INDEX

Abyssal fauna, benthonic foraminifera, 865
Acropura fragments, 18
Age determination, basis for, 12
Age/depth constancy, 710
Algal Crusts, 1051
Alkalinity, 401, 479, 802
Alula–Fartak Trench, 17, 127, 197, 203, 591, 827
  diabase in, 784
Amirante Ridge basalt, 784
Analytical Methods, interstitial water, 799
Andesitic lavas, 1061
Anomaly 3, 6
Aragonite, 805
Argo Fracture Zone, 480, 606, 608, 646
  Site Survey, 646
  Trace Element of basalts, 787
Ash layers, 1060, 1061
Assemblage 1, benthonic foraminifera, 867
Assemblage 2, benthonic foraminifera, 867
Assemblage 3, benthonic foraminifera, 867
Assemblage 4, benthonic foraminifera, 867
Augite, 205
  in olivine, tholeiitic, basalts, 391
  subalkali, basalts, 391
Bacterial sulphate reduction, 802
Baked zone sediment, basalt contact, 32
Barite, 1061
Basal metalliferous sediments, 1070
Basalt
  bulk density, 334
  Gulf of Aden, 784
  sonic velocity, 334
  trace element compositions, 784
  vesicular, 784
  Western Indian Ocean, 784
Basalt/sediment contact, 22
Basalts, olivine – tholeiitic, 391
  comparison of leg 24, 787
  compressional wave velocities of, 787
  subalkali, 391
Bekoma bidarfensis Zone, 398, 999
Benthonic, foraminifera, 23, 287, 333, 398, 475, 859, 867
  abyssal fauna, 865
  Assemblage 1, 867
  Assemblage 2, 867
  Assemblage 3, 867
  Assemblage 4, 867
  deep-water fauna, 865
Biostratigraphic Summary
  Site 231, 21
  Site 232, 129
  Site 233, 200
  Site 234, 253
  Site 235, 286
  Site 236, 331
  Site 237, 395
  Site 238, 474
Bitumen, 21, 29, 791
Bivalves, 287
Braarudosphaerids, nannofossils, 982
Bulk density,
  basalt, 334
  chert, 334
Buried evaporites, 800
Burruws, 18, 128, 200, 284, 285, 290, 329, 1065
Buryella climata Zone, Radiolaria, 99, 398
Calcareous fossils, preservation of, 704
Calcite, 1065
Calcium carbonate compensation depth, *See* carbonate compensation depth
Calucycletta costata Zone, 99, 476
Cannartus petterssoni Zone, 99, 476
Carbon and carbonate analysis, methods, 14
Carbonate compensation, 7, 234, 236, 237, 252, 253, 257, 834, 865
Carlsberg Ridge, 17, 327, 607
Catinaster coalithus Zone, 970, 993
Cenozoic nannofossil zonation, 969
Central Indian Ocean, Coarse fraction of sediments in, 674
Central Indian Ridge, 7, 471, 607
Central Western Indian Ocean,
  Abundance and preservation of microfossils, 1125
  Stratigraphic boundaries and accumulation rates, 1125
Ceratolithus acutus Zone, 22, 130, 474, 970, 977, 980, 993
  primus, 22, 130, 286, 331, 396, 474, 980, 990, 977
Ceratolithus rugosus Zone, 130, 286, 331, 396, 474, 970, 977, 980, 990
Ceratolithus tricorniculatus Zone, 22, 130, 331, 970, 977, 980, 991
Chagos-Laccadive Ridge, 7, 606, 646
Chain Ridge, 249, 286, 290
Chert, 395, 805, 1065, 1067
  bulk density, 334
Chiasmolithus gigas Zone, 396, 992
Chiasmolithus Grandis Zone, 396, 992
Chiasmolithus Solitus Zone, 396, 969, 992
Chlorinity, 802
Chlorite, 205, 1056, 1058
Circumpolar current, 1140
Clay minerals, occurrence in leg 24 sediments, 1056
Clinoptillolite, 804
Coarse fraction of sediments in,
  Central Indian Ocean, 674
  Gulf of Aden, 656
  Somali Basin, 674
Coccolith zonation, 995
Coccoliths *See* nannofossils
Compressional wave velocities of basalts, 787
Coscinodiscus yabei partial-range Zone, 894
CP index, 791
Cruciplacolithus tenuis Zone, 396, 870, 992
Crystallization differentiation, 772, 775
Cyclococcolithina macintyrei Zone, 22, 130, 201, 286, 331, 474, 977, 980, 982, 990, 991, 993
Deep-water fauna benthonic foraminifera, 865

Diabase,
dike, 784
site, 6, 767, 772, 827
Diagenetic structures, 1068
Diatom, correlation to other diatom sections, 895
Diatom zonation, 888–894
Diatoms,
epoch and age boundaries, 894
geochronological timescale, 894
nitzchia miocenica partial-range Zone, 893
nitzschia jouseae partial-range Zone, 892
Pseudoeutonia doliolus range Zone, 890
Rhizosolenia praebergomii partial-range Zone, 890
Roperia tesselata Zone, 888
Thalassiosira convexa partial-range Zone, 892
Time ranges of taxa and biostratigraphic zonation, 888
Discoaster acuhamatus/Discoaster bellus Zone, 22
Discoaster barbadiensis Zone, 332, 991
Discoaster bellus Zone, 253, 286, 331, 396, 970, 978, 990, 991, 992
Discoaster Berggrenii Zone, 22, 331, 474, 978, 991, 993
Discoaster diastypus Zone, 396, 992
Discoaster druggi Zone, 331, 474, 991, 992, 993
Discoaster exilis Zone, 22, 396, 978, 992, 993
Discoaster hamatus Zone, 22, 286, 474, 894, 978, 990, 991, 993
Discoaster kugleri Zone, 22, 286, 396, 978, 990, 992, 993
Discoaster lodoensis Zone, 332, 991
Discoaster mohleri Zone, 332, 867, 991
Discoaster multiradiatus Zone, 332, 396, 991, 992
Discoaster neohamatus Zone, 22, 970, 978, 992, 993
Discoaster pentaradiatus Zone, 130, 201, 474, 977, 980, 982, 992, 993
Discoaster sublodoensis Zone, 332, 391, 991, 992
Discoaster tamalis Zone, 22, 130, 201, 286, 396, 977, 980, 982, 992
Dissolution of foraminifera, 23
Dolomite, 1056
rhombs, 329, 394
Dorcadospyris alata Zone, 476, 999
Drilling mud usage, 811
Drilling operations, 9
Early Pliocene foraminifera, 834
Early/middle Miocene boundary, 474
Ellipsolithus macellus Zone, 969
Emiliania annula Zone, 970
Emiliania huxleyi Zone, 22, 396, 474, 977, 992
Eocene/Oligocene boundary, Site 236, 332
Eolian material, 1058
Epoch and age boundaries, diatoms, 894
Ericsonia subdisticha Zone, 991
Etching of nannofossils, 972
Evaporites, buried, 800
Fasciculithus tympaniformis Zone, 396, 992
Fault, 127
Feldspar, 1054
Ferrogabbros, 608
Ferromanganese oxide deposits, 1062
Fluvial material, 1058
Foraminifera
Assemblage 1, benthonic, 867
Assemblage 2, benthonic, 867
Assemblage 3, benthonic, 867
Assemblage 4, benthonic, 867
Abundance and preservation, 397, 475
Benthonic, 23, 231, 235, 253, 287, 333, 398
dissolution of, 23
Pliocene, 834, 837
Eocene, Zones P8/P7, 333
Late Pliocene, Zone N21, 834
Miocene, 831, 837
Miocene/Pliocene boundary, 832, 844
N4, 475, 837
N5, 475
Neogene, Site 232, 831
N8, 475, 837
N9, 475, 837
N10, 475, 844
N13, 475, 837
N14, 837
N17/N16 boundary, 831
N18, 286
N18/N17, 132, 397, 475, 831
N19/N18 boundary, 132, 397, 831, 832, 837, 841
N20-N19, lower Pliocene, 286
N21, upper Pliocene, 286
N21/N20-N19, 132, 286, 397, 475, 837
N22/N21 boundary, 132, 253, 286, 332, 397, 475, 830, 832, 837
Oligocene/Miocene boundary, N4/P22, 397, 841
Oligocene, P19, 475
Oligocene Zones, P22 to P20, 475
Oligocene/Miocene boundary, N4/P22, 475
P3/P2, 861
P4, 856
P7, 856
P10-P9, 856
P11, 856
P12, 856
P14, 856
P19, 856
P19, 856
P20, 856
P20, 856
P21, 856
P22, 856
P22/N3, 856
P22/N3, 856
Paleocene, 333, 397, 861
Pliocene, 475, 833, 834
Quaternary, 397, 475, 830, 831, 833, 836, 837
Globorotalia menardii Zone, 894
Geochronological time scale, diatoms, 894
Geologic and stratigraphic setting,
Site 231, 828
Site 232, 831
Site 233, 833
Site 234, 834
Site 235, 888
Site 236, 834
Site 237, 836
Site 238, 837

Geophysical measurements, methods, 9
Gephyrocapsa caribbeanica Zone, 22, 130, 200 286, 970 977, 980, 982, 990, 991
Gephyrocapsa oceanica Zone, nannoplankton, 22, 130, 200, 286, 331, 474, 970, 977, 980, 982, 990, 991, 992
Glauconite, 1055, 1056
Globorotalia menardii Zone 894
Grain-size analysis, methods, 14
Granites, 391
Graywacke sands, 1054
Graywackes, 1052
Gulf of Aden,
  abundance and preservation of microfussils, 1114
  age of lowest sediments, 1114
  basalt, 784
  sediment accumulation rates, 1114
  stratigraphic boundaries, 1114
  vesicular basalt, 784
Gypsum, 1062
Gypsum crystals, 1055
Half-degree square, 18, 591
Hartzburgite, 767, 775
Heat-flow, somali basin, 631
Heavy minerals, 1055
Helicopontosphaera ampliaperta Zone, 331, 396, 474, 972, 991, 992, 993
Helicopontosphaera reticulata Zone, 332, 392, 396, 991
Heliolithus kleinpellii Zone, 396, 992
Himalayas, 1058
Hydrostatic pressure, 787
Indus River, 1058
Interstitial water chemistry,
  methods, 11, 799
  seawater contamination in, 799
  Site 231, 135
  Site 231, 26
  Site 233, 202
  Site 234, 254
  Site 235, 289, 803
  Site 236, 334, 804
  Site 237, 401, 805
  Site 238, 479, 806
Iron oxides, 1062
Kaolinite, 1056
Kerogen analysis, 799
Late Neogene radiolarian stratigraphy, 999
Layer 2, 788
Lherzolite, 767, 775
Limestone, 8, 472
Lithologic classification, methods, 12
Lithologic summary,
  Site 231, 18
  Site 232, 128
  Site 233, 199
  Site 234, 251
  Site 235, 284
  Site 236, 329
  Site 237, 394
  Site 238, 472
Lithologies, correlation of, seismic profiles, 479
Lithology,
  Site 231, 1047
  Site 232, 1047
  Site 233, 1049
  Site 234, 1049
  Site 235, 1049
  Site 236, 1049
  Site 237, 1049
  Site 238, 1051
Lysolcline, 865, 867
Mafic dikes, 391
Magnetics, 591
Magnetite, 32
Manganese micronodules, 8, 238, 251, 252, 472, 1062, 1068
Nanno plankton *See* nannofossils
Mantle, 761
Mascarene plateau, 7, 391, 606, 641
Methane gas, 791
Mica, 1054
Microfacies, 861
Micronodules, 1062
Middle/late Miocene boundary, 286
Miocene/Pliocene boundary, 286, 331, 396, 397, 474, 837, 844, 894
Monimorillonite, 1056, 1058
Nannofossil, *Brarrud osphaerids,* 982
  Catinaster coalithus Zone, 993
  Cenozoic, 22, 130, 474, 969, 970, 980, 993
  Ceratolithus primus Zone, 22, 130, 286, 331, 396, 474, 977, 980, 990, 991, 992, 993
  Ceratolithus rugosos Zone, 130, 286, 331, 474, 970, 977, 980, 990, 991, 992, 993
  Ceratolithus tricornicolatus Zone, 130, 331, 970, 977, 980, 991
  Chiasmolithus gigas Zone, 396, 992
  Chiasmolithus grandis Zone, 396, 992
  Chiasmolithus solitus Zone, 396, 969
  Crociplacolithus Tenuis Zone, 396, 870, 992
  Cycloccolithina Macintyrei Zone, 22, 201, 130, 286, 331, 474, 977, 980, 982, 990, 991
  Discoaster barbadiensis Zone, 332, 991
  Discoaster bellus Zone, 253, 286, 331, 396, 970, 990, 991, 992, 993
  Discoaster berggrenii Zone, 22, 331, 474, 991, 993
  Discoaster diastypus Zone, 331, 396, 474, 991, 992, 993
  Discoaster exilis Zone, 22, 396, 993
  Discoaster hamatus Zone, 22, 286, 990, 991, 993
  Discoaster kugleri Zone, 22, 286, 396, 474, 894, 978, 990, 992, 993
  Discoaster lodoensis Zone, 332, 931
  Discoaster mohleri Zone, 332, 867
  Discoaster multiradiatus Zone 396, 992
  Discoaster multiraditus Zone, 332, 991
  Discoaster neohamatus Zone, 992
  Discoaster neohamatus Zone, 22, 970
  Discoaster pentaradiatus Zone, 130, 201, 474, 977, 980, 982, 992, 993
  Discoaster sublodoensis Zone, 332, 396, 991, 992

Discoaster tamalis Zone, 22, 130, 201, 286, 396, 977, 980, 990, 992
Discoaster berggrenii Zone, 978
Ellipsolithus macellus Zone, 969
Emiliania annula Zone, 970
Emiliania huxleyi Zone, 22, 396, 474
Ericsonia subdisticha Zone, 991
Etching, 972
Fascicolithus tympanifurmis Zone, 992
Gephyrocapsa caribbeanica Zone, 22, 130, 280, 286, 977, 982, 990, 991, 992
Glphyrocapsa oceanica Zone, 22, 130, 286, 331, 396, 474, 970, 977, 980, 982, 990, 991, 992
Helicoponiospahera reticolata Zone, 992
Helicopontospahera ampliaperta Zone, 331, 396, 474, 972, 992
Helicopontosphaera reticulata Zone, 332, 991
Heliolithus kleinpelli, 396, 992
Overgrowth, 972
Preferential dissolution, 969
Preservation, 332, 474
Pseudoemiliania laconosa Zone, 22, 130, 200, 286, 970, 976, 977, 980, 982, 990, 991
Reticulofenestra abisecta Zone, 253, 331, 474, 990, 991, 993
Reticolofenestra pseudoumbilica Zone, 22, 130, 253, 286, 331, 396, 970, 977, 980, 990, 993, 991
Spehnolthus predistentus Zone, 991
Sphenolithus ciperuensis Zone, 253, 331, 396, 991, 993
Sphenolithus distentus Zone, 332, 474, 991, 993
Sphenolithus reteromorphus Zone, 22, 253, 286, 331, 396, 494, 979, 990, 991, 992
Tribrachiatus oorthustplus Zone, 396, 992
Triquetrorhaboulus carinatos Zone, 990, 993
Triquetrorhabdulus rugosos Zone, 970
Navigation, 9
Nazareth bank, 471
Nitzchia miocenica partial-range Zone, diatoms, 893
Nitzschia jouseae partial-range Zone, *82, 891*
Northwest Somali Basin, 6, 249
Oligocene/Miocene boundary, 33, 331, 396, 474, 475, 972
Olivine-tholeiitic basalts, 391
Olivine, 32
Ommatartus antepenultimus Zone, 333, 476, 998, 999
Ommatartus penultimus Zone, Radiolaria, 398, 476, 999
Operations
Site 231, 18
Site 232, 128
Site 233, 199
Site 234, 250
Site 235, 283
Site 236, 328
Site 237, 392
Site 238, 471
Organic carbon content, kerogen analysis, 799
Organic shales, 799
Ostracode
abyssocythere, 1039
agrenocythere, 1038
agrenocythere radula, 1038
Bradleya dictyon, 1038
Neotlanticythere-suhmicythere, 1038
Poseidonamicus major, 1038
Psychrospheric fauna, 1038
Ostracode taxa, 1037
Owen Fracture Zone, 17, 249, 290
Palagonite, 1058
Palagonitized breccia, 767
Paleobathmmetry, 398, 859, 861, 867
Paleoceanography, 1139
Paleocene
lower bathyal, benthonic, foraminiferal, Assemblage 3, 867
lower neritic to upper bathyal, benthonic, foram, Assemblage 2, 867
Upper neritic, benthonic, foraminiferal, Assemblage 1, 867
Paleoenvironment, 1139
Paleogene, forams, 851, 853, 856
Paleotemperature, 976
Palygorskite, 804, 1056, 1058, 1064
Paraffin-napthene fraction, 799
Permeability, 804
Petroleum source bed, 791
Phormucyrtis striata striata Zone, 398
Physical properties,
methods, 12
Site 231, 133
Site 231, 24
Site 233, 201
Site 235, 287
Site 236, 333
Site 237, 398
Site 238, 476
Pillow basalts, 775
Plagioclase, 32, 205, 293
in subalkali, basalts, 391
in olivine-tholetitic basalts, 391
Planktonic foraminiferal zonation, basis for, 828
Planktonic/benthonic ratio, 865
Pleistocene/Pliocene boundary, 23, 397, 830, 837, 841
Plerocaniom prismatium Zone, 132
Pliocene, 201, 253, 475, 833, 834
Pliocene/Pleistocene boundary, 22, 23, 29, 130, 200, 286, 331, 831, 84
Podocyrtis ampla Zone, Radiolaria, 99, 398
Podocyrtis mitra Zone, Radiolaria, 99, 398
Preferential dissolution nannofossil, 969
Preservation, nannofossils, 332, 474
Preservation of, calcareous fossils, 704
Pristane/Phytane ratio, 799
Pseudoemiliania lacunosa Zone, 22, 286, 331, 976, 977, 980, 982, 990, 991, 992
Pseudoeunotia doliolus range Zone, 888, 890, 970
Pseudoemiliania lacunosa Zone, 130, 200
Psychrospheric fauna, 1038
Pterocanium prismatium Zone, 201, 287, 333, 398, 474, 475, 998, 999
Pteropods, 287
Pulse transmission method, 787
Pumice, 1058
Pyrite, 1056, 1065
Nodules, 285, 1068

Pyrolite, 767
Pyroxene, 32
Quartz, 1054
Quartzose sandstone, 827
Quartzose arkose, 1052
Quaternary, 201, 332, 398, 475, 830, 831, 833, 836
Radiolaria *Bekoma Bidarfensis* Zone, 398, 999
Buryella Clinata Zone, 398, 994
Calocycletia Costata Zone, 476, 999
Cannarius Petterssuni Zone, 476, 999
Dorcadospyris Alata Zone, 476, 999
Ommatartus antepenultimus Zone, 333, 476, 998, 999
Penultimus Zone, 398, 476, 999
Phormocyrtis striata striata Zone, 398
Plerocanium prismatiom Zone, 132
Podocyrtis ampla Zone, 398, 999
Podocyrtis mitra Zone, 398, 999
Pterocaniom prismation Zone, 201, 287, 333
Pterocanium prismatium Zone, 398, 474, 475, 998, 999
species list, 1000
Spongaster pentas Zone, 132, 201, 398, 475, 998, 999
Stichocorys peregrina Zone, 132, 398, 475, 998, 999
Theocampe mongolfieri Zone, 398, 999
Theocyrtis tuberosa Zone, 333, 998
Thyrusucyrtis triacantha Zone, 398, 999
Radiolarian stratigraphy, late Neogene, 999
Reduction, bacterial sulphate, 802
Relf, 1052
Regional distribution of coarse fraction components, 674
Reticulofenestra pseudoumbilica Zone, 130
Reticulofenestra abisecta Zone, 253, 331, 474, 990, 991, 993
Reticulofenestra pseudoumbilica Zone, 22, 253, 286, 331, 396, 474, 970, 977, 980, 990, 991, 992, 993
Rhizosolenia praebergomii Partial-range Zone, Diatoms, 890
Rhyolitic Lavas, 1061
Roperia tesselata Zone, 888
Salinity, 26, 135, 202, 289, 401, 802
of surface seawater, 334
Sandstone, 128, 1052
Quartzose, 827
Saturate/aromatic ratio, 799
Seawater contamination in, interstitial water, 799
Sediment-basalt contact, baked zone, 32
Sediment accumulation rates, Gulf of Aden, 1119
Sedimentation rate
Site 231, 6, 24, 29, 132, 820
Site 232, 831, 1054
Site 233, 833
Site 234, 7, 827, 834
Site 235, 7, 827, 834
Site 236, 7, 836, 867
Site 237, 398, 836
Site 238, 8, 474, 837
Sedimentation rates, age/depth constancy, 710
Sediments, color of, 1065
Seismic velocities, 788
Sedimentation rate, 6, 24, 29, 132, 828
Sonic velocity, 24, 133
Summary, 3
Site 232, 127
biostratigraphic summary, 129
foraminifera, 831
geologic and, stratigraphic setting, 831
lithologic summary, 128, 1047
nannofossil, 130, 979
operations, 128
radiolaria, 998
sedimentation rate, 6, 831, 1054
summary, 6
Site 233, 197
Alula-Fartak Trench, diabase, 784
biostratigraphic summary, 200
correlation of seismic reflection profiles and lithology, 203
diabase, 205
foraminifera, 201, 833
geologic and stratigraphic setting, 833
interstitial water chemistry, 202
lithologic summary, 199, 1049
Site 233,
nannoplankton, 200
operations, 199
physical properties, 201
Radiolaria, 201, 998
sedimentation rate, 833
sonic velocity, 201
summary, 6
Seychelles Bank, 391, 403
Sheba Ridge, 827
Shipboard Laboratory, methods, 9
Sill, diabase, 6
Siltstone, 1052
Site survey, 8, 637
Argo Fracture Zone, 646
Chagos-Laccadive Ridge, 646
Mascarene Plateau, 641
Somali Basin, 637
Site 231, 17
compressional wave velocity, basalt, 787
correlation of reflection profiles and lithology, 135
foraminifera, 22, 23, 130, 828
geologic and stratigraphic setting, 828
igneous rocks, 31
interstitial water chemistry, 26, 135
lithologic summary, 18, 1047
operations, 18
physical properties, 24, 133
radiolaria, 24, 132
Site 234, 249
biostratigraphic summary, 253
carbonate compensation depth, 7, 257
correlation of reflection profiles and lithology, 256
foraminifera, 253, 834
geologic and stratigraphic setting, 834
interstitial water chemistry, 254
lithologic summary, 251, 1049
nannofossil, 253, 990
operations, 250
Radiolaria, 998

sedimentation rates, 7, 827, 834
summary, 6
Site 235, 283
acoustic basement, 292
basalt, 289
biostratigraphic summary, 286
composition of basalts, 772
compressional wave velocity, basalt, 787
correlation of reflection profiles and lithology, 289
foraminifera, 286, 287, 834
geologic and stratigraphic setting, 888
interstitial pore water chemistry, 289, 803
lithologic summary, 284, 1049
Miocene/Pliocene boundary, 286
nannofossil, 286, 990
operations, 283
*P*H and alkalinity, 289
physical properties, 287
Pliocene/Pleistocene boundary, 286
radiolaria, 287, 999
salinity, 289
sedimentation rates, 7, 827, 834
sonobuoy, 284
sonic velocity, 287
summary, 7
Site 236, 327
acoustic impedance, 334
basalt basement, 391
biostratigraphic summary, 331
bulk density and porosity, 333
compressional wave velocity, basalt, 787
correlation of reflection profiles and lithologies, 334
diatoms, 896
foraminifera, 332, 836
geologic and stratigraphic setting, 834
interstitial water chemistry, 334, 804
lithologic summary, 329, 1049
Miocene/Pliocene boundary, 331
nannofossil, 331, 991
operations, 328
paleobathmetry, 867
physical properties, 333
Radiolaria, 333, 998
sedimentation rates, 7, 833, 836, 867
carbonate compensation depth, 867
sonic velocity, 334
summary, 7
trace element of basalt, Sumali Basin, 785
unconformity, 332
Site 237, 391
biostratigraphic summary, 395
calcareous nannoplankton, 396
carbonate compensation depth, Site 236, 867
correlation of reflection profiles and lithology, 401
foraminifera, 397, 836, 853
geologic and stratigraphic setting, 836
interstitial water chemistry, 401, 805
lithologic summary, 394, 1049
lysocline, 867
nannofossils, 991
operations, 392
paleobathymetry, 867
physical properties, 398
Radiolarians, 398, 998
sedimentation rates, 7, 398, 836, 867
summary, 7
Site 238, 469
background and objectives, 469
benthonic foraminifera, 475
diatoms, 896
foraminifera, 475, 856, 837
geologic and stratigraphic setting, 837
interstitial water chemistry, 479, 806
lithologic summary, 472, 1051
manganese micronodules, 8
nannofossil, 474, 992
operations, 471
petrology of basement, 482
physical properties, 476
Radiolaria, 475, 999
sedimentation rates, 8, 474, 476, 837
summary, 8
Slumping, 3, 18, 24, 29
Sonobuoys, 9
South Equatorial Current, 1139
Species list, Radiolaria, 1000
Spehnolithus predistentus Zone, nannofossil, 991
Sphenolithus ciperoensis Zone, 253, 331, 396, 991, 992, 993
Sphenolithus distentus Zone, 332, 474, 991, 993
Sphenolithus heteromorphus Zone, 22, 253, 286, 331, 396, 474, 979, 990, 991, 992, 993
Sphenolithus predistentus Zone, 332
Spinel, 294
Spongaster Pentas Zone, 132, 201, 398, 475, 998, 999
Stichocorys peregrina Zone, 132, 398, 475, 998, 999
Stratigraphic boundaries, Gulf of Aden, 1114
Stratigraphic boundaries and accumulation rates, Central Western Indian Ocean, 1126
Stratigraphic boundaries and accumulation rates, Somali Basin, 1122
Sub-alkali, basalts, 391
Basalts, augite in, 391
olivine in, 391
plagiocluse, 391
Sulphate, 802
Systematic floral sequence, 908
Tadjura Trench, 591
Temperature of squeezing effects, 799
Thalassiosira convexa partial range Zone, 892
Theocampe mongolfieri Zone, 398, 998
Theocyrtis tuberosa Zone, Radiolaria, 333, 998
Thyrosocyrtis triacantha Zone, Radiolaria, 398, 999
Trace element of basalt, Somali Basin, 784, 785
Argo Fracture Zone, 787
Transform faults, 607
Trapp series, 1056, 1058
Tribrachiatus dorthostylus Zone, 396, 992
Triquetrorhabdulus carinatus Zone, 253, 474, 990, 993
Turbidites, 6, 249, 286
Turbidite layers, 834

Unconformity, Site 236, 332
Underway geophysics, 591
Velocity anisotropism, 787
Velocity measurements, 787
Velocity-density relationship, 789
Vema Trench, 607
Vesicular, basalt, 784
Volcanic ash, 3, 6, 21, 29, 129, 200, 391, 394, 395, 831, 1055, 1056, 1058, 1060, 1066
  alteration of, 391, 804
Volcanic glass, 7, 251, 290, 330, 472, 1056
  composition, 1060
Volcanic minerals, 1056
Volcanism, 471, 1061
West Sheba Ridge, 29, 591
Western Indian Ocean, basalt, 784
X-ray analysis, methods, 14
X-ray mineralogy data, 811
Xenoliths, 21
Zeolites, 1061