 559a, 950a, 978a, 979a-982a
- Atlantic Ocean, eastern tropical: Site 664, 622a, 623a, 950a, 983a, 984a-987a
- Atlantic Ocean, eastern tropical, 950a, 951a
- Sierra Leone Rise: Site 665, 744a, 745a, 746a, 950a, 987a, 988a-990a
- Sierra Leone Rise: Site 666, 792a, 793a, 794a, 950a, 990a-992a, 993a-998a
- Sierra Leone Rise: Site 667, 835a, 836a, 950a, 999a-1000a
- Sierra Leone Rise: Site 668, 932a, 933a, 951a, 1001a
 analog seismic data, 1002a-1003a
Vema profile 3014, 38a
- Seismic stratigraphy
 Atlantic Ocean, eastern tropical: Site 657, 32a-33a, 48a-49a
 lithostratigraphic correlation, 49a
- Atlantic Ocean, eastern tropical: Site 658, 131a, 133a
 level A unconformity, 133a
 seismic units 1-5, 129a
- Atlantic Ocean, eastern tropical: Site 659, 250a
 lithostratigraphic correlation, 237a
 Miocene hiatus, 238a
 seismic units, 237a
- Atlantic Ocean; eastern tropical: Site 660, 354a, 355a, 356a
 correlation, Site 661, 417a
 lithostratigraphic correlation, 346a
 seismic units 1-3, 345a-346a
- Atlantic Ocean, eastern tropical: Site 661, 424a
- Atlantic Ocean, eastern tropical: Site 662, 499a, 506a
- Atlantic Ocean, eastern tropical: Site 663
 correlation, slump deposits, 573a
 seismic units, 569a, 571a
- Atlantic Ocean, eastern tropical: Site 664
 lithostratigraphic correlation, 643a
 seismic units 1-4, 629a
- Sierra Leone Rise: Site 665
 lithostratigraphic correlation, 760a
 seismic units 1-3, 753a-754a
- Sierra Leone Rise: Site 666
 lithostratigraphic correlation, 807a
 seismic units 1-2, 801a
- Sierra Leone Rise: Site 667
 lithostratigraphic correlation, 848a, 856a
 seismic units 1-2, 848a
- Sierra Leone Rise: Site 668, 938a
- Shear strength
 Atlantic Ocean, eastern tropical: Site 657, 48a, 55a
- Atlantic Ocean, eastern tropical: Site 658, 127a-128a, 130a-131a, 133a, 403b
- Atlantic Ocean, eastern tropical: Site 659, 236a, 245a, 249a, 403b
- Atlantic Ocean, eastern tropical: Site 660, 344a, 347a-349a, 353a
 hiatuses, 341a
- Atlantic Ocean, eastern tropical: Site 661, 423a, 426a, 429a
- Atlantic Ocean, eastern tropical: Site 662, 499a, 500a-501a, 505a
- Atlantic Ocean, eastern tropical: Site 663, 567a-569a, 570a
- Atlantic Ocean, eastern tropical: Site 664, 636a-639a, 641a, 642a
- Sierra Leone Rise: Site 665, 755a-756a, 759a
- Sierra Leone Rise: Site 666, 803a-804a, 805a
- Sierra Leone Rise: Site 667, 847a, 850a-852a, 853a, 854a, 855a
- Sierra Leone Rise: Site 668, 937a, 938a
- Sierra Leone Rise: Site 665
 biostratigraphy, 744a-747a
 climate, 165b
 climatic changes, Quaternary, 157b
 depositional history, 743a-744a
 depth correlations, 760a
 geologic and topographic setting, 742a
 lithologic units, 741a, 743a

- lithostratigraphy, 158b-159b, 160b
location, 4b, 25b, 36b, 72b, 122b, 159b, 460b, 489a, 741a
magnetostratigraphy, 415b, 418b, 425b
Quaternary, ocean circulation and chemistry, 158b
sedimentology, 743a
- Sierra Leone Rise: Site 666
biostratigraphy, 793a, 796a
depositional history, 796a
geologic and topographic setting, 793a
lithologic units, 791a, 795a-796a
lithostratigraphy, 793a
location, 25b, 36b, 72b, 122b, 460b, 489a, 791a
sedimentology, 794a-796a
- Sierra Leone Rise: Site 667
age-depth correlations, 288b
Site 366, 282b
biostratigraphy, 834a, 839a-843a
deep-water circulation, carbon isotope comparisons, 290b-291b
depositional environment, 838a-839a
depth correlations, 857a
geologic and topographic setting, 835a
lithologic units, 833a-834a
lithostratigraphy, 834a
Miocene hiatus, 834a
location, 25b, 36b, 72b, 122b, 280b, 460b, 489a, 833a
sedimentology, 836a-838a
stable isotope stratigraphy, 279b-280b
Units I-VI, 837a-838a
- Sierra Leone Rise: Site 668
biostratigraphy, 935a
depositional history, 935a
geologic and topographic setting, 932a
location, 25b, 36b, 72b, 122b, 460b, 489a, 931a
sedimentology, 935a
Unit I, 935a
- Sierra Leone Rise
barrier function, 328a
productivity, 742a
relation of Site 667 to, 834a, 931a
- Silt, siliciclastic
Atlantic Ocean, eastern tropical: Site 658, 244b
Atlantic Ocean, eastern tropical: Site 659, 244b
Atlantic Ocean, eastern tropical, accumulation rates, 249b, 254b, 255b
grain size, glacial/interglacial cycles, 253b, 256b
- Slump deposits
Atlantic Ocean, eastern tropical: Site 657, 106a, 114a, 133a
TOC values, 379b
Atlantic Ocean, eastern tropical: Site 658, 106a, 133a
Atlantic Ocean, eastern tropical: Site 662, 75b, 501a
Atlantic Ocean, eastern tropical: Site 663, 75b, 557a
age-dating, 573a
calculating composite depths, 572a
correlation, seismic units, 573a
pelagic deposition and, 74a
Atlantic Ocean, eastern tropical: Site 664, 75b, 620a
age-dating, 633a
depositional history, 629a
Sierra Leone Rise: Site 665, sedimentation rate, 750a
Sierra Leone Rise: Site 667, 837a, 838a
Smectite, in turbidite sequences, 320b
South Atlantic Central Water, silica content, 219b
South Equatorial Counter Current, diatom associations, 154b
South Equatorial Current, effect on Discoaster abundance, 122b, 129b
Steroids, Atlantic Ocean, eastern tropical, 352b, 354b
Surface-water circulation, Atlantic Ocean, eastern tropical, 3b
Surface-water productivity
Atlantic Ocean, eastern tropical, 356b, 357b, 377b-378b
marine diatom fluctuation and, 149b
in oxic environments, 378b
- Tectonic uplift
temperature changes with, Africa, N, 468b-469b, 470b, 479b
Tibetan Plateau, 224b, 481b
Tenaghi Philippon, correlation, Site 658, 100b-101b
- Terrigenous sediment
Atlantic Ocean, eastern tropical: Site 661, 307b
Atlantic Ocean, eastern tropical, 212b, 219b, 220b, 221b, 226b-240b
sources, 220b
flux trends, 473b-474b
factors affecting, 223b-224b
Miocene, 477b
Pleistocene, 214b, 223b, 481b
Pliocene, 214b, 220b-222b, 478b
- Thermal conductivity
Atlantic Ocean, eastern tropical: Site 659, 236a-237a
Atlantic Ocean, eastern tropical: Site 661, 424a, 426a, 429a
Atlantic Ocean, eastern tropical: Site 663, 570a
Sierra Leone Rise: Site 665, *P*-wave-logger velocity and, 757a
Sierra Leone Rise: Site 667, 855a
Tibet, tectonic uplift, 224b, 481b
Trade winds, pollen transport, Sahel/Sahara boundary, 98b, 101b
Triterpenoids, Atlantic Ocean, eastern tropical, 352b, 354b
Tropical Easterly Jet, Africa, precipitation effects, 143b, 468b-469b
- Turbidites
Atlantic Ocean, eastern tropical: Site 657, 254b, 320b
calcareous pelagic ooze, 343b
frequency variations, 341b
microsequences, 332b-333b
quartz grains, 346b
source, 47a
structural and textural characteristics, 334b, 335b
TOC values, 379b
Atlantic Ocean, eastern tropical: Site 659, 317b, 321b, 323b
lithology, 314b
Terms 1-4, 314b, 316b-317b
Atlantic Ocean, eastern tropical: Site 662, 75b, 501a
increasing sedimentation rates and, 496a
Atlantic Ocean, eastern tropical: Site 663, 75b
Atlantic Ocean, eastern tropical: Site 664, 75b
Atlantic Ocean, eastern tropical, 314b
clay minerals, 318b, 320b-321b, 337b, 338b, 342b
paleoenvironmental record, 338b-340b
source environments, 319b, 320b, 340b, 341b
vertical distribution, 319b, 321b
biogenic components, 338b
Bouma sequences, 316b-317b, 330b, 332b
chemical composition, 319b
eolian sand, 329b, 339b, 341b, 348b
fluvial sand, 339b, 341b, 348b
sequence types and components, 317b-319b, 335b, 339b-340b
shallow-water bioclasts, 347b
Sierra Leone Rise: Site 666
depositional rate, 791a
magnetic stratigraphy, 797a
siliciclastic, 317b
components, 325b, 335b, 336b, 338b
stratigraphic distribution, Neogene, 319b-320b, 330b, 335b, 340b-341b
structural and textural characteristics, 320b, 330b, 335b
coarse-grained, 330b, 332b
microstructure, 332b-333b, 344b, 345b
volcaniclastic, 317b-318b, 319b
components, 326b, 327b
- X-ray diffraction
Atlantic Ocean, eastern tropical: Site 658, bulk-sediment samples, 112a
Atlantic Ocean, eastern tropical: Site 660, 352a
bulk-sediment samples, 337a
Atlantic Ocean, eastern tropical: Site 661, bulk-sediment samples, 415a
biogenic opal, 1048a
- Zeolites
Atlantic Ocean, eastern tropical: Site 661, 302b, 308b
origin, 306b

SITE INDEX

- Site 77, stable isotopic stratigraphy, 291b
- Site 119, stable isotopic stratigraphy, 291b
- Site 140
calcareous nannofossils, co-occurrence of species, 16b
relation to Site 657, 32a, 33a
- Site 149, diatoms, 29b, 340a
- Site 289, stable isotopic stratigraphy, 288b, 291b
- Site 332, diatoms, 23b
- Site 336, stable isotopic stratigraphy, 279b-282b
- Site 354, diatoms, 26b, 339a, 340a
- Site 356, diatoms, 340a
- Site 366
biostratigraphy, 458b
calcium carbonate, 834a
Cenozoic climatic history, 476b
depositional environment, evolution, 1050a
lithostratigraphy, Cretaceous section, 411a
opaline silica concentration, 835a
planktonic foraminifers, 283b-286b, 842a
proximity to Site 668, 932a
seismic unit 3, 848a
stable isotopic stratigraphy, 287b-292b
stratigraphic hiatuses, 834a
terrigenous dust flux, 222b
- Site 367, palynology, 94b
- Site 368
relation to Site 657, 33a
sediment record, 223a
volcanic ash layer, 228a
- Site 397
benthic foraminifers, 113b
Cenozoic climatic history, 476b
opal flux, 223b
terrigenous dust flux, 222b
- Site 503, deep-water circulation, 164b
- Site 519, benthic foraminifers, 113b-116b
- Site 525, calcareous nannofossils, 39b
- Site 527, calcareous nannofossils, 39b
- Site 528, calcareous nannofossils, 39b
- Site 529, stable isotopic stratigraphy, 291b
- Site 530
calcareous nannofossils, 39b, 63b, 421a
pelagic assemblage, 419a
- Site 548, benthic foraminifers, 113b
- Site 549, benthic foraminifers, 113b-116b
- Site 552
benthic foraminifers, 163b-164b
calcareous nannofossils, 116a, 121b, 122b
deep-water circulation, 164b-165b
Discoaster abundances, 121b, 122b, 125b, 136b-137b
effect of orbital forcing on, 131b-132b
species comparisons, 126b-130b
spectral analysis, 130b-131b
lithostratigraphy, 159b-160b
microfossil assemblages, 114a
oxygen isotopes, 180b, 183b
Pliocene climate, 165b
stable isotopes, 160b, 162b-163b
- Site 558
calcareous nannofossils, 63b, 841a
stable isotopic stratigraphy, 288b
- Site 563
calcareous nannofossils, 63b, 841a
abundance patterns, 15b
planktonic foraminifers, 287b
stable isotopic stratigraphy, 281b, 288b, 290b
- Site 574
calcareous nannofossils, 9b, 11b
abundance patterns, 15b, 16b-17b
age estimates, 14b-15b, 19b
quantitative biostratigraphy, 12b-14b
Miocene datums, 20b
sedimentation rate, 15b, 20b
stable isotopic stratigraphy, 291b
- Site 577, calcareous nannofossils, 421a
- Site 588, calcareous nannofossils, 16b
- Site 606
benthic foraminifers, isotopic variation, 163b
calcareous nannofossils, 121b, 123b, 130b
oxygen isotopes, 180b, 183b
planktonic foraminifers, 83b
- Site 607
calcareous nannofossils, 122b
Discoaster abundances, 121b, 122b, 125b
effect of orbital forcing on, 131b-132b, 136b-137b
species comparisons, 126b-130b
spectral analysis, 130b-131b
oxygen isotopes, 180b
- Site 608
calcareous nannofossils, 16b
age estimates, 14b-15b, 18b
stable isotopic stratigraphy, 291b
- Site 609
Matuyama/Brunhes reversal, 444b
microfossil assemblages, 114a
- Site 610
calcareous nannofossils, 16b
microfossil assemblages, 114a
- Site 633, organic carbon, 565a-566a
- Site 650, atmospheric circulation systems, 34a
- Site 657
aeolo-marine sediment record, 241b-242b, 244b-245b, 255b-260b
atmospheric circulation systems, 34a
atmospheric CO₂, 468b
bathymetry, 33a, 107a, 223a, 949a
benthic foraminifers, 22a-23a
biostratigraphy, 41a
biostratigraphy, 35a-43a
synthesis, 455b-458b
bulk density, 48a, 1016a
calcareous nannofossils, 22a
biostratigraphy, 15a-19a, 36a-40a, 39b, 63b-64b
hiatuses, 63b
preservation, abundance, and diversity, 62b-63b
zonation, 36b, 39b
carbonate content, 46a, 1055a
climatic evolution
Cenozoic, 475b-481b
conceptual models, 471b-475b
composite depth, 24a-25a, 49a-50a, 52a
coring summary, 8a-13a
deep-water masses, 34a
diatoms, 23a
biostratigraphy, 19a-20a, 24b, 41a, 43a
climatic changes, 149b, 150b-151b
freshwater record, 154b-156b
Quaternary marine record, 154b
drilling
information, 7a
objectives, 5a, 32a-33a
operations, 33a-34a
procedures, 7a-9a
general circulation model, 463b-471b
geochemistry
inorganic, 23a-24a, 45a
organic, 23a, 45a-47a
glacial boundary conditions, 464b-468b
lipid composition, 352b-357b
lithostratigraphy, 31a-32a, 34a-35a, 106a
correlation, Site 661, 410a
sediment fold, 52a
logging, 25a-26a
magnetic properties, 15a, 23a, 43a-44a, 429b-430b, 432b, 949a, 1005a-1006a
navigation data, 949a
organic carbon, 45a-46a, 361b-362b, 1055a
marine, 377b-379b
maturity, 374b-375b
quantity and quality, 363b-365b, 373b-375b
terrigenous, 375b-377b
turbidite formation and, 379b
P-wave velocity, 55a, 407b-413b, 1015a-1016a
physical properties, 24a, 47a-48a, 50a-52a
planktonic foraminifers, 22a-23a, 76b, 80b, 83b
biostratigraphy, 19a, 40a-41a, 71b-73b
distribution, 73b, 75b
sea-surface temperature, circumantarctic changes and, 469b-471b
seasonal insolation heating, 464b

- sediment accumulation rate, 45a
 sedimentary structures, 13a-15a
 sedimentology, 34a-35a
 mudflow unit, 133a
 seismic stratigraphy, 48a-49a, 949a-950a
 slump deposits, 106a, 114a
 tectonic uplift, 468b-469b
 turbidite sequences, 341b-342b
 environmental significance, 338b-340b
 modal composition, 335b, 338b
 stratigraphic distribution, 340b-341b
 texture and structure, 330b, 332b-333b, 335b
- Site 658
 aeolo-marine sediment record, 241b-242b, 245b, 248b-249b, 253b-254b, 255b-260b
 atmospheric circulation systems, 34a
 atmospheric CO₂, 468b
 bathymetry, 33a, 107a, 223a, 949a
 benthic foraminifers, 22a-23a, 113b-114b
 biostratigraphy, 118a
 biogenic opal, 1047a-1050a
 biostratigraphy, 94b, 114a-118a
 synthesis, 455b-458b
 bulk density, 128a, 1016a
 calcareous nannofossils, 22a, 122b
 biostratigraphy, 15a-19a, 40b, 42b, 63b-64b, 114a-117a
 hiatuses, 63b
 preservation, abundance, and diversity, 62b-63b
 zonation, 36b, 39b
 carbon isotopes, 183b-184b
 carbonate content, 125a, 1055a
 climatic evolution
 Cenozoic, 475b-481b
 conceptual models, 471b-475b
 coastal upwelling, 351b
 composite depth, 24a-25a, 135a
 coring summary, 8a-13a
 deep-water masses, 34a
 diatoms, 23a, 118a
 biostratigraphy, 19a-20a, 24b, 25b
 climatic changes, 149b, 151b-152b
 freshwater record, 154b-156b
 Quaternary marine record, 154b
Discoaster abundances, 121b, 123b-124b
 age models, 122b-124b
 effect of orbital forcing on, 131b-132b, 136b-137b
 species comparisons, 126b-130b
 spectral analysis, 130b-131b
 drilling
 information, 7a
 objectives, 5a, 106a-107a
 operations, 108a-110a
 procedures, 7a-9a
 general circulation model, 463b-471b
 geochemistry
 inorganic, 23a-24a, 123a-124a
 organic, 23a, 124a-125a
 Rock-Eval pyrolysis, 125a-126a
 geologic setting, 108a
 glacial boundary conditions, 464b-468b
 grain density, 1047a-1050a
 hydrocarbon gases, 124a
 lipids, 125a-127a
 lithostratigraphy, 110a-114a
 logging, 25a-26a
 magnetic properties, 15a, 23a, 118a, 119a-120a, 429b-430b, 432b-433b, 949a, 1005a-1006a
 molecular stratigraphy, 387b-393b
 climatic change and, 391b-392b
 molecular biomarkers, 391b
 navigation data, 949a
 organic biomarkers, 392b
 organic carbon, 124a-125a, 361b-362b, 400b-401b, 1055a
 marine, 377b-379b
 maturity, 374b-375b
 quantity and quality, 363b-365b, 373b-375b
 terrigenous, 375b-377b
P-wave velocity, 402b-403b, 407b-413b, 1015a-1016a
 palynology, 93b, 101b-102b
 Brunhes epoch, 99b-100b
 clustering, 94b, 96b
 comparison, Site 661, 94b
 correlation, Tenaghi Philippon sequence, 100b-101b
 development of vegetation, 99b
 pollen diagram zoning, 96b-99b
 response to orbital forcing of climate, 99b
 physical properties, 24a, 127a-129a, 400b-401b
 vs. age, 403b-404b
 planktonic foraminifers, 22a-23a, 76b, 80b, 83b
 biostratigraphy, 19a, 71b-73b, 117a-118a
 distribution, 73b, 75b
 rock-magnetic stratigraphy, 415b, 416b
 sea-surface temperature, circumantarctic changes and, 469b-471b
 seasonal insolation heating, 464b
 sediment accumulation rate, 120a, 122a-123a
 sediment composition, 397b
 grain density and, 401b-402b
 vs. age, 403b-404b
 sedimentary structures, 13a-15a
 sedimentology, 110a-114a
 depositional environment, 114a
 seismic stratigraphy, 129a, 131a, 133a, 950a
 shear strength, 403b
 slump deposits, 106a
 stable isotope stratigraphy, 167b, 168b-170b, 184b
 hiatuses, 174b-177b
 Pliocene-Pleistocene record, 180b-183b
 variability, Brunhes chron, 177b-180b
 tectonic uplift, 468b-469b
 terrigenous dust fluxes, 223b
- Site 659
 aeolo-marine sediment record, 241b-242b, 254b, 255b-260b
 atmospheric circulation systems, 34a
 atmospheric CO₂, 468b
 bathymetry, 33a, 223a, 949a
 benthic foraminifers, 22a-23a, 113b-114b
 biostratigraphy, 232a
 biostratigraphy, synthesis, 455b-458b
 bulk density, 236a, 1016a
 calcareous nannofossils, 22a
 biostratigraphy, 15a-19a, 42b, 63b-64b, 229a-231a
 hiatuses, 63b
 preservation, abundance, and diversity, 62b-63b
 zonation, 36b, 39b
 carbon isotopes, 183b-184b
 carbonate content, 235a-236a, 1055a
 climatic evolution
 Cenozoic, 475b-481b
 conceptual models, 471b-475b
 climatic sequence, 312b-314b, 319b
 coastal upwelling, 351b
 composite depth, 24a-25a, 238a-239a
 contourite sequence, 318b-320b
 coring summary, 8a-13a
 deep-water masses, 34a
 diatoms, 23a, 147b
 biostratigraphy, 19a-20a, 26b, 232a
Discoaster abundances, 121b-122b
 age models, 122b-124b
 effect of orbital forcing on, 131b-132b, 136b-137b
 species comparisons, 126b-130b
 spectral analysis, 130b-131b
 drilling
 information, 7a
 objectives, 5a, 223a-224a
 procedures, 7a-9a
 general circulation model, 463b-471b
 geochemistry
 inorganic, 23a-24a, 235a
 organic, 23a, 235a-236a
 geologic setting, 224a
 glacial boundary conditions, 464b-468b
 lipid composition, 352b-357b
 lithostratigraphy, 222a-223a, 225a-228a
 correlation, Site 661, 410a
 logging, 25a-26a
 magnetic properties, 15a, 23a, 232a-233a, 429b-430b, 433b, 949a, 1005a-1006a
 Matuyama/Brunhes reversal, 441b-443b, 444b-446b
 navigation data, 949a
 organic carbon, 361b-362b, 400b-401b, 1055a
 marine, 377b-379b
 maturity, 374b-375b
 quantity and quality, 363b, 373b-375b
 terrigenous, 375b-377b
P-wave velocity, 402b-403b, 407b-413b, 1015a-1016a
 palynology, 99b
 physical properties, 24a, 236a-237a, 242a-244a, 400b-401b
 vs. age, 403b-404b
 planktonic foraminifers, 22a-23a, 76b, 80b, 83b
 biostratigraphy, 19a, 71b-73b, 231a-232a
 distribution, 73b, 75b
 rock-magnetic stratigraphy, 415b, 416b, 418b
 sea-surface temperature, circumantarctic changes and, 469b-471b
 seasonal insolation heating, 464b
 sediment accumulation rate, 233a-234a
 sediment composition, 397b
 grain density and, 401b-402b
 vs. age, 403b-404b
 sedimentary structures, 13a-15a
 sedimentology, 225a-228a
 depositional environment, 228a
 seismic stratigraphy, 237a-238a, 950a
 shear strength, 403b
 stable isotope stratigraphy, 167b, 168b-170b, 184b
 hiatuses, 174b-177b
 tectonic uplift, 468b-469b
 terrigenous dust flux, 222b
 turbidite sequences, 314b-318b, 319b-321b

SITE INDEX

- volcanic ash layer, 228a
- Site 660
- aeolo-marine sediment record, 241b-242b, 255b-260b
 - atmospheric CO₂, 468b
 - bathymetry, 329a, 331a, 411a, 949a
 - benthic foraminifers, 22a-23a
 - biostratigraphy, 339a
 - biogenic opal, 1047a-1050a
 - biostratigraphy, synthesis, 455b-458b
 - bulk density, 344a, 1016a
 - calcareous nannofossils, 22a
 - biostratigraphy, 15a-19a, 42b, 63b-64b, 337a-339a
 - hiatuses, 63b
 - preservation, abundance, and diversity, 62b-63b
 - zonation, 36b, 39b
 - carbonate content, 342a, 1055a
 - climatic evolution
 - Cenozoic, 475b-481b
 - conceptual models, 471b-475b
 - composite depth, 24a-25a, 346a, 349a
 - coring summary, 8a-13a
 - diatoms, 23a
 - biostratigraphy, 19a-20a, 26b, 29b-30b, 339a-340a
 - drilling
 - information, 7a
 - objectives, 5a, 328a
 - operations, 330a-331a
 - procedures, 7a-9a
 - general circulation model, 463b-471b
 - geochemistry
 - inorganic, 23a-24a, 342a
 - organic, 23a, 342a
 - Rock-Eval pyrolysis, 343a-344a
 - geologic setting, 329a-330a
 - glacial boundary conditions, 464b-468b
 - grain density, 1047a-1050a
 - lithostratigraphy, 327a, 330a-331a, 335a
 - correlation, Site 661, 410a
 - logging, 25a-26a
 - magnetic properties, 15a, 23a, 340a-341a, 344a-345a, 429b-430b, 433b, 949a, 1005a-1006a
 - correlation, Site 661, 421a
 - magnetic susceptibility, correlation, Site 661, 422a
 - molecular stratigraphy, 387b-393b
 - climatic change and, 391b-392b
 - navigation data, 949a
 - organic biomarkers, diagenesis, 392b
 - organic carbon, 342a, 1055a
 - P*-wave velocity, 407b-413b, 1015a-1016a
 - physical properties, 24a, 344a-345a, 347a-349a
 - planktonic foraminifers, 22a-23a, 76b, 80b, 83b
 - biostratigraphy, 19a, 71b-73b, 339a
 - distribution, 75b
 - radiolarians, 308b, 340a
 - sea-surface temperature, circumantarctic changes and, 469b-471b
 - seasonal insolation heating, 464b
 - sediment accumulation rate, 341a
 - sedimentary structures, 13a-15a
 - sedimentology, 330a-331a
 - depositional history, 335a-336a
 - seismic stratigraphy, 345a-346a, 950a
 - silicoflagellate, 487b
 - tectonic uplift, 468b-469b
 - terriginous dust fluxes, 223b
- Site 661
- aeolo-marine sediment record, 241b-242b, 255b-260b
 - atmospheric CO₂, 468b
 - bathymetry, 329a, 331a, 411a, 949a
 - benthic foraminifers, 22a-23a
 - biostratigraphy, 419a
 - biostratigraphy, synthesis, 455b-458b
 - bulk density, 423a, 1016a
 - calcareous nannofossils, 22a
 - biostratigraphy, 15a-19a, 42b, 49b, 63b-64b, 417a-419a
 - hiatuses, 63b
 - preservation, abundance, and diversity, 62b-63b
 - zonation, 36b, 39b
 - calcite compensation depth, 306b-307b
 - carbonate content, 422a-423a, 1055a
 - climatic evolution
 - Cenozoic, 475b-481b
 - conceptual models, 471b-475b
 - composite depth, 24a-25a, 424a-425a
 - coring summary, 8a-13a
 - diatoms, 23a
 - biostratigraphy, 19a-20a, 30b, 419a
 - drilling
 - information, 7a
 - objectives, 5a, 410a-411a
 - operations, 411a-412a
 - procedures, 7a-9a
 - general circulation model, 463b-471b
 - geochemistry
 - inorganic, 23a-24a, 422a
 - organic, 23a, 422a
 - geologic setting, 411a
 - glacial boundary conditions, 464b-468b
 - lithostratigraphy, 297b-298b, 300b, 302b, 304b, 306b-308b, 409a-410a, 412a-415a
 - logging, 25a-26a, 425a, 427a
 - magnetic properties, 15a, 23a, 419a-420a, 429b-430b, 433b, 949a, 1005a-1006a
 - correlation, Site 660, 421a
 - navigation data, 949a
 - organic carbon, 1055a
 - P*-wave velocity, 407b-413b, 1015a-1016a
 - palynology, 101b
 - comparison, Site 658, 94b
 - physical properties, 24a, 423a-424a, 426a-427a
 - planktonic foraminifers, 22a-23a, 76b, 80b, 83b
 - biostratigraphy, 19a, 71b-73b, 419a
 - distribution, 75b
 - rock-magnetic stratigraphy, 415b, 418b
 - magnetic mineral alteration, 418b-419b
 - spectral analysis, 421b
 - sea-surface temperature, circumantarctic changes and, 469b-471b
 - seasonal insolation heating, 464b
 - sediment accumulation rate, 420a-422a
 - sedimentary structures, 13a-15a
 - sedimentology, 412a-415a
 - depositional history, 415a
 - seismic stratigraphy, 424a, 559a, 950a
 - tectonic uplift, 468b-469b
- Site 662
- aridity cycles, 143b
 - atmospheric CO₂, 468b
 - bathymetry, 949a
 - benthic foraminifers, 22a-23a
 - biogenic and terrigenous fluxes, 212b-224b
 - dust, 220b-222b, 223b
 - opal content, 217b-220b, 223b
 - biostratigraphy, 191b, 211b
 - synthesis, 455b-458b
 - bulk density, 1016a
 - calcareous nannofossils, 22a, 122b
 - biostratigraphy, 15a-19a, 49b, 63b-64b, 492a-493a
 - hiatuses, 63b
 - preservation, abundance, and diversity, 62b-63b
 - zonation, 36b, 39b
 - calcium carbonate, 195b, 222b-223b, 558a, 621a
 - carbonate content, 497a, 1055a
 - climatic evolution
 - Cenozoic, 475b-481b
 - conceptual models, 471b-475b
 - composite depth, 24a-25a, 212b, 501a-502a
 - coring summary, 8a-13a
 - diatoms, 23a
 - biostratigraphy, 19a-20a, 32b, 495a-496a
 - climatic changes, 144b, 146b-147b, 156b
 - Discoaster* abundances, age models, 124b
 - drilling
 - information, 7a
 - objectives, 5a, 488a-489a
 - operations, 489a, 491a
 - procedures, 7a-9a
 - general circulation model, 463b-471b
 - geochemistry
 - inorganic, 23a-24a, 497a
 - organic, 23a, 497a
 - geologic setting, 489a
 - geotechnical tests, 499a
 - glacial boundary conditions, 464b-468b
 - lithostratigraphy, 487a, 491a-492a
 - logging, 25a-26a
 - magnetic properties, 15a, 23a, 429b-430b, 433b, 496a, 949a, 1005a-1006a
 - navigation data, 949a
 - organic carbon, 499a, 1055a
 - oxygen isotopic stratigraphy, 191b-193b, 211b-212b
 - P*-wave velocity, 407b-413b, 1015a-1016a
 - physical properties, 24a, 499a, 500a-502a
 - planktonic foraminifers, 22a-23a, 76b, 80b, 83b
 - biostratigraphy, 19a, 71b-73b, 495a
 - distribution, 75b
 - variation with sea-surface temperature, 193b-195b
 - sea-surface temperature, 187b-188b, 193b-195b, 197b-198b, 202b, 205b-206b
 - circumantarctic changes and, 469b-471b
 - seasonal insolation heating, 464b
 - sediment accumulation rate, 496a-497a
 - correlation, Site 663, 564a
 - sedimentary structures, 13a-15a
 - sedimentology, depositional environment, 491a-492a
 - seismic stratigraphy, 499a, 558a, 559a, 950a
 - silicoflagellates, 487b
 - slump deposits, 492a, 572a, 573a, 621a

- correlation, Site 663, 561a, 574a
 tectonic uplift, 468b-469b
- Site 663
 atmospheric CO₂, 468b
 bathymetry, 949a
 benthic foraminifers, 22a-23a
 biostratigraphy, 564a
 biogenic and terrigenous fluxes, 212b-224b
 dust, 220b-222b, 223b
 opal content, 217b-220b, 223b
 biostratigraphy, 211b
 synthesis, 455b-458b
 bulk density, 1016a
 calcareous nannofossils, 22a
 biostratigraphy, 15a-19a, 49b, 52b, 63b-64b, 562a-564a
 hiatuses, 63b
 preservation, abundance, and diversity, 62b-63b
 zonation, 36b, 39b
 calcium carbonate, 222b-223b, 621a
 carbonate content, 565a, 1055a
 climatic evolution
 Cenozoic, 475b-481b
 conceptual models, 471b-475b
 composite depth, 24a-25a, 212b
 coring summary, 8a-13a
 diatoms, 23a
 biostratigraphy, 19a-20a, 32b, 564a
 drilling
 information, 7a
 objectives, 5a, 558a
 procedures, 7a-9a
 general circulation model, 463b-471b
 geochemistry
 inorganic, 23a-24a, 565a
 organic, 23a, 565a-566a
 geologic setting, 558a-559a
 operations, 559a-560a
 glacial boundary conditions, 464b-468b
 lithostratigraphy, 557a, 560a-561a
 logging, 25a-26a
 magnetic properties, 15a, 23a, 429b-430b, 433b, 564a, 949a, 1005a-1006a
 navigation data, 949a
 organic carbon, 1055a
 oxygen isotopic stratigraphy, 211b-212b
P-wave velocity, 407b-413b, 1015a-1016a
 physical properties, 24a, 566a, 567a-569a
 planktonic foraminifers, 22a-23a, 76b, 80b, 83b
 biostratigraphy, 19a, 71b-73b, 564a
 distribution, 75b
 sea-surface temperature, circumantarctic changes and, 469b-471b
 seasonal insolation heating, 464b
 sediment accumulation rate, 564a-565a
 sedimentary structures, 13a-15a
 sedimentology, 560a-561a
 depositional history, 561a
 seismic stratigraphy, 569a, 571a-572a, 950a
 slump deposits, 572a, 573a, 621a
 correlation, Site 662, 561a, 574a
 tectonic uplift, 468b-469b
- Site 664
 aridity cycles, 143b
 atmospheric CO₂, 468b
 bathymetry, 949a
 benthic foraminifers, 22a-23a
- biostratigraphy, 628a
 biogenic and terrigenous fluxes
 dust, 220b-222b, 223b
 opal content, 217b-220b, 223b
 biostratigraphy, 211b
 synthesis, 455b-458b
 bulk density, 1016a
 calcareous nannofossils, 22a
 biostratigraphy, 15a-19a, 52b-53b, 63b-64b, 624a-627a
 hiatuses, 63b
 preservation, abundance, and diversity, 62b-63b
 zonation, 36b, 39b
 calcium carbonate, 222b-223b, 621a, 629a
 carbonate content, 629a, 1055a
 climatic evolution
 Cenozoic, 475b-481b
 conceptual models, 471b-475b
 composite depth, 24a-25a, 212b, 633a-634a
 coring summary, 8a-13a
 diatoms, 23a
 biostratigraphy, 19a-20a, 32b, 627a-628a
 climatic changes, 144b, 146b-147b, 156b
- drilling
 information, 7a
 objectives, 5a, 621a
 operations, 621a-622a
 procedures, 7a-9a
 general circulation model, 463b-471b
 geochemistry
 inorganic, 23a-24a, 628a-629a
 organic, 23a, 629a
 geologic setting, 621a
 glacial boundary conditions, 464b-468b
 lithostratigraphy, 622a-623a
 logging, 25a-26a
 magnetic properties, 15a, 23a, 429b-430b, 433b, 628a, 949a, 1005a-1006a
 Matuyama/Brunhes reversal, 441b, 443b-446b
 navigation data, 949a
 organic carbon, 629a, 1055a
P-wave velocity, 407b-413b, 1015a-1016a
 physical properties, 24a, 629a, 636a-639a
 planktonic foraminifers, 22a-23a, 76b, 80b, 83b
 biostratigraphy, 19a, 71b-73b, 627a
 distribution, 75b
 sea-surface temperature, circumantarctic changes and, 469b-471b
 seasonal insolation heating, 464b
 sediment accumulation rate, 628a
 sediment ponds, 621a
 sedimentary structures, 13a-15a
 sedimentology, 622a-623a
 depositional environment, 623a
 seismic stratigraphy, 629a, 632a, 950a
 slump deposits, 620a, 621a
 age-dating, 633a
 tectonic uplift, 468b-469b
- Site 665
 atmospheric CO₂, 468b
 bathymetry, 329a, 949a
 benthic foraminifers, 22a-23a
 biostratigraphy, 746a
 isotopic variation, 157b-158b, 163b-164b
- biostratigraphy, synthesis, 455b-458b
 bulk density, 1016a
 calcareous nannofossils, 22a
 biostratigraphy, 15a-19a, 60b, 63b-64b, 796a
 hiatuses, 63b
 preservation, abundance, and diversity, 62b-63b
 carbonate content, 800a, 1055a
 climatic evolution
 Cenozoic, 475b-481b
 conceptual models, 471b-475b
 composite depth, 24a-25a, 754a
 coring summary, 8a-13a
 deep-water circulation, 164b-165b
 diatoms, 23a
 biostratigraphy, 19a-20a, 32b, 747a
 drilling
 information, 7a
 objectives, 5a, 742a
 operations, 742a-743a
 procedures, 7a-9a
 general circulation model, 463b-471b
 geochemistry
 inorganic, 23a-24a, 751a
 organic, 23a, 751a-752a
 geologic setting, 742a
 glacial boundary conditions, 464b-468b
 lithostratigraphy, 158b-159b, 741a, 743a-744a
 logging, 25a-26a
 magnetic properties, 15a, 23a, 429b-430b, 433b, 747a-749a, 750a, 949a, 1005a-1006a
 reversed behavior, 748a-749a
 navigation data, 949a
 organic carbon, 164b, 751a, 1055a
 oxygen isotopes, 180b, 183b
P-wave velocity, 407b-413b, 1015a-1016a
 physical properties, 24a, 752a, 756a-757a
 planktonic foraminifers, 22a-23a, 76b, 80b, 83b
 biostratigraphy, 19a, 71b-73b, 745a-746a
 distribution, 75b, 76b
 Pliocene climate, 165b
 rock-magnetic stratigraphy, 415b, 418b
 sea-surface temperature, circumantarctic changes and, 469b-471b
 seasonal insolation heating, 464b
 sediment accumulation rate, 750a
 sedimentary structures, 13a-15a
 sedimentology, depositional history, 743a-744a
 seismic stratigraphy, 753a-754a, 950a
 stable isotopes, 163b-164b
 tectonic uplift, 468b-469b
- Site 666
 atmospheric CO₂, 468b
 bathymetry, 329a, 949a
 benthic foraminifers, 22a-23a
 biostratigraphy, 797a
 biostratigraphy, synthesis, 455b-458b
 bulk density, 1016a
 calcareous nannofossils, 22a
 biostratigraphy, 15a-19a, 60b, 63b-64b, 796a
 hiatuses, 63b
 preservation, abundance, and diversity, 62b-63b
 carbonate content, 800a, 1055a
 climatic evolution

SITE INDEX

- Cenozoic, 475b-481b
 conceptual models, 471b-475b
 composite depth, 24a-25a
 coring summary, 8a-13a
 diatoms, 23a
 biostratigraphy, 19a-20a, 33b
 drilling
 information, 7a
 objectives, 5a, 792a
 operations, 793a-794a
 procedures, 7a-9a
 general circulation model, 463b-471b
 geochemistry
 inorganic, 23a-24a, 799a
 organic, 23a, 799a-801a
 geologic setting, 793a
 glacial boundary conditions, 464b-468b
 lithostratigraphy, 791a, 794a-796a
 logging, 25a-26a
 magnetic properties, 15a, 23a, 429b-430b, 433b-434b, 797a-799a, 949a, 1005a-1006a
 navigation data, 949a
 organic carbon, 799a-800a, 1055a
P-wave velocity, 407b-413b, 1015a-1016a
 physical properties, 24a, 801a, 803a-804a
 planktonic foraminifers, 22a-23a, 76b, 80b, 83b
 biostratigraphy, 19a, 71b-73b, 797a
 distribution, 75b, 76b
 sea-surface temperature, circumantarctic changes and, 469b-471b
 seasonal insolation heating, 464b
 sedimentary structures, 13a-15a
 sedimentology, 794a-796a
 depositional history, 796a
 seismic stratigraphy, 801a, 806a, 950a
 tectonic uplift, 468b-469b
- Site 667
 atmospheric CO₂, 468b
 bathymetry, 329a, 949a
 benthic foraminifers, 22a-23a
 biostratigraphy, 842a
 biostratigraphy, synthesis, 455b-458b
 bulk density, 847a, 1016a
 calcareous nannofossils, 22a
 age estimates, 15b, 18b, 19b
 biostratigraphy, 15a-19a, 60b, 62b, 63b-64b, 839a-841a
 comparison, Site 574, 12b-14b
 hiatuses, 63b
 preservation, abundance, and diversity, 16b-17b, 62b-63b
 quantitative biostratigraphy, 9b-12b
 zonal boundaries, 15b-16b
 carbonate content, 846a, 1055a
 climatic evolution
 Cenozoic, 475b-481b
 conceptual models, 471b-475b
 composite depth, 24a-25a, 849a
 coring summary, 8a-13a
 diatoms, 23a
 biostratigraphy, 19a-20a, 33b, 842a
 drilling
 information, 7a
 objectives, 5a, 834a-835a
 operations, 835a-836a
 procedures, 7a-9a
 general circulation model, 463b-471b
 geochemistry
 inorganic, 23a-24a, 845a-846a
 organic, 23a, 846a-847a
 geologic setting, 835a
 glacial boundary conditions, 464b-468b
 lithostratigraphy, 833a-834a, 836a-839a
 logging, 25a-26a
 magnetic properties, 15a, 23a, 429b-430b, 434b, 843a, 949a, 1005a-1006a
 navigation data, 949a
 organic carbon, 846a, 1055a
 P-wave velocity, 407b-413b, 1015a-1016a
 physical properties, 24a, 847a-848a, 850a-853a
 planktonic foraminifers, 22a-23a, 76b, 80b, 83b, 286b-287b
 biostratigraphy, 19a, 71b-73b, 841a-842a
 distribution, 75b, 76b
 sea-surface temperature, circumantarctic changes and, 469b-471b
 seasonal insolation heating, 464b
 sediment accumulation rate, 844a-845a
 sedimentary structures, 13a-15a
 sedimentation rate, 15b, 20b
 sedimentology, 836a-839a
 depositional environment, 838a-839a
 seismic stratigraphy, 484a, 950a
 silicoflagellate, 487b
 stable isotopic stratigraphy, 279b-282b, 287b-292b
 tectonic uplift, 468b-469b
- Site 668
 atmospheric CO₂, 468b
 bathymetry, 329a, 949a
 benthic foraminifers, 22a-23a
 biostratigraphy, 935a
 biostratigraphy, synthesis, 455b-458b
 bulk density, 1016a
 calcareous nannofossils, 22a
 biostratigraphy, 15a-19a, 62b, 63b-64b, 935a
 hiatuses, 63b
 preservation, abundance, and diversity, 62b-63b
 zonation, 36b, 39b
 carbonate content, 1055a
 climatic evolution
 Cenozoic, 475b-481b
 conceptual models, 471b-475b
 composite depth, 24a-25a
 coring summary, 8a-13a
 depositional environment, 935a
 diatoms, 23a
 biostratigraphy, 19a-20a, 33b, 935a
 drilling, 7a
 objectives, 5a, 931a-932a
 operations, 932a-935a
 procedures, 7a-9a
 general circulation model, 463b-471b
 geochemistry
 inorganic, 23a-24a, 936a
 organic, 23a, 937a
 geologic setting, 932a
 glacial boundary conditions, 464b-468b
 lithostratigraphy, 931a, 935a
 logging, 25a-26a
 magnetic properties, 15a, 23a, 429b-430b, 434b, 935a, 936a, 949a, 1005a-1006a
 navigation data, 949a
 organic carbon, 1055a
 P-wave velocity, 407b-413b, 1015a-1016a
 physical properties, 24a, 937a-938a
 planktonic foraminifers, 22a-23a, 76b, 80b, 83b
 biostratigraphy, 19a, 71b-73b, 935a
 distribution, 75b, 76b
 sea-surface temperature, circumantarctic changes and, 469b-471b
 seasonal insolation heating, 464b
 seismic stratigraphy, 938a, 951a
 tectonic uplift, 468b-469b
- Site 677, *Discoaster* abundances, 131b
- Site 704, opal fluxes, 478b

PALEONTOLOGICAL INDEX

- Amaranthaceae, Atlantic Ocean, eastern tropical: Site 658, influx frequency spectrum, 101b, 102b, 103b
- Amaurolithus amplificus*
Atlantic Ocean, eastern tropical: Site 657, 40a
Atlantic Ocean, eastern tropical: Site 659, last occurrence, 231a
- Amaurolithus* spp.
Atlantic Ocean, eastern tropical: Site 659, first occurrence, 231a
Atlantic Ocean, eastern tropical: Site 664, 627a
Sierra Leone Rise: Site 667, 840a–841a
- Arkhangelskiella cymbiformis* zone, Atlantic Ocean, eastern tropical: Site 661, 39b, 49b, 67b, 418a
- Artemisia*, Atlantic Ocean, eastern tropical: Site 658, 96b
- Asteraceae, Atlantic Ocean, eastern tropical: Site 658, 96b
- Atlantic Ocean, eastern tropical, microfossil zones, epoch boundary correlations, 42a
- Aulacoseira granulata*, Atlantic Ocean, eastern tropical: Site 658, 154b, 156b
- Benthic foraminifers
abundance estimates, 22a–23a
Atlantic Ocean, eastern tropical: Site 657, 41a
Atlantic Ocean, eastern tropical: Site 658, 113b, 118a
data base, 115b–116b
Atlantic Ocean, eastern tropical: Site 659, 113b, 232a
Atlantic Ocean, eastern tropical: Site 660, 339a
Atlantic Ocean, eastern tropical: Site 661, 419a
Atlantic Ocean, eastern tropical: Site 662, 495a
Atlantic Ocean, eastern tropical: Site 663, 564a
Atlantic Ocean, eastern tropical: Site 664, 628a
Brunhes/Matuyama boundary, extinction dates, 114b
Sierra Leone Rise: Site 665, 746a
carbon isotope values, 157b, 162b, 163b
Sierra Leone Rise: Site 666, 797a
Sierra Leone Rise: Site 667, 842a
Sierra Leone Rise: Site 668, 935a
Site 552, isotopic values, 162b
- Bogorovia veniamini* zone, Sierra Leone Rise: Site 667, 843a
- Bulimina alazanensis*, Atlantic Ocean, eastern tropical: Site 662, last occurrence, 49a
- Calcareous nannofossils
amaurolithids
Atlantic Ocean, eastern tropical: Site 659, 39a, 42b, 230a
Atlantic Ocean, eastern tropical: Site 657, 36a–37a, 39a–40a
biostratigraphy, 39b, 62b–63b
geomagnetic correlation, 64b
Miocene hiatus, 63b
- Pleistocene hiatus, 37a
Atlantic Ocean; eastern tropical: Site 658, 40b, 42b, 43b, 114a–117a
abundance, 116a, 129b–130b
biostratigraphy, 40b, 42b, 62b–63b
bottom current influence, 62b
depositional environment, 115a
geomagnetic correlation, 64b
Miocene hiatus, 63b
response to orbital forcing, 131b–132b, 136b–137b
spectral analysis, 130b–131b, 139b
zonation, 116a
- Atlantic Ocean, eastern tropical: Site 659, 42b, 44b–47b, 230a–231a
abundance, 129b–130b
biostratigraphy, 42b, 62b–63b
bottom current influence, 62b
geomagnetic correlation, 64b
Miocene hiatus, 63b
preservation, 229a
response to orbital forcing, 131b–132b, 136b–137b
spectral analysis, 130b–131b, 139b
zonation, 229a, 230a
- Atlantic Ocean, eastern tropical: Site 660, 42b, 48b, 337a–338a
biostratigraphy, 42b, 62b–63b
geomagnetic correlation, 64b
preservation, 336a, 337a
zonation, 338a
- Atlantic Ocean, eastern tropical: Site 661, 49b, 52b, 417a, 418a
biostratigraphy, 42b, 49b, 62b–63b
geomagnetic correlation, 64b
preservation, 418a
zonation, 39b, 417a
- Atlantic Ocean, eastern tropical: Site 662, 49b, 52b, 494a–495a
abundance, 129b–130b, 494a
age-depth relationships, 123b
biostratigraphy, 49b, 62b–63b
bottom current influence, 62b
Miocene hiatus, 63b
preservation, 492a
response to orbital forcing, 131b–132b, 136b–137b
reworked species, 124b–125b
spectral analysis, 130b–131b, 139b
tropical-subtropical species, 62b
zonation, 493a, 494a
- Atlantic Ocean, eastern tropical: Site 663, 52b, 53b, 562a–563a
biostratigraphy, 49b, 52b, 62b–63b
bottom current influence, 62b
Miocene hiatus, 63b
preservation, 562a
tropical-subtropical species, 62b
zonation, 562a, 563a
- Atlantic Ocean, eastern tropical: Site 664, 53b, 54b, 624a–627a
biostratigraphy, 52b–53b, 62b–63b
bottom current influence, 62b
Miocene hiatus, 63b
slumped material, 625a
zonation, 625a, 626a
- Atlantic Ocean, eastern tropical
color cycles, 62b
paleomagnetic correlation, 61b
zonation, 37b–38b, 40b
Cretaceous, 36b, 39b
- CN1 zone, Sierra Leone Rise: Site 667, 10b, 12b
CN1/CN2 zonal boundary, Sierra Leone Rise: Site 667, 15b–16b
CN3 zone, Sierra Leone Rise: Site 667, 11b
CN3/CN4 zonal boundary, Sierra Leone Rise: Site 667, 16b, 17b
CN4 zone, Sierra Leone Rise: Site 667, 10b
CN4/CN5 zonal boundary
Pacific Ocean, equatorial: Site 574, 13b, 16b
Sierra Leone Rise: Site 667, 15b, 16b
CP19 zone, Sierra Leone Rise: Site 667, 9b
CP19/CN1a zonal boundary, Sierra Leone Rise: Site 667, 15b
glacial/interglacial cycles, 840a
helicosphaerids, 840a
Maestrichtian/Campanian boundary, Atlantic Ocean, eastern tropical: Site 661, 418a–419a
Miocene hiatus, 42b
Miocene/Pliocene boundary
Atlantic Ocean, eastern tropical: Site 657, 36a hiatus, 39b, 40a, 63b
Atlantic Ocean, eastern tropical: Site 661, 415a
NN3–NN9 zones, Atlantic Ocean, eastern tropical: Site 659, 231a
NN9 zone, Atlantic Ocean, eastern tropical: Site 661, 42b
NN9–NN11 zones, Atlantic Ocean, eastern tropical: Site 661, 417a–418a
NN10–NN12 zones, Atlantic Ocean, eastern tropical: Site 657, 40a
NN11–NN19 zones, Atlantic Ocean, eastern tropical: Site 660, 337a–339a
NN12–NN14 zones, Atlantic Ocean, eastern tropical: Site 657, 39a
NN12–NN15 zones, Atlantic Ocean, eastern tropical: Site 659, 230a
NN14/NN15 zonal boundary, Atlantic Ocean, eastern tropical: Site 659, 42b
NN16–NN18 zones, Atlantic Ocean, eastern tropical: Site 657, 37a
NN17–NN21 zones, Sierra Leone Rise: Site 665, 745a
NN19–NN21 zones, Atlantic Ocean, eastern tropical: Site 658, 117a
NN20–NN21 zones, Atlantic Ocean, eastern tropical: Site 657, 37a
Oligocene/Miocene boundary
Atlantic Ocean, eastern tropical: Site 659, 42b, 63b, 231a
hiatus, 230a
Sierra Leone Rise: Site 667, 63b, 841a
Pacific Ocean, equatorial: Site 574
age estimates, 14b, 18b, 19b
biostratigraphy, quantitative, 12b–14b
Miocene datums, 20b
Paleogene/Neogene boundary, Sierra Leone Rise: Site 667, 840a
Pliocene/Pleistocene boundary
Atlantic Ocean, eastern tropical: Site 657, 37a
Atlantic Ocean, eastern tropical: Site 664, 626a
preservation estimates, 22a

PALEONTOLOGICAL INDEX

- reticulofenestrids, Atlantic Ocean, eastern tropical: Site 659, 230a
 sedimentation rate, marker species
 Atlantic Ocean, eastern tropical: Site 658, 122a–123a
 Atlantic Ocean, eastern tropical: Site 660, 341a
 Atlantic Ocean, eastern tropical: Site 661, 421a–422a
 Sierra Leone Rise: Site 665, 55b, 744a
 biostratigraphy, 53b, 62b–63b
 geomagnetic correlation, 64b
 zonation, 748a
 Sierra Leone Rise: Site 666, 55b, 60b
 biostratigraphy, 60b, 62b–63b
 Pliocene–Pleistocene, 796a–797a
 reworked species, 796a, 797a
 subtropical species, 62b
 zonation, 796a
 Sierra Leone Rise: Site 667
 age estimates, 14b, 18b, 19b
 biostratigraphy, 9b–12b, 60b, 62b–63b
 color cycles, 839a
 dissolution, 10b
 glacial/interglacial cycles, 60b
 Miocene hiatus, 63b
 Pliocene–Pleistocene, 57b
 preservation, 839a
 slumped material, 841a
 subtropical species, 62b
 zonation, 839a, 840a
 Sierra Leone Rise: Site 668, 60b, 935a
 biostratigraphy, 62b–63b
 zonation, 935a
 Site 552
 abundance, 129b–130b
 age-depth relationships, 125b
 response to orbital forcing, 131b–132b, 136b–137b
 spectral analysis, 130b–131b, 139b
 Site 607
 abundance, 129b–130b
 age-depth relationships, 125b
 response to orbital forcing, 131b–132b, 136b–137b
 spectral analysis, 130b–131b, 139b
 slumped material, 492a
 sphenoliths, Atlantic Ocean, eastern tropical: Site 659, 230a
 zonation
 species events, 19a
 tropical, 15a–16a
Calcidiscus macintyrei
 Atlantic Ocean, eastern tropical: Site 657, 37a
 Atlantic Ocean, eastern tropical: Site 658, 117a
 last occurrence, 123a
 Atlantic Ocean, eastern tropical: Site 660, last occurrence, 337a
 Atlantic Ocean, eastern tropical: Site 661, last occurrence, 418a
 Atlantic Ocean, eastern tropical: Site 662, 494a
 Atlantic Ocean, eastern tropical: Site 663, last occurrence, 563a
 Atlantic Ocean, eastern tropical: Site 664, 625a
 Atlantic Ocean, eastern tropical, 62b
 Sierra Leone Rise: Site 666, 796a–797a
 Sierra Leone Rise: Site 667, 840a
 first occurrence, 16b
 Sierra Leone Rise: Site 668, last occurrence, 935a
Catapsydrax dissimilis, Site 366, 285b
Catapsydrax stainforthi zone, Atlantic Ocean, eastern tropical: Site 659, 232a
Catapsydrax unicavus, Site 366, 285b
Catinaster coalitus, Atlantic Ocean, eastern tropical: Site 659, first occurrence, 231a
Ceratolithus acutus
 Atlantic Ocean, eastern tropical: Site 657, transition to *C. rugosus*, 39a
 Atlantic Ocean, eastern tropical: Site 661, transition to *C. rugosus*, 418a
 Atlantic Ocean, eastern tropical: Site 664, 627a
 Sierra Leone Rise: Site 665, last occurrence, 745a
 Sierra Leone Rise: Site 666, 797a
 Sierra Leone Rise: Site 667, 840a
Ceratolithus rugosus
 Atlantic Ocean, eastern tropical: Site 657, transition from *C. acutus* to, 39a
 Atlantic Ocean, eastern tropical: Site 661, transition from *C. acutus* to, 418a
 Atlantic Ocean, eastern tropical: Site 664, 627a
 Sierra Leone Rise: Site 666, 797a
 preservation, 796a
 Sierra Leone Rise: Site 667, first occurrence, 840a
 Chenopodiaceae, Atlantic Ocean, eastern tropical: Site 658, influx frequency spectrum, 101b, 102b, 103b
Chiastozygus litterarius, Atlantic Ocean, eastern tropical: Site 661, 69b
Chiloguembelina spp.
 Sierra Leone Rise: Site 667, 286b
 last occurrence, 842a
 Site 366, 284b
Cibicoides spp., Site 552, isotopic record, 158b, 163b
Cibicoides wuellerstorfi, Atlantic Ocean, eastern tropical: Site 658, oxygen isotope records, 150b
Coccolithus miopelagicus, Atlantic Ocean, eastern tropical: Site 659, 231a
Coccolithus pelagicus
 Atlantic Ocean, eastern tropical: Site 662, 494a
 Sierra Leone Rise: Site 667, 62b
 Sierra Leone Rise: Site 668, 62b
Coscinodiscus lewisianus similis, Sierra Leone Rise: Site 667, 843a
Crenolithus daronicooides, Atlantic Ocean, eastern tropical, 62b
Cretarhabdus currirellus, Atlantic Ocean, eastern tropical: Site 661, 67b
Cribracorona gallica, Atlantic Ocean, eastern tropical: Site 661, 69b
Cribrosphaerella ehrenbergii, Atlantic Ocean, eastern tropical: Site 661, 67b
Cyclicargolithus abisectus, Sierra Leone Rise: Site 667, acme interval, 841a
Cyclicargolithus floridanus
 Atlantic Ocean, eastern tropical: Site 659, last occurrence, 231a
 Pacific Ocean, equatorial: Site 574, abundance, 13b, 16b
 Sierra Leone Rise: Site 667, 17b–18b, 22b
 abundance, 10b–11b, 12b, 16b
 Cyperaceae
 Atlantic Ocean, eastern tropical: Site 658, ETP data, 99b, 101b
 Sahel-Saharan boundary, 94b
 source area, 101b
 Diatoms
 abundance estimates, 23a
 Atlantic Ocean, eastern tropical: Site 657, 41a, 43a
 abundance, 150b–151b, 154b–156b
 biostratigraphy, 24b, 29b–31b
 distribution, 151b
 zonation, 26b–28b
 Atlantic Ocean, eastern tropical: Site 658, 118a
 abundance, 153b, 150b–151b, 149b, 154b–156b
 assemblage zones, 151b–152b
 biostratigraphy, 24b, 26b, 29b–31b
 distribution, 152b
 surface-water productivity, 24b
 transportation, 156b
 zonation, 26b–28b
 Atlantic Ocean, eastern tropical: Site 659, 232a
 biostratigraphy, 26b
 zonation, 26b–28b
 Atlantic Ocean, eastern tropical: Site 660, 339a–340a
 biostratigraphy, 26b, 29b–31b
 zonation, 26b–28b
 Atlantic Ocean, eastern tropical: Site 661, 419a
 biostratigraphy, 30b
 Campanian/Maestrichtian boundary, 39b
 zonation, 26b–28b
 Atlantic Ocean, eastern tropical: Site 662, 495a–496a
 abundance, 144b, 145b, 146b
 biostratigraphy, 29b–31b, 32b
 glacial/interglacial cycles, 32b
 monsoon circulation effects, 143b, 146b
 sedimentation rate, marker species, 497a
 zonation, 26b–28b, 493a
 Atlantic Ocean, eastern tropical: Site 663
 biostratigraphy, 32b
 glacial/interglacial cycles, 562a, 564a
 zonation, 26b–28b, 562a, 563a
 Atlantic Ocean, eastern tropical: Site 664, 627a–628a
 abundance, 144b, 145b, 146b
 biostratigraphy, 29b–31b, 32b
 monsoon circulation effects, 143b, 146b
 slumped material, 628a
 zonation, 26b–28b, 625a, 626a
 Atlantic Ocean, eastern tropical
 biostratigraphy, 23b, 29b–31b
 magnetostratigraphic correlation, 33b
 siliceous deposition, 33b
 glacial/interglacial changes, 495a
 sedimentation rate, marker species, Atlantic Ocean, eastern tropical: Site 658, 120a, 122a
 Sierra Leone Rise: Site 665, 747a
 biostratigraphy, 29b–31b, 32b
 zonation, 26b–28b, 748a
 Sierra Leone Rise: Site 666, 797a
 biostratigraphy, 33b
 zonation, 26b–28b, 797a
 Sierra Leone Rise: Site 667, 842a–843a
 biostratigraphy, 29b–31b, 33b

- calcareous oozes, 842a
 correlation, equatorial Pacific, 842a
 zonation, 26b-28b, 839a, 840a
- Sierra Leone Rise: Site 668, 935a
 biostratigraphy, 29b-31b, 33b
 zonation, 26b-28b
- windblown freshwater taxa, 495a
- zonation
 magnetostratigraphic correlation, 20a
 species events, 21a-22a
 tropical, 19a-20a
- Dictyococcites bisectus*, Atlantic Ocean,
 eastern tropical: Site 659, 231a
- Discoaster asymmetricus*
 Atlantic Ocean, eastern tropical: Site
 657, 37a
 Atlantic Ocean, eastern tropical: Sites
 658, 659, 662, 127b-129b
 abundance, 136b
 Atlantic Ocean N, 141b
D. tamalis taxonomic affinity, Atlantic
 Ocean, eastern tropical, 132b
 Sierra Leone Rise: Site 667, 840a
 Site 552, 127b-129b
 abundance, 133b
 Site 607, 127b-129b
 abundance, 136b
- Discoaster barbadiensis*, Atlantic Ocean,
 eastern tropical: Site 661, 418a
- Discoaster berggrenii*, Atlantic Ocean,
 eastern tropical: Site 659, 231a
- Discoaster berggrenii/D. quinqueramus*,
 Sierra Leone Rise: Site 667, 841a
- Discoaster brouweri*
 Atlantic Ocean, eastern tropical: Site
 607, extinction, 125b
 Atlantic Ocean, eastern tropical: Site
 657, 37a
 Atlantic Ocean, eastern tropical: Site
 658, 122a, 126b, 129b
 abundance, 132b
 extinction, 124b, 131b
 last occurrence, 117a
 Atlantic Ocean, eastern tropical: Site
 659, 126b
 abundance, 122b, 128b, 132b
 extinction, 131b
 Atlantic Ocean, eastern tropical: Site
 660, last occurrence, 338a
 Atlantic Ocean, eastern tropical: Site
 661, last occurrence, 418a
 Atlantic Ocean, eastern tropical: Site
 662
 abundance, 131b, 132b
 extinction, 131b
 last occurrence, 49b, 191b, 494a
 Atlantic Ocean, eastern tropical: Site
 663, 563a
 Atlantic Ocean, eastern tropical: Site
 664, 625a
 Atlantic Ocean N, 141b
 Sierra Leone Rise: Site 665, 745a
 Sierra Leone Rise: Site 666, last occur-
 rence, 797a
 Sierra Leone Rise: Site 667, 840a
 Site 552, 126b
 abundance, 130b, 132b, 133b
 extinction, 131b
 Site 607
 abundance, 127b, 132b
 extinction, 131b
 Site 662, 126b
- Discoaster druggii*, Atlantic Ocean, east-
 ern tropical: Site 659, 231a
- Discoaster hamatus*
 Atlantic Ocean, eastern tropical: Site
 659, 231a
 Atlantic Ocean, eastern tropical: Site
 661, last occurrence, 418a
- Discoaster neohamatus*, Sierra Leone
 Rise: Site 667, last occurrence,
 840a-841a
- Discoaster pentaradiatus*
 Atlantic Ocean, eastern tropical: Site
 657, 37a
 Atlantic Ocean, eastern tropical: Site
 658, 117a, 126b-127b
 abundance, 134b
 extinction, 140b
 Atlantic Ocean, eastern tropical: Site
 659, 126b-127b, 230a
 abundance, 134b
 Atlantic Ocean, eastern tropical: Site
 660, last occurrence, 338a
 Atlantic Ocean, eastern tropical: Site
 661, last occurrence, 418a
 Atlantic Ocean, eastern tropical: Site
 662, 126b
 abundance, 134b
 last occurrence, 494a-495a
 reworked specimens, 125b
 Atlantic Ocean, eastern tropical: Site
 663, last occurrence, 563a-564a
 Atlantic Ocean, eastern tropical: Site
 664, 625a
 Atlantic Ocean N, 141b
 and *D. surculus*, inverse abundance rela-
 tionship, 127b, 131b
 Sierra Leone Rise: Site 665, last occur-
 rence, 745a
 Sierra Leone Rise: Site 666, 797a
 Sierra Leone Rise: Site 667, 840a
 Site 552, 126b
 abundance, 133b, 134b
 Site 607, 126b
 abundance, 134b
- Discoaster quinqueramus*
 Atlantic Ocean, eastern tropical: Site
 657, 39a, 40a
 Atlantic Ocean, eastern tropical: Site
 659, 230a-231a
 Atlantic Ocean, eastern tropical: Site
 664, 627a
 Sierra Leone Rise: Site 665, 745a
 Sierra Leone Rise: Site 667, 839a, 840a,
 841a
- Discoaster surculus*
 Atlantic Ocean, eastern tropical: Site
 658, 117a, 126b-127b
 abundance, 135b
 extinction, 140b
 Atlantic Ocean, eastern tropical: Site
 659, 126b-127b
 abundance, 123b, 135b
 Atlantic Ocean, eastern tropical: Site
 661, last occurrence, 418a
 Atlantic Ocean, eastern tropical: Site
 662
 abundance, 135b
 extinction, 125b
 last occurrence, 494a-495a
 and *D. pentaradiatus*, inverse
 abundance relationship, 127b, 131b
 Sierra Leone Rise: Site 666, 796a, 797a
 Sierra Leone Rise: Site 667, 840a
 Site 552, 126b-127b
 abundance, 133b, 135b
 Site 607, 126b-127b
 abundance, 135b
 extinction, 125b
- Site 662, 126b-127b
- Discoaster tamalis*
 Atlantic Ocean, eastern tropical: Site
 657, 37a
 Atlantic Ocean, eastern tropical: Site
 658, 117a, 127b-129b
 abundance, 136b, 137b
 last occurrence, 122a
 Atlantic Ocean, eastern tropical: Site
 659, 127b-129b, 230a
 abundance, 136b, 137b
 extinction, 122b-123b
 Atlantic Ocean, eastern tropical: Site
 660, last occurrence, 338a, 341a
 Atlantic Ocean, eastern tropical: Site
 662, 127b-129b
 abundance, 136b, 137b
 last occurrence, 494a-495a
D. asymmetricus taxonomic affinity, At-
 lantic Ocean, eastern tropical, 132b
 North Atlantic, 141b
 Sierra Leone Rise: Site 666, 797a
 Sierra Leone Rise: Site 667, 840a
 Site 552, 127b-129b
 abundance, 133b, 136b, 137b
 Site 607, 127b-129b
 abundance, 136b, 137b
- Discoaster triradiatus*
 Atlantic Ocean, eastern tropical: Site
 658, 126b, 129b
 extinction, 124b
 last occurrence, 117a
 Atlantic Ocean, eastern tropical: Site
 659, 126b
 abundance, 122b, 128b
 acme interval, 230a
 Atlantic Ocean, eastern tropical: Site
 661, last occurrence, 418a
 Atlantic Ocean, eastern tropical: Site
 662, 126b
 abundance, 131b
 last occurrence, 494a
 Atlantic Ocean, eastern tropical: Site
 663, acme interval, 563a
 Atlantic Ocean, eastern tropical: Site
 664, 625a
 North Atlantic, 141b
 Sierra Leone Rise: Site 665, 745a
 Sierra Leone Rise: Site 666, last occur-
 rence, 797a
 Sierra Leone Rise: Site 667, acme inter-
 val, 840a
 Sierra Leone Rise: Site 668, 935a
 Site 552, 126b
 abundance, 130b, 133b
 Site 607, 126b
 abundance, 127b
- Discoaster triradiatus* acme zone, Atlantic
 Ocean, eastern tropical: Site 662,
 first occurrence, 191b
- Discoaster*
 Atlantic Ocean, eastern tropical, 126b-129b
 abundance, 121b, 138b
 events, 123b
 function, 136b-137b
 Site 552, 125b-126b
 abundance, 121b, 138b
 Site 607, 126b-129b
 abundance, 121b, 138b
- Eiffellithus eximius*, Atlantic Ocean, east-
 ern tropical: Site 661, last occur-
 rence, 418a
- Eiffellithus turriseiffeli*, Atlantic Ocean,
 eastern tropical: Site 661, 68b

PALEONTOLOGICAL INDEX

- Emiliania huxleyi*
Atlantic Ocean, eastern tropical: Site 657, 37a
Atlantic Ocean, eastern tropical: Site 659, first occurrence, 230a
Atlantic Ocean, eastern tropical: Site 660, absence of, 337a
Atlantic Ocean, eastern tropical: Site 664, first occurrence, 625a
- Ephedra*
Atlantic Ocean, eastern tropical: Site 658
ETP data, 99b
influx frequency spectrum, 102b
- Epistominella umbonifera*, Sierra Leone Rise: Site 665, 746a
- Ericsonia obruta*/*Ericsonia subdisticha* group, Sierra Leone Rise: Site 667, 841a
- Ethmodiscus rex*, Atlantic Ocean, eastern tropical: Site 658, 154b
- Foraminifer/ *Padani* ratio, 114b
- Gephyrocapsa* spp., Atlantic Ocean, eastern tropical: Site 657, 37a, 39b, 840a
- Globigerina anguliseturalis*
Sierra Leone Rise: Site 667, first occurrence, 842a
Site 366, 284b
- Globigerina bulloides*
Atlantic Ocean, eastern tropical: Sites 657-659, 73b
Atlantic Ocean, eastern tropical: Site 658, 117a
Atlantic Ocean, eastern tropical: Site 660, 339a
Atlantic Ocean, eastern tropical: Site 662
abundance, 198b, 199b-201b
sea-surface temperature estimates, 193b, 194b
- Globigerina nepenthes*
Atlantic Ocean, eastern tropical: Site 657, last occurrence, 41a
Atlantic Ocean, eastern tropical: Site 659
first occurrence, 232a, 234a
last occurrence, 231a, 234a
Atlantic Ocean, eastern tropical: Site 660, 339a
Sierra Leone Rise: Site 665, last occurrence, 750a
- Globigerinatella calida* zone, Atlantic Ocean, eastern tropical: Site 658, 117a
- Globigerinatella insueta*, Sierra Leone Rise: Site 667, 287b, 294b
- Globigerinoides obliquus*
Atlantic Ocean, eastern tropical: Site 658, 117a
Atlantic Ocean, eastern tropical: Site 660, 339a
Atlantic Ocean, eastern tropical: Site 662, 495a
Atlantic Ocean, eastern tropical: Site 663, last occurrence, 564a
Sierra Leone Rise: Site 667, last occurrence, 841a
- Globigerinoides ruber*
Atlantic Ocean, eastern tropical: Site 662
abundance, 198b, 199b-201b
dissolution control, 197b
oxygen isotope record, 194b, 195b, 196b-197b
sea-surface temperature estimates, 193b, 194b, 195b
Atlantic Ocean, eastern tropical: Site 663, oxygen isotope record, 215b, 216b
- Globigerinoides sacculifer*
Atlantic Ocean, eastern tropical: Site 662
abundance, 198b, 199b-201b
sea-surface temperature estimates, 193b, 194b
- Globigerinoides* spp., Site 366, 284b
- Globobulimina auriculata*, Atlantic Ocean, eastern tropical: Site 662, 495a
- Globocassidulina subglobosa*
Sierra Leone Rise: Site 665, 746a
Site 552, isotopic record, 163b
- Globoquadrina altispira*, Atlantic Ocean, eastern tropical, 80b
- Globoquadrina dehiscens*, Atlantic Ocean, eastern tropical: Site 659, last occurrence, 231a
- Globorotalia crassaformis*, Atlantic Ocean, eastern tropical, 80b
- Globorotalia fohsi fohsi*, Sierra Leone Rise: Site 667, 287b
- Globorotalia fohsi lobata*, Sierra Leone Rise: Site 667, 287b
- Globorotalia inflata*
Atlantic Ocean, eastern tropical: Site 657, first occurrence, 40a
Atlantic Ocean, eastern tropical: Site 658, first occurrence, 117a
Atlantic Ocean, eastern tropical: Site 659, first occurrence, 231a
Atlantic Ocean, eastern tropical: Site 662, 75b, 495a
abundance, 198b, 199b-201b
sea-surface temperature estimates, 194b-195b
Atlantic Ocean, eastern tropical: Site 663, first occurrence, 564a
Atlantic Ocean, eastern tropical: Site 664, 75b
Atlantic Ocean, eastern tropical, 80b
Sierra Leone Rise: Site 667, first occurrence, 76b
- Globorotalia kugleri*
Sierra Leone Rise: Site 667, 287b, 294b
last occurrence, 842a
Site 366, 284b
- Globorotalia margaritae*
Atlantic Ocean, eastern tropical: Site 657, last occurrence, 41a
Atlantic Ocean, eastern tropical: Site 659
first occurrence, 231a
last occurrence, 234a
Atlantic Ocean, eastern tropical: Site 660, 75b, 339a
Atlantic Ocean, eastern tropical: Site 661, 75b
absence, 419a
Atlantic Ocean, eastern tropical: Sites 662-664, last occurrence, 75b, 495a
Atlantic Ocean, eastern tropical, 80b
- Globorotalia miocenica*
Atlantic Ocean, eastern tropical: Site 657, last occurrence, 40a
Atlantic Ocean, eastern tropical: Site 658, absence, 122a
Atlantic Ocean, eastern tropical: Site 662, 495a
last occurrence, 191b
- Atlantic Ocean, eastern tropical, 80b
- Globorotalia nepenthes*
Atlantic Ocean, eastern tropical: Site 660, 75b
Atlantic Ocean, eastern tropical: Site 661, 75b
- Globorotalia opima opima*, Sierra Leone Rise: Site 667, absence, 842a
- Globorotalia peripheroacuta*, Site 366, 285b
- Globorotalia puncticulata*
Atlantic Ocean, eastern tropical: Site 657, first occurrence, 41a
Atlantic Ocean, eastern tropical: Site 662, 495a
Atlantic Ocean, eastern tropical, 80b
- Globorotalia triangula*, Atlantic Ocean, eastern tropical: Site 664, 75b
- Globorotalia truncatulinoides*
Atlantic Ocean, eastern tropical: Site 664, first occurrence, 627a
Atlantic Ocean, eastern tropical, 80b
Sierra Leone Rise: Site 665, 76b
- Globorotalia truncatulinoides* zone
Atlantic Ocean, eastern tropical: Site 657, 40a
Atlantic Ocean, eastern tropical: Site 658, 117a
Atlantic Ocean, eastern tropical: Site 659, 231a
Atlantic Ocean, eastern tropical: Site 660, 339a
Atlantic Ocean, eastern tropical: Site 662, 495a
Atlantic Ocean, eastern tropical: Site 663, 564a
Sierra Leone Rise: Site 665, 745a
Sierra Leone Rise: Site 667, 841a
Sierra Leone Rise: Site 668, 935a
- Helicopontosphaera ampliaperata*, Sierra Leone Rise: Site 667, 19b
- Helicosphaera ampliaperata*
Atlantic Ocean, eastern tropical: Site 659, 42b, 231a
Pacific Ocean, equatorial: Site 574, last occurrence, 13b
Sierra Leone Rise: Site 667, 18b-19b, 22b, 841a
abundance, 11b, 13b
last occurrence, 16b
- Helicosphaera carteri*
Atlantic Ocean, eastern tropical: Site 662, 62b
Atlantic Ocean, eastern tropical: Site 663, 62b
- Helicosphaera recta*, Sierra Leone Rise: Site 667, 841a
- Helicosphaera sellii*
Atlantic Ocean, eastern tropical: Site 658, 117a
last occurrence, 123a
Atlantic Ocean, eastern tropical: Site 659, 230a
Atlantic Ocean, eastern tropical: Site 662, 494a
Atlantic Ocean, eastern tropical: Site 663, 563a
Sierra Leone Rise: Site 666, 796a-797a
Sierra Leone Rise: Site 667, 840a
Sierra Leone Rise: Site 668, 935a
- Hemiaulus gondolaformis* zone, Atlantic Ocean, eastern tropical: Site 660, 340a

- Hoeglundina elegans*
Atlantic Ocean, eastern tropical: Site 658, 118a
Atlantic Ocean, eastern tropical: Site 659, first occurrence, 232a
Sierra Leone Rise: Site 667, 842a
- Lithraphidites quadratus* zone, Atlantic Ocean, eastern tropical: Site 661, 39b
- Manivitella pemmatoidea*, Atlantic Ocean, eastern tropical: Site 661, 69b
- Melosira*
Atlantic Ocean, eastern tropical: Site 662, abundance, 144b, 145b, 146b
Atlantic Ocean, eastern tropical: Site 664, abundance, 145b, 146b, 627a
Atlantic Ocean, equatorial, transport, 143b
- Mesocena quadrangula*
Atlantic Ocean, eastern tropical: Site 662, last occurrence, 495a, 495a–496a
Atlantic Ocean, eastern tropical: Site 664, last occurrence, 628a
- Microrhabdulus stradneri*, Atlantic Ocean, eastern tropical: Site 661, 66b
- Micula*, Atlantic Ocean, eastern tropical: Site 661, 418a
- Micula concava*, Atlantic Ocean, eastern tropical: Site 661, 66b
- Micula murus*, Atlantic Ocean, eastern tropical: Site 661, 66b
- Micula murus* zone, Atlantic Ocean, eastern tropical: Site 661, 39b, 49b, 418a
- Micula prinsii*
Atlantic Ocean, eastern tropical: Site 661, 66b
first occurrence, 421a
- Micula staurophora*, Atlantic Ocean, eastern tropical: Site 661, 66b
- Micula swastica*, Atlantic Ocean, eastern tropical: Site 661, 66b
- Neogloboquadrina acostaensis*
Atlantic Ocean, eastern tropical: Site 659, 232a
Atlantic Ocean, eastern tropical, 80b
- Neogloboquadrina dutertrei*
Atlantic Ocean, eastern tropical: Site 662
abundance, 198b, 199b–201b
sea-surface temperature estimates, 193b, 194b
- Neogloboquadrina humerosa*, Atlantic Ocean, eastern tropical, 83b
- Neogloboquadrina humerosa* zone, Atlantic Ocean, eastern tropical: Site 661, 419a
- Neogloboquadrina pachyderma*
Atlantic Ocean, eastern tropical: Sites 657–659, 75b
Atlantic Ocean, eastern tropical: Site 662
abundance, 198b, 199b–201b
sea-surface temperature estimates, 193b, 194b
- Nephrolithus frequens*, Atlantic Ocean, eastern tropical: Site 661, 418a
- Nitzschia fossilis*, Atlantic Ocean, eastern tropical: Site 662, last occurrence, 495a–496a
- Nitzschia jouseae* zone
Atlantic Ocean, eastern tropical: Site 658, 24b, 118a, 122a
Atlantic Ocean, eastern tropical: Site 662, 496a
Atlantic Ocean, eastern tropical: Site 663, 32b, 564a
Atlantic Ocean, eastern tropical: Site 664, 628a
- Nitzschia jouseae/Nitzschia marina* zonal boundary, Atlantic Ocean, eastern tropical: Site 658, 24b
- Nitzschia marina* zone
Atlantic Ocean, eastern tropical: Site 658, 24b, 118a
Atlantic Ocean, eastern tropical: Site 662, 32b, 496a
Atlantic Ocean, eastern tropical: Site 663, 32b, 564a
Atlantic Ocean, eastern tropical: Site 664, 32b, 628a
- Nitzschia reinholdii*
Atlantic Ocean, eastern tropical: Site 658, last occurrence, 24b
Pacific Ocean, eastern equatorial, 120a
- Nitzschia reinholdii* zone
Atlantic Ocean, eastern tropical: Site 658, 24b, 118a
Atlantic Ocean, eastern tropical: Site 662, 32b, 495a, 496a
Atlantic Ocean, eastern tropical: Site 663, 32b, 564a
Atlantic Ocean, eastern tropical: Site 664, 32b, 627a, 628a
Sierra Leone Rise: Site 665, 32b, 747a
Sierra Leone Rise: Site 667, 842a
- Nitzschia reinholdii/Pseudoenotia doliolus* zonal boundary, Sierra Leone Rise: Site 667, 33b
- Orbulina saturalis*, Site 366, 285b–286b
- Orthomorphina*
Atlantic Ocean, eastern tropical: Site 658, 117b
last occurrence, 113b
Atlantic Ocean, eastern tropical: Site 659, last occurrence, 113b
- Orthomorphina himerensis*, Atlantic Ocean, eastern tropical: Site 659, 232a
- Paragloborotalia opima nana*, Sierra Leone Rise: Site 667, 287b, 294b
- Paragloborotalia opima opima*
Sierra Leone Rise: Site 667, 294b
Site 366, 284b
- Phytoliths, Atlantic Ocean, eastern tropical, 146b
- Planktonic foraminifers
abundance estimates, 22a
Atlantic Ocean, eastern tropical: Site 657, 40a–41a, 71b–73b
age-depth determinations, 76b
biostratigraphy, 75b
distribution, 77b
preservation, 75b
Atlantic Ocean, eastern tropical: Site 658, 117a–118a
age-depth determinations, 76b
biostratigraphy, 71b–73b, 75b
distribution, 78b, 79b
Atlantic Ocean, eastern tropical: Site 659, 80b
age-depth determinations, 76b
biostratigraphy, 71b–73b, 75b
preservation, 75b
- zonation, 229a, 230a
Atlantic Ocean, eastern tropical: Site 660
age-depth determinations, 80b
biostratigraphy, 71b–73b, 75b
distribution, 81b
zonation, 338a
Atlantic Ocean, eastern tropical: Site 661
age-depth determination, 80b
biostratigraphy, 71b–73b, 75b
distribution, 81b
zonation, 417a
Atlantic Ocean, eastern tropical: Site 662
age-depth determination, 83b
biostratigraphy, 71b–73b, 75b
distribution, 84b
sea-surface temperature estimates, 187b–206b
zonation, 493a, 494a
Atlantic Ocean, eastern tropical: Site 663
biostratigraphy, 71b–73b, 75b
cold- and warm-water fluctuations, 562a
distribution, 85b
reworked species, 76b
zonation, 562a, 563a
Atlantic Ocean, eastern tropical: Site 664, 80b
biostratigraphy, 71b–73b, 75b
distribution, 86b
slumped material, 627a
zonation, 625a, 626a
Atlantic Ocean, eastern tropical accumulation rate, 73b
cool-water influence, 76b
datums, published ages, 91b
dissolution, 73b, 80b
glacial/interglacial cycles, 75b
diachronism, 76b
M9–M13 zones, Atlantic Ocean, eastern tropical: Site 659, 231a–232a
M11–M13 zones
Atlantic Ocean, eastern tropical: Site 664, 627a
Sierra Leone Rise: Site 667, 842a
Miocene/Pliocene boundary, Atlantic Ocean, eastern tropical: Site 661, 415a
Oligocene/Miocene boundary, Sierra Leone Rise: Site 667, 842a
PL1–PL3 zones, Sierra Leone Rise: Site 666, 797a
PL1–PL6 zones
Atlantic Ocean, eastern tropical: Site 657, 40a–41a
Atlantic Ocean, eastern tropical: Site 659, 231a–232a
Atlantic Ocean, eastern tropical: Site 661, 419a
Atlantic Ocean, eastern tropical: Site 664, 627a
Sierra Leone Rise: Site 667, 841a–842a
PL2–PL6 zones
Atlantic Ocean, eastern tropical: Site 658, 117a–118a
Atlantic Ocean, eastern tropical: Site 660, 339a
Atlantic Ocean, eastern tropical: Site 662, 495a
PL3–PL6 zones
Atlantic Ocean, eastern tropical: Site

PALEONTOLOGICAL INDEX

- 663, 564a
Sierra Leone Rise: Site 665, 745a–746a
sedimentation rate, marker species
Atlantic Ocean, eastern tropical: Site 658, 122a
Atlantic Ocean, eastern tropical: Site 659, 234a
Sierra Leone Rise: Site 665, 750a
Sierra Leone Rise: Site 667, 844a–845a
Sierra Leone Rise: Site 665
biostratigraphy, 71b–73b, 75b
distribution, 88b
zonation, 748a
Sierra Leone Rise: Site 666
biostratigraphy, 71b–73b, 76b
distribution, 89b
reworked species, 76b
zonation, 796a
Sierra Leone Rise: Site 667, 80b
age-depth determination, 87b
biostratigraphy, 71b–73b, 76b, 286b–287b
distribution, 90b
isotopic record, 287b–288b
missing zonal markers, 842a
N9–N16 zones, 287b
P19–P21 zones, 286b
zonation, 839a, 840a
Sierra Leone Rise: Site 668, 935a
biostratigraphy, 71b–73b, 76b
distribution, 91b
zonation, 935a
Sierra Leone Rise, accumulation rate, 73b
Site 366
biostratigraphy, 283b–286b
isotopic record, 287b–288b
Miocene unconformity, 285b
Oligocene/Miocene boundary, 284b
zonation
Neogene, 74b
species events, 20a
tropical, 19a
Plectofrondicularia, Atlantic Ocean, eastern tropical: Site 658, last occurrence, 113b
Plectofrondicularia advena, Atlantic Ocean, eastern tropical Site 658, 117b
Pleurostomella, Atlantic Ocean, eastern tropical: Sites 658–659, 113b
Pleurostomella brevis, Atlantic Ocean, eastern tropical: Site 658, 117b
Poaceae
Atlantic Ocean, eastern tropical: Site 658, 94b
ETP data, 99b
Podocarpus, Atlantic Ocean, eastern tropical: Site 661, 94b
Podocyrtes chalara zone, Atlantic Ocean, eastern tropical: Site 660, 340a
Podocyrtes goetheana zone, Atlantic Ocean, eastern tropical: Site 660, 340a
Podocyrtes mitra zone, Atlantic Ocean, eastern tropical: Site 660, 340a
Pollen and spores
Atlantic Ocean, eastern tropical: Site 658
Brunhes epoch changes, 99b–100b
Chenopodiaceae–Amaranthaceae influx frequency spectrum, 101b, 102b
clustering groups, 94b, 96b
concentration, 94b, 106b–111b
correlation, Tenaghi Philippon sequence, 100b–101b
glacial/interglacial cycles, 93b, 97b–99b, 100b–101b
Group A, 104b
Group B–F, 105b
isotopic stratigraphy, 94b, 95b, 96b–97b
pollen diagrams, 95b, 96b–99b
Quaternary climatic deterioration, 100b
response to orbital forcing, 99b
Sahel-Saharan boundary shift, 94b, 101b
sedimentation rate and, 94b
terrestrial vs. marine sequences, 93b
trade-wind indicators, 96b
vegetational development, 99b
wind transport, 93b, 98b, 104b
Praeorbulina glomerosa, Sierra Leone Rise: Site 667, 287b
Praeorbulina glomerosa zone, Atlantic Ocean, eastern tropical: Site 659, 232a
Prediscosphaera cretacea, Atlantic Ocean, eastern tropical: Site 661, 69b
Prediscosphaera grandis, Atlantic Ocean, eastern tropical: Site 661, 66b
Prediscosphaera majungae, Atlantic Ocean, eastern tropical: Site 661, 69b
Prediscosphaera spinosa, Atlantic Ocean, eastern tropical: Site 661, 69b
Pseudoemiliania lacunosa
Atlantic Ocean, eastern tropical: Site 659, last occurrence, 230a
Atlantic Ocean, eastern tropical: Site 660, 337a
Atlantic Ocean, eastern tropical: Site 664, last occurrence, 625a
Atlantic Ocean, eastern tropical, 62b
Sierra Leone Rise: Site 666, last occurrence, 796a
Sierra Leone Rise: Site 667, last occurrence, 840a
Sierra Leone Rise: Site 668, last occurrence, 935a
Pseudoemotia doliolus
Atlantic Ocean, eastern tropical: Site 658
first occurrence, 24b
Atlantic Ocean, eastern tropical: Site 662, first occurrence, 496a
Pseudoemotia doliolus zone
Atlantic Ocean, eastern tropical: Site 657, 24b, 43a
Atlantic Ocean, eastern tropical: Site 658, 24b, 118a
Atlantic Ocean, eastern tropical: Site 660, 26b, 339a
Atlantic Ocean, eastern tropical: Site 662, 32b, 495a
Atlantic Ocean, eastern tropical: Site 663, 32b, 564a
Atlantic Ocean, eastern tropical: Site 664, 32b, 627a
Sierra Leone Rise: Site 665, 32b, 747a
Sierra Leone Rise: Site 667, 33b, 842a
Sierra Leone Rise: Site 668, 33b
Pseudohastigerina
Sierra Leone Rise: Site 667, 286b
Site 366, 284b
Pulleniatina, Atlantic Ocean, eastern tropical, 80b
Pulleniatina praecursor, Atlantic Ocean, eastern tropical: Site 662, last occurrence, 495a
Pyxilla caput avis, Atlantic Ocean, eastern tropical: Site 660, 340a
Quadrum gothicum, Atlantic Ocean, eastern tropical: Site 661, 67b
Quadrum sissinghii, Atlantic Ocean, eastern tropical: Site 661, 66b
Quadrum trifidum
Atlantic Ocean, eastern tropical: Site 661, 67b
Atlantic Ocean, eastern tropical: Site 661, 39b, 49b
Radiolarians, Atlantic Ocean, eastern tropical: Site 660, 336a–337a, 340a
Reinhardtites levis, Atlantic Ocean, eastern tropical: Site 661, 69b
Reticulofenestra minuta, Atlantic Ocean, eastern tropical: Site 659, 230a
Reticulofenestra pseudumbilica
Atlantic Ocean, eastern tropical: Site 657, 37a, 39a
Atlantic Ocean, eastern tropical: Site 659, 230a
Atlantic Ocean, eastern tropical: Site 660, last occurrence, 338a
Atlantic Ocean, eastern tropical: Site 662, last occurrence, 493a
Sierra Leone Rise: Site 666, 797a
Sierra Leone Rise: Site 667, 840a
Rhizophora, Atlantic Ocean, eastern tropical: Site 658, 94b
Rhizosolenia praebegonii, Atlantic Ocean, eastern tropical: Site 662, stratigraphic continuity, 495a
Rhizosolenia praebegonii zone, Atlantic Ocean, eastern tropical: Site 658, 118a
Rocella vigilans zone, Sierra Leone Rise: Site 667, 33b, 843a
Rossiella paleacea zone, Sierra Leone Rise: Site 667, 33b, 842a–843a
Silicoflagellates
Atlantic Ocean, eastern tropical: Site 662, 495a
Atlantic Ocean, eastern tropical: Site 664, 628a
Sphaeroidinellopsis seminulina
Atlantic Ocean, eastern tropical: Site 657, last occurrence, 40a–41a
Atlantic Ocean, eastern tropical: Site 658, first occurrence, 117a
Atlantic Ocean, eastern tropical: Site 660, 339a
Atlantic Ocean, eastern tropical, 80b
Sphenolithus abies, Atlantic Ocean, eastern tropical: Site 660, 338a
Sphenolithus belemnos
Pacific Ocean, equatorial: Site 574, abundance, 14b, 15b–16b
Sierra Leone Rise: Site 667, 22b, 841a abundance, 10b, 14b, 15b–16b
Sierra Leone Rise, co-occurrence, *S. heteromorphus*, 16b
Sphenolithus ciperoensis
Sierra Leone Rise: Site 667, 22b, 841a abundance, 9b, 10b, 15b
Sphenolithus heteromorphus
Atlantic Ocean, eastern tropical: Site 659, last occurrence, 231a
Atlantic Ocean, eastern tropical: Site 667, last occurrence, 841a
Pacific Ocean, equatorial: Site 574, abundance, 12b–13b

- Sierra Leone Rise: Site 667, 22b
abundance, 10b, 16b
- Sphenolithus neobies*, Atlantic Ocean,
eastern tropical: Site 660, 338a
- Sphenolithus predistentus*, Sierra Leone
Rise: Site 667, 841a
- Sphenolithus* sp., Sierra Leone Rise: Site
667, 19b, 22b
- Spiroplectammina* sp., Atlantic Ocean,
eastern tropical: Site 664, 628a
- Stilostomella*
Atlantic Ocean, eastern tropical: Site
658, 113b, 117b
Atlantic Ocean, eastern tropical: Site
659, last occurrence, 113b
extinction, environmental factors, 114b
- Tetralithus trifidus* zone, Atlantic Ocean,
eastern tropical: Site 661, 418a, 421a
- Thalassionema nitzschioides*
Atlantic Ocean, eastern tropical: Site
658, 150b
abundance, 154b
- Thalassionema nitzschioides parva*
Atlantic Ocean, eastern tropical: Site
657, 151b
Atlantic Ocean, eastern tropical: Site
658, 150b, 154b
- Thalassiosira convexa*
Atlantic Ocean, eastern tropical: Site
658, 118a
last occurrence, 24b, 122a
Atlantic Ocean, eastern tropical: Site
662, last occurrence, 496a
- Thoracosphaera* fragments, Atlantic
Ocean, eastern tropical: Site 661,
39b
- Triceratium barbadense*, Atlantic Ocean,
eastern tropical: Site 660, 30b,
339a-340a
- Triceratium brachiatum*, Atlantic Ocean,
eastern tropical: Site 660, 340a
- Triceratium schulzii*, Atlantic Ocean, east-
ern tropical: Site 660, 29b
- Triquetrorhabdulus carinatus*
Atlantic Ocean, eastern tropical: Site
659, 231a
Pacific Ocean, equatorial: Site 574
abundance, 13b
last occurrence, 15b
Sierra Leone Rise: Site 667, 11b-12b,
19b, 22b
abundance, 841a
last occurrence, 15b
Site 563, last occurrence, 15b
- Triquetrorhabdulus milowii*
Pacific Ocean, equatorial: Site 574,
abundance, 13b-14b, 17b
Sierra Leone Rise: Site 667, 12b, 19b,
22b
- Triquetrorhabdulus rioensis* n. sp.
Pacific Ocean, equatorial: Site 574,
abundance, 13b-14b, 17b
Sierra Leone Rise: Site 667, 19b-20b,
22b
first occurrence, 12b
- Triquetrorhabdulus rugosus*
Pacific Ocean, equatorial: Site 574,
abundance, 13b-14b, 17b
Sierra Leone Rise: Site 667, 20b, 22b
abundance, 11b
first occurrence, 12b
- Triquetrorhabdulus serratus*
Pacific Ocean, equatorial: Site 574
abundance, 13b-14b, 17b
first occurrence, 15b
Sierra Leone Rise: Site 667, 20b, 22b
first occurrence, 12b, 15b
- Turborotalia ampliapertura*, Sierra Leone
Rise: Site 667, 286b
- Watznaueria barnesae*, Atlantic Ocean,
eastern tropical: Site 661, 68b
- Zygodiscus spiralis*, Atlantic Ocean, east-
ern tropical: Site 661, 68b