

INDEX

- Abiogenic diagenesis, 815
 Acoustic basement, 761, 771
Actinocyclas ingens Zone, 195, 606, 952
Actinocyclus ingens Partial Range Zone/defined diatoms, 929
Actinocyclus oculatus Zone, 927
Actinomma holtedahli, new species, 1121
Actinomma holtedahli Zone, 204, 535, 662
Actinomma holtedahli Zone defined, 1104
Actinoptychus heliopelta Zone, 930
 Age of basement, Site 336, 47
 Vøring Plateau, 1233
 Alkane distributions, 785
 Allochthonous sediments, 767, 780
 Alteration of olivine, basalt, 717
 Alteration problems, basalt, 719
 Alternating-field demagnetization (AF), 32
 Amygdaloidal basalt, petrography of, 601
 Analytical methods, plant organic matter, 815
 Analytical procedure, K/Ar dating, 755
 Anomaly, 5, 1218
Antarctissa whitei, new species, 1125
Antarctissa whitei Zone, 15, 1116, 1121
Antarctissa whitei Zone, defined, 1105
 Antrim Plateau basalts, 751
Archnocalpis (?) *tumulosa* Zone, rads, 15
Archnocalpis (?) *tumulosa* Zone, defined, 1105
Artostrobus quadriporos Zone, 15, 1121
Artostrobus (?) *quadriporos* Zone, defined, 1104
Artostrobus quadriporos, new species, 1125
 Ash, volcanic, 765
Asterolampra praecutiloba, new species, 965
Asteromphalus oligocenicus, new species, 965
Asteromphalus symmetrica, new species, 970
 Authigenic carbonate, 765, 773
 Average chemical composition of basalt, 701
 Background and objectives,
 Site 337, 117
 Site 344, 389
 Site 345, 451
 Site 346, 522
 Site 347, 522
 Site 348, 595
 Site 349, 522
 Site 350, 655
 Site 352, 25
 Basalt, alteration of olivine, 717
 alteration problems, 719
 average chemical composition of, 701
 decomposed, 763
 geochemistry of, 122, 180, 601, 717, 719
 Icelandic Plateau, 720
 Jan-Mayen Ridge, 720
 K/Ar ages, 755, 758
 major element chemistry, 731
 mineral chemistry, 733
 petrography of, 600, 717, 718
 radiometric ages, 209
 Site 337, 122
 trace element chemistry of, 731
 Vøring Plateau, 720, 752
 Basalt Plateau, East Greenland, 751
 Basaltic basement, Site 366, minimum ages, 757
 Basement geochemistry and elevation, correlation between, 1241
 Basement high, 761, 777, 781
 Basis for age determination,
 diatoms, 19
 dinoflagellates, 23
 foraminifera, 15
 nannofossils, 15
 Radiolaria, 13
 silicoflagellates, 18
 Bath cliff section, 924
 Bay of Biscay, nannos, 834
 Biostratigraphy,
 Site 336, 40
 Site 337, 126
 Site 338, 189
 Site 339, 197
 Site 340, 198
 Site 341, 199
 Site 342, 203
 Site 343, 205
 Site 344, 395
 Site 345, 458
 Site 346, 531
 Site 347, 536
 Site 348, 604
 Site 349, 537
 Site 350, 660
 Site 352, 45
 Biostratigraphic zonation of diatoms, 923
 Bioturbation, 391
 Bituminosity of sediments, method of, 815
Bogorovia veniamini Zone, 930, 931
 Boread Basin, 1220
 Bouma sequence, 763
 British tertiary plateau basalt, 751
 Brito-Arctic province, 751
 Burrows,
 chondrites, 168, 173, 176, 178, 453
 Helminthoida, 173, 176, 453
 Zoophycos, 163, 173, 453
Calocyclas talwanii Zone, 13, 538, 1120
Calocycletta virginis Zone, 195
Calocylas talwanii Zone, defined, 1104
 Carbon isotopic compositions, methods of measuring, 809
 Carbon-carbonate analyses, method of, 11
 Carbonate, authigenic, 765, 773
 Carbonate compensation depth, 208
 Carbonate compensation surface, 1200
 Carbonate content of sediments, Site 341, 810
 Cenozoic biostratigraphy, Norwegian-Greenland Sea, 1199
Ceratocyrtis mashae, new species, 1125
Ceratocyrtis robustus, new species, 1125
Ceratocyrtis robustus Zone, 15
Ceratocyrtis robustus Zone defined, rads, 1104
 Chemical remanent magnetism, 31

- Chlorins, 785
 Chondrites, burrows, 168, 173, 176, 178, 453
 Circulation patterns, 777, 782
 Clathrates, 157
 Climate changes during the Quaternary, Site 336 area, 47
 Coal rank, 801
 Coercivity analysis, 33
 Constants used in calculations K/Ar dating, 755
 Contact, sediment/basalt, 208
 Contour current, 777, 782
Corbisema bimucronata Zone, silicos, 196, 199, 863, 864, 868
Corbisema bimucronata Zone, defined, 858
Corbisema katherina, new species, 848
Corbisema triacantha Zone, silicos, 195, 463, 847, 863, 864, 866
Corbisema triacantha Zone, defined, 860
 Core handling, 9
 Correlation, silicoflagellate and nannofossil zonation, 861
 Correlation between basement geochemistry and elevation, 1241
 Correlation of lithologic units with seismic profiles, Site 348, 655
 Correlation with other sections, diatoms, 933
Coscinodiscus marginatus Partial Range Zone, defined, 927
Coscinodiscus marginatus Zone, 606, 952
Coscinodiscus norwegicus, new species, 970
Coscinodiscus oblongus Partial Range Zone, 926
Coscinodiscus oblongus Zone, 127, 195, 939, 940
Coscinodiscus plicatus group Partial Range Zone, 202, 942
Coscinodiscus plicatus group Partial Range Zone, defined, 929
Coscinodiscus plicatus group Zone, 195, 939
Coscinodiscus plicatus Zone, 945
Coscinodiscus praenitida Partial Range Zone, defined, 931
Coscinodiscus praenitida, new species, 972
Coscinodiscus praenitida Zone, 195, 940
Coscinodiscus sp. Zone, diatoms, 930
Coscinodiscus vigilans Partial Range Zone, 931
Coscinodiscus vigilans Zone, 195, 931, 939
Coscinodiscus yabei Partial Range Zone, 929
Coscinodiscus yabei/cassis paleacea Zones, 929
Coscinodiscus oblongus Range Zone/defined, 932
Craspedodiscus coscinodiscus-Coscinodiscus vigilans zones, diatoms, 930
 Cross-bedding, 392, 453
 Crystallization index, 720
Cycladophora davisiana Zone, 15, 1116, 1121
Cycladophora davisiana Zone defined, 1105
Cymatosira biharensis Zone, 606, 952
Cymatosira compacta, new species, 976
Cymatosira cornuta, new species, 976
coronata, new species, 976
Cymatosira fossilis, new species, 976
Cymatosira praecompacta, new species, 977.
Cymatosira robusta, new species, 977
Cyrtocapsella eldholmi, new species, 1125
Cyrtocapsella eldholmi Zone, 15, 1115
Cyrtocapsella eldholmi Zone, defined, 1104
 C₁-C₇ alkane yields, 807
 Denmark Strait, 957, 958
- Denticula antarctica-Coscinodiscus lewisi* Zone, 930
Denticula hustedtii Partial Range Zone, defined, 927
Denticula hustedtii Zone, 606, 929, 942, 952
Denticula hustedtii-Denticula lauta Zone, 930
Denticula hyalina Partial Range Zone, 202, 942
Denticula hyalina Partial Range Zone, defined, 930
Denticula hyalina Zone, 195, 939
Denticula kamtschatika Zone, 927
Denticula lauta Zone, 930
Denticula nicobarica Zone, 930
Denticula nicobarica-Coscinodiscus sp. Zone, 930
Denticula norwegica, new species, 978
Denticula seminae-Denticula hustedtii differentiation between, diatoms, 957
 Deposition of terrigenous organic matter, Site 345, 806
 Depositional environment, 763, 765, 767
 Depositional remanent magnetism, 31
Discoaster binodosus Zone, 823
 Diagenesis, abiogenic, 815
 organic, 809
 sediments, 783
 Diagenetic changes, 767
 Diapir formation, 780
 Diapiric intrusion, 780, 781
 Diapiric structures, 3, 761
 Diapirism, 154
 Vørring Plateau, 210
 Diapirs, 763, 767, 771, 776, 780, 1112, 1237
 Diatoms,
Actinocyclus ingens Zone, 195, 606, 952
Actinocyclus ingens Partial Range Zone, 929
Actinocyclus ingens Partial Range Zone, defined, 929
Actinocyclus oculatus Zone, 927
Actinoptychus heliopelta Zone, 930
Asterolampra praecutiloba, new species, 965
Asteromphalus oligocenicus, new species, 965
Asteromphalus symmetrica, new species, 970
 basis for age determination, 19
 biostratigraphic zonation of, 921, 923
Bogorovia veniamini Zone, 930, 931
Coscinodiscus marginatus Partial Range Zone, defined, 927
Coscinodiscus marginatus Zone, 952, 606
Coscinodiscus norwegicus, new species, 970
Coscinodiscus oblongus Partial Range Zone, 926
Coscinodiscus oblongus Zone, 127, 195, 939, 940
Coscinodiscus plicatus group Partial Range Zone, 202, 929, 942
Coscinodiscus plicatus group Zone, 195, 939, 945
Coscinodiscus praenitida Partial Range Zone defined, 931
Coscinodiscus praenitida, new species, 972
Coscinodiscus praenitidus Zone, 940
Coscinodiscus sp. Zone, 930
Coscinodiscus vigilans Partial Range Zone, 931
Coscinodiscus vigilans Zone, 195, 931, 939
Coscinodiscus yabei Partial Range Zone, 929
Coscinodiscus yabei/Cassis paleacea Zone, 929
Coscinodiscus oblongus Range Zone, defined, 932
Craspedodiscus coscinodiscus-Coscinodiscus vigilans zones, 930
Cymatosira biharensis Zone, 606
Cymatosira biharensis Zone, 952
Cymatosira compacta, new species, 976
Cymatosira cornuta, new species, 976
Cymatosira coronata, new species, 976

- Cymatosira fossilis*, new species, 976
Cymatosira praecompacta, new species, 977
Cymatosira robusta, new species, 977
Denticula antarctica-Coscinodiscus lewisianus Zone, 930
Denticula hustedtii Partial Range Zone, defined, 927
Denticula hustedtii Zone, 606, 928, 929, 942, 952
Denticula hustedtii-Denticula lauta Zone, 930
Denticula hyalina Partial Range Zone, 202, 942
Denticula hyalina Partial Range Zone, defined, 930
Denticula hyalina Zone, 195, 939
Denticula kamtschatika Zone, 927
Denticula lauta Zone, 930
Denticula nicobarica Zone, 930
Denticula nicobarica-Coscinodiscus sp. Zone, 930
Denticula norwegica, new species, 978
Denticula seminae-Denticula hustedtii, differentiation between, 957
Dicladia elliptica, new species, 979
Dicladia norwegica, new species, 979
 early/middle Miocene boundary, 924
Fragilaria voeringia, new species, 981
Goniothecium coronatum, 982
Goniothecium loricatum, new species, 984
Goniothecium tenue Partial Range Zone, defined, 928
Goniothecium tenue Zone, 606, 952
Hemiaulus polymorphus Zone, 930
Hemiaulus polymorphus-Triceratium barbadense Zone, 926
Huttonia norwegica, new series, 984
 Leg 38, correlation with other sections, 933
Lithodermium robusta, new species, 987
 method of preparation, 921
 middle/upper Miocene boundary, 924
 Miocene/Pliocene boundary, 924
Monobrachia simplex, new species, 989
Navicula bendaensis, new species, 991
Navicula sundra, new species, 991
Navicula udintsevii, new species, 991
Nitzschia sp. 8 Zone, 606
Nitzschia guttula, new species, 993
Nitzschia maleinterpretaria Zone, 939
Nitzschia maleinterpretaria Zone, defined, 930
Nitzschia pseudocylindrica, new species, 993
Nitzschia sp. 8 Range Zone, 939, 942
Nitzschia sp. 8 Range Zone, defined, 929
Nitzschia sp. 8 Zone, 939
Nitzschia maleinterpretaria Zone, 195
Nitzschia sp. 8 Zone, 195
 NPD Zone I-III, 927
 NPD Zone IX-XI, 927
 NPD Zone V-VII, 927
 NPD Zone XI-XII, 927
 NPD Zone XI-XII, 928
 NPD Zone XII, 927
 NPD Zone XIII-XIV, 928
 NPD Zone XIV-XV, 929
 NPD Zone XIX, 942
 NPD Zone XIX, 929
 NPD Zone XIX, 929
 NPD Zone XIX-XX, 929
 NPD Zone XV-XVI, 929
 NPD Zone XV-XVII, 929
 NPD Zone XXI-XX, 930
 NPD Zone XXIII, 930
 NPD Zone XXIV, 930
Odontella septentrionala, new species, 993
 Oligocene/Miocene boundary, 926
Pleurosigma planktonica, new species, 993
 Pliocene/Pleistocene boundary, 924
 preservation of floras, 922
Pseudodimerogramma elegans Zone, 195, 939
Pseudodimerogramma elegans, new species, 993
Pseudodimerogramma elegans Partial Range Zone, defined, 931
Pseudodimerogramma elliptica, new species, 993
Pseudodimerogramma elongata, new species, 993
Pseudodimerogramma filiformis, new species, 993
Pseudodimerogramma filiformis Partial Range Zone, 932
Pseudodimerogramma filiformis Partial Range Zone, defined, 932
Pseudodimerogramma filiformis Zone, 195, 933, 940
Pseudodimerogramma oligocenica, new species, 993
Pseudorutilaria monomembranacea, new species, 994
Pyxilla prolongata Zone, 926
Pyxilla sp. Zone, 926
Raphidodiscus marylandicus Zone, 930
Raphidodiscus marylandicus-Nitzschia maleinterpretaria zones, 930
Rhaphoneis angulata, new species, 995
Rhaphoneis elliptica, new species, 995
Rhaphoneis ossiformis, new species, 995
Rhaphoneis robusta, new species, 996
Rhizosolenia barboi Partial Range Zone, defined, 927
Rhizosolenia barboi Zone, 606, 956, 969
Rhizosolenia curvirostris Zone, 927
Rhizosolenia curvirostris/Actinocyclus oculatus zones, 927
Rhizosolenia massiva, new species, 996
Rhizosolenia miocenica Partial Range Zone, defined, 929
Rhizosolenia miocenica Zone, 606, 952
Rhizosolenia norwegica Zone, 195, 931, 939
Rhizosolenia norwegica, new species, 996
Rhizosolenia palliola, new species, 997
Rhizosolenia Partial Range Zone, 943
Rouxia granda, new species, 997
Sceptroneis caducea Partial Range Zone, defined, 929
Sceptroneis caducea Zone, 195, 606, 930, 939
Sceptroneis facialis, new species, 998
Sceptroneis humuncia, new species, 998
Sceptroneis ossiformis, new species, 998
Sceptroneis pesplanus, new species, 998
Sceptroneis propinqua, new species, 999
Sceptroneis pupa, new species, 999
Sceptroneis pupa Partial Range Zone, 932
Sceptroneis pupa Zone, 195, 940
Sceptroneis talwanii, new species, 999
Sceptroneis tenus, new species, 999
Sceptroneis vermiciformis, new species, 999
 Site 336, 43, 933
 Site 337, 127, 939
 Site 338, 195, 939
 Site 339, 197, 940
 Site 340, 198, 941
 Site 341, 202, 941
 Site 342, 204, 942
 Site 343, 206, 943
 Site 344, 943
 Site 345, 463, 944
 Site 346, 535

- Site 347, 944, 945
 Site 348, 606, 945
 Site 349, 538, 952
 Site 350, 662, 952
Sphaerolithus distentus Zone, 195
Stephanogonia horridus, new species, 1001
Synedra jouseana Partial Range Zone, defined, 931
Synedra jouseana Zone, 195, 939
 Taxonomy, 965
Thalassiosira aff. *irregularata*, new species, 1002
Thalassiosira dubiosa, new species, 1001
Thalassiosira fraga, new species, 1001
Thalassiosira fraga Partial Range Zone, 204, 463, 930, 943
Thalassiosira fraga Zone, 195, 939
Thalassiosira gravida var. *fossilis* Partial Range Zone, 929
Thalassiosira gravida Zone, 606, 952
Thalassiosira irregularata, new species, 1001
Thalassiosira irregularata Zone, 940
Thalassiosira irregularata Partial Range Zone, defined, 932
Thalassiosira kryophila Partial Range Zone, defined, 927
Thalassiosira kryophila Zone, 606, 933, 952
Thalassiosira lusca, new species, 1002
Thalassiosira mediaconvexa, new species, 1002
Thalassiosira oestrupii Partial Range Zone, defined, 927
Thalassiosira oestrupii Zone, 606, 933, 452, 956
Thalassiosira oestruppii Partial Range Zone, 952
Triceratium barbadense Partial Range Zone, 926
 Triceratium barbadense Partial Range Zone, defined, 933
 Triceratium barbadense Zone, 195, 926, 940
Trochosira coronata, new species, 1003
Dicladia elliptica, new species, 979
Dicladia norwegica, new species, 979
Dictyocha hexacantha Zone, 846, 847
Dictyocha quadrata Zone, 196
Dictyocha quadria Zone, 861, 863
Dictyocha quadria Zone, defined, silicos, 858
Dictyocha torta, new species, 871
Dictyocha transitoria Zone, defined, 857
Dictyocha triacantha Zone, 204, 535, 606
 Dinoflagellates,
 basis for age determination, 23
 taxonomy, 901
 zonations, 891, 901, 1202
 Zone I, 901
 Zone I/II boundary, 902
 Zone II, 901
 Zone II/II boundary, 902
 Zone II/IV boundary, 902
 Zone III, 901
 Zone VII, 901
 Zone VIIA, 903
Discoaster binodosus Zone (NP11), 827
Disetphanus speculum Zone, 866
 Dissolved gas analysis, Site 348, 604
Distephanus boliveinsis Zone, 606, 866
Distephanus octangulatus Zone, 861
Distephanus pseudofibula, new combination, 848
Distephanus speculum gigantueus, new subspecies, 848
Distephanus speculum Zone, silicos, 18, 606, 863, 864, 868
Distephanus speculum Zone, defined, 861
 DPEP, 787
 Drilling disturbances, 8
 Drilling operations,
 Site 338, 154
 Site 339, 155
 Site 340, 155
 Site 342, 158
 Site 343, 159
 Site 344, 389
 Site 345, 452
 Site 346, 523
 Site 346, 522
 Site 349, 524
 Site 350, 656
 Early/middle Miocene boundary, diatoms, 924
 East Greenland, basalt plateau of, 751
 Ecological interpretations, Radiolaria, 1117
Emiliania huxleyi Zone, 15, 194, 197, 206, 461, 826, 830, 831, 833
Emiliania huxleyi Zone (NN21), nannos, 127, 198, 534
 Eocene, stratigraphic hiatus, 765, 782
 Eocene sediments, 763, 765
 Eozan 3, forams, 834
 Ethane occurrence, Leg 38, 783
 Etioporphyrin, 787
 Evolution of Iceland-Faeroe Ridge, 47
 Extinct axis of Norway Basin, 692
 Faeroe Islands, 701, 751
 Faeroe-Shetland Escarpment, 1218
 Fault, 761, 777, 780, 781
 Fluorescence of sediments, Site 348, 805
 Forams,
 basis for age determination, 15
 Eozan 3, 834
Martinottiella Zone, 204
Neogloboquadrina atlantica Zone, 15
Neogloboquadrina pachyderma Zone, 15, 200, 1200
 Site 336, 40
 Site 337, 126
 Site 338, 191
 Site 339, 197
 Site 340, 198
 Site 341, 200
 Site 342, 203
 Site 343, 205
 Site 344, 395
 Site 346, 532
 Site 348, 604
 Site 349, 537
 Site 350, 660
 Site 352, 45
Spirosigmoilinella Zone, 15
 zonation, 202
 Formation of North Atlantic, 118
Fragilaria voeringia, new species, 981
 Free-base porphyrin, 785
 Gas dissolved in sediments,
 Site 337, 125
 Site 344, 395
 Gas in Tertiary sediments,
 Site 338, 187
 Site 341, 187
 Site 346, 531
 Site 347, 531
 Site 349, 531

- Gaussian hump, 805
 Geochemical measurements, methods, 10
 Geochemistry of,
 basalt, 38, 122, 601, 719
 carbon, 791
 igneous rocks, 395
 sediments, 125, 395
 Site 345, 458
 Site 350, 659, 660
 Geologic history,
 Iceland-Faeroe Ridge, 5, 6, 28
 Jan-Mayen Ridge, 5
 Site 336, 28
Gephyrocapsa oceanica (Zone NN20), 15, 194, 197, 461,
 826, 830, 833, 847
 Glacial debris conjugate region (GDCR), 30
 Glacial material, 46
 Glacial sediments, 771, 782, 752
 Glauconite, 765, 767
Gondwanaria japonica Zone, 15, 463
Gondwanaria japonica Zone, defined, 1104
Goniothecium coronatum, 982
Goniothecium loricatum, new species, 984
Goniothecium tenue Partial Range Zone, defined, 928
Goniothecium tenue Zone, 606, 952
 Graded bedding, 27, 453, 773
 Grain-size analyses, method of, 11
 Greenland margin, 781
 Halmyrolysis, 731
 Heavy minerals, 763, 765, 771, 773
Helicopontosphaera ampliaperta Zone (NN4), nannos,
 826, 837
Helminthoida, burrows, 173, 176, 453
Hemiaulus polymorphus-Triceratium barbadense Zone,
 926
Hemiaulus polymorphus Zone, 930
 Hot spots, 25, 1243
Huttonia norwegica, new species, 984
 Hydrocarbons, 5
 Hydrocarbons, Leg 38 sediments, 209
 soluble, 809
 Hydrocarbons/increase with depth and age, 807
 Hypabyssal facies, 701
 Ice rafting, 120, 391, 901
 history of, Site 336, 29
 Ice-rafted material, volcanic, 600
 Iceland plume activity, 757, 758
 Iceland Plateau, Radiolaria, 1116
 Iceland-Faeroe Ridge, 1101, 1218
 evolution of, 47
 geologic history, 6, 28
 igneous rocks, 685
 origin, 24
 paleogeography of, 47
 rads, 1105
 Site selection, 1220
 Site 336, 23
 Site 352, 23
 subsidence of, 25, 30, 1218, 1220
 Icelandic Plateau, 595
 basalts, 720
 geologic history of, 5
 igneous rocks, 700
 Icelandic-Faeroe Ridge, 693, 701
 Igneous rocks,
 geochemistry of, 395
 Iceland-Faeroe Ridge, 685
 Icelandic Plateau, 700
 Jan-Mayen Ridge, 700
 Lofoten Basin, 693
 Mohns Ridge, 694
 Site 337, 120
 Site 345, petrography petrology of, 457
 Vøring Plateau, 693
 Igneous petrography, 600
 Site 336, 37
 Site 338, 179
 Site 342, 179
 Site 343, 180
 Site 344, 393
 Site 350, 657
 Inoceramus, 40, 200, 205, 458, 660
 Inorganic geochemistry,
 Site 336, 40
 Site 352, 40
 Interstitial water analyses, Site 348, 604
 Irminger Current, 957
 Isopach maps, Paleogene, 777
 Isotopic composition, method of determining, 809
 Jan-Mayen Ridge, 1224
 geologic history, 5
 physiography, 5
 Site 346, 521
 Site 347, 521
 Site 349, 521
 unconformity, 1230
 Jan-Mayen Ridge area, Site 350, 655
 Jan-Mayen Fracture Zone, 5, 697, 761, 781, 782
 Jump of spreading axis, 1237
 K/Ar ages, basalt, 758
 Norwegian-Greenland Sea basalts, 755
 Site 336, 756
 Site 337, 758
 Site 338, 758
 Site 342, 758
 Site 343, 758
 Site 344, 758
 Site 345, 758
 Site 348, 758
 Site 350, 759
 K/Ar dating, analytical procedure, 755
 constants used in calculations, 755
 Knipovich Ridge, 389, 700, 1238
 rads, 1114
 Site 344, 389
 Knipovich Rift, 1238
 Land bridge, Norwegian Sea, 1218
 Land bridges, 1239
 Latitudinal differentiation, nannos, 827
 Lava, 763, 765
 Leg 38, correlation with other sections, diatoms, 933
 ethane occurrence, 783
 methane occurrence, 783
 operations summary, 7
 organic geochemistry of sediments, 783
 scientific goals, 3
 Leg 38 sediments,
 geochemistry of carbon, 791
 hydrocarbons, 209
 thermal history, 801
 Lipid material content of sediments, Site 341, 810
 Lipids, 783

- Lithodermium robusta*, new species, 987
 Lithology,
 Site 336, 27
 Site 337, 118
 Site 338, 163
 Site 339, 168
 Site 340, 169
 Site 341, 171
 Site 342, 175
 Site 343, 176
 Site 344, 390
 Site 345, 453
 Site 346, 524
 Site 347, 527
 Site 348, 596
 Site 349, 528
 Site 350, 656
 Site 352, 35
- Lithomelissa stigi*, new species, 1125
Lithomelissa stigi Zone, 15, 202, 1120
Lithomelissa stigi, Zone, defined, 1104
 Lithospheric plate motion, 752
 Lofoten Basin, 451
 igneous rocks, 693
 London clay, 843
Lophocorys norwegiensis Zone, 13
Lophocorys norwegiensis Zone, defined, 1104
 Low-alkali tholeiite, 751
 Low-velocity Zone derived magmas, 752
 Luminescent-bituminologic and chromatographic study, plant matter, 817
Lynchnocanium bipes Zone, 195
 Lynes retrievable formation tester (RFT), 7
 Magmatic activity, 751
 Magmatic rocks, petrology of, 685
 Magnetic field, Vøring Plateau, 154
 Major element chemistry, basalt, 731
 Mantle diapirism, 755
 Mantle plumes, 1241
Marthasterites tribrachiatus Zone (NP 12), 195, 823, 827, 831
Martinotiella Zone, forams, 204
 Median destruction fields (MDF), 32
Mesocena apiculata curvata, new subspecies, 849
Mesocena circulus Zone, 195, 203, 606, 864, 866
Mesocena circulus Zone, defined, 860
 Methane occurrence, Leg 38, 783
 Method of,
 bituminosity of sediments, 815
 carbon-carbonate analyses, 11
 grain size analyses, 11
 pollen preparation, 1169
 X-ray mineralogy, 11
 Method of determining isotopic composition, 809
 Method of preparation,
 diatoms, 921
 Radiolaria, 1103
 Methods, geochemical measurements, 10
 Methods of measuring carbon isotopic compositions, 809
 Mineral alterations, secondary, 701
 Mineral chemistry, basalt, 733
 Minimum ages, basaltic basement/Site 366, 757
 Miocene stratigraphic hiatus, 782
 Miocene sediments, 767, 771
 Site 341, organic diagenesis, 809
 Miocene-Pliocene stratigraphic hiatus, 1221
 Mn micronodules, 120
 Model of opening, Norwegian Sea, 1238
 Mohns Ridge, 5, 1237
 igneous rocks, 694
 Radiolaria, 1114
 spreading rate, 1224
Monobrachia simplex, new species, diatoms, 989
 N-alkanes, 805
 Nannos,
 basis for age determination, 15
 Bay of Biscay, 834
 biostratigraphy, 823
 correlation with silicoflagellates, 861
 Discoaster binodosus Zone (NP11), 823, 827
 distribution of, Norwegian-Greenland Sea, 826, 843
 Emiliania huxleyi Zone (NN21), 15, 127, 194, 197, 198, 206, 461, 534, 826, 829, 830, 831, 833
 Gephyrocapsa oceanica (Zone NN20), 15, 194, 461, 826, 830, 831, 833, 847
 Helicosphaera ampliaperta Zone (NN4), 826, 837
 latitudinal differentiation, 827
 lower Eocene, 827
 Marthasterites tribrachiatus Zone (NP 12), 195, 823, 827, 831
 Miocene/lower Pliocene, 827
 Norway Basin, 827
 Norwegian-Greenland Sea, 823, 834
 NP 12, 206
 Oligocene (NP24/25), 827, 828
 Orphan Knoll, 834
 Pseudoemiliania lacunosa Zone (NN19), 197
 Reticulofenestra pseudoumbilica Zone, 824
 Reticulofenestra umbilica Zone, 15, 824
 Rockall Bank, 827, 834
 Site 326, 831
 Site 336, 42, 828, 843
 Site 337, 127, 829
 Site 338, 194, 830, 843
 Site 339, 197, 831, 845
 Site 340, 198, 846
 Site 341, 202, 831, 846
 Site 342, 204, 831
 Site 343, 206, 832, 847
 Site 344, 399, 832, 847
 Site 345, 461, 832, 847
 Site 346, 534, 833, 847
 Site 347, 536, 833, 847
 Site 348, 606, 833, 847
 Site 349, 538, 833, 848
 Site 350, 661, 833
 Site 352, 46, 833
 Sphenolithus belemnos Zone, 826
 Sphenolithus ciperoensis Zone, 15, 826
 Sphenolithus distentus Zone (NP24), 15, 824, 826
 Sphenolithus distentus/Sphenolithus ciperoensis Zone, (NP24/NP25), 46, 833
 Sphenolithus heteromorphus Zone (NN5), 837
 Tribrachiatus orthostylus Zone, 843, 847
 Upper Pliocene/Quaternary, 828
 Zone NN21, 861, 863
 Zone NP24, 863
 Zone NP24/25, 43, 926
 Zones NN3/NN4, 863
 Native copper, 685
 Natural remanent magnetization, 31

- Nature of sediments, Vøring Plateau, 210
Navicula bendaensis, new species, 991
Navicula sundra, new species, 991
Navicula udintsevii, new species, 991
Naviculopsis biapiculata Zone, 127, 196, 198, 863, 864
Naviculopsis foliacea Zone, 861, 864
Naviculopsis lata Zone, 44, 195, 204, 463, 863, 864, 866
Naviculopsis lata Zone, defined, 860
Naviculopsis minor Zone, 206, 863, 864
Naviculopsis minor Zone, defined, 857
Naviculopsis navicula Zone, 195, 204, 863, 864
Naviculopsis nordica, new species, 849
Naviculopsis nordica hyalina, new subspecies, 849
Naviculopsis punctilia taenia, new subspecies, 849
Naviculopsis punctilia Zone, silicos, 846, 861
Naviculopsis quadraea Zone, 843, 847
Naviculopsis vema Zone, 846, 861
Neogloboquadrina altantica S Zone, forams, 15
Neogloboquadrina pachyderma Zone, 15, 200, 1200
New species,
Diatoms
Asteromphalus oligocenicus, 965
Asterolampra praecuticulosa, 965
Asteromphalus symmetrica, 970
Coscinodiscus norwegicus, 970
Coscinodiscus praenitida, 972
Cymatosira compacta, 976
Cymatosira cornuta, 976
Cymatosira coronata, 976
Cymatosira fossilis, 976
Cymatosira praecompacta, 977
Cymatosira robusta, 977
Denticula norwegica, 978
Dicladia elliptica, 979
Dicladia norwegica, 979
Fragilaria voeringia, 981
Goniothecium loricatum, 984
Huttonia norwegica, 984
Lithodermium robusta, 987
Monobrachia simplex, 989
Navicula bendaensis, 991
Navicula sundra, 991
Navicula udintsevii, 991
Nitzchia guttula, 993
Nitzchia pseudocylindrica, 993
Odontella septentrionalis, 993
Pleurosigma planktonica, 993
Pseudodimerogramma elegans, 993
Pseudodimerogramma elliptica, 993
Pseudodimerogramma elongata, 993
Pseudodimerogramma filiformis, 993
Pseudodimerogramma oligocenica, 993
Pseudoruttkaria monomembranacea, 994
Rhaphoneis angulata, 995
Rhaphoneis elliptica, 995
Rhaphoneis ossiformis, 995
Rhaphoneis robusta, 996
Rhizosolenia bulbosa, 996
Rhizosolenia massiva, 996
Rhizosolenia norwegica, 996
Rhizosolenia palliola, 997
Rouxia granda, 997
Sceptroneis facialis, 998
Sceptroneis humuncia, 998
- Sceptroneis humuncia* n. var. *tridens*, 998
Sceptroneis ossiformis, 998
Sceptroneis pesplanus, 998
Sceptroneis propinqua, 999
Sceptroneis pupa, 999
Sceptroneis talwanii, 999
Sceptroneis tenus, 999
Sceptroneis vermiformis, 999
S Stephanogonia horridus, 1001
Thalassiosira aff. irregularis, 1002
Thalassiosira dubiosa, 1001
Thalassiosira fraga, 1001
Thalassiosira irregularis, 1001
Thalassiosira lusca, 1002
Thalassiosira mediaconvexa, 1002
Trochosisira coronata, 1003
- Radiolaria,
Actinomma holtedahli, 1121
Antarctissa whitei, 1125
Artostrobis quadriporus, 1125
Ceratocyrties robustus, 1125
Ceratocyrties mashae, 1125
Cyrtocapsella eldholmi, 1125
Lithomelissa stigi, 1125
Velicucullus oddgurneri, 1126
- Silicoflagellates
Corbisema katharina, 848
Naviculopsis nordica, 849
Naviculopsis siccs, 874
- New subspecies silicoflagellates,
Distephanus speculum gigantueus, 848
Mesocena apiculata curvata, 849
Naviculopsis nordica hyalina, 849
Naviculopsis punctilia taenia, 849
- Nitzschia* sp. 8 Zone, 606
Nitzschia guttula, new species, 993
Nitzschia interfrigidaria Zone, 958
Nitzschia maleinterpretaria Zone, 939
Nitzschia maleinterpretaria Zone, defined, 930
Nitzschia pseudocyclindrica, new species, 993
Nitzschia sp. 8 Range Zone, 942
Nitzschia sp. 8 Range Zone, defined, 195, 929, 939
Nitzschia maleinterpretaria Zone, 195
North Atlantic, formation of, 118
North Atlantic current, 1105, 1107, 1109, 1119
Norway Basin, 1221
extinct axis of, 692
nannos, 827
physiography, 5
Radiolaria, 1108
ridge axis shift from, 1218
Site 337, 117
Norway seamounts, 693
Norwegian current, 935, 957
- Norwegian Sea,
diatom biostratigraphy, 921
land bridge, 1218
model of opening, 1238
opaque layer, 1240
Radiolaria, 1101
tectonic evolution, 1218
time of opening, 1239

- Norwegian-Greenland Sea,
 cenozoic biostratigraphy, 1197
 nannos, 823, 826, 843
 oil seeps, 806
 opening of, 727
 silicos, 843, 857
- Norwegian-Greenland Sea and North Atlantic comparison, nannos, 834
- NP 12, nannos, 206
- NPD Zone I-III, diatoms, 927
- NPD Zone IX-XI, diatoms, 927
- NPD Zone V-VII, diatoms, 927
- NPD Zone XI-XII, diatoms, 927, 928
- NPD Zone XII, diatoms, 927
- NPD Zone XIII-XIV, diatoms, 928
- NPD Zone XIV-XV, diatoms, 929
- NPD Zone XIX, diatoms, 929, 942
- NPD Zone XIX-XX, diatoms, 929
- NPD Zone XV-XVI, diatoms, 929
- NPD Zone XV-XVII, diatoms, 929
- NPD Zone XXI-XX, diatoms, 930
- NPD Zone XXIII, diatoms, 930
- NPD Zone XXIV, diatoms, 930
- NP24/NP25, nannos Zone, 43
- Odd-even predominance (OEP), 810
- Odontella septentrionalis*, new species, 993
- Oil seeps, Norwegian-Greenland Sea, 806
- Oil source rocks, 802
- Oligocene,
 nannos, 827, 828
 reflector, 775, 776, 777, 780
 sediments, 780
- Oligocene-Eocene stratigraphic hiatus, 767
- Oligocene-Pliocene stratigraphic hiatus, 37
- Oligocene/Miocene boundary, 926
- Opaque layer, Norwegian Sea, 1240
- Operations,
 Site 336, 25
 Site 337, 118
 Site 342, 157
 Site 344, 389
 Site 345, 451
 Site 348, 595
 Site 351, 7
 Site 352, 25
 summary, Leg 38, 7
- Organic diagenesis, 809
- Organic carbon content, 783, 801, 810, 815
- Organic diagenesis, Miocene sediments, 783, 809
- Organic fraction of sediments, 797
- Organic geochemistry of sediments, Leg 38, 783
- Organic material, 802
- Organic matter, solvent soluble, 805
- Organic metamorphism, 801
- Origin, Iceland-Faeroe Ridge, 24
- Ornamentation of silicos, 867
- Orphan Knoll, nannos, 834
- Paleogene, isopach maps, 777
- Paleogene sediments, 771, 781
- Paleogeography of Iceland-Faeroe Ridge, 47
- Paleomagnetism, red clay, Site 336, 30
- Paln, thermal alteration, 900
- Palynology, 897
 Site 336, 44, 1169
 Site 337, 127
 Site 338, 196, 1169
 Site 339, 198
 Site 340, 199
 Site 341, 203
 Site 342, 204
 Site 343, 206
 Site 344, 399
 Site 345, 463, 1169
 Site 346, 535, 1169
 Site 347, 536
 Site 348, 606, 1169
 Site 349, 538
 Site 350, 662
 Zone I, 44, 464, 606
 Zone IA, 607
 Zone IB, 606
 Zone II, 535
 Zone IIA, 44, 204, 464, 606
 Zone IIB, 204
 Zone IIC, 204
 Zone III, 44, 196, 464, 535, 606
 Zone IV, 44, 196, 203, 463, 464, 535, 536, 663
 Zone V, 44, 199, 203, 463, 535, 536, 663
 Zone VI, 45, 199
 Zone VII, 663
- Pelecypods, 205
- Petrochemical characteristics, volcanic rocks, 701
- Petrographic composition, plant organic matter, 815
- Petrography of,
 amygdaloidal basalt, 601
 basalt, 600
 igneous rocks, 457, 600
- Petroleum genesis, 785, 798
 sediment potential, 785
 Site 341, 799
- Petrology of magmatic rocks, 685
- Phorticium* sp. A Zone, 13
 defined, 1104
- Physical properties,
 Site 336, 38
 Site 337, 124
 Site 338, 181
 Site 339, 182
 Site 340, 185
 Site 341, 185
 Site 342, 186
 Site 343, 186
 Site 344, 395
 Site 345, 458
 Site 346, 531
 Site 347, 531
 Site 348, 601
 Site 349, 531
 Site 350, 659
- Physiography,
 Jan-Mayen Ridge, 5
 Norway Basin, 5
 Vøring Plateau, 3
- Plant material, reworking of, 901

- Plant matter, luminescent-bituminologic and chromatographic study, 817
- Plant organic matter,
analytical methods, 815
petrographic composition, 815
Site 336, 815
- Pleurosigma planktonica*, new diatom species, 993
- Plio-Pleistocene boundary, 771
- Plio-Pleistocene sediments, 771
- Pliocene-Miocene, stratigraphic hiatus, 458, 465
- Pliocene/Pleistocene boundary, diatoms, 924
- Plume activity, Iceland, 758
- Plume-derived magmas, 752
- Pollen list,
Site 336, 1170
Site 338, 1170
Site 346, 1170
Site 348, 1170
- Pollen preparation, method of, 1169
- Preservation of floras, diatoms, 922
- Pseudodimerogramma elegans* Zone, 195, 939
- Pseudodimerogramma elegans*, new diatom species, 993
- Pseudodimerogramma elegans* Partial Range Zone, defined, 931
- Pseudodimerogramma elliptica*, new diatom species, 993
- Pseudodimerogramma elongata*, new diatom species, 993
- Pseudodimerogramma filiformis*, new diatom species, 993
- Pseudodimerogramma filiformis* Partial Range Zone, 932
- Pseudodimerogramma filiformis* Partial Range Zone, defined, 932
- Pseudodimerogramma filiformis* Zone, diatoms, 195, 933, 940
- Pseudoemiliania lacunosa* Zone (NN19), nannos, 197
- Pseudorutilaria monomembranacea*, new species, diatoms, 994
- Pyrite nodules, 599
- Pyrolysis methods, 801
- Pyrolysis-fid, 801
- Pyrolysis-fluorescence (PF), 801
- Pyxilla prolongata* Zone, 926
- Pyxilla* sp. Zone, 926
- Quaternary-Tertiary stratigraphy, 1101
- Radiometric ages, basalt, 209
- Rads,
Actinomma holtedahli, new species, 1121
Actinomma holtedahli Zone, 15, 204, 535, 662
- Antarctissa whitei*, new species, 1125
- Antarctissa whitei* Zone, 15, 1116, 1121
- Archnocalpis* (?) *tumulosa* Zone, 15
- Archnocalpis* (?) *tumulosa* Zone, defined, 1105
- Artostrobus quadriporus* Zone, 15, 1121
- basis for age determination, 13
- Calocyclus talwanii* Zone, 13, 538, 1104, 1120
- Calocyctella virginis* Zone, 195
- Ceratocyrtis mashae*, new species, 1125
- Ceratocyrtis robustus*, new species, 1125
- Ceratocyrtis robustus* Zone, 15
- Cycladophora davisiana* Zone, 15, 1116, 1121
- Cyrtocapsella eldholmi*, new species, 1125
- Cyrtocapsella eldholmi* Zone, 15, 1115
- Cyrtocapsella eldholmi* Zone, defined, 1104
- Ecological interpretations, 1117
- Gondwanaria japonica* Zone, defined, 1104
- Gondwanaria japonica* Zone, 15, 463
- Iceland Plateau, 1116
- Iceland-Faeroe Ridge, 1105
- Jan-Mayen Ridge, 1115
- Knipovich Ridge, 1114
- Lithomelissa stigi*, new species, 1125
- Lithomelissa stigi* Zone, 15, 202, 1120
- Lophocorys norvegiensis* Zone, 13
- Lynchnocanium bipes* Zone, 195
- method of preparation, 1103
- Mohns Ridge, 1114
- Norway Basin, 1108
- Norwegian Sea, 1101
- Phorticium* sp. A Zone, 13
- Phorticium* sp. A Zone, defined, 1104
- Quaternary-Tertiary stratigraphy, 1101
- Site 336, 43, 1106
- Site 337, 127, 1108
- Site 338, 195, 1108
- Site 339, 198, 1112
- Site 340, 199, 1112
- Site 341, 202, 1112
- Site 342, 204, 1109
- Site 343, 1109
- Site 344, 1114
- Site 345, 463
- Site 346, 535, 1115
- Site 347, 536, 1115
- Site 348, 606, 1116
- Site 349, 538, 1115
- Site 350, 662, 1116
- Site 352, 46, 1106
- Stichocorys bicornis* Zone, 1114
- Stichocorys bioconica* Zone, 15
- stratigraphy of, 1103
- taxonomy, 1120, 1121
- Velicucullus oddgurneri* Zone, defined, 15, 463, 1104
- new species, 1126
- Vøring Plateau, 1108
- zonation of, 1103, 1200
- Red clay, Site 336, paleomagnetism, 30
- reflector, Oligocene, 775, 776, 777, 780
- Reticulofenestra pseudoumbilica* Zone, 824
- Reticulofenestra umbilica* Zone, 15, 824
- Reworked material, Site 336, 45
- Reworking, plant material, 901
- Reykjanes Ridge, 5
- Rhaphidodiscus marylandicus* Zone, 930
- Rhaphoneis angulata*, new diatom species, 995
- Rhaphoneis elliptica*, new diatom species, 995
- Rhaphoneis ossiformis*, new diatom species, 995
- Rhaphoneis robusta*, new diatom species, 996
- Rhapidodiscus marylandicus-Nitzschia maleinterpretaria* zones, 930
- Rhizosolenia barboi* Partial Range Zone, defined, 927
- Rhizosolenia barboi* Zone, 606, 933, 945, 956, 959
- Rhizosolenia barboi* Partial Range Zone, diatoms, 202, 942

- Rhizosolenia curvirostris* Zone, 927
Rhizosolenia curvirostris/Actinocyclus oculatus Zone, 927
Rhizosolenia miocenica Partial Range Zone, defined, 929
Rhizosolenia miocenica Zone, 606
Rhizosolenia norwegica Zone, 195
 Rhodo-type porphyrins, 785
 Ridge axis shift from Norway Basin, 1218
 Rockall Bank, nannofossils, 827, 834
Rouxia granda, new diatom species, 997
Sceptroneis caducea Zone, 195
Sceptroneis caducea Partial Range Zone, defined, 929
Sceptroneis caducea Zone, 606, 930, 939
Sceptroneis facialis, new diatom species, 998
Sceptroneis humuncia, new diatom species, 998
Sceptroneis ossiformis, new diatom species, 998
Sceptroneis pesplanus, new diatom species, 998
Sceptroneis propinqua, new diatom species, 999
Sceptroneis pupa, new diatom species, 999
Sceptroneis pupa Partial Range Zone, 932
Sceptroneis pupa Zone, 195, 940
Sceptroneis talwanii, new diatom species, 999
Sceptroneis tenuis, new diatom species, 999
Sceptroneis vermiciformis, new diatom species, 999
 Scientific goals, Leg 38, 3
 Secondary mineral alterations, 701
 Sediment accumulation rates, 940
 - Site 336, 45, 47
 - Site 337, 127, 128
 - Site 338, 207
 - Site 341, 46, 207
 - Site 342, 46, 207
 - Site 344, 392, 400
 - Site 345, 464
 Sediment classification, 11
 Sediment potential, petroleum genesis, 785
 Sediment/basalt contact, 208
 Sedimentary hiatus, 210
 Sedimentary structures
 - cross-bedding, 391, 453
 - graded bedding, 453
 Sediments, geochemistry of, 125
 - Site 337, 125
 Seismic profiles, 771, 774, 776, 777, 781
 Seismic profiles, correlation with lithology
 - Site 336, 47
 - Site 348, 622
 Shipboard scientific procedures, 8
 Silicoflagellates,
 - basis for age determination, 18
 - Corbisema bimucronata* Zone, 196, 199, 863, 864, 868
 - Corbisema bimucronata* Zone, defined, 858
 - Corbisema katharina*, new species, 848
 - Corbisema triacantha* Zone, 195, 463, 847, 863, 864, 866
 - Corbisema triacantha* Zone, defined, 860
 - correlation with nannofossils, 861
 - Dictyocha hexacantha* Zone, 846, 847
 - Dictyocha quadrata* Zone, 196
 - Dictyocha quadria* Zone, 861, 863
 - Dictyocha quadria* Zone, defined, 858*Dictyocha quadria*, new combination, 870
Dictyocha torta, new species, 871
Dictyocha transitoria Zone, defined, 857
Dictyocha triacantha Zone, 204, 535, 606
Distephanus boliviensis Zone, 606, 866
Distephanus octangulatus Zone, 861
Distephanus pseudofibula, new combination, 848
Distephanus speculum Zone, 866
Distephanus speculum gigantueus, new subspecies, 848
Distephanus speculum Zone, 18, 606, 863, 864
Distephanus speculum Zone, defined, 861
Distephanus boliviensis Zone, defined, 860
Mesocena apiculata *curvata*, new subspecies, 849
Mesocena circulus Zone, 195, 203, 606, 863, 864, 866
Mesocena circulus Zone, defined, 860
Naviculopsis biapiculata Zone, 127, 196, 198, 860, 863, 864, 868
Naviculopsis biapiculata Zone, defined, 858
Naviculopsis foliacea Zone, 861, 864
Naviculopsis lata Zone, 44, 195, 204, 463, 863, 864
Naviculopsis lata Zone, defined, 860
Naviculopsis minor Zone, 206, 863, 864
Naviculopsis minor Zone, defined, 857
Naviculopsis navicula Zone, 195, 204, 863, 864
Naviculopsis navicula Zone, defined, 860
Naviculopsis nordica, new species, 849
Naviculopsis nordica *hyalina*, new subspecies, 849
Naviculopsis punctilia *taenia*, new subspecies, 849
Naviculopsis punctilia Zone, 846, 861
Naviculopsis quadrata Zone, 843, 847
Naviculopsis vema Zone, 846, 861
 Norwegian-Greenland Sea, 857
 Ornamentation of, 867
 Site 336, 44, 863
 Site 337, 127, 863
 Site 338, 195, 844, 863
 Site 339, 198, 864
 Site 340, 199, 846, 864
 Site 341, 202, 846, 864
 Site 342, 204, 864
 Site 343, 206, 847, 864
 Site 345, 463, 847, 864
 Site 346, 535
 Site 347, 847
 Site 348, 606, 847, 866
 Site 349, 845
 Site 350, 662, 866
 Site 352, 46, 866
 skeletal characteristics of, 866
 stratigraphy, Norwegian-Greenland Sea, 843
 taxonomy of, 848, 868
 zonation, 843, 1197
 - Norwegian-Greenland Sea, 857
 Site selection,
 - Iceland-Faeroe Ridge, 1220
 - Jan-Mayen Ridge, 1230
 - Norway Basin, 122
 Site survey,
 - Site 338, 154
 - Site 339, 155
 - Site 340, 155

- Site 341, 156
 Site 343, 159
 Site 345, 451
 Site 346, 522
 Site 347, 523
 Site 349, 523
 Site 350, 655
Site 336,
 age of basement, 47
 basalt petrography, 717
 biostratigraphy, 40
 climate changes, Quaternary, 47
 diatoms, 43, 933
 forams, 40
 general description, 24
 geochemistry of basalts, 38
 geologic history, 28
 ice rafting, history of, 29
 Iceland-Faeroe Ridge, 23
 igneous petrography, 37
 inorganic geochemistry, 40
 K/Ar ages, basalt, 756
 lithology, 27
 nannos, 42, 828, 831, 843
 objectives, 25
 operations, 25
 organic carbon in sediments, 815
 paleomagnetism, red clay, 30
 palynology, 44, 1169
 physical properties, 38
 plant organic matter, 815
 pollen list, 1170
 rads, 43, 1106
 reworked material, 45
 sediment accumulation rates, 47
 sedimentation rates, 45
 seismic reflection profile compared with lithology, 47
 silicos, 44, 863
 subsidence, 47
 summary and conclusions, 46
Site 337,
 background, 117
 basalt, 122
 biostratigraphy, 126
 diatoms, 127, 929
 forams, 126
 gas dissolved in sediments, 125
 igneous rocks, 120
 K/Ar ages, basalt, 758
 lithology, 118
 nannos, 127, 829
 Norway Basin, 117
 objectives of, 118
 operations, 118
 palynology, 127
 physical properties, 124
 rads, 127, 1108
 sediment accumulation rates, 127, 128
 sediments, 125
 silicos, 127, 863
 summary and conclusions, 127
Site 338,
 basalt geochemistry, 180
 biostratigraphic summary, 189
 diatoms, 195, 939
 drilling operations, 154
 forams, 191
 gas in Tertiary sediments, 187
 igneous petrography-petrology, 179
 K/Ar ages, basalt, 758
 lithology, 163
 nannos, 194, 830, 843
 palynology, 196, 1169, 1170
 physical properties, 181
 rads, 195, 1108
 sediment accumulation rate, 207
 silicos, 195, 844, 863
 site survey, 154
 tetrapyrrole pigment content of sediments, 785
 Vøring Plateau, 151
Site 339,
 biostratigraphy, 197
 diatoms, 197, 940
 drilling operations, 155
 forams, 197
 lithology, 168
 nannos, 197, 831, 845
 palynology, 198
 physical properties, 182
 rads, 198, 1112
 silicos, 198, 864
 site survey, 155
 thermal history, 785, 798
 Vøring Plateau, 151
Site 340,
 biostratigraphy, 198
 diatoms, 198, 944
 drilling operations, 155
 forams, 198
 lithology, 169
 nannos, 198, 846
 palynology, 199
 physical properties, 185
 rads, 199, 1112
 silicos, 199, 846, 864
 site survey, 155
 Vøring Plateau, 151
Site 341,
 biostratigraphy, 199
 carbonate content of sediments, 810
 diatoms, 202, 944
 forams, 200
 gas in tertiary sediments, 187
 lipid material content of sediments, 810
 lithology, 171
 nannos, 202, 831, 846
 organic carbon content of sediments, 810
 organic diagenesis, Miocene sediments, 809
 palynology, 203
 petroleum genesis, 799
 physical properties, 185
 rads, 202, 1112
 sediment accumulation rate, 207

- silicos, 202, 846, 864
 site survey, 156
 tetrapyrrole content of sediments, 785
 thermal history, 798
 Vøring Plateau, 152
- Site 342,**
 basalt geochemistry, 180
 biostratigraphy, 203
 diatoms, 204, 942
 drilling operations, 158
 forams, 203
 igneous petrography-petrology, 179
 K/Ar ages, basalt, 758
 lithology, 175
 nannos, 204, 831
 operations, 157
 palynology, 204
 physical properties, 186
 rads, 204, 1109
 sediment accumulation rate, 207
 silicos, 204, 864
 tetrapyrrole pigment content of sediments, 786
- Site 343,**
 basalt geochemistry, 180
 biostratigraphy, 205
 diatoms, 206, 943
 drilling operations, 159
 forams, 205
 igneous petrography-petrology, 180
 K/Ar ages, basalt, 758
 lithology, 176
 nannos, 206, 832, 847
 palynology, 206
 physical properties, 186
 rads, 1109
 silicos, 206, 847, 864
 site survey, 159
 Vøring Plateau, 152
- Site 344,**
 background, 389
 basalt, differentiation index, 717
 basalt petrography, 717
 basalt/chemical analysis of, 717
 biostratigraphy, 395
 diatoms, 943
 drilling operations, 389
 forams, 395
 gas dissolved in sediments, 395
 geochemistry of sediments, 395
 igneous petrology, 393
 K/Ar ages, basalt, 758
 Knipovich Ridge, 389
 lithology, 390
 nannos, 399, 832, 847
 operations, 389
 palynology, 399
 physical property measurements, 395
 principal objective for drilling, 389
 rads, 1114
 sediment accumulation rate, 392, 400
 summary and conclusions, 400
 turbidites, 391
- Site 345,**
 background and objectives, 451
 biostratigraphy, 458
 deposition of terrigenous organic matter, 806
 diatoms, 463, 944
 drilling operations, 452
 geochemical measurements, 458
 K/Ar ages, basalt, 758
 lithology, 453
 nannos, 461, 832, 847
 operations, 451
 palynology, 463, 1169
 petrography petrology of, igneous rocks, 457
 physical properties, 458
 rads, 463
 sediment accumulation rates, 464
 silicos, 463, 847, 864
 site survey, 451
 summary and conclusions, 465
- Site 346,**
 background and objectives, 522
 biostratigraphy, 531
 diatoms, 535
 drilling operations, 522, 523
 forams, 532
 gas in Tertiary sediments, 531
 Jan-Mayen Ridge, 521, 866
 lithology, 524
 nannos, 534, 833, 847
 palynology, 535, 1169
 physical properties, 531
 pollen list, 1170
 rads, 535, 1115
 silicos, 535
 site survey, 522
 summary and conclusions, 538
 tetrapyrrole pigment content of sediments, 787
- Site 347,**
 background and objectives, 522
 biostratigraphy, 536
 diatoms, 944, 945
 gas in Tertiary sediments, 531
 Jan-Mayen Ridge, 521
 lithology, 527
 nannos, 536, 833, 847
 palynology, 536
 physical properties, 531
 rads, 536, 1115
 silicos, 847
 site survey, 523
 summary and conclusions, 538
- Site 348,**
 background, 595
 basalt petrography, 718
 biostratigraphy, 604
 correlation of lithologic units with seismic profiles, 655
 diatoms, 606, 945
 dissolved gas analysis, 604
 fluorescence of sediments, 805
 forams, 604
 interstitial water analyses, 604

- K/Ar ages, basalt, 758
 lithology, 596
 nannos, 606, 833, 847
 objectives, 595
 operations, 595
 palynology, 606, 1169, 1170
 physical properties, 601
 rads, 606, 1116
 silicos, 606, 847, 866
 summary, 607
- Site 349,
 background and objectives, 522
 biostratigraphy, 537
 diatoms, 538, 952
 drilling operations, 524
 forams, 537
 gas in Tertiary sediments, 531
 Jan-Mayen Ridge, 521
 lithology, 528
 nannos, 538, 833, 848
 palynology, 538
 physical properties, 531
 rads, 538, 1115
 silicos, 845
 site survey, 523
 summary and conclusions, 539
- Site 350,
 background and objectives, 655
 biostratigraphy, 660
 diatoms, 662, 952
 drilling operations, 656
 forams, 660
 geochemistry, 659, 660
 igneous petrography-petrology, 657
 Jan-Mayen Ridge area, 655
 K/Ar ages, basalt, 759
 lithology, 656
 nannos, 661, 833
 palynology, 662
 physical properties, 659
 rads, 662, 1116
 silicos, 662, 866
 site survey, 655
 summary and conclusions, 663
- Site 351, operations summary, 7
- Site 352,
 background and objectives, 25
 biostratigraphy, 45
 forams, 45
 Iceland-Faeroe Ridge, 23
 inorganic geochemistry, 40
 lithology, 35
 nannos, 46, 833
 operations, 25
 rads, 46, 1106
 sedimentation rates, 46
 silicos, 46, 866
 summary and conclusions, 48
- Slickensides, p. 393
- Snafellsernes Fracture Zone, 752
- Soluble hydrocarbons, 809
- Sphaerolithus distentus* Zone, 195
- Sphenolithus belemnos* Zone, 826
Sphenolithus ciperoensis Zone, 15, 826
Sphenolithus distentus Zone, 824, 826
Sphenolithus distentus Zone (NP24), 826
Sphenolithus distentus/Sphenolithus ciperoensis Zone (NP24/NP25), nannos, 46, 833
Sphenolithus heteromorphus Zone (NN5), 837
Spirodigmoilinella Zone, 15
 Spreading axis, jump of, 1237
 Spreading rate, Mohns Ridge, 1224
Srephanogonia horridus, new diatom species, 1001
Stichocorys bicornis Zone, 1114
Stichocorys bicornis Zone, defined, 1104
Stichocorys bioconica Zone, 15
 Stratigraphic hiatus,
 Eocene, 765, 782
 Miocene, 782
 Oligocene-Eocene, 767
 Oligocene-Pliocene, 37
 Pliocene-Miocene, 458, 465
 upper Eocene-lower Oligocene, 901
 Stratigraphic terminology, 11
 Subsidence, 777
 Subsidence of,
 Iceland-Faeroe Ridge, 1220
 Iceland-Faeroe Ridge, 30
 Iceland-Faeroe Ridge, 1218
 Iceland-Faeroe Ridge, 25
 Site 336, 47
 Subvolcanic facies, 701
Synedra jouseana Partial Range Zone, defined, 931
Synedra jouseana Zone, 195, 939
 Taxonomy,
 diatoms, 965
 dinos, 901
 rads, 1120, 1121
 silicoflagellates, 868
 Tectonic evolution, Norwegian Sea, 1218
 Temperature history, 802
 Tertiary sediments,
 Site 338, gas in, 187
 Site 341, gas in, 187
 Site 346, gas in, 531
 Site 347, gas in, 531
 Site 349, gas in, 531
 Tetrapyrrole content of sediments, 785, 786, 787
Thalassiosira aff. irregulata, new diatom species, 1002
Thalassiosira dubiosa, new diatom species, 1001
Thalassiosira fraga, new diatom species, 1001
Thalassiosira fraga, Partial Range Zone, 204, 463, 930, 943
Thalassiosira fraga Zone, 195, 939
Thalassiosira gravida var. fossils Partial Range Zone, 929
Thalassiosira gravida Zone, 606, 952
Thalassiosira irregulata, new diatom species, 1001
Thalassiosira irregulata Zone, 940
Thalassiosira irregulata Partial Range Zone, defined, 932
Thalassiosira kryophila Partial Range Zone, defined, 927
Thalassiosira kryophila Zone, 606, 933, 952

- Thalassiosira lusca*, new diatom species, 1002
Thalassiosira mediaconvexa, new diatom species, 1002
Thalassiosira destrupii Partial Range Zone, defined, 927
Thalassiosira destrupii Zone, 606, 952
Thalassiosira destruppi Partial Range Zone, 952
Thalassiosira destruppi Zone, 933, 952, 956
Thalassiosira zabelinae Zone, 927
 Thermal alteration, pellen, 900
 Thermal history,
 Leg 38 sediments, 801
 Site 339, 798
 Site 339, 785
 Site 341, 798
 Thermal perturbation, 752
 Thermomagnetic analysis, 33
 Tholeiitic pillow lavas, 751
 Thulean (Brito-Arctic) volcanic province, 741
 Thulean Land Bridge, 25
 Tjornes Fracture Zone, change in magma type, 752
 Trace element chemistry of, basalt, 731
Tribrachiatus orthostylus Zone, 843, 847
Triceratium barbadense Partial Range Zone, 926, 933
Triceratium barbadense Zone, 195, 926, 940
Trochospira coronata, new diatom species, 1003
 Turbidite deposition, 453
 Turbidites, 763, 773, 777, 781
 Turbidity currents, 391
 Unconformity, 776
 Jan-Mayen Ridge, 1230
 Upper Eocene-lower Oligocene, stratigraphic hiatus, 901
 Upper Pliocene/Quaternary, nannos, 828
 Vanadyl porphyrin, 785
 Variolitic basalt, petrography of, 600
Velicucullus oddgurneri, new radiolarian species, 1126
Velicucullus oddgurneri Zone, defined, 1104
Velicucullus oddgurneri Zone, 15, 463
 Vitrinite reflectance, 801
 Volcanic, ash, 765
 ice-rafted material, 600
 Volcanic activity, Vøring Plateau, 1236
 Volcanic ash, 120, 598, 765, 782
 Volcanic glass, 765, 773
 Volcanic rocks, petrochemical characteristics, 701
 Volcanism, 765, 782
 Vøring Plateau, 781, 761, 763, 767, 781, 782, 1231
 age of basement, 1233
 basalts, 720, 752
 diapirism, 210
 igenous rocks, 693
 magnetic field, 154
 nature of sediments, 210
 physiography, 3
 rads, 1108
 Site 338, 151
 Site 339, 151
 Site 340, 151
 Site 341, 152
 Site 343, 152
 volcanic activity, 1236
 Vøring Plateau escarpment, 166
 Vøring Plateau, origin of, 209
 West Scotland Plateau, 751
 Wilcox Complex, 1174
 X-ray mineralogy, method of, 11
 Zonation,
 dinoflagellates, 901
 silicoflagellates, 843
Zoophycos, 163, 173, 453