

INDEX

- Abathomphalus mayaroensis* Zone, 124, 173, 488, 493
Abyssal circulation, Cenozoic, 817
Acarinina densa Zone, 124
Accumulation rate, Sediments, 513
 rates, Black clays, 797
 Neocomian limestones, 797
 Paleocene sediments, 815
 Turonian/Maestrichtian multicolored clays, 811
Acoustic basement of Vogel Seamount, 173
 horizons, Site 387, 350
 stratigraphy, principles, 844
 terminology, history of, 827
 velocity, 76
Advection of pore waters, 419
Aeromagnetic survey, 863
Africa Plate, 12, 852
Age and lithology of reflectors, 10
 of *J*-Anomaly, 96
 of *J*-Anomaly Ridge, 806
 basement, Site 384, 130
 overlying sediments, *J*-Anomaly Ridge, 806
 the crust, 521
 volcanism along New England seamounts, 155
Age-depth curve, 610
Ages of volcanism, 847
Algal reefs, 34
Alkali basalts, 854
Alpine/Mediterranean facies province, 592
Alteration, hydrothermal, 727
 Low-temperature, 727
 of magnetic minerals, 773
Aluminum to titanium ratio, 681
Amazon Cone, 816
Amygdules, zeolites, 471
Anaerobic environments, 640
Analytical techniques, basalt, 721
Anerobic conditions, 640
Analytical techniques, basalt, 721
Anoxic bottom water, 416, 795, 799
 extent in early Cretaceous, 799
 pore waters, 417
 of Lower Cretaceous black shales, 419
Antarctic bottom water (AABW), 817, 819
 Circumpolar Current, 819
Antarctica, intensified glaciation of, 819
Aptian Reefs and *J*-Anomaly Ridge, Site 384, 107
Aptychi, *Lamellaptychus mortilleti* group, 591
 New species, *Lamellaptychus ambiguus*, 593
 bermudensis, 592
 elegans, 593
 lorioli, 593
 oceanicus, 593
 pelagicus, 594
 Systematic descriptions, 592
Archipelagic apron, 176
Atlantic paleogeography, early Paleocene, 697
Authigenic Silica, 677
 minerals, 461
Authorship, responsibilities, 15
Back-reef environment, 118, 423
 facies, 118
Background and objectives, Site 382, 31
 Site 383, 95
 Site 384, 108
 Site 385, 155
 Site 386, 196
 Site 387, 323
Bahama Banks, 793, 795, 828
Basal erosion, 399
Basalt, analytical techniques, 721
 bulk densities, 769
 compressional wave velocities, 769
 dating methods, 741
 depth of eruption, *J*-Anomaly Ridge, 805
 differentiation index, 805
 elastic constants, 769
 geochemistry, 721, 728
 high-temperature deuterium oxidation, 805
 large-ion-lithophile depleted, 805
 enriched, 803
 low-temperature oxidation, 805
 petrology, 721
 radiometric ages, 739
 Reykjanes Ridge, 13
 sediment enclosures, 728
 shear velocities, 769
 Site 384, 118, 773
 J-Anomaly Ridge, 726
 magnetic properties, 130
 Site 386, 776
 Central Bermuda Rise, 727
 Site 387, 776
 Western Bermuda Rise, 727
 vesicularity, 806
Basaltic basement, Site 386, 236
Basement high comprising *J*-Anomaly Ridge, 128
 petrology, Site 387, 337
 rocks of Site 386, 217
Bear Seamount, 34
Bedded Porcellanites, 438
Bekoma bidartensis, 126, 228
Benthic foraminifera, agglutinated, 851
 Site 384, 126

- Bermuda, 5
 Late Cretaceous volcanism at, 840
 tectonism on, 407
 discontinuity, 866
 Pedestal, 10, 213, 215
 construction of, 816
- Bermuda Rise, 54, 128, 457, 633, 663, 815, 829
 tetrapyrrole pigments, 658
 uplift forming, 832
- Bermuda Seamount, 408
- Bimini Lagoon, 422
- Biorbifera johnnewingii* Zone, 587
- Biostratigraphy, Site 382, 51
 Site 384, 121
 Site 385, 171
 Site 386, 224
 Site 387, 341
- Bioturbation, 124, 336
- Biscutum tenuiculum assemblage, 624
- Biscutum?* *tenuiculum*, new nannofossil species
- Black clay deposition, 801
 clays, accumulation rates, 797
 composition of, 796
 eastern North Atlantic Ocean, 811
 fracture valley deposition of, 795
 Lower Cretaceous, 5
 south Atlantic Ocean, 811
- claystone, chemical composition, 677
- mudstone, 411
 Per cent thickness of, 411
- Black Sea, 640
- Blake Escarpment, 811
 Cretaceous reefs along, 11
 reefal limestones, 810
- Blake Outer Ridge, 817
- Blake Spur anomaly, 867
- Bone debris, 459
- Bottom-current erosion, 836
 currents, 126, 336, 817
 deposition control by, 160
 Eocene, 836
- temperature record, Site 384, 702
- water, 415
 anoxic, 795
 poorly oxygenated, 794
 stagnation, 795
- Bouma sequence, 396
- Bowditch Seamount, 232
- Braarudosphaerid Assemblage, 617
- Braggs section (continental shelf), southern Alabama, 812
- Brito-Arctic ("Thulean") province, volcanism in, 815
- Bryozoans, macrofossils, 117, 421
- Bulk composition, sediments, 675
 densities, Basalt, 769
 properties, Site 382, 49
 Site 384, 121
 Site 385, 169
 Site 386, 221
- Burrow fillings, 124
 mottles, 114, 118, 396, 413
- Buryella clinata* Zone, 228
- Calcareous nannoplankton, 507
- Campylospira eodelta* Subzone, 125, 227, 520
- Canary Islands, 853
 volcanism, 32
- Carbon analyses, grain-size, 1043
 contents of, Site 387 limestones, 793
 cycle, 799
 geochemistry of, 651
 influx, cycle of, 799
 isotopic record on the bottom, Site 384, 703
 P.1 Zone, 715
 P.2 Zone, 715
 P.3 Zone, 716
 P.4 Zone, 716
 P.5 Zone, 716
- Carbonate analyses, grain-size, 1043
- Carbonate compensation depth, 9, 131, 396, 413, 793, 811, 841
 Cretaceous/Tertiary boundary, 814
- Early Cretaceous, 795
- Maestrichtian depression of, 812
- Neogene, 820
 fluctuations, 178
 Late Jurassic, 793
 in the Maestrichtian, 166
- content, sediments, 669
 data, 18
 lysocline, 794
 sand, description of, 422
- Carbonates, diagenetic alteration of, Site 384, 807
 Maestrichtian, 812
 distribution of, 840
- Cariaco Trough, 640
- Caribbean volcanism, 815
- Caroline Abyssal Plain, 613, 813
- Cataclysms, extra-terrestrial, 814
- Cenomanian black shales, North Atlantic Ocean, 417
 transgression, 118
- Cenozoic, abyssal circulation, 817
- foraminifera, Site 382, 51
 Site 385, 172
 Site 386, 225
 Site 387, 341
 nannofossils, 512, 513, 515, 518, 520
 radiolarians, Site 386, 228
 rates of erosion, 819
 sediment drifts, 819
 Site 384, 123
 foraminifera, 124
- Central Bermuda Rise, 10
 basalt, Site 386, 727
 Site 386, 195
- Central North Atlantic Ocean, J-anomaly, 879
- Ceratolithus cristatus* Subzone, 512
- Cessation of volcanism on Nashville Seamount, 740
 Vogel Seamount, 744
- Challenger Bank, 777
- Chemical composition, Black claystone, 677
 hemipelagic clay, 675
 pelagic clay, 677

- red claystone, 677
- siliceous mud, 675
 - turbidites, 675
- terrigenous turbidites, 675
- variegated claystone, 677
- volcaniclastic sediments, 677
- zeolites, 478
- Chert, Eocene development of, 834
 - distribution of, 833
 - occurrence north of New England Seamounts, 131
- Chiasmolithus bidens* Subzone, Nannos, Zonation, 125, 513
 - danicus* Zone, Nannos, Zonation, 125, 512, 514, 605, 787
 - oamaruensis* Subzone, Nannos, Zonation, 227, 519
- Chlorin to porphyrin transition, 660
- Chlorins, characterization of, 658
- Chromite, 776, 805
- Circulation, deep exchange between North and South Atlantic Oceans, 802
- Circum-global current, 797
- Circumequatorial current (Tethys), Paleocene, 697
- Clavatipollenites* Zone, 588
- Climatic cooling, early Cenozoic, 817
- Clinoptilolite, 464
 - morphology of, 472
 - relation to carbonate, 472
- Clinopyroxene, dominant heavy mineral, Site 386, 407
- Coarse fraction, mineralogy, 457
- Complexiopollis* Zone, 588
- Compressional wave velocities, basalt, 769
- Congress Seamount, 12, 847, 851
- Construction of Bermuda Pedestal, 816
- Continent/ocean crustal boundary, 869
- Continental rise, development of, 819
- Cool water assemblages, foraminifera, 51
- Corals, macrofossils, 117, 124, 421
- Core disturbance, 758
 - drained unloading, 758
 - handling, 17
- Core-to-rim pillow structure, 166
- Corner Rise, 12, 735
 - seamounts, 815, 847
- Correlation of Horizon A with chert, 832
- Correlation of seismic profile with drilling results, Site 382, 53
 - Site 383, 102
 - Site 384, 128
 - Site 385, 173
 - Site 386, 228
 - Site 387, 347
- Coulter counter, 397, 414
- Cretaceous, foraminifers, 487
 - black clays, 336
 - shales, 643
 - cores, organic carbon content, 651
 - organic-carbon-rich black clays, 633
 - Quiet Zone, 5, 232, 783, 852
 - reefs, 437
 - along Blake Escarpment, 11
 - development of, 11
- sea level fluctuations, 808
- sediments, magnetostratigraphy, Site 386, 781
- stratigraphic hiatus, 116, 131
- Cretaceous/early Paleocene, sediment accumulation rates, 118
- Cretaceous/Paleocene, temperature changes, 703
- Cretaceous/Tertiary boundary, 9, 171, 605, 710, 812
 - carbonate compensation depth, 814
 - effect on fauna, 697
 - event, 601
 - possible disturbance at Site 384, 813
 - sediment mixing, 608
 - Site 384, 124
 - stratigraphic hiatuses, 613
 - sequence, 131
 - unconformities at, 815
 - unconformity at, 812
- Cretarhabdus angustiforatus* Zone, 345, 521
- Cristobalite, 811
- Cross laminations, 43, 164
- Cruciplacolithus tenuis* zone, (NP 2), 125, 173, 512 515, 813
 - tenuis-Zygodiscus* Assemblage, 617, 624
- Cruise narrative, Site 382, 5
 - Site 383, 8
 - Site 384, 8
 - Site 385, 9
 - Site 386, 10
 - Site 387, 10
- Crustal ages, Site 386, 11
 - Site 387, 11
- Curie temperature, 773
- Current erosion, 34
- Cyles, long period climatic, 799
- Cyclic bedding, Site 386, 413
 - Site 387, 415
 - sedimentation, Site 387, 413
- Cyclococcolithus macintyrei* Subzone, 52, 512
- Dating methods, basalt, 741
- Debris flows, 165
- Deep exchange between North and South Atlantic oceans, circulation, 802
- Deep-water fractionation, 614
- Deflandrea echinoidea* Zone, 587
 - vestita* Zone 587
- Density and acoustic velocity, Site 382, 49
 - Site 384, 121
 - Site 385, 170
 - Site 386, 222
- Deposition control by bottom currents, 160
- Depositional and tectonic history of the North American Basin, 793
 - environment, Neocomian limestones, 794, 797
 - Site 384, Sediments, 422
 - history, Site 387, 336, 351
- Depth of eruption, *J-Anomaly Ridge* basalt, 805
 - formation, *J-Anomaly Ridge*, 807
- Deuteric oxidation, 773
- Development of, chert, Eocene, 834
 - continental rise, 819
 - Cretaceous reefs, 11

- Diagenesis of the carbonates, Site 384, 423
 Diagenetic alteration of carbonates, Site 384, 807
 formation of porcellanites, 446
 Differentiation index, basalt, 805
 Dinoflagellates, Zonation, *Biorbifera johnnewingii* Zone, 587
 Deflandrea echninoidea Zone, 587
 vestita Zone, 587
 Druggidium apicopaucicum Zone, 587
 deflandrei Zone, 587, 588
 rhabdoreticulatum Zone, 587
 Odontochitina operculata Zone, 587
 Trithyrodinium suspectum Zone, 588
 Dipole field, magnetic, during mid-Cretaceous, 867
 Discoaster Assemblage, 622
Discoaster bifax Subzone, 125, 227, 342, 519
 Zone, 123
 binodosus Subzone, 343, 520, 521
 diastypus Zone, 343, 519
 lodoensis Zone, 342, 513, 519, 521
 mohleri Zone, 227, 513, 520
 nobilis Zone, 513
 quinqueramus Zone, 53, 123, 125, 227, 512, 518
 saipanensis Subzone, 519
 Zone, 227
 strictus Subzone, 513
 sublodoensis Zone, 125, 342, 519
 tamalis Subzone, 512
Discoasteroides kuepperi subzone, 513, 521
 Distributional data and assemblages, 617
 Dolomiticrite, 423
 Dolomitization, 423
 Drained unloading, core disturbance, 758
 Drake Passage, 819
 Drilling and coring, 13
 disturbance, 18, 124
Druggidium apicopaucicum Zone, 587
 deflandrei Zone, 587, 588
 rhabdoreticulatum Zone, 587
 Dysaerobic environments, 640
 DPEP series, 660
 Early Cenozoic, Climatic cooling, 817
 Cretaceous, carbonate compensation depth, 795
 Paleocene, Atlantic paleogeography, 697
 rudist reefs, 810
 sea level, 797
 Tertiary/Late Cretaceous sediments, Site 384, paleo-magnetic results, 785
 East Coast anomaly, 867
 Pacific Rise, metalliferous sediments, 682
 Eastern North Atlantic Ocean, black clays, 811
 Echinoderms, macrofossils, 117
 Edaphogenous minerals, 461
 Effective carbon, 663
 principal stresses, 765
 Elastic constants, basalt, 769
Ellipsolithus macellus Zone, 125, 343, 512, 514, 521
Emiliania huxleyi Zone, 101, 342, 515, 520
 ovata Subzone, 512, 518
 End-Cretaceous extinctions, 814
 Engineering data, Leg 43, 757
 Eocene, bottom currents, 836
 development of chert, 834
 distribution of chert, 833
 turbidites, 832
 equatorial current system, 817
 siliceous productivity, 834
 stratigraphic hiatus, 132
 turbidites, 840
 volcanic activity, 178
Ephedripites multicostatus Zone, 588
 Episodic activity, volcanism, 853
 Equatorial current system, Eocene, 817
Ericsonia subpertusa Assemblage, 617
 Erosion, rates of, Cenozoic, 819
 Etio series, 660
 Events in the deep circulation, 817
 Evolution of earliest Tertiary nannofossils, 606, 608
 Exhalation-sedimentation hypothesis, 693
 Extinction of rudist reefs, 808
 Extinctions, related to climate, 814
 extra-terrestrial causes, 814
 magnetic reversals, 814
 nutrient supply, 815
 sea level, 814
 volcanism, 814
 Extra-terrestrial cataclysms, 814
 Falkland Plateau and South Africa, separation of, 802
Fasciculithus tympaniformis Zone, 513
 Faunal differentiation across the Iceland-Faeroe Ridge, 819
 Flank of Vogel Seamount, Site 385, 725
 Florida platform, 869
 Fluxoturbidite, 168
 Foraminifers, Site 382, Mesozoic, 52
 smaller Cretaceous, 487
 Foraminifers, agglutinated, 494
 Cenozoic, Site 384, 124
 cool water assemblages, 51
 Mesozoic, Site 384, 124
 morphology and water temperatures, 709
 new species, *Subbotina trilocularis*, 716
 P.1. Zone, carbon, 715
 temperature, 715
 P.2 Zone, carbon, 715
 paleotemperatures, 713
 temperature, 715
 P.3 Zone, carbon, 716
 paleotemperatures, 713
 temperature, 716
 P.4 Zone, 716
 carbon, 716
 paleotemperatures, 714
 temperature, 716
 P.5 Zone, carbon, 716
 paleotemperatures, 714
 temperature, 716
 Site 217, 123, 124
 Site 382, 487
 Cenozoic, 51
 Site 383, 102
 Site 384, 488

- Site 385, 493
 Cenozoic, 172
 Mesozoic, 172
 Site 386, 494
 Cenozoic, 225
 Mesozoic, 225
 Site 387, 496
 Cenozoic, 341
 Mesozoic, 341
 Taxonomic comments, 492
 Zonation, *Abathomphalus mayaroensis* Zone, 124, 173, 488, 493
 Acarinina densa Zone, 124
 Globigerapsis kugleri Zone, 123, 124
 Globigerina eugubina Zone, 123, 131, 700, 710, 714
 taurica Zone, 710, 813
 Globorotalia angulata Zone, 123
 pseudobulloides Zone, 606, 700, 702, 712
 pseudomenardii Zone, 124
 pusilla pusilla Zone, 124
 trinidadensis Zone, 700, 709, 712
 Globotruncana arca Zone, 125, 488, 491
 elevata Zone, 52, 487, 741
 gansseri Zone, 488
 Hantkenina aragonensis Zone, 124
 N.17 Zone, 52, 225
 P.1 Zone, 700, 701, 703, 709, 712, 715
 P.2 Zone, 700, 701, 703, 709, 712, 715
 P.3 Zone, 700, 703, 709, 712, 716
 P.4 Zone, 702
 Planomalina buxtorfi Zone, 496
 Rotalipora apenninica Zone, 496
 Thalmanninella tictinensis Zone, 496
 Formation of the Isthmus of Panama, 11
 New England seamounts, 746
 Fracture valley deposition of black clays, 795
 Zone, 734
 Free-base porphyrins, 658
 Fresh-water diagenesis, 423
 Galapagos spreading axis, 805
 Ridge, 98
 Gastropods, macrofossils, 117, 421
 Geochemical measurements, Site 386, 217
 Geochemistry, 22
 basalt, 721, 728
 Site 382, 47
 Site 384, 120
 Site 385, 168
 of carbon, 651
 sediments, Site 387, 338
 Geologic history of J-Anomaly Ridge, 130
 Geotechnical properties, effects of temperature on, 758
Gephyrocapsa caribbeanica Subzone, 518
 oceania Zone, 52
 Gilliss Seamount, 725
Globigerapsis kugleri Zone, 123, 124
Globigerina eugubina Zone, 123, 131, 700, 710, 714
 taurica Zone, 710, 813
Globorotalia angulata Zone, 123
 pseudobulloides Zone, 606, 700, 702, 712
 pseudomenardii Zone, 124
 pusilla pusilla Zone, 124
 trinidadensis Zone, 700, 709, 712
Globotruncana arca Zone, 125, 488, 491
 elevata Zone, 52, 487, 741
 gansseri Zone, 488
 Gosnold Seamount, 9, 32, 156
 Graded sands, 396
 Grading, sedimentary structures, 164
 Grain-size analyses, turbidites, 396
 carbon analyses, 1043
 carbonate analyses, 1043
 Grand Banks, sediment source, 101
 Great Abaco Canyon, 811
 Greater Antilles Outer Ridge, 828
 Greenland, 818
 Greenland Sea, 818
 Greenland-Iceland-Faeroe Ridge, 818
 Gregg Seamount, 852
 Gubbio section, 606
 Italy, 814
 Zone J + (anomaly 28), 787
 Gulf of Mexico, 869
 Gulf Stream, 817
 Gulf Stream currents, 9
 Halmyrolysis, 776
Hantkenina aragonensis Zone, 124
 Harmotome, 473
 Hawaiian chain, 854
 Heavy minerals, Leg 43 sediments, 457
Helicosphaera reticulata Zone, 227
Heliolithus kleinpelli Zone, 513
 Hemipelagic clay, chemical composition, 675
 High-temperature deuterium oxidation, basalt 805
 oxidation, titanomagnetites, 807
 History of acoustic terminology, 827
 Horizon A, 11, 812, 829, 836
 correlation with chert, 832
 complex, 232
 A^c , 9, 11, 108, 109, 112, 126, 128, 131, 155, 196
 A^r , 10, 830
 A^u , 11, 836
 unconformities, mid-Tertiary, 836
 A^v , 10, 829
 β , 11, 793, 795, 840
 outcrop of, 841
 Hot-brine deposits in the Red Sea, 811
 Hydrothermal activity, 166
 alteration, 727
 exhalations, 417
 Iceland-Faeroe Ridge, faunal differentiation across, 819
 jump in spreading axis to Iceland, 819
 Igneous rocks, 12
 Inoceramus plate, macrofossils, 43
 Inorganic chemistry, sediments, Leg 43, 675
 Intensified glaciation of Antarctica, 819
 Interstitial water chemistry, Site 386, 219, 669
 waters, Site 386, 670
 Site 387, 669
 Intrasediment reducing conditions, 799

- Iron, phase analysis, 679
 geochemistry, 639
 to aluminum ration, 680
 to titanium ratio, 680
 Isotopic composition of shallow-water carbonates, 719
 Isthmus of Panama, formation of, 11
 Italy, Gubbio section, 814
J-Anomaly, 5, 130, 792, 865
 central North Atlantic Ocean, 879
 nature of, 12
J-Anomaly Ridge, 8, 11, 12, 13, 102, 108, 131, 736, 801
 age of, 806
 age of overlying sediments, 806
 basalt, depth of eruption, 805
 Site 384, 726
 basement high comprising, 128
 depth of formation, 807
 geologic history of, 130
 magnetic anomaly, 95
 magnetism of basalts, 803
 origin and age of, 802
 origin of, 806
 petrochemistry of, 803
 radiometric age of basalt, 806
 sediment isopachs, 95
 seismic reflection profiles, 95
 Site 383, 95
 subsidence, 9, 118, 126, 807
 subsidence history of, 808
 Juan de Fuca Ridge, 98
 Jurassic quiet zone, 866
 Kaersutite, 725
 Kane fracture zone, 866
 Keathley anomaly *M*-2, 130
 Keathley (*M*) Sequence, 5, 10, 12, 13, 32, 95, 130, 857
 879
 Kelvin fault, 865
 Kelvin seamounts (see New England seamounts)
 Kerogen, 663
 Analyses, 634
 Keonigsberger(*Q*)-ratio, 773, 805
 Labrador and Norwegian seas, opening of, 818
 Labrador Sea, 11
Lamellaptychus ambiguus, new *Aptychi* species, 593
 bermudensis, new *Aptychi* species, 592
 elegans, new *Aptychi* species, 593
 lorioli, new *Aptychi* species, 593
 mortilleti group, *Aptychi*, 591
 oceanicus, new *Aptychi* species, 593
 pelagicus, new *Aptychi* species, 594
 Large-ion-lithophile depleted, basalt, 805
 elements, 13
 enriched, basalt, 803
 Late Cretaceous, sea level, 814
 volcanism, 811
 volcanism at Bermuda, 840
 Late Jurassic, carbonate compensation depth fluctuations, 793
 Latest Cretaceous sea-level regression, 812
 Laurentian Channel, 99
 sediment source, 101
 Leg 43, engineering data, 757
 physical property data, 757
 sediments, heavy minerals, 457
 x-ray mineralogy studies, 1019
 Lepisphere-type fabric, 439
 Lepispheres, 693
 Level of organic metamorphism (LOM), 637, 663, 664
 Lifetime of typical Pacific volcano, 32
 Light minerals, 459
 Limestones, carbon contents of, Site 387, 793
 descriptions of, 422
 Lower Cretaceous, 793
 Upper Jurassic, 793
 Line Islands chain, 852
 New England seamounts compared with, 855
 Lithologic samples, 18
 summary, Site 385, 176
 Lithology, Site 382
 Site 383, 101
 Site 384, 112
 Site 385, 159
 Site 386, 201
 Site 387, 330
 Lithraphidites quadratus Zone, 744
 Long-period climatic cycles, 799
 Low-temperature alteration, 727
 oxidation, 773
 basalt, 805
 Lower Cretaceous black clays, 5
 black shales, anoxic pore waters of, 419
 limestones, 793
 Lower Eocene/upper Paleocene, stratigraphic hiatus, 118, 126, 131
 Lower Miocene/Campanian, stratigraphic hiatus, 5
 Lychnocarioma elongata Zone, 160
 M-sequence of magnetic anomalies, 799, 879
 M-series, 799
 M-0 anomaly, 8
 M-2 anomaly, 9
 Macerals, 665
 Macrofossils, 807, 810
 bryozoans, 117, 421
 corals, 117, 124, 421
 echinoderms, 117
 gastropods, 117, 124, 421
 Inoceramus plate, 43
 mollusks, 124, 421
 ostracodes, 117, 125, 126, 421
 pelecypods, 117, 125, 421, 575
 rudists, 117, 124, 599, 806
 Maestrichtian carbonates, 812, 840
 depression of carbonate compensation depth, 812
 Maestrichtian/Danian contact, 488
 transition, 617
 unconformity, 605
 Maghemite, 773

- Magnetic, dipole field, 867
 anomalies, *M*-sequence of, 879
 western North Atlantic Ocean, 862
- anomaly, *J*-Anomaly Ridge, 29, 95
- minerals, alteration of, 773
- properties, basalt, Site 384, 130
 smooth zone (see quiet zone)
- Magnetism of basalts *J*-Anomaly Ridge, 803
- Magnetite, dominant opaque mineral in volcaniclastic turbidites, 407
- Magnetization, stability of, 782
- Magnetostratigraphy, Cretaceous sediments, Site 386, 781
- Manganese, concentration in sediments, 679
 and iron, upward diffusion of, 419
 nodule, 159
 nodules, 781
 Site 384, 109, 112
 to aluminum ratio, 681
 to titanium ratio, 680
- Mantle hot-spot, 734, 806
 hypothesis, 5, 740, 847, 877
 age of New England Seamount volcanism, 745
- motion of North American Plate over, 32
- rates of plate motion over, 156
- stationary hypothesis, 12
- volcanism, 818
- Mantle hot-spots, 34, 746, 805
- Markalius astroporus* Zone (NP 1), 515, 602, 812, 813
- Marthasterites furcatus* Zone, 748
- Mass accumulation rates, organic carbon, 797
- Mercanton interval, 866
- Mesozoic Carbonate history, North Atlantic Ocean, 610
- foraminifers, Site 382, 52
 Site 384, 124
 Site 385, 172
 Site 386, 225
 Site 387, 341
- nannofossils, 512, 514, 515, 520
- radiolarians, Site 386, 228
- reversal sequence, 862
- Metalliferous sediments, East Pacific Rise, 682
- Metamorphic minerals, 459
- Micritic envelopes, 423
- Micritization, 422, 423
- Micula mura* Zone, 343, 521, 613
- Mid-Atlantic Ridge, 866
- Mid-Cretaceous, dipole field, magnetic, 867
 transgressions, 872
- Mid-Miocene, sedimentary hiatuses, 168
- Mid-Plate volcanism, 847
- Mid-Tertiary, Horizon *A'*, unconformities at, 836
- Middle Oligocene drop in sea level, 818
- Migratory volcanism, 792, 852
- Mineralogy, coarse fraction, 457
- Mollusks, macrofossils, 124, 421
- Montmorillonite/illite ratios, sediments, 814
- Morphology and water temperatures, foraminifera, 709
- Morphology of clinoptilolite, 472
 zeolites, 469, 471, 472
- Motion of North American Plate over mantle hot-spot, 32
- Mud clasts, 396
- Multicolored clays, 5
 claystones, North Atlantic Ocean, similarity to Red Sea hot brine deposits, 417
- Mytilus* Seamount, 34
- Nannoplankton, paleobiogeography, 617
 extinctions, 601
- Nannofossils, Cenozoic, 512, 513, 515, 518, 520
 Mesozoic, 512, 514, 515, 520
 new species, *Biscutum? tenuiculum*, 521
 paleoclimatic implications, 623
 Site 382, 52, 512
 Site 383, 102, 513
 Site 384, 125, 513
 Site 385, 173, 515
 Site 386, 227, 515
 Site 387, 342, 520
 taxonomy, 521
 tertiary, evolutionary patterns of, 606
- zonation, *Campylosphaera eodela* Subzone, 125, 227, 520
- Ceratolithus cristatus* Subzone, 512
- Chiasmolithus bidens* Subzone, 125, 513
danicus Zone, 125, 512, 514, 605, 787
oamaruensis Subzone, 519
- Cretarhabdus angustiforatus* Zone, 345, 521
- Cruciplacolithus tenuis* Zone (NP 2), 125, 173, 512, 515, 813
- Cyclococcolithus macintyrei* Subzone, 52, 512
- Discoaster bifax* Subzone, 125, 227, 342, 519
 Zone, 123
binodosus Subzone, 343, 520, 521
diastypus Zone, 343, 519
lodoensis Zone, 125, 342, 513, 519, 521
mohleri Zone, 227, 513, 520
nobilis Zone, 513
quinqueramus Zone, 53, 123, 125, 227, 512
 518
saipanensis Subzone, 519
 Zone, 227
strictus Subzone, 513
sublodoensis Zone, 125, 342, 519
tamalis Subzone, 512
- Discoasteroides kuepperi* Subzone, 513, 521
- Ellipsolithus macellus* Zone, 125, 343, 512, 514, 521
- Emiliania huxleyi* Zone, 102, 342, 515, 520
ovata Subzone, 512, 518
- Fasciculithus tympaniformis* Zone, 513
- Gephyrocapsa caribbeonica* Subzone, 518
oceania Zone, 52
- Helicosphaera reticulata* Zone, 227
- Heliolithus kleinpellii* Zone, 513
- Lithraphidites quadratus* Zone, 744
- Markalius astroporus* Zone (NPI), 515, 602, 812, 813
- Marthasterites furcatus* Zone, 748
- Micula mura* Zone, 343, 521, 613

- Nannotetra fulgens* Zone, 125, 227, 342, 513, 519, 521
 NP 13 Zone, 112, 622
 NP 14 and NP 15 Zones, 622
 NP 2 Zone, 171
 NP 8 Zone, 702
 NP 9-NP 12 Zones, 619
Prediscosphaera cretacea Zone, 227, 520
Rhabdosphaera inflata Subzone, 513
Sphenolithus ciperoensis Zone, 518
distentus Zone, 227, 518
heteromorphus Zone, 227, 518
predistentus Zone, 227, 518
Tetralithus murus Zone, 813
trifidus Zone, 343, 521, 613
Tribrachiatus contortus Subzone, 343, 521
orthostylus Zone, 342, 519, 521
Triquetrorhabdulus carinatus Zone, 227, 518
Nannotetra fulgens Zone, 125, 227, 342, 513, 519, 521
 Nares Abyssal Plain, 816
 Nashville Seamount, 34, 851, 877
 cessation of volcanism on, 740
 petrography, Site 382, 723
 Site 382, 31
 volcanism, 5
 Native sulfur, 740
 Natural remanent magnetization (NRM), 785
 Nature of, *J*-anomaly, 12
 Neocomian limestones, 11, 828
 accumulation rates, 797
 composition of, 793
 depositional environment, 794, 797
 rates of accumulations for, 794
 Neogene, carbonate compensation depth, 820
 New species, nannofossils, *Biscutum?* *tenuiculum*, 521
 Aptychi Lamellaptychus, ambiguum, 593
 bermudenis, 592
 elegans, 593
 lorioli, 593
 oceanicus, 593
 pelagicus, 594
 foraminifera, *Subbotina trilocularis*, 716
 New England Seamount volcanism, age of, mantle hot-spot hypothesis, 745
 New England seamounts, 5, 176, 457, 661, 732, 792, 811, 815, 847, 865, 877
 age of volcanism along, 155
 chert occurrence north of, 131
 compared with Line Islands chain, 855
 formation of, 746
 volcanism along, 12
 Nickel porphyrins, 660
 Nodular porcellanites (carbonate environment), 443
 North American Basin, 5
 basin, depositional and tectonic history of, 793
 North American Plate, 12, 32, 792, 852
 paleoposition of, 780
 North Atlantic carbonate excursion, 612
 bottom water, 700
 Deep Water (NADW), 817
 drift, 700
 ocean, Cenomanian black shales, 417
 Mesozoic carbonate history, 610
 multicolored claystones, similarity to Red Sea hot-brine deposits, 417
 silicified sediments, 437
 spreading-rate change, 799
 Northeast Atlantic Ocean, volcanic activity in the, 816
 Norwegian Sea overflow, 818
 Norwegian-Greenland Sea, 11
 Ocean crust, subsidence, 851
 pattern of paleotemperatures, 415
 water, upwelling, 794
 temperature, decrease with depth, 699
 Oceanic circulation, 799
 island tholeiite, 729
 tholeiites, 408
Odontochitina operculata Zone, 587
 Oligocene volcanoclastic turbidites, 829
 Oligotaxic episodes, 799
 Opening of Labrador and Norwegian seas, 818
 Operations Site 382, 34
 Site 383, 99
 Site 384, 108
 Site 385, 156
 Site 386, 197
 Site 387, 326
 Summary of, 13
 Orbitolinid foraminifers, 575
 systematic description, 575
 zonation, *Paleodictyoconus Arabicus* Zone, 577
 Ore microscope investigation, 773
 Organic carbon, 663
 content, Cretaceous cores, 651
 in sediments, Site 386, 411
 mass accumulation rates, 797
 Organic matter, composition of, 635
 content of, 635
 types of, 665
 Origin and age of, *J*-Anomaly Ridge, 802, 806
 of Zeolites, 464
 Ostracodes, macrofossils, 117, 125, 421
 Site 384, 126
 Outcrop of Horizon β , 841
 Oxygen-minimum layer, 799
 Oxygen-13 content, variation, 699
 Oxygenation cycle, 799
 Pacific Ocean rudist reefs, 808
 Paleobiogeography, nannoplankton, 617
 Paleocene, circumequatorial current (Tethys), 697
 average surface water temperatures, 697
 hiatuses, 815
 sediments, accumulation rates, 815
 composition, 815
 Paleocene/Eocene boundary, stratigraphic hiatus, 9
 Paleoclimatic implications, nannofossils, 623
Paleodictyoconus arabicus Zone, 577
 Paleoecological observations, rudists, 599
 Paleomagnetic data, Site 384, 814
 results, early Tertiary/late Cretaceous sediments, Site 384, 785
 Paleomagnetism data, Site 384 sediments, 813

- Paleoposition of North American Plate, 780
 Paleotemperatures, P.2 Zone, 713
 P.3 Zone, 713
 P.4 Zone, 714
 P.5 Zone, 714
 Palisades Sill, 870
 Palynomorph zonation, 587
 Palynomorphs, Site 386, 227
 Palynostratigraphy, 586
 Partial benthic mixing, 608
 Pattern of ocean paleotemperatures, 415
 Pelagic clay, chemical composition, 677
 mineral assemblages, 461
 Pelecypods, macrofossils, 117, 125, 421, 575
 Peri-reefal environments, 424
 Petrochemistry of J-Anomaly Ridge, 803
 Petrography, Nashville Seamount, 723
 Petroleum, source rock of 664
 Petrology, basalt, 721
 Phase analysis, iron, 679
 Phillipsite, 464
 Phoenix lineations, 857
Phormocyrtis striata striata Zone, 126
 Physical properties, 23
 Site 382, 47
 Site 384, 120
 Site 385, 169
 Site 386, 219
 Site 387, 339
 property data, Leg 43, 757
 Phytane/pristane ratio, 645
 Pillow basalt, 805
 lavas, 408
 Pilotaxitic texture, 165
 Planktonic foraminiferal depth stratification, 705
Planomalina buxtorfi Zone, 496
 Plantagenet Bank, 877
 Polar wandering, 869
 Polarity epoch Gubbio G-, 605
 Poorly oxygenated bottom water, 794
 Porcellanite, 399
 Porcellanites, bedded, 438
 diagenetic formation of, 446
 nodular, 443
 transformation into quartz cherts, 447
 Pore waters, advection of, 419
 dissolved sulfide in, 419
 Porosity and bulk density, sediments, 759
 Porphyrins, free-base, 658
 nickel, 660
 vanadyl, 660
 Post-erosional basalts, volcanism, 854
Prediscosphaera cretacea Zone, 227, 520
 Principles, acoustic stratigraphy, 844
Prinsius martinii Assemblage, 623
 Propagating fracture hypothesis, 852
Psilatricolporites Subzone, 588
 Pyrolysis fluorescence (PF) measurements, 218
 Quiet zone, Cretaceous, 852
 Radiolarian productivity bloom, 412
 Radiolarians, Site 382, 53
 Site 384, 125
 Site 386, Cenozoic, 228
 Mesozoic, 228
 Buryella clinata Zone, 228
 Lychnocarioma elongata Zone, 160
 Phormocyrtis striata striata Zone, 126
 Stichocorys delmontensis Zone, 53
 wolfii Zone, 53
 Theocampe mongolfieri Zone, 125, 228
 Theocotyle cryptocephala cryptocephala Zone, 125, 160
 Thrysocyrtis triacanta Zone, 228
 Radiometric age of basalt, J-Anomaly Ridge, 806
 ages, basalt, 739
 Site 382, 741
 Site 384, 747
 Site 385, 742
 Site 386, 748
 Site 387, 749
 dating of basalt clasts, volcanism, 851
 Rates of erosion, Cenozoic, 819
 accumulations for Neocomian limestones, 794
 plate motion over mantle hot-spot, 156
 Record of Bermuda volcanism at Site 386, 232
 Red claystone, chemical composition, 677
 Red Sea, hot-brine deposits in, 811
 Reefal limestones, Blake Escarpment, 810
 Reefs, as shelf-edge barriers, 811
 development of Cretaceous, 11
 extent in Barremian/Cenomanian, 11
 Reflectors, age and lithology of, 10
 correlation with lithology, 828
 Rehoboth Seamount, 165, 167, 850
 Remanent magnetization, measurement of, 773
Reticulofenestrid Assemblage, 623
Retitricolpites georgenis Zone, 588
 Reversal frequency, 869
 Reverse grading, 399
 Reykjanes Ridge, basalts, 13
Rhabdosphaera inflata Subzone, 513
 Rifting between Labrador and the Iberian Peninsula,
 initiation of, 802
 Rosso ad Aptychi Formation, 592
Rotalipora apenninica Zone, 496
 Rudist reef, Site 384, 808
 reefs, Early Cretaceous, 810
 extinction of, 808
 Pacific, 808
 Rudists, macrofossils, 117, 124, 599, 806
 paleoecological observations, 599
 Salinity inversion, 712
 Sand flow, 412
 Saturation magnetization, 773
 Scientific goals, 5

- Sea floor, western North Atlantic Ocean, 736
 level, early Cretaceous, 797
 fluctuations, Cretaceous, 808
 late Cretaceous, 814
 middle Oligocene drop, 818
 Sea-floor-spreading history of North Atlantic Ocean, 5
 Sea-level regression, Latest Cretaceous, 812
 Seamount subsidence, 851
 Sediment accumulation rate, Site 382, 5
 rates, 112
 Cretaceous/early Paleocene, 118
 Site 383, 102
 Site 384, 126
 Site 386, 10, 228
 Site 387, 347
 Sediment descriptions and preservation, Site 384, 700
 drifts, Cenozoic, 819
 enclosures, basalt, 728
 isopachs, *J*-Anomaly Ridge, 95
 mixing, Cretaceous/Tertiary boundary, 608
 source, Grand Banks, 101
 Laurentian Channel, 101
 Sedimentary hiatus, 57, 513
 hiatuses, 160
 mid-Miocene, 168
 structures, grading, 164
 Sediments, accumulation rate, 513
 associated with zeolites, 464
 bulk composition, 675
 carbonate content, 669
 depositional environment, Site 384, 422
 Leg 43, inorganic chemistry, 675
 montmorillonite/illite ratios, 814
 paleomagnetism, Site 384, 813
 porosity and bulk density, 759
 shear strength, 760
 trace elements in, 682
 Seismic reflection profile evidence, Western Boundary Undercurrent, 132
 profiles, *J*-Anomaly Ridge, 95
 Site 384, 108, 118, 126
 Separation of Falkland Plateau and South Africa, 802
 Shallow water carbonates, isotopic composition of, 719
 Shallow-water limestones, 234
 Shatsky Rise, 799
 Shear strength, 765
 Sediments, 760
 Site 382, 49
 Site 384, 121
 Site 385, 169
 Site 386, 221
 velocities, basalt, 769
 Sheeted basic dikes, 408
 Shelf-reef barriers, 815
 Shield-building stage, volcanism, 854
 Site 386, stratigraphy, 781
 Silica, authigenic, 677
 origin in sediment, 444
 Siliceous mud, chemical composition, 675
 productivity, Eocene, 834
 zone of, 797
 turbidites, chemical composition, 675
 Silification, 693
 Silicified sediments, North Atlantic Ocean, 437
 turbidites, 443
 Sill, 165, 735
 Site Survey, Site 386, 1013
 Site 217, Foraminifers, 123, 124
 Site 382, Background and objectives, 31
 biostratigraphy, 51
 bulk properties, 49
 Cenozoic, foraminifera, 51
 correlation of seismic profile with drilling results, 53
 cruise narrative, 5
 density and acoustic velocity, 49
 foraminifera, 487
 geochemistry, 47
 lithology, 36
 Mesozoic, foraminifera, 52
 nannofossils, 52, 512
 Nashville Seamount, 31
 petrography, 723
 operations, 34
 physical properties, 47
 radiolarians, 53
 radiometric ages of basalt, 741
 sediment accumulation rate, 5
 shear strength, 49
 summary and conclusions, 56
 volcanism, 12
 zeolites, 464
 Site 383, Background and objectives, 95
 correlation of seismic profile with drilling results, 102
 cruise narrative, 8
 foraminifera, 102
 J-Anomaly Ridge, 95
 lithology, 101
 nannofossils, 102, 513
 operations, 99
 sediment accumulation rates, 102
 summary and conclusions, 102
 Site 384, age of basement, 130
 Aptian Reefs and *J*-Anomaly Ridge, 107
 background and objectives, 108
 basalt, 118, 773
 benthic foraminifera, 126
 biostratigraphy, 121
 bottom temperature record, 702
 bulk properties, 121
 carbon isotopic record on the bottom, 703
 carbonates, diagenetic alteration of, 807
 Cenozoic, 123
 correlation of seismic profile with drilling results, 128
 Cretaceous/Tertiary boundary, 124
 possible disturbance at, 813
 cruise narrative, 8
 density and acoustic velocity, 121
 diagenesis of the carbonates, 423
 foraminifera, 488
 Cenozoic, 124
 Mesozoic, 124
 Geochemistry, 120
 J-Anomaly Ridge, basalt, 726
 lithology, 112

- magnetic properties, basalt, 130
 manganese nodules, 109, 112
 Mesozoic, 124
 nannofossils, 125, 513
 operations, 108
 ostracodes, macrofossils, 126
 paleomagnetic data, 814
 - results, early Tertiary/late Cretaceous sediments, 785
 physical properties, 120
 radiolarians, 125
 radiometric ages of basalt, 747
 rudist reef, 808
 sediment accumulation rates, 126
 - descriptions and preservation, 700
 sediments, depositional environment, 422
 - paleomagnetism, 813
 seismic reflection profiles, 108, 118, 126
 shallow water carbonates, isotopic composition of, 719
 shear strength, 121
 summary and conclusions, 130
 surface temperature record, 701
 - zone carbon isotopic record, 702
 tectonic uplift, effect on reef growth, 118
 volcanism, 12
Site 385, background and objectives, 155
 biostratigraphic summary, 171
 bulk properties, 169
 Cenozoic, foraminifera, 172
 correlation of seismic profile with drilling results, 173
 cruise narrative, 9
 density and acoustic velocity, 170
 flank of Vogel Seamount, 725
 foraminifera 493
 - geochemistry, 168
 - lithologic summary, 176
 - lithology, 159
 Mesozoic, foraminifera, 172
 nannofossils, 173, 515
 operations, 156
 physical properties, 169
 radiometric ages of basalt, 742
 shear strength of sediments, 169
 summary and conclusions, 175
 Vogel Seamount, 155
 volcanism, 12
 zeolites, 470
Site 386, background and objectives, 196
 basalt, 776
 basaltic basement, 236
 basement rocks of, 217
 biostratigraphic summary, 224
 bulk properties, 221
 Cenozoic, foraminifera, 225
 - radiolarians, 228
 Central Bermuda Rise, 195
 - basalt, 727
 clinopyroxene, dominant heavy mineral, 407
 correlation of seismic profile with drilling results, 228
 Cretaceous sediments, magnetostratigraphy, 781
 cruise narrative, 10
 crustal ages, 11
 cyclic bedding, 413
 density and acoustic velocity, 222
 duration of cycles, 415
 foraminifera, 494
 geochemical measurements, 217
 interstitial water chemistry, 219
 - studies, 669
 - waters, 670
 lithology, 201
 Mesozoic, foraminifera, 225
 - radiolarians, 228
 - nannofossils, 227, 515
 - operations, 197
 - organic carbon, in sediments, 411
 - palynomorphs, 227
 - physical properties, 219
 - radiometric ages of basalt, 748
 - record of Bermuda volcanism at, 232
 - sediment accumulation rates, 10, 228
 - shear strength, 221
 - summary and conclusions, 232
 - turbidites, 215, 400
 - volcanism, 12
 - X-ray diffraction of sediments, 669**Site 387, Acoustic horizons, 350**
 background and objectives, 323
 basalt, 776
 basement petrology, 337
 biostratigraphy, 341
 Cenozoic, foraminifera, 341
 - correlation of seismic profile with drilling results, 347
 - cruise narrative, 10
 - crustal ages, 11
 - cyclic bedding, 415
 - sedimentation, 413
 - depositional history, 351
 - history-summary, 336
 - duration of cycles, 415
 - foraminifera, 496
 - geochemistry of sediments, 338
 - interstitial water studies, 669
 - limestones, carbon contents of, 793
 - lithology, 330
 - Mesozoic foraminifera, 341
 - nannofossils, 342, 520
 - operations, 326
 - physical properties, 339
 - radiometric ages of basalt, 749
 - sediment accumulation rates, 347
 - summary and conclusions, 349
 - turbidites, 400
 - western Bermuda Rise, 323
 - basalt, 727- Slump process, 168
- Slumping, 34, 118
- Smooth zone, magnetic (see quiet zone)
- Sohm Abyssal Plain, 9, 13, 34, 54, 95, 99, 128, 167, 173, 438, 457, 793, 802
 - turbidite cover, 131
 - turbidites, 101, 102
- Solution pitting, zeolites, 471

- source rock of petroleum, 664
 South Atlantic Ocean, black clays, 811
 Southeast Newfoundland Ridge, 13, 99
 Southern Alabama, Braggs section (continental shelf), 812
Sphenolithus ciperoensis Zone, 518
distentus Zone, 227, 518
heteromorphus Zone, 227, 518
predistentus Zone, 227, 518
 Spherulites, 477
 Spitsbergen, 818
 Sporomorphs, Zonation, *Clavatipollenites* Zone, 588
Complexiopollis Zone, 588
Ephedripites multicostatus Zone, 588
Psilatricolporites Subzone, 588
Retriticolporites georgenis Zone, 588
 and dinoflagellate cysts, stratigraphy of, 585
 Spreading-rate change, North Atlantic Ocean, 799
 Stability of magnetization, 782
Stichocorys delmontensis Zone, 53
 wolfii Zone, 53
 Stratigraphic hiatus, 112
 Cretaceous, 116, 131
 Eocene, 132
 lower Eocene/upper Paleocene, 118, 126, 131
 lower Miocene/Campanian, 5
 Paleocene/Eocene boundary, 9
 hiatuses, 130, 178
 Cretaceous/Tertiary boundary, 613
 sequence, Cretaceous/Tertiary boundary, 131
 Stratigraphy, Site 386, 781
 of sporomorphs and dinoflagellate cysts, 585
Subbotina trilocularis, new foraminifer species, 716
 Subsidence, J-Anomaly Ridge, 9, 118, 126, 807, 808
 ocean crust, 851
 seamount, 851
 Sulfate reduction, 640
 Sulfide in black shale pore waters, 419
 Sulfides, 776
 Sulfur geochemistry, 639
 Summary and conclusions, Site 382, 56
 Site 383, 102
 Site 384, 130
 Site 385, 175
 Site 386, 232
 Site 387, 349
 Surface temperature record, Site 384, 701
 water productivity, 794
 temperatures, Paleocene average, 697
 zone carbon isotopic record, Site 384, 702
 Survey and underway data, 15
 Synchronous volcanism, 792
 Systematic description, Orbitolinid foraminifers, 575
 descriptions, Aptychi, 592
 Taxonomic comments, Foraminifera, 492
 Taxonomy, Nannofossils, 521
 Tectonic uplift, effect on reef growth, Site 384, 118
 Tectonism on Bermuda, 407
 Temperature, P.1 Zone, 715
 P.2 Zone, 715
 P.3 Zone, 716
 P.4 Zone, 716
 P.5 Zone, 716
 changes, Cretaceous/Paleocene, 703
 Terrigenous mineral assemblage, 459
 turbidites, chemical composition, 675
 Tertiary, evolutionary patterns of nannofossils, 606
 Tethyan biota, 80
 current system, 715
 facies province, 592
Tetralithus murus Zone, 813
 trifidus Zone, 343, 521, 613
 Tetrapyrrole pigments, Bermuda Rise, 658
 distribution with respect to depth of burial and age, 658
Thalmanninella ticinensis Zone, 496
Theocampe mongolfieri Zone, 125, 228
Theocotyle cryptocephala cryptocephala Zone, 125, 160
 Thermocline layer, 707
 Thermoclinic barrier between water masses, 713
 Thermomagnetic curves, 773
 Tholeiites, 854
Thoracosphaerid Assemblage, 617
Thyrsocyrtis triacanta Zone, 228
 Titanium, concentration in sediments, 680
 Titanomagnetites, 773
 high-temperature oxidation, 807
Toweius craticulus Assemblage, 619, 623
 Trace elements in sediments, 682
 Transgressions, mid-Cretaceous, 872
Tribrachiatus contortus Subzone, 343, 521
 orthostylus Zone, 342, 519, 521
Tricolporites minutus Subzone, 588
Triquetrorhabdulus carinatus Zone, 227, 518
Trityrodinium suspectum Zone, 588
 Turbidite cover, Sohm Abyssal Plain, 131
 Turbidites, 37, 397, 399, 413
 Eocene, 840
 distribution of, 832
 grain-size analyses, 396
 silicified, 443
 Site 386, 215, 400
 Site 387, 400
 Sohm Abyssal Plain, 101, 102
 volcaniclastic, 10
 Turbidity current, 396
 currents, 101, 232, 408
 flows, 233
 Turonian-Maestrichtian multicolored clays, accumulation rates, 811
 composition, 811
 Typical Pacific volcano, lifetime of, 32
 Unconformities, mid-Tertiary, Horizon *A^v*, 836
 at Cretaceous/Tertiary boundary, 812, 815
 Unconformity, 196, 817, 828

- Underway geophysical data, *Glomar Challenger* Leg 43, 889
 Uplift forming Bermuda Rise, 832
 Upper Jurassic limestones, 793
 Upward diffusion of manganese and iron, 419
 Upwelling, 178
 ocean water, 794
 Vanadyl porphyrins, 660
 Variegated claystone, chemical composition, 677
 Vema fracture zone, 816
 Vesicularity, basalt, 806
 of basalt clasts, 847
 Virtual mixing length, 608
 Vitritnite reflectance, 664
 Vogel Seamount, 12, 32, 877
 acoustic basement of, 173
 cessation of volcanism on, 744
 Site 385, 155
 volcanic history of, 176
 volcaniclastic apron of, 166
 Volcanic activity in the Northeast Atlantic Ocean, 816
 history of Vogel Seamount, 176
 Volcaniclastic apron of Vogel Seamount, 166
 breccia, 723, 847, 851
 mineral assemblages, 459
 sediments, chemical composition, 677
 turbidites, 10, 408
 Volcanism, along New England seamounts, 12
 at Bermuda, Late Cretaceous, 840
 Caribbean, 815
 episodic activity, 853
 in Brito-Arctic ("Thulean") province, 815
 Late Cretaceous, 811
 mid-plate volcanism, 847
 migratory, 792, 852
 Nashville Seamount, 5
 post-erosional basalts, 854
 radiometric dating of basalt clasts, 851
 shield-building stage, 854
 Site 382, 12
 Site 384, 12
 Site 385, 12
 Site 386, 12
 synchronous, 792
 vesicularity of basalt clasts, 847
 volcaniclastic breccia, 847, 851
 volcanogenic sediments, 851
 Volcanogenic sediments, 851
 Wairakau breccias, 725
 Water masses, thermoclinic barrier between, 713
 Western Bermuda Rise, 5
 Site 387, 323
 Western Boundary Undercurrent, 11, 817
 seismic reflection profile evidence, 132
 Western North Atlantic Ocean, Magnetic anomalies, 862
 sea floor, 736
 Wharton Basin, 614
 White Mountain Igneous Province, 847
 Magma Series, 12, 32, 177, 735, 746, 852
 Wyoming Seamount, 851
 X-ray diffraction analysis, 669
 of sediments, Site 386, 669
 mineralogy studies, Leg 43, 1019
 Zeolites, amygdalites, 471
 chemical composition, 478
 defined, 463
 morphology of, 469, 471, 472
 origin of, 464
 relation to carbonate, 470, 473, 477
 radiolaria, 471, 475, 477
 topography, 479
 sediments associated with, 464
 Site 382, 464
 Site 385, 470
 solution pitting, 471