

C

- C_2H_6
 California, continental margin, 630759
 gas, interstitial, geochemistry, 640781, 640784
 gas, natural, zonation, 110791
 organic geochemistry, 640723, 640724, 640727
see also ethane
¹²C/¹³C ratio
 Atlantic continental margin, interstitial water chemistry, 080855, 090843
 Atlantic Ocean N, Cretaceous Tertiary, Quaternary, 121115
 Atlantic Ocean NE, stable isotope, 480478
 Biscay, Bay of, carbon, organic, 101115
 caprock, 010500
 carbon isotope, foraminifers, 170601
 carbonate, fossil preservation, 320903
 Cenozoic paleotemperatures
 isotopic signal, 47B0507
 paleotemperature, 47B0509
 gas, interstitial, sediments, 410861, 410862
 interstitial water, mineralogical studies, 410913
 Labrador Sea, carbon, organic, 101115
 methane, carbon isotope, 42B0667
 mud, terrigenous, organic geochemistry, 400557
 Nankai Trough, sediments, 870857
 oil, 010500
 organic geochemistry, kerogen, 630848
 Orphan Knoll, carbon, organic, 101115
 oxygen isotope, foraminifers, 170601
 Rockall Rise, carbon, organic, 101115
 shale, organic geochemistry, 400557
 stable isotope ratio, 511153
 Tyrrhenian Rise, carbonate, 130796
¹³C, 42B0617, 42B0618, 42B0619, 42B0620, 42B0623, 440567, 47B0493, 720415, 901365, 901369
 abyssal plain, cyclic sedimentation, 801078
 alkaline lake, 42B0619
 alteration, aging, 511160, 511161, 511162, 511163, 511164, 511165
 Angola Basin
 Cretaceous, 751010
 Cretaceous sediments, 751051, 751052, 751053, 751054
 aragonite, 42B0619, 42B0621
 Atlantic continental margin, interstitial water chemistry, 080855, 090843, 111011, 140765, 160573
 Atlantic Ocean, margin, 481104, 481105
 Atlantic Ocean N
 carbon, organic, 121115
 eastern, 47B0507
 Atlantic Ocean NE, stable isotope, 480477, 480484, 480486
 Atlantic Ocean S, 730725, 730733
 Cretaceous, 720982
 isotopes, 730726, 730728, 730730, 730732
 isotopic temperature scale, 730732
 Paleogene, 720984, 720985
 basalt, mineral, secondary, 511245
 basement, calcite, 920500
 Bermuda Rise
 basalt, 511149
 sea floor, 511160, 511161, 511162, 511163, 511164, 511165
 Biscay, Bay of, carbon, organic, 101115, 101120, 121116
 Black Sea
 carbonate, 42B0617
 sediments, 42B0661
 brackish marine environment, 42B0619
 calcareous nannoplankton, 42B0619
 calcite, 42B0619
 aragonite, 42B0623
 calcite, magnesium, 42B0619
 California, Gulf of, basalt, 650664
 Cape Bojador, hydrocarbon C, C₇, 47A0533
 carbon, 42B0618
 deep-sea sediments, 580752
 exchange effect, 42B0617
 geochemistry, 42B0718, 571319, 590644
 carbon dioxide, 42B0618
 interstitial water, 200775
 carbon, organic, 101115, 121115
 Cretaceous, 121115
 Quaternary, 121115
 stable isotopes, 711056, 711057
 Tertiary, 121115
 carbonate, 42B0618, 42B0619, 42B0623, 440567, 47B0493, 860503, 870677
 Black Sea, 42B0617
 carbon isotope, 130797, 170505, 170509, 500669
 carbon, organic, 711061
 Cretaceous, 430719
 fluctuation, 870678
 fossil preservation, 320903
 fractionation, 42B0620
 freshwater, 42B0617
 isotope record, 42B0617, 42B0618
 isotope stratigraphy, 850733
 isotopes, 960673
 isotopic events, 850731
¹⁸O, 42B0617
 stable isotope, 42A0652, 42A0653, 42A0654, 42A0655, 711056, 711057
 stratigraphy, 86503
 carbonate, authigenic, 42B0619
 carbonate, diagenetic, isotopic survey, 630595, 630597, 630604, 630605, 630608
 carbonate mineral, stable isotopes, 550653, 550654, 550655
 carbonate nodule, authigenic, 870663
 carbonate, secondary, vein, 580906, 580907, 580908, 580909
 Cenozoic, fluctuations, 860503
 Cenozoic paleotemperatures, paleotemperature, 47B0509, 47B0511
 Challenger Plateau, Quaternary, 901422
 Chatham Rise, Quaternary, 901431, 901434
 circulation, oceanic, change, 131402
 climate, 42B0617
 CO₂, origin, 870677
 coccoliths, 42B0618
 Colombian Basin, isotope stratigraphy, 680448, 680449, 680450
 Colorado, hot spot, 820494
 continental margin, preservation, paleoenvironment, 630945
 continental saline environment, 42B0623
 continental saline facies, 42B0620
 convection, interstitial water, 920613
 Costa Rica Rift, carbon isotope, 690439
 dacite, conglomerate, 571287, 571288
 depletion, 850968
 deposition, shallow marine basin, 42B0623
 depositional environment, 42B0617, 42B0619
 diagenesis, 42B0617
 dolomite, 42B0619, 42B0623
 dolomite, diagenetic, mud, anoxic diatomaceous, 640560
 environmental change, 42b0621
 Eocene-Oligocene, 730725
 Eocene-Oligocene benthic foraminifer isotope record, global changes, 850775
 exchange, degree, 42B0623
 Falkland Plateau, shale, black, 711053
 freshwater conditions, 42B0623
 freshwater environment, 42b0619
 freshwater origin, 42B0620
 gas, 960694, 960783
 methane, 870884
 Orca Basin, 960783
 gas hydrate, C₁, 960783
 gas, interstitial
 geochemistry, 640783, 640785, 640786, 640787
 sediments, 410861, 410862
 stable isotopes, 640815, 640816, 640817
 glacial cycles, deep-sea environment, 800812, 800813, 800814
 glaciation, calcareous phytoplankton, 800786
 Goban Spur, planktonic foraminifers, 800793
 halocline depth, 42B0617
 Hess Rise, Albian sediment, 620941
 humic substances, sources, 440589
 hydrocarbon, C₁-C₅
 Japan Trench, 571337, 571339
 methane, 571336
 hydrocarbon, C₁-C₈, Guaymas Basin, 640765
 hydrocarbon, gaseous, 500618
 hydrocarbon isotope, 950647
 depletion, 950647
 methane, 950649
 inflowing Mediterranean water, amount, 42B0617
 inorganic geochemistry
 carbonate, 801073
 Goban Spur, 801079
 mudstone, black, 801079
 inorganic precipitates, 42B0620
 insoluble organic matter, 870892, 870894
 interstitial water, major ions, 200808
 interstitial water, geochemistry, Baja California, 640679
 intraslope basin organic matter, 960753
 isotope record, 42B0620
 isotope stratigraphy, carbon isotope, 850762
 isotopic analysis, 42B0618
 Campbell Plateau, 901350
 isotopic composition, Messinian sediments, 42A0635, 42A0637, 42A0641
 isotopic exchange processes, 42B0617
 isotopic shifts, 42B0621
 isotopic study, 590634
 hydrothermal alteration, 590637, 590638
 kinetic fractionation, 950649
 Labrador Sea S, carbon, organic, 121116
 Labrador Sea, carbon, organic, 101115, 101120, 121116
 lacustrine environment, 42B0619
 laminated/nonlaminated sediments, organic geochemistry, 640922
 limestone
 Albian, 620925
 Cretaceous, 620884, 620886
 stable isotope, 150796, 150801, 150802
 lipid
 fatty acid, hydroxy, 571382
 source, 440589
 lithology, 42B0623
 mudstone, 120259
 Lord Howe Rise
 fluctuations, 901391
 variability, 901386
 Lord Howe Rise C
 oscillations, 901391
 parallelism, 901391
 variability, 901397
 lutite, 42B0618
 main unconformity, 42B0619
 manganosiderite, 42B0619
 Mediterranean Sea, Messinian salinity crisis, 42A0651, 42A0653

- Mesozoic, fluctuations, 860503
 Messinian environments, salinity crisis, 42A1009
 methane, carbon isotope, 42B0667
 methane carbon, isotopic composition, 500618
 micrite, 42B0618
 middle fan, organic matter, 960752
 mineralogy, 42B0623
 Minorca Rise, lithification, 42A0474
 Miocene, Messinian salinity crisis, 720986, 720987
 Miocene change, 901403
 Miocene time series, statistical analysis, 850746
 Miocene-Pliocene isotope stratigraphy
 broad changes, 901403
 excursion, 901403
 HCO₃, 901403
 Pliocene, 901404
 stratigraphy, 901403
 time-series records, 901403
 Mississippi Fan, organic matter, 960749
 Moroccan Basin, 500669
 mud, dolomitic, 42B0621
 mud, terrigenous, organic geochemistry, 42B0752, 42B0753
 mudstone, black, Cenomanian-Turonian, 801079
 mudstone, dolomitic, 42B0619
 Nankai Trough, sediments, 870857, 870858
 nannofossil ooze, 42B0618
 Neogene, 901369
 Neogene oceanography
 depletion, 901380
 lightening, 901380
 permanent depletion, 901380
 surface water, 901380
 New Jersey, wedge toe, 950638
 nitrogen, deep-sea sediments, 580752
 Northern Hemisphere, glaciation, 720988
 oceanic fluctuations, 860503
 older chemical facies, 42B0620
 Orca Basin, methane, 960777, 960778, 960779
 organic geochemistry, 640719, 640827
 Baja California, 640940, 640941, 640942
 Cabo San Lucas, 640879
 carbon isotope, 640821
 depletion, 640827
 gasoline, light, 640945
 Guaymas Basin, 640942, 640943, 640945, 640946, 640948
 gulf mouth, 640879
 kerogen, 630848, 630849, 630851
 methane, 640718
 specific organic geochemical changes, 960692
 organic mater, 500596
 source, 380805
 organic matter, source, 380805
 Orphan Knoll, carbon, organic, 101115, 101120
 oxygen, 42B0618
 exchange effect, 42B0617
 Pacific Ocean, bottom sediments, 571313, 571315, 571316
 Pacific Ocean C, oxygen isotope, 850771, 850772
 Pacific Ocean EC, carbonate, 680483, 680487
 Pacific Ocean NW, stratigraphy, 860503
 Pacific Ocean SE, convective fluid flow, 920415, 920419
 Pacific Ocean SW, paleoceanography, 901503, 901506, 901511, 901512, 901513
 paleoceanography
 Miocene events, 850767, 850768
 organe, 850959
 permanent depletion, 850966
 Reflector Lavender, 850961
 Paleocene
 fluctuations, 860503
 peak, 860508
 paleoenvironment
 deep-water environment, 800819
 planktonic foraminifers, 800818
 Patton Escarpment, 630944
 kerogen, 630944
 Phanerozoic, fluctuations, 860503
 Pigmy Basin, carbonate, 960671
 pore waters, oxygen isotope, 230941
 postdepositional exchange processes, 42B0618, 42B0623
 present-day hydrological framework, carbon, total inorganic, 800794
 protokerogen, hydrothermal effects, 640906, 640908, 640909, 640910
 radiocarbon dating, 640757
 Red Sea S, 230939
 rhyolite, conglomerate, 571287, 571288
 Rio Grande Rise, climate, 720878
 river discharge, volume, 42B0617
 Rockall Plateau
 carbon, organic, 101115, 121115
 sediments, 810815
 Rockall Rise, carbon, organic, 101115, 101120
 Ross Sea, continental shelf, 280940
 salinity, 42B0617
 San Miguel Island, 630944
 kerogen, 630944
 Santos Plateau, origin, 390936, 390940
 sapropel, 42B0618
 sedimentary record
 chemical conditions, 850764
 fluctuation, 850765
 sedimentation rate, Pliocene, 901377, 901378, 901380
 seismic modeling, paleoceanography, conclusions, increase, 850967
 shale, organic geochemistry, 42B0752, 42B0753
 shallow marine conditions, 42B0619
 shallow-water environment, 42B0619
 Shatskiy Rise, stratigraphy, 860503
⁸⁶Sr/⁸⁷Sr ratio, carbonate, 920500
 stable isotope, 350497, 870661
 basalt, 350504
 carbonate, 350501, 650383, 650384
 Miocene paleoceanography, 850745
 stable isotope ratio, 42B0617, 511153
 carbonate, 511155
 strata permeability, 42B0623
 stratigraphy, 42B0623, 860503
 supratidal conditions, 42B0621
 supratidal exposures, 42B0623
 surface currents, 42B0617
 temperature effects, 42B0618
 terrigenous sediment, 42B0618, 42B0619
 Tertiary
 Eocene, 801179
 Oligocene, 801179
 Paleocene, 801177
 thermohaline flow, Quaternary, 720989, 720990, 720991
 time, core depth, temperature, relation, 42B0623
 time, variation, 42B0617
 trace elements, isotope geochemistry, 720415
 transgression, marine, 42B0620
 transition, continental, marine, environment, 42B0621
 unconformity, 42B0620
 variable fresh-water input, 42B0623
 varve, 42B0620
 Vigo Seamount, carbonate, 47B0494
see also carbon isotope
¹⁴C, 42B0627
 Black Sea, evolution, 42B1141
 chemical characterization, kerogen, 711048
 humic acid, 711048
 alkene, isoprenoid, 711048
 kerogen, 711048
 alkene, isoprenoid, 711048
 microbiologic activity
 acetate, 950638
 methylamine, 950638
 microorganism experiment
 carbon dioxide, 960770
 methane, 960770
 New Jersey, wedge toe, 950638
 New Jersey Transect
 midslope, 950636, 950638
 seaward end, 950638
 radiocarbon dating
 activity, 640757
 Guaymas Basin, 640757
 San Francisco Bay, middle fan channel, 960771
 sediments, radioactive elements, 42B0627
 sulfate-reducing, methane producing
 microorganism, methane, 960773
 C/Al ratio, basalt, midocean ridge, 820452
 C/Ba ratio, chemical analyses, 600604
 C/N ratio
 amino acid, sugar, 42B0703
 Angola Basin, Cretaceous, 751009, 751010, 751017
 Atlantic Ocean S, Quaternary sediments, 720833
 carbon
 deep-sea sediments, 580748
 geochemistry, 500626, 590644
 carbon, organic, 720834, 740731, 740732
 ammonium, inorganic, 740732
 Brazil Basin, 720834
 CCD, 740732
 dolomite, 740732
 nitrogen, organic, 740732
 opal, 740732
 surficial marine sediments, 720834
 Tertiary-Quaternary, 740832
 Goban Spur, 800949, 800993
 hydrocarbon, C₁-C₈, Guaymas Basin, 640769
 intraslope basin organic matter, 960753
 kerogene, sediment, 640769
 methanogenesis, sediment, 640769
 Mexico, Gulf of, nonvolatile organic matter, 960748
 Mississippi Fan, organic matter, 960755
 nitrogen, deep-sea sediments, 8580748
 nitrogen, inorganic, 800996
 nitrogen, organic, 800996
 organic geochemistry, 640723, 640724, 640727
 Angola Basin, 750460, 750462
 carbon, residual, 640726
 gasoline, light, 640945
 Guaymas Basin, 640945, 640947
 terrigenous influence, 800963
 Walvis Ridge, 750465
 Pacific Ocean SE, carbon, organic, 920410
 Pendragon Escarpment, 800955
 Rockall Plateau, sediments, 810815
 shale, black, thermal history, 711026
 sugar, 42B0703
 Walvis Ridge, 750979
 Angola Basin, 750971, 750973
 atomic ratio, 750967
 Neogene-Quaternary organic matter, 751089
 C/P ratio
 carbon isotope, stable, ocean water, 410947

- carbon, organic, geochemistry, 750827
 Rockall Plateau, sediments, 810813, 810815
 Caballos Formation, Texas
 chert, 561135
 jasper, 561137
 Cabinda, 400034, 750469, 750472
 continental margin, 750474, 750478
 Cablac limestone, Timor, 270567
 Cabo Blanco, 040597, 840022, 840080
 Cabo de Gata, 130770
 Cabo Frio, 750477
 Cabo San Lazaro
 Baja California SW, tectonics, 630957
 bathymetry, 630920
 Cabo San Lucas, 630921, 640262, 640856, 640858, 641083, 641085, 641086, 641285, 660421, 660423
 bathymetry, 630920
 California, Gulf of, gulf mouth, 650433
 fracture zone, 630920
 organic geochemistry, 640717, 640879
 algae, bacteria, 640879
 autochthonous origin, 640879
 Baja California, 640940
¹³C, 640879
 diagenesis, 640879
 environmental conditions, oxic, 640879
 fatty acid, 640879
 fossil lagoonal deposit, 640950
 gas, interstitial, 640724
 Guaymas Basin, 640943, 640946
 H/C ratio, 640879
 interstitial water, 640720
 kerogen, 640879
 ketone, 640879
 lignite, 640879
 lipid, 640879, 640880
 microbial indicators, 640879
 moretanes, 640879
 N/C ratio, 640879
 organic matter, 640879
 peat, 640879
 perylene, 640879
 phytol, 640879
 Pleistocene sedimentation, 640877
 pristane/phytane ratio, 640879
 reducing microenvironments, 640879
 steroidal markers, source, 640879
 sulfur, 640879
 terrigenous organic matter, dilution, 640879
 organic matter, geochemistry, 640855, 640856, 640862
 Cabrillo Seamount, 640071, 640083, 640613, 641086, 641090
 CaCO₃, 730657, 730676
 abyssal plain, inorganic geochemistry, 801074
 accumulation rate, 730614
 metal, 340575, 340580
 Africa, continental margin NW, 410970, 410971, 410972, 410983
 age vs. depth, 850712
 alteration, products, 810738
 amino acid, deposition, 42B0704
 Angola Basin
 clay mineralogy, 750847
 geochemistry, 750847
 geologic evolution, 750513, 750515, 750527
 Assemblage IB(-), 710394
 Assemblage IIA(+), 710395
 Assemblage IIIA(+), 710395
 Atlantic continental margin, interstitial water chemistry, 111011, 170515
 Atlantic Ocean
 Cretaceous, 750823
 margin, 481103
 Atlantic Ocean NE, stable isotope, 480478, 480482
 Atlantic Ocean NW
 microfacies, 440478, 440484, 440488, 440491
 sedimentation, 440975
 Atlantic Ocean S
 history, 740715, 740721, 740722, 740723
 Malvinas Outer Basin, 391109
 Atlantic Ocean SE, paleoenvironmental evolution, 740665
 basalt, mineral, secondary, 340424
 basalt, altered, chemistry, 511327
 Bermuda Rise, geochemistry, 511515
 Black Sea, mineral, terrigenous, 42B0656
 Brazil Basin
 deposition, 720886
 geochemistry, 720421
 calcareous nannofossils, distribution, upper slope, 800769
 calcium carbonate, 500825, 500831, 850742
 carbon, organic, 620869, 620870
 cyclic variations, 901444
 California, Gulf of, gulf mouth, 650368, 650415
 Cape Bojador, continental margin, 47A0797, 47A0798, 47A0801
 carbon, 100641, 170927, 361049, 370639, 390502
 carbon isotope, 480751
 carbon, organic, stable isotopes, 711057
 carbonate, 100641, 170927, 901203
 carbon isotope, 130796
 carbon, organic, 750906
 dissolution, 920299
 fossil preservation, 320899
 isotopes, 960673
 oxygen isotope, 480751
 paleoenvironment, 47A0680
 Quaternary, 901435
 stable isotopes, 711057
 stratigraphy, 850764, 850864
 carbonate nodule, 561094
 carbonate nodule, authigenic, 870662, 870664
 CCD, history, 920302
 Cenozoic sediments, lithology, mineralogy, geochemistry, 450330
 chert, 320434
 mineralogy, 320441
 chronostratigraphy, 960592
 paleoenvironmental interpretation, 960674
 clay, red, Miocene, 730517
 Colombian Basin, isotope stratigraphy, 680449
 continental shelf, onshore geology, 400973
 convection, interstitial water, 920613
 Costa Rica Rift
 carbonate, 690462, 690468
 chalk, 690403
 crust, thermal history, 690471
 cycle description
 accumulation rate, 750909
 carbon, organic, 750919
 carbonate, 750907
 color cycles, 750912, 750913
 cyclicity mechanism, 750920
 origin, 750912, 750913
 upwelling, 750916
 Walvis Ridge, 750919
 deposition, models, 960739
 diagenesis, dissolution, 920345
 East Pacific Rise
 carbonate, 920372, 920373
 sediments, 650426
 equatorial high-productivity belt, 850974
 Falkland Plateau, basement, 360906
 Galapagos Spreading center, 540378
 normative composition, 540381
 geochemical component grouping, 801074
 geochemical history, sedimentation, 710405, 710437
 geochemical partitioning, calcium, 650428
 geochemistry, 390477, 390489, 390490, 720429, 720438, 720829
 carbonate, 390477, 390478, 390484, 390487
 Cenozoic sediments, 42B0543, 42B0545, 42B0551, 42B0554, 42B0559, 42B0563, 42B0584, 42B0587, 42B0588, 42B0599
 Rio Grande Rise, 720438
 Rockall Plateau, 810738
 Goban Spur, Cenomanian-Turonian, 800979
 grain size, decrease, 850764
 Hess Rise
 Albian sediment, 620939
 iridium, 620847
 microfossils, 320511
 post-Jurassic sedimentation, 620825, 620827
 rocks, 620864
 Hess Rise N, post-Jurassic, 620812
 hysteresis, bulk magnetic and lithology, induced magnetization, 730676
 Indian Ocean E, lithology, 271015, 271017
 Indian Ocean SW, iron-rich sediment, 250396
 Indus Fan, sedimentation, 230483
 inorganic chemistry, 960738
 inorganic geochemistry, sediments, rocks
 Angola Basin, 750927
 Hess Rise, 620690, 620693
 Mid-Pacific Mountains W, 620685
 Walvis Ridge, 750935
 interstitial water, 350425
 chemistry, 350412, 640689
 Japan Trench
 carbonate nodule, 561094
 sediments, 271234, 571213
 limestone, 931263
 Cretaceous, 620879, 620881, 620885
 stable isotope, 150796
 lithologies, major, ooze, 901481
 lithology, 660683
 mud, calcareous, 960478
 Lord Howe Rise C, Neogene evolution, 901448
 magnetization, induced, 730676
 magnetostratigraphy, accumulation rate, 730614
 major element
 geochemistry, 42B0527, 42B0528, 42B0530, 42B0536
 interstitial water, 200841
 manganese, carbonate, 801065, 801070
 Mellish Seamount, post-Jurassic
 sedimentation, 620834, 620841
 microprobe analyses, 870661
 Mid-Pacific Mountains W, Aptian sediments, 620909
 mineral, chemical composition, sediments, 38S0031
 sediment chemistry, 38S0041
 mineralogy, 650392
 dissolution, 920345
 sediment, 680397
 minor element, geochemistry, 360930, 360937, 42B0527, 42B0528, 42B0530, 42B0536
 Miocene ocean, isotopic change, evidence, 740699
 Nankai Trough, carbonate nodule, authigenic, 870659
 ooze, calcareous, 271009

- ooze (Cont.)
 Miocene to Maestrichtian, 220739
 organic geochemistry
 Goban Spur, 800956
 Pendragon Escarpment, 800955
 Porcupine Plain, 800956
 organic matter
 Goban Spur, 800974
 Porcupine Plain, 800970
 oxygen isotope, 130796
 Pacific Ocean, bottom sediments, 571313
 Pacific Ocean C, paleoceanography, 850982
 Pacific Ocean NW, geochemical history, 620789, 620801, 620802
 Pacific Ocean SE
 convective fluid flow, 920419
 ridge flank sediments, 920417
 Pacific Ocean SW
 calcareous sediments, 901239
 paleoceanography, 901513
 paleoceanography, Miocene events, 850767, 850768
 Panama Basin, sediments, 690385
 Pendragon Escarpment, 800979
 autochthonous faunas, 800739
 benthic foraminifers, 800737
 relationship, 800737
 Philippine Sea
 Mariana Islands, 600432
 Mariana Trench, 600435
 Mariana Trough, 600431
 Shikoku Basin, 600419
 West Mariana Basin, 600429
 West Mariana Ridge, 600430
 porcellanite
 chert, 320434
 mineralogy, 320441
 Porcupine Plain, Albian-Cenomanian, 800976
 pore water, heat flow, 700347, 700348
 Rio Grande Fracture Zone, geochemistry, 720429
 Rio Grande Rise, sediment, 720425
 Rio Grande Rise E, carbonate, bulk, 720428
 Rockall Bank, organic matter, 810823
 Rockall Plateau, sediments, 810812, 810819
 sand, 500825, 500831
 scanning electron microscopy, alteration, 870662
 sediment
 dissolution, 920363
 hydrothermal sediment, 920363
 lysocline, 920363
 sediment chemistry, major element, 350447
 sediment geochemistry, 550457
 nondepositional environment, 550460
 ooze, siliceous calcareous, 550457
 shallow-water bethogenic detrital sediments, 550459, 550460
 sedimentary record, dissolution, 850765
 sedimentation, geochemical aspects, 710434, 710435
 sedimentation rate, 901484
 shale, 931263
 Shatskiy Rise, microfossils, 320511
 subsidence
 decrease, 920301
 oligotrophic ocean, 920301
 sedimentation rate, 920301
 sugar, deposition, 42B0704
 Timor Trough
 ooze, foraminiferal, 271011
 ooze, nannofossil, 271011
 trace elements, Cretaceous/Tertiary boundary, 720402
 upper slope
 abundant fauna, 800732
 autochthonous benthic foraminifers, 800733
 Walvis Ridge
 geologic evolution, 750531, 750532
 transect, 740646, 740649, 740654, 740658, 740660
 Zn/ZR, distribution, 710404
see also calcium carbonate
 cadalene
 organic geochemistry, 640890, 640895
 Cabo San Lucas, 640879
 molecular markers, 630845
 Vito Seamount, Cretaceous sediments, 47B0569
 cadinene, organic geochemistry, Cabo San Lucas, 640879
 Cadiz, Spain, 42A0778
 cadmium, 060845
 Indian Ocean SE, sediments, 260542, 260547
 preliminary organic analyses, 111021
 thermohaline flow, Quaternary, 720990
see also Cd
 Cadomian Orogeny, 801111
 Barremian-Aptian, ⁸⁶Sr/⁸⁷Sr ratio, 620782
 basement, main features, 801111
 Caesarea, 42B1202
 Israel, history, 42B1202
 Mediterranean Sea E, history, 42B1202
 Cagayan River
 lithology, 310143
 structure, 310618
 submarine canyon, 310615
 Cagua Islands, volcanism, explosive, Neogene, 310577
 Caicos Islands, Bahama Islands, geology, 110886
 Caimito Formation, 110545
 Cairo, 131242, 131247
 Calabria, 42A0195, 42A0372, 42A0968, 42A0977, 680333, 680334, 760871, 110492, 130064, 130403, 130429, 130587, 130691, 131003, 131027, 131406, 131412
 Le Castella, 131006, 131349
 Messinian environments, pre-evaporitic setting, 42A1004
 Santa Maria di Catanzaro, 131006
 Tethys, Mediterranean Sea, 42A0948
 Calabrian Formation, 100649
 Calafia Fracture Zone
 bathymetry, 630921
 crust, oceanic, isochrons, 630922
 Calcare di base, Messinian environments, salinity crisis, 42A1005
 Calcare Rupestre, 110813
 calcarenite
 Africa SW, continental margin, 400474, 400476
 aragonite, 010523
 Atlantic continental margin NW, evolution, 440955, 440957
 Atlantic Ocean
 Cenozoic sediments, 140859
 Cretaceous sediment, 140859
 Atlantic Ocean N
 Mediterranean Sea, 110810, 110812, 110814, 110817, 110818
 sedimentation, 120928
 Atlantic Ocean NW, sedimentation, 440974
 Bahama Islands, geology, 110887
 Blake Basin, 760733, 760734, 760737, 760742
 calcite, 010523
 Cape Bojador, lithologic classification, 500019
 carbonate, 010522
 cementation, 41S0968
 chalk, nannofossil, 010521
 allochthonous debris enrichment, 010521
 cementation, 010521
 turbidity current, 010521
 continental margin, structural evolution, 481042
 continental shelf, onshore geology, 400967
 Cretaceous
 alteration, 010523
 calcite, 010523
 Cretaceous sediments, microfacies and microfabrics, 410497
 Cyprus, evaporites, 42B1186, 42B1188, 42B1192
 diagenesis, 010583
 alteration, 010583
 deposition, 010583
 dissolution, carbonate, 400994, 400995
 Emperor Seamounts, petrology, 550573
 formations drilled, exposed land, 42A0899
 lithology, 070612, 120047, 400197, 400206, 410030, 480176, 500042, 500043, 500045, 500129
 burrows, 140259
 calcilutite, nannofossil, 140259
 calcisiltite, 140258, 140259
 calcite, 140258
 Campanian, 110014
 clay, carbonate-free, 140259
 clay, red, 120763
 deposition, 480116
 foraminifers, redeposited, 140258
 grading, 140258
 limestone, 120052, 120054
 Miocene, 140258
 oozes, 140258
 Pliocene, 140258
 sedimentation rate, 140258
 sedimentology, 100027
 silt, 120047
 turbidites, 120763
 Mesozoic, Barremian-Aptian, Neocomian, 710448
 mineralogy, 550857
 Neogene formations, paleogeography, 42A0908, 42A0915, 42A0916, 42A0918
 quartz, 010522
 sedimentology, limestone, 100699
 shelf-derived material, 010522
 Tethys N, margin, 440955, 440957
 turbidites, 500734, 750786
 flysch, 250443
 lamination, 750786
 calcarenite, bioclastic, Pacific Ocean W, guyot, 200657, 200660, 200664, 200666
 calcarenite, crinoid-bearing
 Atlantic Ocean N, Mediterranean Sea, 110806
 shale, black, Biscay, Bay of, 480892
 calcarenite, dolomitic
 Campeche Bank, sediments, 100008
 Indian Ocean E, lithology, 271002
 lithology, 100008, 100197, 100203, 270199
 Orphan Knoll, shallow water, 121181
 Timor Trough, 271010
 calcite, sparry, 271013
 lithified, 271012
 mineral, heavy, 271013
 quartz, 271013
 shallow-water nature, 271013
 calcarenite, foraminiferal
 Atlantic Ocean
 Cenozoic sediments, 140795
 Cretaceous sediment, 140795
 lithology, 100027, 42A0238
 calcarenite, phosphated, Pacific Ocean W, guyot, 200657, 200658, 200660
 calcarenite, skeletal
 Mediterranean Sea E, history, 42B1201
 Neogene formations, paleogeography, 42A0910

- Calcarei a Calpionelle Formation, 760874
 calcilutite
 Atlantic Ocean N, Mediterranean Sea, 110810, 110811, 110812, 110813, 110814, 110815, 110816
 Atlantic Ocean NW
 microfacies, 440487, 440488
 sedimentation, 440974
 Bahama Islands, geology, 110895
 Campeche Bank, sediments, 100007
 Campeche Escarpment, sediments, 100035
 Cape Bojador, continental margin, 47A0809
 carbonate, Pacific Ocean W, 070977
 diagenesis, slope sediments, 840576
 evaporites, Miocene, 131236
 limestone, Jurassic-Cretaceous, 440463
 lithology, 100007, 100008, 100203, 100313, 100314, 440170
 Callovian-Oxfordian, 110079
 Neocomian-Tithonian, 110057
 Oxfordian-Kimmeridgian, 110057
 sedimentology
 limestone, 100699
 Mexico, Gulf of, 100711
 turbidites, biogenic, 750790
 calcilutite, nannofossil
 lithology, 100313, 100314, 100316
 calcarenite, 140258, 140259
 mud, calcareous, 140258, 140259
 calcimicrite, Algeria, continental shelf, 42B1183
 calcirudite
 41S0967
 Atlantic Ocean N, Mediterranean Sea, 110811, 110818
 Cretaceous sediments, microfacies and microfabrics, 410497
 lithology, 100203
 Campanian, 110014
 calcisiltite, 010522, 010523
 aragonite, 010523
 Atlantic Ocean
 Cenozoic sediments, 140795
 Cretaceous sediment, 140795
 Atlantic Ocean N, Mediterranean Sea, 110810, 110817, 110818
 Atlantic Ocean NW, sedimentation, 440974
 Cape Bojador, lithologic classification, 500019
 chalk, nannofossil, 010521
 allochthonous debris enrichment, 010521
 cementation, 010521
 turbidity current, 010521
 Cretaceous, 010523
 alteration, 010523
 calcite, 010523
 foraminifers, 010523
 diagenesis, 010583
 alteration, 010583
 limestone, Jurassic, 790465
 lithology, 100007, 100261, 100313, 100314, 100316, 500129
 calcarenite, 140258, 140259
 Callovian-Oxfordian, 110079
 marl, zeolitic, 140296
 mud, calcareous, 140258, 140259
 ooze, nannofossil, 140259
 Paleocene red sediments, 120167
 matrix, 100007
 Mazagan Plateau, 790372
 quartz, 010522
 sedimentology, Mexico, Gulf of, 100711
 shelf-derived material, 010522
 calcisiltite, foraminiferal
 Atlantic Ocean
 Cenozoic sediments, 140795
 Cretaceous sediment, 140795
 Campeche Bank, sediments, 100007
 calcisparite, isotopic composition, Messinian sediments, 42A0641
 calcite, 210718, 340409, 510754, 510755, 510756, 540325, 670569, 720569, 870661
 Africa, continental margin NW, 410972, 410973
 Africa NW, continental margin, 411124
 Africa SW, continental margin, 400470, 400471, 400472, 400476
 Albian sediment
 geochemistry, 480856, 480868
 mineralogy, 480856, 480868
 Alboran Basin W, mineralogy, 130607, 130666
 Algeria, continental shelf, 42B1182
 alteration, 300486, 300487
 aging, 511162
 mineralogy, 340389, 460305, 540775
 products, 450615, 511274, 511281, 810734, 810737
 remnant arc debris, 590739
 temperature, 920499
 alteration, low-temperature, 340409, 340419, 340423
 basalt, 490709, 490710
 mineral, secondary, 460305
 mineralogy, 340389, 370834, 450609, 490710, 511183
 alteration, nonoxidative, 340409, 340423
 alteration, oxidative, 340419
 alteration, secondary, 810769
 altered rocks, 590735
 Angola Basin
 geochemistry, 751100, 751101
 lithology, 750847
 petrochemistry, 751101
 Antarctica
 geochemistry, 350405
 glaciation, 291041
 mineralogy, 350749, 350752
 Arabian Sea N, sediment history, 230506
 Argentine Basin, mineralogy, 361019, 361022, 361026, 361027
 ash
 mineral composition, 38S0105
 mineralogy, 38S0105
 Atlantic continental margin
 interstitial water, 100795, 140765
 lower continental rise, 100792
 mineralogy, 050441, 050442, 050443, 070913, 070914, 080902, 090707, 090759, 090764, 100783, 110754, 110755, 110759, 110763, 110771, 110772, 110783, 121127, 121128, 121130, 121131, 121132, 121134, 121136
 sediments, 100792
 Atlantic Ocean
 Cenozoic sediments, 140817
 Cretaceous sediment, 140817
 geochemistry, 47B0432, 47B0434, 47B0435, 47B0436
 mineralogy, 47B0432, 47B0434, 47B0435, 47B0436
 Atlantic Ocean N
 Goban Spur, 801007
 Mediterranean Sea, 100812, 110811, 110814, 110816, 110817, 110818
 mineralogy, 020330, 431020, 431021, 431022, 431023, 431025
 Atlantic Ocean NC, Mesozoic sequences, 410993, 410999
 Atlantic Ocean NE, evolution, 411218, 411227
 Atlantic Ocean NW
 lithology, 110905
 microfacies, 440485, 440488, 440489, 440490
 Atlantic Ocean S
 Cenozoic paleoceanography, 730772, 730773, 730775
 cone-in-cone structure, 710345, 710346, 710348, 710349
 history, 740720, 740721
 mineralogy, 030509, 030510, 040326, 400542, 400547, 400548
 Atlantic Ocean SE, Cretaceous, 740771, 740773, 740774, 740775
 Atlantic Ocean W, mineralogy, 040325, 040326
 B, trace elements, 920491
 Bahama Islands, geology, 110879, 110884, 110887
 Baja California Seamount Province
 basalt, 630716
 petrography, 630689
 Balearic Plain, mineralogy, 130679
 Balearic Rise, mineralogy, 130607, 130677
 Barbados Ridge
 basalt, 780385
 dissolution, 780471
 isotopic composition, 780385
 barite, authigenic, 410915
 origin, 410922, 410923
 pseudomorph, 410924
 Barremian-Albian sediment, 800911
 Barremian-Aptian, ⁸⁶Sr/⁸⁷Sr ratio, 620782
 basalt, 240781, 240784, 830336
 alteration, 340389, 450609, 511183, 920512, 920513
 alteration, low-temperature, 511304, 511309
 aragonite, 190632
 Barbados Ridge, 780385, 780394, 780398
 basement, 920499
 California, Gulf of, 650580
 chemical composition, 320563, 320565, 320567
 chemistry, 920473
 Costa Rica Rift Zone, 830145
 geochemistry, 350332, 350333, 490605, 590758, 920450
 geochronology, 411113
 K/Ar age, 160651, 380758, 390547, 390549
 major element, 510988
 Mid-Atlantic Ridge, 820440
 Middle America Trench, 840796, 840804
 midocean ridge, 820396, 820397, 820413
 mineral assemblage, 511220, 511224, 511229, 511231
 mineral chemistry, 550626, 550629
 mineral composition, 050533, 050534
 mineral, secondary, 340409, 340419, 340420, 340425, 340426, 340428, 511243, 511244, 511245
 mineralogy, 42A0517, 460305, 540695, 150993, 270552, 270553, 270556, 291103, 291104, 370825, 370827, 411103, 411104
 petrochemistry, 630712
 petrography, 260471, 540695, 670577
 petrology, 160618, 160639, 220461, 220463, 320563, 320565, 320567, 330575, 330577, 330579, 330589, 350332, 350333, 390547, 390549, 580845, 580847
 pyroclastics, 260557, 260558
 pyroxene, 590696
 Rio Grande Rise, 720577
 trace elements, 510988
 vein, 42A0509
 vesicle, 42A0509
 basalt, altered
 chemistry, 511320, 511322
 geochemistry, 580791, 580793, 580810, 580815, 580827

- basalt (Cont.)
 petrochemistry, 580791, 580793
 weathering, 540778
 basalt, oceanic, Melanesian Basin, 610647, 610649, 610650, 610654, 610658, 610659
 basalt, pillow, Middle America Trench, 840796, 840804
 basement
 basalt, 42A0509, 42A0517
 geochemistry, 590747, 590748, 590751
 mineral composition, 180941
 mineralogy, 270552, 270553, 270556
 ^{18}O , 920500, 920501, 920502
 petrology, 370695
 basement, basalt, 950499
 beef-in-shale, 360865, 360866
 petrology, 360865
 Bermuda Rise
 basalt, 511149, 511150, 511201, 511203, 511204, 511205, 511206, 511208, 511211
 crystallization, 511040
 Magnetic Anomaly MO, 511130
 mineral, secondary, 511259
 sea floor, 511162
 biogenic sediment, diagenesis, 300454, 300457, 300458, 300459, 300460, 300461, 300468, 300469
 Biscay, Bay of
 Albian sediments, 480856
 mineralogy, 101132, 101134, 101136
 Black Sea
 evolution, 42B1141, 42B1142
 sediments, 42B0374, 42B0375, 42B0381, 42B0382, 42B0385, 42B0387, 42B0388, 42B0493, 42B0495
 Blake Basin, 760733, 760741, 760747, 760772
 Blake Ridge
 carbonate, 200869
 gas, natural, 100797
 boron, Miocene/Pliocene boundary, 47A0553
 Brazil Basin
 geochemistry, 720422
 minor sediment components, 721003
 Recent-Eocene sedimentation, 721001
 sedimentation comparison, 721004, 721005
 zeolite, 721006
 ^{13}C , 42B0619
 aragonite, 42B0623
 calcarenite
 Cretaceous, 010523
 Miocene-Pliocene-Pleistocene, 010523
 calcareous microfossil, composition differences, 850815
 calcisiltite
 Cretaceous, 010523
 Miocene-Pliocene-Pleistocene, 010523
 calciturbidites, diagenesis, 500742
 calcium, recrystallization, 850810, 850815
 California, Gulf of, gulf mouth, 650368
 Cape Basin, Cretaceous to Pliocene, 400493
 caprock
 palynology, 010428
 petrology, 010428
 carbon, stable isotopes, 42A0485
 carbon dioxide, release, 200856
 carbon isotope, foraminifers, 170591, 170600
 carbon isotope, stable
 chert, 410944
 vein filling, 410938
 carbonate, 010554, 010555, 42A1211, 47B0686
 authigenesis, 870676, 870677
 carbon, organic, 711059, 711060
 diagenesis, 010555, 170413, 170414, 170420, 170421, 170424, 320521, 320523, 320524, 320525, 320526, 320527, 320904, 850815
 diagenetic, 630597
 dissolution, 920299
 fossil preservation, 170413, 170414, 170420, 170421, 170424, 320896, 320897, 320901, 320902
 interstitial water, 850810, 850815
 lithification, 320904
 mineralogy, 870659
 ^{18}O , 42B0619, 42B0623
 origin, 010555
 Pacific Ocean W, 070977
 sediments, 320893
 stable isotope, 42A0651, 42A0653
 carbonate, authigenic, 870670
 carbon isotope, 870672
 chemical composition, 870672
 formation, 870675, 870676
 oxygen isotope, 870672
 carbonate, diagenetic, isotopic survey, 630595, 630597, 630598, 630601
 carbonate mineral, 130788
 isotopic composition, 130788
 stable isotopes, 550653, 550654, 550655
 carbonate nodule, 680481, 680482
 Middle America Trench, 660459, 660460
 carbonate nodule, authigenic, 870662
 aragonite, 870662
 pseudomorphs, 870664
 purity, 870663
 carbonate, secondary, vein, 580905, 580906, 580908
 Caribbean Sea, sediments, 150930
 CCD, history, 920302
 cement, 060045, 120047, 120052, 120053, 130065, 130068, 140844, 170152, 170413, 170417, 170424, 190024, 190097, 190221, 210037, 240128, 240395, 250243, 270283, 280022, 280864, 290231, 380166, 400048, 400202, 401027, 401029, 401030, 410428, 410498, 410973, 411004, 430043, 430045, 430166, 440079, 480179, 500042
 cementation, 130726, 47A0747, 810638
 cement, 41S0968
 Cenozoic paleotemperatures, isotopic signal, 47B0508
 chalk, nannofossil, Cretaceous, 010521
 Chatham Rise, Quaternary, 901434
 chemical and mineral composition, 350471
 basalt, 350473
 chemistry, 340377, 370367, 370827
 carbonate, 370825
 oxygen isotope, 370827
 chert
 cavities, 320439
 foraminifers, 330859
 formation, 320445
 geochemistry, 620715, 620718, 620721, 620723, 620725, 620730
 mineralogy, 320442
 overgrowth, 320447
 Pacific Ocean E, 160611
 petrography, 320442
 porcellanite, 320445
 replacement, 320447
 siliceous sediments, 320444
 vein, 320439
 clastic sediment, Cretaceous, 401030
 clay
 $^{16}\text{O}/^{18}\text{O}$ ratio, 350489
 sandstone, 47A0579
 siltstone, 47A0579
 clay, black, geochemistry, 430639
 clay, green, mineralogy, 700216
 clay mineralogy, 750862, 960738
 diagenetic history, 750865
 clay minerals, 670515, 670523, 960479
 hydrothermal mounds, 700225, 700228
 Pacific Ocean NW, 200336, 200339, 200341
 clay, red, Miocene, 730517
 clay, siliceous
 diagenesis, 271005
 kaolinite, 271006
 claystone, siliceous
 diagenesis, 271005
 kaolinite, 271006
 clinoptilolite, Atlantic Ocean NW, 430473
 Cocos Plate
 basalt, 660703
 sedimentary facies, 670608
 conclusions, hydrothermal activity, 670569
 cone-in-cone texture, 360865, 360866
 petrology, 360865
 cooling unit, mineralogy, 511022, 511025, 511033
 Costa Rica Rift
 alkali, 690492
 carbonate, 690463
 chalk, 690397, 690398, 690399, 690403
 siliceous rocks, 690423
 stockwork-like zone, 830277
 Costa Rica Rift Zone
 basalt, 830219, 830220, 830223, 830230, 830232, 830234, 830235, 830237, 830238, 830239, 830250, 830258, 830283, 830284, 830285, 830286
 hydrothermal alteration, 830301
 stockwork-like zone, 830265, 830266, 830267, 830268, 830269, 830271, 830274, 830275
 Cretaceous sediments, microfacies and microfabrics, 410498
 Cretaceous/Tertiary boundary, mineralogy, 620851
 crust, oceanic
 aging, 511569
 basalt, 340423
 Costa Rica Rift Zone, 830184
 seawater interaction, 511170
 Daito Ridge, sandstone, 580610
 deposition, 920299
 carbonate compensation depth, 920600, 920601
 chalk, nannofossil, 250496, 250497
 crust, 920299
 Goban Spur, 800865
 ooze, nannofossil, 250496, 250497
 Pacific Ocean S, 950299
 diabase
 gabbro, 411103, 411104
 olivine, 411104
 trace elements, 240781, 240784
 diagenesis, 660510
 aspects, 901486, 901487
 biogenic sediment, 850805, 850818, 850819
 carbonate, 210504
 cementation history, 660510
 dissolution, 920349
 Ita Mai Tai oolite, 200366
 Mediterranean Sea, 130723
 Mesozoic, 271014
 mineral, 47A0741
 Miocene to present, 690376
 slope sediments, 840573, 840574, 840584, 840586
 diagenesis, burial, ooze, carbonate, 790400, 790402, 790403, 790404
 diagenetic facies
 Coniacian to Eocene, 210497
 Eocene to Oligocene, 210497
 dissolution, 860518, 860520, 950533
 Barbados Ridge, 780471
 dolerite, 630713, 630714, 630721

- dolerite (Cont.)
 Cretaceous, 150993
 dolomite, diagenetic, mud, anoxic
 diatomaceous, 640558
 dolosparite, petrography, 800900
 East Mariana Basin
 mineralogy, 890414
 sedimentary history, 890668, 890669
 East Pacific Rise
 basalt, 540405
 boron, 920378
 carbonate, 920373
 phosphorus, 920377
 sedimentation rate, 920585
 sediments, 650381, 920355
 sulfur, 920378
 Emperor Seamounts
 diagenesis, 550426
 mineralogy, 550464, 550466, 550471
 environment, sapropel, 42A0457
 evaporites
 Mediterranean Sea, 130705
 Messinian, 42A0573
 Falkland Plateau, basement, 360893, 360894,
 360896, 360902, 360906, 360907
 Falkland Plateau E, sedimentation, 360881,
 360884, 360886
 FAMOUS area, mineralogy, 370896, 370897,
 370898, 370899, 370900, 370901, 370903
 feldspathic sediment, mineral composition,
 200360
 ferromanganese sediment, 190630
 volcanics, 190634
 fossil, altered, 340623
 fossils, minerals, rare and unusual, 340623
 fractures, alteration, 340389
 gabbro-diorite, petrology, 411103, 411104
 Galapagos Spreading center, 540322
 hydrothermal deposits, 540341
 gas, natural, zonation, 110794
 geochemistry, 060831, 060832, 370695, 540777
 alteration, 220461
 andesite, 220463
 biogenic material, 060837
 carbonate, 390478, 390484
 Cenozoic sediments, 42B0551, 42B0554,
 42B0563, 42B0568, 42B0589
 Guaymas Basin, 640712
 Hatton Drift, 810734
 igneous rocks, 370735
 mineral, secondary, 450615
 mineralogy, 620851
 Rockall Plateau, 810737
 vein, 160618, 160639, 390490
 glauconite, mineralogy, 250427
 Goban Spur, evolution, 801206, 801213
 grain orientation, 720567, 720568, 720569,
 720571
 Greenland Sea, 38S0224, 38S0237
 basalt, 38S0241, 38S0242, 38S0243
 Voring Plateau, 38S0200
 Guadalupe Island
 alteration, 630714
 petrography, 630688
 Guatemala
 slope sediment, 840931
 trench, 670515, 670520, 670523, 670525
 Hellenic Trough, mineralogy, 130609,
 130610, 130669
 Hess Rise, 620962
 microfossils, 320511, 320516
 pyrite-marcasite, 620856, 620861
 rocks, 620863, 620868
 Hess Rise N, sedimentary sequences, 620759,
 620766
 Honshu NE, diagenesis, 561121, 561123
 hydrothermal vein, mineralogy, 340377
 igneous rocks
 chemical composition, 590720
 chemistry, 630733
 Indian Ocean, mineralogy, 220694, 220695,
 220696, 220697
 Indian Ocean E
 abyssal plain sediment, 271008
 grain size, 270520
 mineralogy, 270535
 Indian Ocean NW, grain size, 250417
 Indian Ocean W, 240658, 241065
 basalt, 250543, 250546, 250549
 geochemistry, 250406, 250415
 interstitial water, 250366, 250368,
 250370, 250372
 mineralogy, 060753, 060754, 060755,
 060756, 060757, 060758, 060759, 130606,
 130607, 130608, 130609, 130610, 130611,
 140677, 140678, 140679, 150847, 150848,
 150849, 150850, 160529, 160530, 181016,
 181017, 240812, 240813, 240814, 250844,
 250845, 250846, 250847, 250848, 260573,
 400547, 400548, 411066, 411071, 411074,
 411075, 411076, 411077, 411084, 411085,
 411086, 42A0363, 42A0365, 42A0370,
 42A0373, 42A0378, 42A0379, 42B0451,
 42B0457, 431019, 440515, 440516, 440517,
 440518, 440519
 minerals, 240675, 240678
 regional aspects, 250756
 terrigenous components, 240672, 241051
 inorganic geochemistry, sediments, rocks,
 Angola Basin, 750923
 interstitial water, chemistry, Guaymas
 Basin, 640689
 interstitial water, 080867, 111006
 chlorinity, 500691
 diagenesis, 350421
 interstitial water chemistry, 350415,
 350418
 isotopes, 130788
 recrystallization, 100620
 salinity, 500691
 San Miguel Gap, 630623
 interstitial water, chemistry
 Baja California, 640679
 diagenesis, 640691
 interstitial water chemistry,
 recrystallization, diagenetic, 850807
 interstitial water, mineralogical studies,
 410913
 ironstone, 190630
 isotopes, stable oxygen, carbonate, 42A0485
 isotopic composition
 Barbados Ridge, 780385
 Messinian sediments, 42A0635, 42A0641
 oxygen isotope, 370607
 strontium, 370607
 isotopic paleotemperature estimates, 710414
 isotopic study
 hydrothermal alteration, 590637, 590638
 intercalation, 590631, 590634, 590637
 Japan Trench
 carbonate, 870669
 chalk, 200011
 silt, 561008
 K/Ar age, 360923
 celadonite, 920511
 Labrador Sea, mineralogy, 101127
 lattice, 540323
 lead isotope, 340343
 Li, trace elements, 920491
 limestone, 510754, 510755, 510758, 510759,
 510760, 510764, 510765
 dolomitization, 42A0622
 petrography, 510756
 stable isotope, 150795, 150796, 150801
 stable isotope ratios, 510763, 510764
 limestone, carbonaceous, Cretaceous, 800886
 limestone, oolitic, Ita Mai Tai Guyot,
 200098
 lithologies, minor, turbidite, volcanic,
 901483
 lithology, 040043, 040081, 040098, 040130,
 050311, 060044, 060045, 060070, 060146,
 060172, 060196, 060297, 060299, 060350,
 060352, 060390, 060449, 060450, 060495,
 060540, 060541, 060542, 070030, 070056,
 070327, 070478, 100198, 100261, 140058,
 150024, 150280, 150302, 160157, 160418,
 190024, 190097, 190329, 190331, 210018,
 210021, 210036, 210037, 210109, 210337,
 210372, 210374, 210375, 210376, 220017,
 220041, 220122, 220196, 220216, 220326,
 220327, 230041, 230120, 230121, 230170,
 230171, 230297, 230298, 240018, 240128,
 240395, 250032, 250072, 250196, 250294,
 260028, 260235, 260236, 260284, 260299,
 260301, 260331, 260363, 260364, 270197,
 270198, 270283, 280085, 280220, 280374,
 290195, 290196, 290231, 290321, 290369,
 310030, 310138, 310139, 320022, 320048,
 320164, 320165, 320197, 320238, 320239,
 320318, 320319, 330030, 330044, 330045,
 330169, 340025, 340087, 350068, 350162,
 360214, 380150, 380166, 380176, 380178,
 380528, 390052, 390053, 390054, 390240,
 390241, 390337, 400048, 400206, 410028,
 410030, 410171, 410172, 410174, 410239,
 410330, 410332, 42B0036, 42B0037,
 42B0125, 42B0130, 42B0133, 42B0138,
 42B0143, 42A0156, 42A0182, 42A0234,
 42B0296, 430043, 430045, 430117, 430166,
 440079, 480179, 480221, 490393, 500041,
 500043, 500129, 510047, 510363, 721021,
 800939
 ash, 260161
 basalt, 140090, 140224, 160416, 170020,
 170059, 170106, 170153, 170250, 170267,
 170288, 270020, 270094, 270134, 270135,
 300242, 310069
 basalt, alkali, 190468
 basement, 110226
 calcarenite, 140258
 Campanian, 110014, 110015
 carbonate, 170288, 170289
 cement, 400202
 cementation, 240395
 Cenozoic units, 480044
 chalk, clay nannofossil, 300141
 chalk, foraminiferal nannofossil, 170152
 chalk, nannofossil, 170250
 chalk, radiolarian nannofossil, 170250
 chert, 170152, 170153, 170238
 chert, nannofossil, 170250
 clay, 110353, 300137
 clay, zeolitic, 170020
 diagenesis, 410440
 dolomite, 130264
 dominant lithology, 190220
 Eocene, 110013
 evaporites, 130150, 130425
 illite, 721022
 limestone, 120052, 120053, 130264,
 140023, 170055, 170152, 170153, 170288
 marl, 130030, 130066
 marl, dolomitic, 130339, 130487
 marl ooze, 130065
 marl, pyritic, 130487
 Mesozoic deposits, 47B0052
 mud, calcareous, 140258

lithology (Cont.)

- Neocomian, 110109
 ooze, 130266
 ooze, calcareous, 170287
 ooze, dolomitic, 130339
 ooze, foraminiferal, 130338
 ooze, foraminiferal nannofossil, 170152
 ooze, marl, 130423
 ooze, nannofossil, 130338, 140054, 300141
 Oxfordian-Kimmeridgian, 110057
 Paleocene red sediments, 120166
 Pleistocene, 110317
 Pliocene to Eocene, 110317
 pyrite, 290231
 sand, 130266, 190221
 sandstone, 120050, 130066, 130155
 sapropel, 130263, 130266, 130338
 shale, 140023
 silt, 120047, 190221, 300137
 Tertiary, 110109
 unconsolidated oozes, 170051, 170052
 vein, 150368, 500045
 volcanic sediment, 170055
 volcanoclastics, 250243
 zeolite, radiolarian nannofossil, 170238
 lower temperature, 670552
 Magdalena Bay
 dolerite, 630722
 sulfide, 630702
 sulfide chemistry, 630679
 magnesium, diagenesis, 801060
 magnetic oxides, petrology, 511427
 major element, 650560
 chemistry, 370646
 geochemistry, 42B0528
 manganese, coprecipitation, 801062
 Manihiki Plateau, 330880, 330882
 copper, 330881
 diagenesis, 330884
 mineralogy, 330883, 330886
 precipitation, 330882
 Mariana Trough, 600614
 Mascarene Basin, volcanic sediment, 250517
 matrix, 130723, 300460, 38S0200, 38S0241, 38S0243
 Mazagan Plateau, 790397, 790498
 Mediterranean Ridge, mineralogy, 130609, 130739
 Mediterranean Sea
 Alboran Sea, 130666
 Gorringe Ridge, 130666
 Hellenic Trough, 130669
 lithified sediments, 130726, 130727
 Messinian, 130673, 130676, 130677, 130680, 130681, 130682, 130686
 Messinian salinity crisis, 42A0653
 mineralogy, 42A1165, 130606, 130607, 130608, 130666, 42A1157, 42A1158, 42A1161, 42A1162, 42A1163, 42A1164
 Meiji Guyot, K/Ar age, 550678, 550679
 Melanesian Basin, ash, 610633, 610635
 Mendoza Rise
 lithology, 920436, 920437, 920438
 petrology, 920613
 Messinian environments, Lago Mare, 42A1019
 metalliferous sediment, Eocene-Oligocene, 850798
 Mexico, Gulf of, regional aspects, 010626, 100737
 Mid-Atlantic Ridge, basalt, 460301, 460306
 Mid-Pacific Mountains W, Aptian sediments, 620908, 620909
 Middle America Trench, transect, 670529, 670533
 mineral assemblage, evolution, 600448
 mineral and chemical composition
 bulk mineral distribution, 38S0032
 mineral composition, 38S0031
 mineral composition
 basalt, 050533, 050534
 ocean basin, 42A0509, 42A0517
 tholeiite, 180941
 mineral, diagenetic, silica minerals, diagenetic, 801085
 mineral, secondary, 460305, 920507, 920508
 abundance, 920508, 920509
 basalt, 260557, 260558
 diagenesis, nonoxidative, 340409, 340423
 diagenesis, oxidative, 340419
 East Pacific Rise, 650646, 650648
 elemental composition, 920510, 920511
 laumontite, 670551
 Tamayo Fracture Zone, 650646
 mineralization, secondary
 hydrothermal mineral, 540809
 mineralogy, 540809
 mineralogy, 150992, 210724, 210725, 210726, 210727, 220425, 291103, 291104, 330541, 330542, 330543, 330544, 540343, 550857, 600438, 650391
 amphibolite, 220418
 ash, 38S0105
 basalt, 220422, 220427, 220428, 270552
 basalt, amphibole-bearing, 220418
 basalt, amygdaloidal, 220425, 220428
 basalt, nonvesicular, 220425
 basalt, vesicular, 220425, 220428
 diabase, 220416
 Goban Spur, 801020
 lithology, 810784
 Mariana Islands, 600458
 Mariana Trench, 600458
 Mariana Trough, 600457
 metabasalt, 220419
 Pendragon Escarpment, 801021
 Porcupine Plain, 801021
 sediment, 680397, 680400
 minor element, geochemistry, 42B0528
 Mississippi Fan, sediment, 960430, 960432
 Moroccan Basin, continental margin, 500707, 500708
 Mossbauer spectroscopy study, 950644
 Mozambique Ridge, volcanic sediment, 250529
 mud, 870916
 Nankai Trough
 carbonate nodule, authigenic, 870659
 turbidites, 870916
 nannofloral analysis
 Albian cycle, 711059
 Aptian cycle, 711060
 Neogene formations, paleogeography, 42A0914
 New Jersey Transect, stratigraphy, 950767
 Nile Fan, mineralogy, 130611, 130739
 Ninetyeast Ridge, dolomite, 220479, 220482
 Norwegian Sea, 38S0224, 38S0237
 basalt, 38S0241, 38S0242, 38S0243
 Greenland Sea, 38S0264, 38S0266, 38S0438, 38S0440
 Voring Plateau, 38S0200
¹⁸O
 basalt, 920499
 carbonate, authigenic, 870674
 ocean basin
 mineralogy, 42A0517
 petrography, 42A0509
 oil
 palynology, 010428
 petrology, 010428
 olivine, diabase, 411104
 ooids, 890404
 ooze, calcareous, 271010
 ooze, nannofossil, 271008
 ore, deposit, 540804
 organic matter, geochemistry, 640860
 Orphan Knoll, mineralogy, 101127
 oxygen isotope, 901397
 foraminifers, 170591, 170600
 geochemistry, 370617, 370618
 oxygen isotope, stable
 chert, 410944
 vein filling, 410938
 Pacific Ocean, mineralogy, 310885, 310887, 310888, 310890, 310891, 310892, 310893, 310895
 Pacific Ocean C, mineralogy, 330541, 330542, 330543, 330544
 Pacific Ocean EC
 carbonate, 680483
 stratigraphy, 090939
 Pacific Ocean N, mineralization, contact, 190906
 Pacific Ocean NE
 metal-rich basal sediments, 630669, 630671
 regional aspects, 050629
 Pacific Ocean NW
 basement, 200047
 geochemical history, 620786
 mineralogy, 320548, 320549, 320550
 Pacific Ocean S
 crust, 920299
 deposition, 950299
 Pacific Ocean SE
 basalt, 340246
 convective fluid flow, 920419
 ridge flank sediments, 920417
 Pacific Ocean SW
 diagenesis, 210504
 unconformities, 210715, 210717, 210718, 280713
 Pacific Ocean W
 guyot, 200658, 200659, 200660, 200661, 200662, 200666
 mineralogy, 200324
 Pacific Plate, Japan, 200023
 palygorskite
 limestone, 411087
 palygorskite-sepiolite minerals, 411087
 palynological residue, organic matter, maturation index, 640747
 Panama Basin, sediments, 690391
 Patton Escarpment
 alteration, 630713
 petrography, 630687, 630701
 Peter I Island, geology, 350348
 petrography, 600583
 breccia, 600583
 petrology, 540798, 870660, 960502
 clay, 960502
 igneous rocks, 260557, 260558, 38S0105
 mineralogy, 38S0105
 sand, 960498, 960499
 silt, 960502
 Siqueiros Fracture Zone, 540638
 phase chemistry, petrology, 340246
 Philippine Sea
 Daito Basin, 600419
 Daito Ridge, 600419
 lithology, 061168, 061170, 061172, 061173
 Philippine Sea W, 600429
 Shikoku Basin, 600415
 West Mariana Ridge, 600430
 phillipsite, Atlantic Ocean NW, 430473
 physical properties
 carbonate, 061168, 061170
 ooze, carbonate, 061172
 siliceous sediments, 061173
 pillow lava, mineralogy, 511022, 511025
 porcellanite

- porcellanite (Cont.)
 cavities, 320439
 formation, 320445
 mineralogy, 320442
 overgrowth, 320447
 replacement, 320447
 siliceous sediments, 320444
 vein, 320439
 pyrite, microcrystalline, ooze,
 nannofossil, 260605
 pyroclast, cementation, 810637
 pyroclastics, mineral, secondary, 260557,
 260558
 quartz, $^{16}\text{O}/^{18}\text{O}$ ratio, 350489
 Rb-Sr age, 360923
 recrystallization, 110909, 110918, 110919,
 110922, 860518, 860520
 Atlantic Ocean S, 850818
 diagenesis, 850818
 diffusive processes, 850817
 onset, 850817
 Pacific Ocean W, 850818
 sandstone, 580610
 strontium, 850817
 red beds
 sedimentary structure, 38S0264
 sedimentary structure, secondary, 38S0266
 Red Sea
 dolomite, 230873, 230876, 230877
 evaporites, 230821, 230824
 sediment history, 230854
 redox conditions, residence time, 801069
 Reykjanes Ridge, mineralogy, 101130
 Rio Grande Fracture Zone, geochemistry,
 720429
 Rio Grande Gap, 721020
 dissolution, 721020
 Rio Grande Rise
 basement, volcanic, 720955
 dissolution, 721020
 Eocene sedimentation, 721007
 limestone, flaser, 721007
 Mesozoic, 721015
 sediment, 720425
 Rio Grande Rise E, carbonate, bulk, 720429
 Rivera Plate
 alteration, 630721
 petrography, 630690
 Rockall Plateau, Tertiary deposits, 810673,
 810674, 810676, 810677
 Rockall Rise, mineralogy, 101131
 Ross Sea, basement, 280864, 280866, 280867
 San Jose Canyon, 840930
 sand, diagenesis, 660510
 sandstone, 320538
 bedding, parallel, 320541
 calcite, sparry, 320540
 cross-bedding, 320541
 nannofossils, 320540
 petrology, 180919
 zeolite, 320540
 sandstone, foraminiferal, phillipsite,
 42A0478
 sapropel
 Cretaceous, 620896
 sedimentology, 42A0457
 sediment-interstitial water interaction
 ankerite, secondary, 571272
 calcite, secondary, 571272
 sedimentation
 carbonate, 42B0614
 dissolution, 920355
 San Blas Oceanic Formation, 090939
 sedimentology, 960502
 Mexico, Gulf of, 100705
 sediments, 760411
 Blake Basin, 760434
 Blake Ridge, 760411, 760412, 760415,
 760417, 760421
 seismic modeling, temperature, pressure,
 850954
 sepiolite
 palygorskite, 411087
 palygorskite-sepiolite minerals, 411087
 shallow-water bethogenic detrital
 sediments, 550460
 Shatskiy Rise, microfossils, 320511, 320516
 silica, diagenesis, 410894
 sill
 mineral composition, 180939
 mineralogy, 270552, 270553, 270556
 silt, light fraction, 561008
 Siqueiros Fracture Zone, basalt, 540705
 Southeast Pacific Basin
 evolution, geologic, 350729, 350736
 sediment distribution, 350226
 Southern Ocean, 710475
 southwest regional unconformities, 210713
 production, 210717
 Sr, paleoceanographic reconstitution, 720405
 $^{86}\text{Sr}/^{87}\text{Sr}$ ratio, 920501
 basalt/sediment interface, 920502
 basement, 920502
 precipitation, 920502
 Sr isotope, 590720
 stable isotope, 350497, 350504
 basalt, 350502
 carbonate, 350501, 650383
 stiffness coefficients, 720569
 strontium, carbonate, 42B0614
 sulfate, interstitial water, 130788
 sulfide
 chemistry, 630680
 pyrite, 370880
 synrift sediments, Aptian, 801175
 Tasman Sea, mineralogy, 300603, 300604,
 300605, 300606
 tetrapyrrole, geochemistry, 630813
 thermal conductivity, 760720
 seawater mixture, 850843
 tholeiite
 mineral composition, 180939, 180941
 mineralogy, 42A0509
 tholeiite, depleted, geochemistry, 810784
 Timor Trough
 limestone, dolomitic, 271011, 271012
 ooze, foraminiferal, 271011
 trace elements
 carbonate, 801070
 distribution, 42A0505
 partitioning, 850796
 strontium, 920495
 yttrium, 920495
 turbidites
 bedding, graded, 250444
 diagenesis, 250449
 Guatemala, 840925
 Tyrrhenian Rise, mineralogy, 130608, 130681
 Valencia Trough, mineralogy, 130607, 130673
 vein, 070030, 070056, 140090, 150368,
 160416, 160418, 170059, 170106, 170250,
 210037, 260301, 291104, 38S0224,
 38S0241, 38S0266, 410172
 alteration, 340389
 veinlet, 170020
 volcanic deposit, 901185
 volcanic sediment, 330790
 lithostratigraphy, 901176
 major element, 901180
 mineralogy, 330793
 petrography, 901178
 volcanoclastics, 330876
 volcanoclastic matter, 550503
 volcanics, 190634
 Hess Rise, 620971, 620972
 mineral composition, 180939, 180941
 Pacific Ocean C, 170434, 291103, 291104
 volcanism, basalt, 050533
 volcanism, pyroclastic, Paleogene, 810638
 Voring Plateau
 bulk mineral distribution (X-ray), 38S0040
 mineral composition, 38S0031
 Walvis Ridge
 basalt, 740740, 740741
 Cretaceous to Pliocene, 400493
 transect, 740658
 X-ray diffraction analysis result, 920492
 X-ray mineralogy, 400547, 400548
 calcite, authigenic
 Black Sea
 mineral, terrigenous, 42B0656
 sediments, 42B0385
 carbonate, diagenetic, isotopic survey,
 630601
 deposition
 chalk, nannofossil, 250497
 ooze, nannofossil, 250497
 gas, natural, zonation, 110794
 geochemistry, 390491
 carbonate, 390478, 390481, 390487
 Cenozoic sediments, 42B0545, 42B0568
 Honshu NE, diagenesis, 561121
 limestone, stable isotope, 150795
 lithology, 210274, 260078, 260080, 260159
 clay, nannofossil, 120167
 marl, nannofossil, 120167
 mudstone, 120259
 Pliocene to Pleistocene sediments, 120168
 major element, geochemistry, 42B0528
 minor element, geochemistry, 42B0528
 calcite, biogenic
 Atlantic Ocean NE, stable isotope, 480478
 Atlantic Ocean S, mineralogy, 040325
 Biscay, Bay of, Albian sediments, 480868
 Blake Ridge, gas, natural, 100797
 calcium, strontium, 850813
 California, Gulf of, gulf mouth, 650399,
 650404, 650406, 650410
 carbonate
 diagenesis, 320904, 850816
 fossil preservation, 320902
 interstitial water, 850813
 carbonate, diagenetic, isotopic survey,
 630597
 chemistry, 650418
 density, porosity, silica, biogenic, 850841
 diagenesis, 920345
 aspects, 901486
 preservation, 920349
 East Pacific Rise, carbonate, 920373
 factor analysis, sediment, 920368
 Galapagos Spreading center, normative
 composition, 540379
 gas, natural, zonation, 110794, 110797
 geochemistry, Cenozoic sediments, 42B0545,
 42B0581
 GRAPE, 901240
 Honshu NE, diagenesis, 561123
 Indian Ocean W, mineralogy, 411081
 inorganic geochemistry, sediments, rocks,
 750951
 lithology, Miocene to Recent sedimentation,
 47A0037
 Mid-Pacific Mountains W, Aptian sediments,
 620909
 mineralogy, 650418, 920345
 Pacific Ocean, sediments, 920381
 Pacific Ocean SE

- Pacific Ocean SE (Cont.)
 convective fluid flow, 920417, 920419
 paleoceanography, 920597
 paleoenvironment, Cretaceous, 47A0567
 petrology, sand, 960494
 removal, 291071
 trace elements, partitioning, 850796
 calcite compensation depth, 110816, 110820,
 140141, 160237, 160271, 160418, 320198,
 400072, 430160, 430334, 47B0414, 47B0416,
 540105, 540110, 540140, 550008, 550088,
 550104, 550197, 550289, 550301, 550457,
 550497, 750062, 750115, 750117, 750512,
 750515, 750528, 750553, 750820, 750864,
 750969, 751208, 751275, 751285, 890052,
 890055, 890093, 890214, 890297, 890328,
 890337, 890338, 890367, 890377, 890378,
 890662, 890666
 Atlantic Ocean C, basin, 511510
 Atlantic Ocean N, Mediterranean Sea, 110820
 Bauer Basin, 340803
 Blake Basin, 760435, 760446, 760447, 760777
 carbonate, dissolution, 150807, 150809
 detrital to biogenic sediment trends,
 291073, 291074
 East Pacific Rise, 920585
 lithology, 130231, 140141, 160237, 160271,
 160418, 320198, 430160, 430334
 sandstone, 400072
 shale, 400072
 Mexico, Gulf of, regional aspects, 010640
 Middle America Trench, transect, 670607
 Nazca Plate, 340804, 340805
 paleoenvironment, 47B0414, 47B0415, 47B0416
 aragonite, 47B0415
 Barremian, 47B0415
 coccoliths, 47B0415
 displaced sediments, 47B0414
 Hauterivian, 47B0415
 limestone, radiolarian, 47B0415
 microfaunal association, 47B0415
 mudstone, black, 47B0415
 radiolarian tests, 47B0415
 sand, 47B0415
see also CCD
 calcite, diagenetic
 Colon Ridge, interstitial water, 680472
 geochemistry, Cenozoic sediments, 42B0551,
 42B0568, 42B0581, 42B0602
 Japan Trench, sediments, 271223
 silica, diagenesis, 410894
 calcite, Fe-Mg, Honshu NE, diagenesis, 561125
 calcite, ferroan
 Atlantic Ocean NC, Mesozoic sequences,
 411004
 calciturbidites, diagenesis, 500743
 carbonate, 870677
 limestone, 41S0964, 41S0966
 lithology, 410428
 calcite flour, 140259
 calcite, foraminiferal
 Colombian Basin, isotope stratigraphy,
 680449
 Lord Howe Rise, isotope stratigraphy, 901383
 Pacific Ocean SE, paleoceanography, 920598
 rare earth elements, 850797
 summary, conclusions, 710420
 calcite, inorganic
 calcium, 850809
 carbonate, interstitial water, 850809
 interstitial water chemistry, equilibrium,
 850807
 Pacific Ocean SE, convective fluid flow,
 920415
 calcite, magnesium
 Arabian Sea, mineral notes, 231137
 Atlantic continental margin, mineralogy,
 100773, 100785, 110773, 110786
 Atlantic Ocean N, mineralogy, 431023, 431025
 Black Sea, sediments, 42B0382, 42B0385,
 42B0387
¹³C, CO₂, 870677, 42B0619
 calciturbidites, 500733
 carbonate, 42A1211, 870677
 diagenesis, 620525
¹⁸O, 42B0619
 petrology, 540326
 carbonate, authigenic, formation, 870675
 carbonate mineral, stable isotopes, 550653,
 550654
 diagenesis, Ita Mai Tai oolite, 200367
 geochemistry, biogenic material, 060837
 Guatemala, trench, 670525
 Indian Ocean E, mineralogy, 270535
 interstitial water, diffusive behavior,
 42A0565
 lithology, 42B0141, 42A0327, 430166,
 430208, 430210, 430212, 430334, 480135
 Mesozoic units, 480049
 Pleistocene, 110012
 major element, geochemistry, 42B0535
 Mid-Pacific Mountains W, Aptian sediments,
 620909
 mineralization, secondary, mineralogy,
 540810
 minor element, geochemistry, 42B0535
 OCP Ridge, basalt, 540811
 oolite, Ita Mai Tai Guyot, 200364
 Pacific Ocean W, guyot, 200659, 200664
 Philippine Sea, lithology, 061171
 physical properties, ooze, carbonate, 061171
 Red Sea
 geochemistry, 230981
 mineralogy, 231137
 Siqueiros Fracture Zone, basalt, 540810
 calcite, Mg-poor
 East Pacific Rise, crest, 540812
 geochemistry, carbonate, 390477, 390478
 Guatemala, trench, 670516
 mineralization, secondary, mineralogy,
 540810
 ooids, 890403, 890404
 Pacific Ocean W, guyot, 200660
 petrology, iron oxide, 540801
 calcite, micritic
 limestone, Cretaceous, 620881
 lithology, 360033, 430335
 evaporites, 130424
 Pacific Ocean, guyots, 620773
 paleoenvironment, Cretaceous, 47A0567
 calcite, nannofossil, carbonate, fossil
 preservation, 320901, 320902
 calcite, recrystallized
 Atlantic Ocean NW, lithology, 110918,
 110919, 110922
 chalk, calcite, 260593
 deposition
 chalk, nannofossil, 250497
 ooze, nannofossil, 250497
 garnet, metasomatic, 260593
 interstitial water, geochemistry,
 hydrothermal alteration, 640693
 lithology, 190467, 220042, 320298, 350068,
 430211
 Callovian-Oxfordian, 110079
 Campanian, 110014, 110015
 Campanian-Santonian, 110015
 Eocene, 110013
 Neocomian, 110109
 Oxfordian-Kimmeridgian, 110079, 110226
 Tithonian-Neocomian, 110079, 110226
 Mellish Seamount, post-Jurassic
 sedimentation, 620834
 Pacific Ocean NW, geochemical history,
 620799
 calcite, secondary
 basement, geochemistry, 590748
 isotopic study, hydrothermal alteration,
 590637
 sediment-interstitial water interaction
 ankerite, 571270, 571272
 carbon, organic, 571272
 carbonate mineral, 571270
 coal, 571270
 FeS, 571272
 hydrogen sulfide, 571272
 iron, 571270
 pyrite-bearing marine sedimentary rocks,
 571270
 reducing environment, 571270
 sulfate, 571273
 calcite, sparry
 alteration, products, 810738
 Atlantic Ocean NC, Mesozoic sequences,
 411004
 Atlantic Ocean S, Malvinas Outer Basin,
 391109
 basalt, petrology, 580846
 cement, 140297
 chert, diagenesis, 170383
 Daito Ridge, sandstone, 580609, 580610
 diagenesis
 Cenozoic, 271014
 Ita Mai Tai oolite, 200367
 Mesozoic, 271014
 geochemistry, Rockall Plateau, 810738
 limestone, stable isotope, 150799
 lithology, 130068, 170288, 220271, 250031,
 270283, 280022, 320083, 330043, 330167,
 360033, 360214, 390107, 410428, 440079,
 500042, 500045
 limestone, 170055
 marl, dolomitic, 130339, 130340
 marl, zeolitic, 140297
 ooze, diatomaceous, 140164
 ooze, dolomitic, 130339, 130340
 Quaternary-Neogene, 110057
 sandstone, quartzose, 140164
 silt, 120047
 volcanic sediment, 170055
 volcanogenic sediment, 170267
 Madagascar Plateau, volcanic sediment,
 250524
 Mediterranean Sea, lithified sediments,
 130727
 Mozambique Ridge, volcanic sediment, 250529
 Ninetyeast Ridge, dolomite, 220479
 Pacific Ocean W, guyot, 200664
 Philippine Sea, lithology, 061172, 061173
 physical properties, ooze, carbonate,
 061172, 061173
 sandstone, 580609
 calcite, 320540
 cements, 580609
 diagenesis, 580610
 Santos Plateau, origin, 390936
 silica, diagenesis, 170383
 Timor Trough
 calcarenite, dolomitic, 271013
 ooze, foraminiferal, 271011
 calcite, synthetic
 dissolution rate, 700369, 700370, 700371
 carbonate compensation depth, 700371
 Galapagos Hydrothermal Mounds, 700369
 solubility product, 700371
 calcite-dolomite
 carbonate, ratio, 42A1211
 gas, natural, zonation, 110795

- calcite/seawater ratio, Atlantic Ocean S, history, 740722
 calciturbidites, 500733, 500745, 500748
 Atlantic Ocean, Tithonian, 500747, 500748
 Blake Basin, 760731, 760733, 760737, 760742, 760776, 760777, 760779
 breccia, 500745
 calcite, magnesium, 500733
 carbonate, 500734, 500738, 500739, 500740, 500745
 carbonate platform, drowning, 500746, 500747
 clay mineralogy, stratigraphic evolution, 750864
 diagenesis, 500741
 burial cements, 500743
 cementation, 500742
 diagenetic environments, 500744
 metasomatism, 500742
 Hatteras Formation, 760430
 limestone, 500733
 limestone, micritic, 500733, 500744
 alteration, 500745
 aragonite, 500745
 carbonate platform, 500744
 deposition, 500745
 dolomite, 500744
 magnesium, 500745
 mud, 500744
 nannofossil content, 500744
 porosity, 500744
 rapid stabilization, 500745
 reprecipitation, 500745
 shallow-water detritus, 500744
 shallow-water source, 500744
 strontium, 500744
 lithology, 500138
 Mesozoic, 500733
 mud, shallow-water, 500733
 mud, carbonate, 500733
 ooid
 quartz nuclei, 500746
 shoal, 500733
 quartz, 500746
 sand, 500733
 sandstone, 500733
 shale, 500733
 shallow-water platform, 500733
 strontium, 500733, 500744
 turbidites, types, 500734, 500734
see also turbidites
 calcium, 670561, 670563, 670567, 850808, 850810, 860605, 860660, 941146
 accumulation rate, metal, 340577
 age differences, 850813
 alteration, products, 450616, 810734, 810739
 alteration, low-temperature
 basalt, 490710
 geochemistry, 460316
 altered rocks, 590735
 leaching, 590736
 amphiboles, chemical studies, 150963
 Antarctica, geochemistry, 350404, 350405
³⁹Ar/⁴⁰Ar age, basalt, phyrlic, 450539
 ash
 glass, basalt, 650482
 hyaloclastite, 650482
 Assemblage IA(+), 710394
 Atlantic continental margin
 interstitial water, 100795
 interstitial water chemistry, 010413, 040421, 050521, 100997, 111011, 140763
 Atlantic Ocean
 geochemistry, 47B0434
 mineralogy, 47B0434
 Atlantic Ocean N, interstitial water, 480297, 480298
 Atlantic Ocean S, history, 740728
 Atlantic Ocean SE, Cretaceous, 740778
 authigenic minerals
 diagenesis, 600463
 Miocene, 710366
 Balearic Rise, interstitial water, 130806
 barite, authigenic
 barite, 410915
 origin, 410923
 Barremian-Aptian, ⁸⁶Sr/⁸⁷Sr ratio, 620781
 basalt
 alteration, 920512
³⁹Ar/⁴⁰Ar age, 340439, 340440, 340449
 basement, 240774
 California, Gulf of, 650580, 650585, 650586
 celadonite, 511269
 chemical variation, 340305, 340307
 chemistry, 460118, 540675, 540682, 920473
 clinopyroxene, calcic, 820472
 Costa Rica Rift Zone, 830147, 830150, 830151, 830162, 830202
 geochemistry, 260567, 590759, 590784, 590788
 K/Ar age, 340439, 340440
 major element, 511001, 511007, 511008, 511017
 mineral chemistry, 550608
 mineral, secondary, 340422
 mineralogy, 370825, 540698
 olivine, 820472
 petrochemistry, 450479
 petrography, 540698
 petrology, 160627, 160636, 220459, 220463, 450466, 460118, 590678
 pyroxene, 590700
 sill-pillow complex, 610675
 smectite, 511268
 basalt, altered
 chemistry, 511322, 511326, 511329
 geochemistry, 540689, 580793, 580808
 petrochemistry, 580793
 petrology, 540689
 basalt, oceanic, Melanesian Basin, 610659
 basement
 calcite, 920501
 chemistry, 600622
 petrology, 370695
 Bermuda Rise
 basalt, 511206, 511207
 crystallization, 511046
 mineral, secondary, 511260
 plagioclase, 511055, 511056
 trace elements, 511143
 Biscay, Bay of, interstitial water, 121194
 Black Sea, interstitial water, 42B0638, 42B0639, 42B0641, 42B0648, 42B0649
 boninite
 geothermometry, 600695
 mineralogy, 600691
 borehole water, geochemistry, 920547
 bromine, chlorine, 42B0631
 bulk-rock compositions, 540742
 burrows, element distribution, 410933, 410934
 calcareous microfossil, composition
 differences, 850810
 calcite, recrystallization, 850810, 850815, 850817
 calcite, biogenic, strontium, 850813
 calcite, inorganic, 850809
 California, Gulf of, gulf mouth, 650404
 Cape Bojador, interstitial water, 47B0578
 carbon isotope, 230939, 410942
 carbon, organic, diagenesis, 670610
 carbonate, 320896
 authigenesis, 870676
 carbon, organic, 711060
 diagenesis, 320525, 850808, 850816
 fossil preservation, 320899, 320900
 interstitial water, 850808, 850809, 850810, 850813
 lithification, 320904
 carbonate, authigenic, chemical
 composition, 870672
 carbonate, diagenetic, isotopic survey, 630597
 carbonate nodule, 680482
 carbonate nodule, authigenic, 870663
 carbonate ratio, 850809
 Caribbean Sea, sediments, 150937, 150939
 Cenozoic sediments, lithology, mineralogy, geochemistry, 450323
 chalk, calcite, garnet, 260594
 chemical and mineral composition, 350468, 350469
 chemistry, 070967
 interstitial water chemistry, 350477
 sediment chemistry, 350467
 chemical paleoceanographic events, 850810
 chemistry, 370825, 550685, 650418
 zeolite, 370825
 chert
 geochemistry, 620725, 620728, 620730
 mineralogy, 320443
 petrology, 620725, 620728, 620730
 clay, 860605
 effect, 850815
 clay, authigenic, 600470
 Mariana Trough, 600471
 clay minerals
 celadonite, 511269
 smectite, 511268
 claystone, basalt, 550709
 clinopyroxene, crystallization, 540663
 Cocos Plate, sediments, 670609
 Colon Ridge, interstitial water, 680472
 continental margin, 801048
 continental slope basins, 960706
 convection, interstitial water, 920613
 Costa Rica Rift
 alkali, 690487, 690491, 690492
 basalt, 690477, 690479
 carbonate, 690463
 waters, 690485
 Costa Rica Rift Zone
 basalt, 830219, 830221, 830235, 830237, 830250, 830257, 830259, 830261, 830262, 830307
 stockwork-like zone, 830269
 Cretaceous/Tertiary boundary,
 paleoenvironmental history, 740687
 deep-sea trench, interstitial water
 chemistry, 670610
 deposition
 bottom water, 250503
 chalk, nannofossil, 250496
 ooze, nannofossil, 250496
 diagenesis, 920345, 960584
 biogenic sediment, 850805, 850818, 850819
 interstitial fluid, 270473
 slope sediments, 840588
 diagenesis, postburial, 850815
 dissolution, liable species, 850815
 distribution, 850808
 pore fluids, 850808
 dolerite, 540663, 630713, 630714
 dolomite, 020419
 geochemistry, 230871, 230876, 230877
 dolomite, diagenetic, mud, anoxic
 diatomaceous, 640563
 East Pacific Rise, sediments, 650382, 650426

- Emperor Seamounts, mineralogy, 550471, 550472, 550473
 factor analysis, sediment, 920368
 Falkland Plateau, basement, 360896, 360897, 360905, 360906, 360911
 flux, 850813
 formation water, origin, 690494
 Galapagos Hydrothermal Mounds, sediments, 850791
 Galapagos Spreading center, 540322
 interstitial water, 540388
 normative composition, 540380
 garnet, metasomatic, garnet, 260594
 gas hydrate, trench slope, 670608
 gas, natural, zonation, 110795, 110797
 geochemical component grouping, 801074
 geochemical history, sedimentation, 710405, 710436
 geochemical partitioning, 650428
 geochemistry, 160636, 370631, 370695, 810708
 andesite, 220463
 California, Gulf of, 640696
 Cenozoic sediments, 42B0584
 chemistry, 340218, 340220
 clinopyroxene, 650534
 comparison, other oceanic rocks, 220459
 comparison, other rock types, 220463
 Cretaceous and Cenozoic sediments, 480708
 Hatton Drift, 810734
 igneous rocks, 370743
 interelement correlations, 810713
 major oxides, 540347
 mineral chemistry, 160627
 mineral, secondary, 450616
 Pacific Ocean SE, 920560
 petrology chemistry, 370695
 principal component, 810709, 810710
 Rockall Plateau, 810739
 geochemistry, partition
 mud, manganese, 700297
 nontronite, 700298
 glass
 basalt, 650480
 chemical variation, 510982
 Goban Spur, geochemistry, 801033
 Guatemala, slope sediment, 840628
 Gulf of Mexico, interstitial water
 chemistry, 100615, 100623
 halite, chemistry, 42A0613
 Hellenic Trough, interstitial water,
 130806, 130807
 Hess Rise
 iridium, 620847
 pyrite-marcasite, 620857, 620859
 Hess Rise N
 post-Jurassic, 620806
 sedimentary sequences, 620762, 620763
 hyaloclastite, glass, 650480
 hydrocarbon, C₁-C₅, interstitial water,
 571335
 igneous rocks, 840948
 geochemistry, 370678
 Indian Ocean N, interstitial water
 chemistry, 220861
 Indian Ocean SE, sediments, 260542, 260547
 Indian Ocean W
 geochemistry, 250405, 250415
 interstitial water, 250363, 250364,
 250365, 250366, 250367, 250368, 250369,
 250370, 250371, 250373
 inorganic geochemistry, 801079
 Angola Basin, 750932
 interstitial water, 38S0127, 38S0128,
 38S0129, 38S0130, 400549, 42A0561,
 42A1207, 430670, 430672, 510748, 010404,
 010406, 030663, 040410, 050501, 060812,
 060828, 070871, 070872, 080857, 080864,
 100615, 110997, 111005, 121193, 121194,
 140753, 140754, 151069, 181001, 200813,
 220657, 220662, 240799, 310640, 350423,
 350425, 38S0121, 38S0125, 38S0126,
 610603, 610607, 630623, 650443, 650446,
 860679, 870865, 920423, 920425
 alteration, 780383
 Baja California, 630626
 Barbados Ridge, 780377, 780380, 780383
 basement, 100621
 California, Gulf of, 630627
 carbonate, 740706
 Daito Basin, 610608
 Daito Ridge, 610607
 deviations from sea water composition,
 200798
 diagenesis, 100623, 350421, 42A0565,
 42A0566
 diffusive behavior, 42A0565, 42A0566,
 42A0567
 dissolution, 870869
 fluxes, 920425
 gradient, 860675
 Guadalupe Island E, 630625
 increase, 920425
 inorganic constituents, 071752
 interstitial water chemistry, 240802,
 240803, 240804, 240805, 240807, 350408,
 350412, 350415, 350418, 350420
 Lesser Antilles, 780381, 780383
 major constituents, 020371, 200787
 major ions, 200805, 920423, 920424
 model for control, 860679
 Pacific Ocean SE, 920425
 Patton Escarpment, 630624
 reactions and changes, 310644
 Walvis Ridge, 740701, 740704, 740705
 interstitial water geochemistry, 720391
 Baja California, 640679
 Brazil Basin, 720391
 decrease, 670608
 depletion, 960708
 diagenesis, 640691
 Guaymas Basin, 640687
 hydrothermal alteration, 640692
 seawater, 960708
 source, 730539
 Walvis Ridge, 960716, 960718
 interstitial water, mineralogical studies,
 410907, 410912, 410913, 410914
 intraslope basin, 960716, 960718
 iodine, interstitial water, 42B0631
 Japan Trench
 interstitial water, 870867
 sediments, 271223, 271234
 Jingu Seamount, volcanics, 550685
 Labrador Sea, interstitial water, 121193
 limestone, stable isotope, 150795
 lueneburgite, Miocene sediments, 42A0661
 Magdalena Bay, dolerite, 630727
 magma, 901164
 major element, 850784, 850789
 argillaceous sediments, 580724
 chemistry, 330557, 920492
 distribution, 500675
 geochemistry, 42B0530
 interstitial water, 200835
 negative correlation, 850784, 850789
 manganese, 291083
 Mariana Islands, fore arc, 600620, 600659,
 600660
 Mariana Trench, 600620
 Mazagan Plateau, 790825, 790826, 790827
 Mediterranean Ridge, interstitial water,
 130806
 Meiji Guyot, K/Ar age, 550679
 melting, partial, experiments, 600732
 methylene chloride, 660581
 Mg-calcite, 850809
 microprobe analyses, 870661
 magnesium, 870661
 Mid-Atlantic Ridge
 basalt, 460316
 isotopes, 450548
 Mid-Pacific Mountains W, Aptian sediments,
 620904, 620909
 Middle America Trench, transect, 670608,
 670609, 670610
 mineral, chemical composition, 660713
 mineral chemistry, basalt, porphyritic,
 450466
 mineral, primary
 olivine, 810786
 pyroxene, 810786
 mineralogical facies comparison, zeolite,
 810708
 mineralogy, 38S0138, 650418, 850795,
 920345, 960584
 Cretaceous and Cenozoic sediments, 480708
 hornblende, 660723
 minerals, chemical composition, 600461,
 600462
 minor element, geochemistry, 42B0530
 Mississippi, margin, 960704
 Mississippi Fan, 960698, 960703, 960712,
 960713, 960716
 Mossbauer spectroscopy study, replacement,
 950644
 Nankai Trough, interstitial water, 870866
 nannofossil/foraminifer ratio differences,
 850810
 nitrate contamination, borehole, water
 chemistry, 920550
 ooids, nuclei, 890402
 ooze, calcareous, pore water, 270473
 Orphan Knoll, interstitial water, 121193
 oxygen isotope, geochemistry, 350507
 oxygen isotope, stable, oxygen isotope,
 410942
 Pacific Ocean, guyots, 620773
 Pacific Ocean E
 modified sediments, 540331
 sediments, 540319
 Pacific Ocean NE, metal-rich basal
 sediments, 630667, 630668
 Pacific Ocean NW, 860660
 clay, 860605
 interstitial water, 860675, 860679
 Pacific Ocean SE, 920555
 basalt, 340218, 340220
 contamination, 920551
 major-ion correlations, 920551, 920552
 paleoceanography, 920597
 ridge flank sediments, 920417
 Pacific Ocean SW, unconformities, 210717
 Panama Basin, sediments, 690391
 Patton Escarpment, alteration, 630713,
 630714
 pelagic sediment reactions, 670610
 Peter I Island, geology, 350351
 petrology, geochemical variation, 740758
 Pigmy Basin, 960731
 porcellanite
 mineralogy, 320443
 petrography, 320443
 pore water
 heat flow, 700346, 700353
 hydrothermal mounds, 700346, 700347,
 700353
 Kings Trough, 941146, 941148
 pore water chemistry, 960692

- pore water chemistry (Cont.)
 depositional environment, 960694
 pore waters, oxygen isotope, 230939
 potash, chemistry, 42A0613
 preburial halmyrolytic influences, 850815
 pyrite, microcrystalline, ooze,
 nannofossil, 260603, 260605
 pyroxene, chemical studies, 150963
 reaction, 670610
 recrystallization, physicochemical
 conditions, 850810
 Red Sea
 dolomite, 230871
 evaporites, 230841
 geochemistry, 230977, 230981, 230997
 interstitial water, 230956, 230957
 Rockall Plateau, sediments, 810829, 810832
 Rockall Rise
 B100273, 121194
 interstitial water, 121194
 sea floor spreading, different rates, 850813
 seawater temperature/age variations, 850810
 sediment chemistry, 350427, 350432, 350438
 basalt, 350437
 upper part, 350429, 350433
 sediment comparison, 920353
 sediment-interstitial water interaction,
 571269
 sedimentation rate, 850815
 sediments, 860660
 Blake Basin, 760455, 760456
 Blake Ridge, 760455
 silica, biogenic, effect, 850815
 silicate, ferruginous coating, 291065
 Siqueiros Fracture Zone, basalt, 540706
⁸⁶Sr/⁸⁷Sr ratio
 metal, alkali, 511143
 strontium, 920501
 Sr/calcium ratio, 850808, 850809, 850810
 strontium, 850808
 Emperor Seamounts, 550470
 equilibrium, 850809
 equilibrium formation, 801057
 Labrador Sea, 121194
 pore fluids, 850808
 sulfur isotope, major element, 500675
 tephra, chemistry, 901164
 trace elements
 clinopyroxene, 450548
 distribution, 42A0504
 geochemistry, 370575
 lithium, 850786
 magnetite, 450548
 negative correlation, 850786
 partitioning, 850796
 strontium, 850786
 titanium, 850786
 Tyrrhenian Rise, interstitial water, 130806
 Valencia Trough, interstitial water, 130806
 Venezuelan Basin, sedimentary hiatus, 151058
 Vigo Seamount, interstitial water, 47B0578
 Walvis Ridge
 basalt, 740758
 transect, 740648
 water chemistry, 670610
 water temperature, geochemistry, 460316
 West Mariana Basin, metallogenesis, 590649
 zeolite
 Costa Rica Rift Zone, 830237, 830250,
 830256
 formation, 830257
 calcium carbonate, 040670, 500825, 500831,
 620869, 630965, 850739, 850742, 901444,
 950305
 age vs. depth, accumulation rate, 850718
 Alaska, Gulf of, turbidite, silt, 180848,
 180851
 amino acid, 680479
 Angola Basin
 organic geochemistry, 750987
 petrochemistry, 751101
 Antarctica, geochemistry, 350405
 Atlantic continental margin
 interstitial water chemistry, 101006,
 140763
 mineralogy, 090752, 110769, 110773, 110783
 Atlantic Ocean C, 101059
 Atlantic Ocean N
 carbon, 010340
 carbonate, 010340
 Mediterranean Sea, 110810, 110816
 Atlantic Ocean NE, stable isotope, 480482
 Atlantic Ocean NW, lithology, 110922
 Atlantic Ocean S
 carbon, 020319, 030495, 040307, 040314,
 050431, 050432, 060750, 060751
 carbonate, 020319, 030495, 040307,
 040314, 050431, 050432, 060750, 060751
 hiatuses, 391105
 history, 740715, 740719
 autochthonous sediment, Neogene, 47A0647,
 47A0665
 Bahama Islands, geology, 110879, 110882,
 110883
 basalt, mineralogy, 300409
 beef-in-shale, 360867
 Bermuda Rise, geochemistry, 511515
 biogenic sediment, diagenesis, 330447
 Biscay, Bay of
 evolution, 480796
 interstitial water, 121194
 Black Sea
 interstitial water, 42B0649
 sediment, 42B0493
 Brazil Basin, minor sediment components,
 721003
¹³C, carbonate, 42B0618
 California, Gulf of
 gulf mouth, 650431
 ooze, diatomaceous, 641263
 carbon, 070847, 070862, 090797, 100641,
 111059, 151129, 181069, 241155, 250841,
 320561, 370639
 carbonate, 250841, 370639
 geochemistry, 241169, 380798, 42B0718,
 610621
 mineral, 730537
 carbon isotope, stable, chert, 410944
 carbon, organic
 Hess Rise, 620869, 620870
 Mellish Seamount, 620870, 620872
 Mid-Pacific Mountains W, 620869
 carbonate, 070847, 070862, 090797, 100641,
 111059, 151129, 181069, 241155, 250841,
 320561, 370639, 711001, 850722
 accumulation rate, 850719, 850720
 carbon, 370639
 deposition, 850711
 dissolution, 500825, 500832
 isotope stratigraphy, 850733
¹⁸O, 42B0618
 Pacific Ocean W, 070978
 stable isotope, 42A0655
 stratigraphy, 920305
 variation, 850711
 carbonate event, isotopic record, 850742
 carbonate mineral, stable isotopes, 550653,
 550654
 carbonate nodule, authigenic, 870665
 ephemeral phase, 870662
 precipitation, 870663, 870664
 Caribbean Sea, sediments, 150945
 Caribbean Sea W, sediments, 680475, 680479
 cement, 180848, 180851
 Cenozoic, 500825
 Cenozoic paleoceanography, 901494
 chalk, calcite, 260593
 paragenesis, 260595
 Chatham Rise, Quaternary, 901425, 901431,
 901433
 chemistry, 340377
 clay, cations, absorbed, 47B0687
 clay, terrigenous, 291060
 claystone, sapropelic, 360884
 Cocos Plate, sediments, 670609
 cone-in-cone texture, 360867
 continental slope basins, 960706
 Costa Rica Rift, chalk, 690407
 Cretaceous/Tertiary boundary, 860534, 860538
 deposition, 860534, 860538
 crust, fracture zone, 920307, 920308
 cycle description, carbonate, 750907
 deposition, 860534, 860538
 chalk, nannofossil, 250492, 250494, 250495
 current, 280730
 ooze, nannofossil, 250492, 250494, 250495
 Portugal, 47B0373
 diagenesis
 carbonate, 210503, 210504
 Miocene to present, 690349, 690361,
 690363, 690373
 dissolution
 carbonate, 500825, 500832
 Mesozoic/Cenozoic boundary, 210717, 210718
 East Pacific Rise, 920585
 eolian sedimentation, 680410
 equatorial high-productivity belt,
 transect, 850977
 Falkland Plateau
 basement, 360909
 carbon, mineral, 711001
 Falkland Plateau E, sedimentation, 360884,
 360886
 ferromanganese sediment, sediment
 chemistry, 190634
 foraminifers, 500825
 garnet, metasomatic, 260593
 paragenesis, 260595
 geochemistry, 060840, 370631
 Cenozoic sediments, 42B0591
 geologic, oceanographic setting, corrosion,
 850972
 glaciation, Pliocene, 850723
 Hess Rise, 620869
 post-Jurassic sedimentation, 620820
 hydrothermal alteration, sediments, 650420
 hydrothermal vein, mineralogy, 340377
 hysteresis, bulk magnetic and lithology,
 induced magnetization, 730674
 Indian Ocean C, 240679, 240690
 Indian Ocean NE, sediment history, 220718
 Indian Ocean NW, grain size, 250422
 Indian Ocean SW, iron-rich sediment,
 250396, 250401
 Indian Ocean W, 240653, 240658, 240672,
 240678
 basal metalliferous sediments, 241070
 biogenic components, 240664, 240696
 deposition, 241066
 geochemistry, 250414
 interstitial water, 250362, 250365,
 250366, 250367, 250369, 250370, 250371
 lithology, 250739
 regional aspects, 250756
 shallow-water biogenic components, 240704
 interstitial water, 100615, 111006
 Daito Ridge, 610608
 interstitial water chemistry, 350415,

- interstitial water (Cont.)
 350418
 physical properties, 350411
 precipitation, 3850128, 650446, 870869
 San Miguel Gap, 630623
 Walvis Ridge, 750961
 interstitial water chemistry
 dissolution, 960708
 Rio Grande Rise, 720391
 interstitial water, geochemistry, Guaymas Basin, 640689
 interstitial water, mineralogical studies, dissolution, 410913
 Labrador Sea, interstitial water, 121193
 layering, sediments, 940614
 lipid, 660581
 lithologies, major
 chalk, 901480
 ooze, calcareous, 901480
 lithology, 060070, 130149, 130266, 180172, 180236, 210108, 210374, 210375, 220041, 220270, 230039, 230040, 230041, 240329, 280218, 320080, 330169, 330309, 340085, 340087, 380027, 380036, 380120, 380168, 380172, 390107, 390241, 400073, 400192, 400194, 400195, 400196, 400198, 400202, 410028, 410170, 410237, 42A0180, 430038, 440032, 440033, 440342, 450140, 450269, 480175, 480176, 480178, 480220, 480221, 480222, 490025, 490026, 490163, 490233, 490235, 490341, 500126, 500127, 510042, 510045, 510047, 870614
 age, 400208
 ash, 130194
 Cenozoic deposits, 47B0048
 Cenozoic units, 480044, 480047, 480048
 chalk, clay nannofossil, 300141
 clay, 300138
 dissolution, 290135, 400210, 400363
 Eocene, 430112
 limestone, 190171
 Mesozoic deposits, 47B0052
 Mesozoic units, 480049
 mud, terrigenous black, 130369
 ooze, foraminiferal, 130424
 ooze, foraminiferal nannofossil, 130195
 ooze, nannofossil, 130264
 ooze, nannofossil foraminiferal, 300233
 physical properties, 130104, 450269, 480091, 480185, 480186
 remobilization, 070056
 San Blas Oceanic Formation, 090540
 sandstone, terrigenous, 130369
 sapropel, 130194
 silt, 300138
 solution, 240205
 Lord Howe Rise, isotope stratigraphy, 901384
 magnetization, induced, 730674
 magnetostratigraphy, Lord Howe Rise N, 901277
 Manihiki Plateau, 330881
 Mazagan Plateau, 790392, 790395, 790498
 deposition, 790392
 dissolution, 790393
 flux, 790392
 Mediterranean Ridge, mineralogy, 130668
 Mediterranean Sea
 Levantine Basin, 130669
 lithostratigraphy, 131027
 Messinian, 130682, 130683
 mineralogy, 130605
 Mesozoic, 500825
 Mesozoic/Cenozoic boundary, dissolution, 210717, 210718
 methylene chloride, 660581
 Middle America Trench, transect, 670609
 mineral carbon, 711001
 mineralogy, 130717, 850781, 870659
 turbidites, 130714, 130716
 Miocene, Pacific Ocean C, 850735
 Miocene time series, statistical analysis, 850746
 Mississippi Fan
 dissolution, 960703
 precipitation, 960698, 960703
 sediment, 960458
 Moroccan Basin, 500825
 Nankai Trough
 carbonate nodule, authigenic, 870659
 interstitial water, 870867
 Neogene sediments, 901444
 Nile Fan, mineralogy, 130668
 North America, continental rise, 930465
¹⁸O, correlation, 850742
 offshore environments, 280934
 Oligocene-Miocene, 901444
 ooze, calcareous, 220739
 Tertiary to Cretaceous, 220742
 ooze, diatomaceous
 Quaternary, 641263, 641264, 641266, 641267, 641268, 641269, 641270
 stratigraphy, 641263
 organic geochemistry, 640723
 organic matter, 670595
 oxygen isotope, stable, chert, 410944
 Pacific Ocean C, 620869
 Miocene, 850735
 Pacific Ocean EC
 geologic history, 090924, 090928
 stratigraphy, 090939
 Pacific Ocean N, 620869, 860540
 Pacific Ocean NC, 620869
 Pacific Ocean NE, metal-rich basal sediments, 630669, 630671
 Pacific Ocean NW, 860763
 Pacific Ocean S, 950305
 sediment, 920305
 Pacific Ocean SE, mineralogy, 920393
 Pacific Ocean SW
 paleoceanography, 901513
 unconformities, 210717
 pelagic components, distribution, biogenous components, 250486, 250488
 petrology, 740659
 geochemical cycles, 740660
 physical properties, 080048, 080064, 080140, 080290, 080462, 080539, 080624, 080678
 reflectors, 47B0589, 47B0590
 porosity, 860763
 pyrite, microcrystalline, ooze, nannofossil, 260606
 Quaternary isotopic record, ¹⁸O, 680463
 reflection horizon, calcium carbonate compensation depth, 040672
 regional problems, sedimentation history, 170920
 sand, 500825, 500831
 sapropel, petrography, 130714, 130716, 130717
 sediment-interstitial water interaction, alkalinity, 571270
 sedimentary cycles, 740659
 geochemical cycles, 740660
 sedimentary processes, 840559
 sedimentation, 42B0608, 920312, 920315
 accumulation rate, 920314
Amaurolithus tricorniculatus zone, 920312
 carbonate, 920313, 920314
 carbonate event, 920313
 dissolution, 920313
 East Pacific Rise C, 920313, 920314
 Hess Rise, 920312, 920314
 Marquesas Oceanic Formation, 090939
 noncarbonate fractions, 42B0609, 920314
 Pacific Ocean, 920312
 Pacific Ocean S, 920305
 San Blas Oceanic Formation, 090939
 sedimentation rate, 920314
 silica, 920314
 sediments, 940614, 941131, 941136, 941137
 seismic modeling, Pacific Ocean C, 850952
 shale, black, Biscay, Bay of, 480882
 shear strength, porosity, 870839
 silt, terrigenous, 291060
 southwest regional unconformities, dissolution, 210717
 stable isotope
 Antarctica, 850735
 climate change, 850746
 deposition, 850735
 Equatorial Divergence, 850735
 ice, 850746
 ice sheet, continental, 850746
 Miocene oceans variability, 850746
 oxygen isotope, 850735, 850746
 Pacific Ocean C, 850735, 850746
 Pleistocene climatic record, 850746
 Pliocene climatic similarity, 850746
 sedimentation rate, 850735
 variability, 850735
 strontium, 42B0608
 noncarbonate fractions, 42B0609
 synthesis element
 accumulation rate, 850980
 removal, 850980
 thermal conductivity, 860763
 thorium isotope, 230951
 turbidites
 diagenesis, 250449
 Guatemala, 840925
 Tyrrhenian Rise
 carbonate, 130796
 mineralogy, 130682
 uranium isotope, 230951
 Walvis Ridge
 Angola Basin, 750971
 geotechnical properties, 751115
 see also CaCO₃
 calcium carbonate, biogenic, 920598
 Hess Rise, post-Jurassic sedimentation, 620820
 Hess Rise N, post-Jurassic, 620806
 Japan Trench
 minor element, 870647
 trace elements, 870647
 lithology, 170154
 Nankai Trough, major element, 870644
 regional summary, 020415
 calcium carbonate compensation depth, 130033, 210717, 210718, 400385, 400386, 400389
 Arabian Sea, geology, 231119
 Arabian Sea N, sediment history, 230505
 Atlantic Ocean, history, 040659
 Atlantic Ocean C, basin, 511509, 511510
 Atlantic Ocean S, mineralogy, 030510
 Atlantic Ocean W, 040672
 Beata Ridge, 040668
 Puerto Rico Trench N, 040665
 Galapagos, 700369
 Indian Ocean S, geologic history, 260932
 Indian Ocean W, calcareous fossil preservation, 240710
 Line Islands, tectonics, 330741
 lithology, 110016, 110058, 130033, 170063, 170108, 170253, 170268, 170269, 180021, 180295, 210067, 210121, 210274, 220042, 230392, 240481, 250095, 270135, 290027,

- lithology (Cont.)
 290329, 290376, 310078, 340116, 360043, 360044, 400385, 400386
 Pacific Ocean NE, cruise synthesis, 151093
 Pacific Ocean SW, unconformities, 210717, 210718
 reflection horizon
 continental areas, 040672
 Cretaceous-Paleocene fluctuation, 040672
 Mid-Atlantic Ridge, 040672
 southwest regional unconformities, 210705, 210716
 Walvis Ridge, transect, 740645
see also CCD
 calcium carbonate, hydrated, Nankai Trough, carbonate nodule, authigenic, 870659
 calcium, dissolved
 abyssal plain sediments, source, 801048
 carbon, organic, diagenesis, 670610
 interstitial water, 590628, 650446, 870869
 Angola Basin, 750959
 Baja California, 630626
 California, Gulf of, 630626
 diagenesis, 650446
 Patton Escarpment, 630623, 630624
 San Miguel Gap, 630623
 sediment relationship, 870872
 Shikoku Basin, 610607
 Walvis Ridge, 740704, 750961
 interstitial water chemistry, 850807
 Brazil Basin, 720391
 Rio Grande Rise, 720391
 Walvis Ridge, 730540
 interstitial water, geochemistry
 Baja California, 640676, 640680
 diagenesis, 640691
 Guaymas Basin, 640682, 640688
 interstitial water, mineralogical studies, 410913
 Middle America Trench, transect, 670610
 oxygen isotope, Pacific Ocean SE, 920559
 Rockall Plateau, sediments, 810830, 810832
 sediment-interstitial water interaction, alkalinity, 571270
 Southeast Pacific Basin, evolution, geologic, 350736
 upper slope, 801047
 calcium dolomite
 Honshu NE, diagenesis, 561125
 lithology, 270198
 lueneburgite, Miocene sediments, 42A0662
 calcium oxalate, Pacific Ocean NE, metal-rich basal sediments, 630669
 calcium sulfate
 carbon, stable isotopes, 42A0485
 East Mariana Basin, sedimentary history, 890668
 evaporites
 Mediterranean Sea, 130700
 Messinian, 42A0589
 isotopes, stable oxygen, dolomite, 42A0485
 Mazagan Escarpment, 790521, 790525
 salt, 790521
 sediments, Mazagan Escarpment, 790521
 Tyrrhenian Rise, interstitial water, 130808
 calcium/Al ratio
 basalt, geochemistry, 590762
 interstitial water, mass balance considerations, 350422
 interstitial water, geochemistry, Guaymas Basin, 640689
 Japan Trench, interstitial water, 870868
 Nankai Trough, interstitial water, 870866
 Pacific Ocean SE, 920557
 sediment chemistry, upper part, 350429
 calcium/bromine ratio, Cretaceous/Tertiary boundary, mineralogy, 620851
 calcium/cesium ratio, Costa Rica Rift, basalt, 690479
 calcium/chlorine ratio
 Colon Ridge, interstitial water, 680467
 sediment chemistry, 350427
 calcium/(Mg + Fe) ratio
 Bermuda Rise, crystallization, 511041
 clinopyroxene, crystallization, 540665
 dolerite, 540665
 phenocryst, clinopyroxene, 540656
 calcium/Mg ratio
 Bermuda Rise, geochemistry, 511515
 clinopyroxene, crystallization, 540663
 dolerite, 540663
 gas, natural, zonation, 110795
 interstitial water, calcium-magnesium gradients, origin, 740705
 calcium/Na ratio, Atlantic Ocean N, mantle, 490841
 calcium/Sr ratio
 carbonate, lithification, 320905
 interstitial water, 080867
 calcrete
 continental shelf, onshore geology, 400973
 Falkland Plateau, basement, 360893, 360905, 360906, 360907, 360908, 360909, 360910, 360911
 Falkland Plateau E, sedimentation, 360880
 K/Ar age, 360923
 gneiss, 360925
 lithology, basement, 360216
 Rb-Sr age, 360923
 gneiss, 360925
 Calcutta, 220407
 Caldeira
 Alboran Sea, 131420
 shelf, 131417, 131420
 caldera
 basalt, Rb-Sr, 550696
 Emperor Seamounts, petrology, 550516, 550522
 ore, deposit, 540802
 Pigmy Basin, tephrochronology, 960685
 Suiko Seamount, trace elements, 550559
 volcanic rocks, ages, 550670
 Caledonian Orogeny
 Barremian-Aptian, $^{86}\text{Sr}/^{87}\text{Sr}$ ratio, 620782
 Goban Spur, continental margin, 801156
 Pyrenean orogeny, 801153
 regional tectonics, 801153
 deformation, 801155
 Calera Limestone, chert, geochemistry, 620731
 caliche
 Falkland Plateau, basement, 360909
 Messinian environments, salinity crisis, 42A1005
 California, 180541, 180687, 180698, 180982, 190005, 190019, 190027, 190174, 190731, 190746, 190755, 190806, 190822, 190899, 200055, 210787, 220582, 240969, 240970, 260505, 260773, 260775, 270703, 280341, 290026, 290563, 290779, 290780, 291012, 300434, 300700, 330441, 360583, 360849, 620420, 621044, 630005, 630036, 630507, 630510, 630527, 630560, 630562, 630565, 630586, 630587, 630595, 630611, 630655, 630711, 630759, 630775, 630857, 630917, 630934, 630949, 630960, 640032, 660834, 670429, 670598, 670754, 670792, 720757, 720762, 750838, 810415, 810554, 850428, 850430, 860338, 890338, 920524, 950262, 950360, 950379, 950395, 950402, 950468
 Albion series, 47B0293
 basins, 050635, 400490, 931261, 960783
 benthic assemblages, 480420
 borderlands, 640796
 San Miguel Gap, 640810
 coast, 050536, 050539, 180036, 180802, 250648, 291013, 38S0267, 410916, 630559, 630949, 630957, 630959, 630960, 630963, 670750, 670752, 740734
 Coast Ranges, 180526, 180534, 180951, 180964
 continental margin, 630757, 630943, 640553, 660541
 organic geochemistry, 630943
 organic matter, 630757, 630758, 630759, 630760
 continental slope, 180843
 Cretaceous foraminifers, North America, 440671
 Deep Springs Lake, 230875
 dolerite, alteration, 630711
 gas, basin, 960783
 Humboldt County, Mattole Canyon, 180687
 hydrocarbon, aliphatic, hydrocarbon, terrigenous, 720835
 hydrocarbon, extractable, organic petrology, 640850, 640851
 hydrocarbon generation potential
 continental margin, 660541
 organic facies, 640867, 640868
 organic matter, 660541, 670598
 organic sedimentation, 660541
 lipid
 hydrocarbon, cyclic, 630764
 indication, 630768, 630769
 Long Beach, 260994
 mainland, 630804
 Malaga Cove, 180618
 Mohnian, 190471
 Monterey shale, 630584
 Moreno Formation, 290876
 shale, 220604
 Mount Diablo, 360583
 Neogene, 180951
 Newport Bay, 180535, 180618, 180957
 Newport Beach, 190376
 northern, 050536, 050582, 180005, 180217, 180526, 180534, 190785
 offshore, 630539, 630631, 630927, 670588, 720835
 organic facies origin, borderland, 660544
 organic matter
 margin, 630757, 670598
 migration, 630943
 Pacific Ocean NE, regional aspects, 050635, 050636
 Pacific Ocean SE, near-surface stress, 920524
 paleoenvironment, 630960
 coast, 630959
 peninsula, 630957
 petroleum generating potential, thermal maturity, 640875
 Point Fermin, 230876
 Point Sal, 260773
 San Diego, abyssal hills, 050607
 San Francisco, 180032
 Santa Cruz Island, 630587
 Temblor Horizon, 180700
 tetrapyrrole, geochemistry, 630813
 Walvis Ridge, alkane, 751091
 California Bight
 lipid, indication, 630769
 organic geochemistry
 molecular markers, 630841, 630845
 near-surface sediments, 630837
 radiocarbon dating, Guaymas Basin, 640758
 California Borderland
 California, continental margin, 630757, 630759, 630760
 carbon, organic

- carbon (Cont.)
 fatty acid, 740734
 hydrocarbon, aliphatic, 740732
 carbonate, diagenetic, isotopic survey, 630596
 hydrocarbon, C_1 - C_8 , 630775
 hydrocarbon generation potential, organic facies, 640868
 interstitial water, San Miguel Gap, 630623
 lipid, 630763
 diagenesis, 640916
 organic geochemistry, 630837
 tetrapyrrole, geochemistry, 630805, 640796
 Walvis Ridge, alkanolic acid, 751092
 California C, 38S0304, 38S0498, 390657, 400764, 42A0653, 430857, 440670, 600545, 600585, 600881, 061281, 061287, 061290, 100388, 120693, 120771, 120959, 121019, 121075, 131018, 131397, 140819, 160818, 180034, 180521, 180534
 California Coast Range, 020421, 340746, 641090
 diagenesis, assemblages, paragenetic, 020421
 California Continental Borderland, 050635, 630024, 630031, 630034, 630042, 630114, 630129, 630269, 630415, 630444, 630445, 630446, 630448, 630459, 630461, 630473, 630562, 630565, 630579, 630587, 630596, 630619, 630623, 630636, 630757, 630759, 630760, 630763, 630804, 630819, 630831, 630857, 630917, 630928, 630929, 640523, 660544, 660545, 660546, 670368, 680275, 740732, 740734, 751079
 accumulation rate, California Borderland S, 630949
 anoxia, global, evidence against, 801002
 basin, 641280
 biostratigraphy, 630927, 630928
 geophysical data, 630857
 igneous rocks
 magnetic properties, 630739
 Mr/Ms ratio, 630739
 NRM, 630739
 ophiolite, 630739
 source, 630739
 lipid, 660564
 Quaternary marine sediments, 660564
 major element, geochemistry, 630693
 Miocene sediment, 790796
 organic geochemistry, 630837
 organic sediments, origin, 660545
 Pacific Ocean NE, regional aspects, 050635
 Patton Escarpment, 630929, 630943
 Miocene, 630929
 tectonic history, 630929
 San Miguel Gap, 630928
 San Miguel Island, 630943
 saturation remanent magnetization
 basalt, 630746
 diabase, 630746
 tholeiite, basalt, 630695
 trace elements, geochemistry, 630693
 weak-field susceptibility, magnetic susceptibility, 630747
 see also Southern California Borderland
 California Current, 630005, 630023, 630024, 630031, 630035, 630174, 630228, 630273, 630360, 630446, 630448, 630450, 630453, 630455, 630473, 630489, 630527, 630539, 630565, 630567, 630572, 630857, 630944, 630949, 630959, 630960, 640053, 640070, 640082, 640090, 640985, 640989, 641008, 641011, 641028, 641242, 641271, 650033, 650147, 650256, 650491, 650495, 650496, 901089
 biostratigraphy, Neogene, 180955, 180957
 California, offshore, 630960
 hydrocarbon, extractable, organic petrology, 630819
 Neogene oceanography, 180955, 180957
 North America, continental margin, 630949
 Pacific Ocean NE, biostratigraphy, 180949
 paleoceanography, 180955
 paleoenvironment
 climate fluctuations, 630960
 climatic events, 630959
 paleotemperature, *Thalassionema nitzschoides*, 850939
 Patton Escarpment
 development, 630944
 paleoenvironmental changes, 630943
 San Miguel Island
 paleoenvironmental changes, 630943
 Patton Escarpment, 630944
 California, Gulf of, 030025, 090921, 120176, 120932, 180969, 190899, 190906, 270285, 270585, 390941, 42A0840, 430412, 430640, 47B0457, 540819, 600763, 600866, 600915, 630024, 630270, 630377, 630421, 630488, 630546, 630611, 630632, 630639, 630757, 630920, 630955, 630960, 640005, 640028, 640029, 640030, 640031, 640032, 640035, 640038, 640070, 640083, 640211, 640220, 640229, 640248, 640251, 640260, 640417, 640420, 640444, 640511, 640524, 640529, 640541, 640543, 640550, 640566, 640572, 640574, 640579, 640581, 640586, 640588, 640589, 640595, 640596, 640597, 640633, 640637, 640662, 640665, 640670, 640675, 640676, 640690, 640717, 640723, 640751, 640757, 640759, 640761, 640762, 640763, 640790, 640791, 640794, 640806, 640810, 640819, 640845, 640850, 640871, 640875, 640877, 640887, 640895, 640925, 640939, 640973, 640983, 640985, 640988, 641003, 641004, 641007, 641027, 641028, 641032, 641033, 641067, 641089, 641091, 641102, 641104, 641105, 641106, 641108, 641109, 641111, 641112, 641113, 641114, 641115, 641119, 641123, 641140, 641165, 641166, 641169, 641183, 641191, 641211, 641214, 641217, 641218, 641221, 641223, 641225, 641230, 641239, 641241, 641242, 641245, 641248, 641255, 641259, 641263, 641286, 641291, 641293, 641297, 641300, 641301, 641303, 650005, 650006, 650023, 650033, 650050, 650066, 650138, 650146, 650148, 650165, 650231, 650249, 650256, 650309, 650313, 650315, 650319, 650372, 650391, 650395, 650418, 650420, 650431, 650437, 650441, 650446, 650451, 650455, 650463, 650464, 650466, 650468, 650479, 650490, 650491, 650492, 650494, 650496, 650528, 650561, 650575, 650675, 650685, 650690, 650693, 650699, 650702, 650705, 650727, 650747, 660544, 660545, 660728, 670273, 670368, 670610, 670747, 670748, 670749, 670752, 690449, 690760, 720980, 750003, 750035, 750758, 760478, 760879, 760904, 770367, 780717, 780819, 800963, 800964, 800966, 801003, 801011, 810005, 810795, 820351, 840533, 890500, 890504, 931235
 accretion, crust, 650739, 650742, 650743, 650749
 accumulation rate, 650471
 alteration, 650329
 basalt, 650643
 bulk chemical changes, 650654
 glass, basalt, 650477
 anhydrite, hydrothermal, sulfur isotope, 641137
 ash, hyaloclastite, 650477
 Atlantic Ocean N, oxygen, 801011
 Atlantic Ocean S, Cretaceous, 720980
 Atterberg limits, 650685
 axial valley, 650309
 Baja California, 650471
 continental slope E, 650459
 passive margin, 641065
 Baja California SW, tectonics, 630957
 basalt, 650329, 650343, 650527, 650549, 650559, 650579, 650580, 650581, 650591, 650592, 650632, 650635, 650643, 650661, 650663, 650667
 accretion, 650559
 actinolite, 650643
 alteration, 650580, 650643, 650661
 alteration, epimagmatic, 650667
 alteration minerals, 650661
 alteration, secondary, 650667
 alumina, 650580
 aphyric pillow lavas, 650579
 basalt-seawater interaction, 650643, 650661, 650664
 basement, crystalline, 650667
 butane, 650667
 calcite, 650580
 calcium, 650580, 650585, 650586
 carbonate, 650580, 650643, 650664
 celadonite, 650580
 cesium, 650643
 chemical composition, 650580
 chemistry, 650549
 chlorite, 650643
 chondrite, 650584
 clinopyroxene, 650580, 650584, 650643
 CO₂, distribution, 650667
 CO₂ content, 650667
 cooling, 650635
 crust, 650527, 650559, 650560, 650661, 650664, 650667
 crystal fractionation, 650667
 crystallization, 640649, 640656, 640657, 640658, 640660, 640662, 650580, 650581, 650635, 650664
 crystallization, closed-system, 650664
 crystallization, fractional, 640649, 650632
 differentiation, magmatic, 650581, 650591
 distribution, 540837
 East Pacific Rise, 650559, 650579, 650591, 650643
 element, alkaline, 650579
 eruption, 650579, 650592, 650635
 europium, 650581
 flows, lateral continuity, 650591
 formation, 650635
 fractionation types, 650579, 650581
 gas, 650667
 geochemistry, 650559, 650579, 650591
 glass, 640643, 640644, 640645, 650635
 glass, interstitial, 650643, 650661
 glass, volcanic, 650580
 granite, 650667
 groundmass textures, 650580
 Guaymas Basin, 650591, 650643
 helium, 650667
 hydrocarbon, 650667
 hydrogen, 650667
 hydrogen isotope, 650661, 650663
 hydrothermal activity, 650643
 hydrothermal alteration, 650667
 hygromagmaphile element, 650623
 hygromagmatophile (HYG) elements, 650592, 650632
 Iceland, 650667
 intrusion, 640883, 650664

- basalt (Cont.)
 iron, 650579, 650643
 island arcs, proximity, 650667
 Kuril-Kamchatka Island Arc, 650667
 labradorite, 650581
 lateral heterogeneity, 650579
 lherzolite, 650581
 lherzolite, plagioclase, 650584
 lithology, 650527, 650528, 650529, 650530
 lithophile elements, 650581
 lutetium, 650581
 mafic components enrichment, 650580
 magma, 640649, 650579, 650580, 650592, 650632, 650635, 650667
 magma chamber, 650527
 magmatic characteristics, 650579
 magnesium, 650579
 magnetic temperatures, 650664
 major element, 650632, 650667
 mantle, 650580, 650581, 650585, 650591, 650592, 650632
 mantle, upper, 650549, 650579, 650580, 650584, 650591, 650592
 massive lavas, proportion, 650661
 melt, parental, 650581
 melting, partial, 650579, 650580, 650581, 650591
 methane, 650667
 MgO, 650580
 MgO/CaO ratio, 650580
 Mid-Atlantic Ridge, 650559, 650579, 650667
 midocean ridge, 650667
 mineral chemistry, 650635
 mineral, opaque, 650580
 mineral separates, results, 650663, 650664
 mineralogy, 650527
 minor element, 650667
 niobium, 650643
¹⁸O, 650661, 650663, 650664
 ocean ridge, 650592
 off-axis magmatic activity, 650591
 oil, 650667
 olivine, 650580, 650635, 650643, 650661
 olivine plagioclase phyric lavas, 650579
 oxygen, 650664
 oxygen isotope, 650661
 Pacific Ocean, 650580
 Pacific Ocean SW, 650667
 paleomagnetism, 650717
 petrology, 650527, 650530, 650534
 phase chemistry, 640649, 640651, 640652, 640654
 phenocryst, 650530, 650532, 650533
 phillipsite, 650643
 physical properties, 650693
 pillow, 650635
 plagioclase, 650580, 650584, 650635, 650643
 plagioclase-magnetite, 650664
 porosity, 650580
 potassium, 650581
 propane, 650667
 pyrite, 650643
 pyroxene, 650635
 quartz, 650664
 quench phase, formation, 650635
 rare earth elements, 650579, 650581
 rare earth elements, light, 650632
 Rb, 650643
 REE, 650581, 650584
 rock magnetism, 650717, 650727
 samarium, 650581
 sedimentation rate, 650527, 650559
 siderophile elements, 650581
 silica, 650580
 silicate-water fractionation, 650661
 sill, 650591, 650664
 smectite, 650580, 650643, 650661, 650663
 sodium, 650581
 spatial chemical variations, 650592
 spinel, 650635
 spreading rate, 650559
 Sr/Zr ratio, 650592
 strontium, 650643
 structural types, 650579
 temperature effect, 650661
 Th/Hf ratio, 650592
 tholeiite, 650579, 650580, 650584
 titanium, 650579
 trace elements, 650591, 650632
 uranium, 650643, 650667
 volcanics, 650579
 ytterbium, 650581
 yttrium, 650643
 zirconium, 650643
 basement, 650329
 basins, 640556
 bathymetry, 630919, 640505, 650310
 biogenic components, 650471, 650475
 biostratigraphy, 650475
 bottom current, 650471, 650475
 bulk density, 650451
 burrows, pyritized, 650466
 Cape Basin, shale, black, 711029
 carbohydrate, 650439
 residues, 640881, 650439
 carbon, 641303
 carbon, organic, diagenesis, 670610
 carbon stratigraphy, 641263
 carbonate, 641303
 chemistry, gulf mouth, 650416
 clay, 650343, 650453, 650460, 650463, 650465, 650467
 Quaternary, 650460, 650471
 clay minerals, Miocene-Pleistocene, 630618
 coccolith stratigraphy, 650487
 contour current, 650471
 convection, 650343
 cooling, lithospheric, 650343
 Costa Rica Rift, hydrocarbon, 690449
 crust, age, 630919
 crust, continental, 641057
 crust, oceanic, 650697
 ages, 630919
 metamorphic rocks, 650375
 crustal blocks, decoupling, 650474
 denudation rate, 640571
 deposition, 650451
 contour current, 650474
 diagenesis, 650329
 silica, 950508
 slope sediments, 840584
 diatomite, laminated, 641177, 641179
 dolomite, diagenetic, 640553
 dominant sediment population, 650467
 drainage basin, 640571
 East Pacific Rise, 650453, 650471, 650475
 crest, 650459
 valleys, 650475
 elemental compositions, carbon isotope ratio, 640905
 gas, 650667
 gas, interstitial
 geochemistry, 640781
 stable isotopes, 640815, 640817
 geochemical, optical study, organic matter, 640855
 geochemistry, 640667, 650425
 basin, 640695
 Guaymas Basin, 640711
 gulf mouth, 640696, 640698
 sediments, 640695
 geologic structure, 650343
 geologic and tectonic history, 641279
 age of oldest sediment, 641291
 faulting, 641292
 formation and evolution, 641284, 641285, 641289
 gulf opening, 641280
 tectonic evolution, 641282, 641284
 geophysical data, 640505
 geophysical logging, 650329
 glass, 650463
 basalt, 650477
 grain size, sediment, 650451
 grain-size distribution, 640543
 granite
 geochemistry, 641083, 641084
 petrology, 641083
 Guaymas Basin, Zr/Y ratio, 650617
 gulf mouth
 carbohydrate, 640881
 organic material, 650431, 650433, 650435, 650436, 650437
 palynological residue, 640729
 Pleistocene sediments, 650363, 650365, 650367, 650368
 sediments, 640877, 650399, 650400, 650401, 650404, 650406, 650407, 650409, 650410, 650412, 650413, 650415, 650416
 heat flow, 650343
 hyaloclastite, 650477
 hydrocarbon, C₁-C₈, 640763
 hydrocarbon, extractable, organic
 petrology, 640837, 640849, 640851
 hydrocarbon generation potential
 organic facies, 640865, 640868, 640869, 640870
 organic matter, 660541
 hydrocarbon, nonaromatic, composition, 950655
 hydrothermal, petrology, 641123
 hydrothermal activity, 641159
 hydrothermal alteration, 650420
 hydrothermal system, 641143
 igneous rocks
 geochemistry, 640595
 magnetic properties, 640667
 inorganic geochemistry, 650399
 interstitial water, gulf mouth, 630626, 630627
 interstitial water chemistry, 640675, 640933, 650441
 diagenesis, 640690
 Guaymas Basin, 640689
 mouth, 640934
 kerogen, organic geochemistry, 640883, 640895
 laminated sediment, organic geochemistry, 640921
 lipid, 640913
 organic geochemistry, 640883, 640895
 lithology, 650343
 lithosphere, cooling, 650343
 longitudinal valleys, 650474, 650476
 magma, 650632
 magnetic anomaly, 650309
 magnetic properties, 640667
 magnetism, 640505, 650310
 major element
 accretion, 650575
 magma, 650575
 margin, 660541
 mass physical properties, 640511
 Pliocene to Quaternary, 640529
 Messinian environments, salinity crisis, 42A1028
 metamorphism, 650375

- methanogenesis, 640759
sediments, 640759, 640761
Mexico, continental landmasses, 650471
microfossil distribution, 641245
Middle America Trench, transect, 670610
mineralogy, 650399
 gulf mouth, 650391, 650395, 650416
 mouth, 640739, 640743
 mouth sediments, chemistry, 650439
 mud, 650462, 650465
 Quaternary, 650458
 mud, anoxic diatomaceous, Quaternary, 640553
 mud, diatomaceous, 641191
 NE submarine valley, major sediment
 supplier, 650474
 NE-trending sediment pond, 650459
 nitrogen, 641303
 oblique seismic experiment, 650319
 oceanic anoxic event, similarity, 801003
 ooze, diatomaceous
 calcium carbonate, 641263
 carbon, organic, 641263
 organic chemistry, 640723, 640939
 nonlaminated sediments, 640921
 organic facies, 640865
 hydrocarbon potential, 640865
 organic facies origin, carbon, 660544
 organic geochemistry, 640723, 640819, 640939
 Cenomanian-Turonian black sediments,
 800964
 diatomite, 640877
 Guaymas Basin, 640946
 gulf mouth, 640717
 marine influence, 800963
 nonlaminated sediment, 640921
 sediments, 640819
 organic matter, 640855, 650431
 geochemistry, 610855, 640855, 640860,
 640862
 maturation, 640939
 origin, 650431
 preservation, 640939
 sources, 640939
 organic petrology, 640837
 organic sediments, origin, 660544
 oxygen isotope, 641251
 Pacific Ocean EC, geologic history, 090921
 Pacific Ocean N
 Aleutian Ridge, 190906
 ash, 190909
 plate movement, 190899
 Pacific Ocean SW, island arcs, 300700
 Paleogene-Neogene, 310852
 paleomagnetism
 igneous rocks, 650705
 laminated sediments, 641255, 641259
 NRM intensities, 650707
 palynological residue
 abundance, 640731
 bottom sediments, 640730
 gulf mouth, 640729
 palynology, 640729, 641211, 641217, 641225
 passive margin, 640027, 650309
 geological history, 641089
 passive margin transect, 640598, 640599,
 640601, 640607, 640613, 640614
 perylene, 640789
 petroleum generating potential, 640871,
 640875
 petrology, Pleistocene sediments, 650363
 Philippine Sea, Paleogene-Neogene, 310852
 physical properties, 640529, 650451, 650675
 Pleistocene sediments
 mineralogy, 650363
 petrology, 650363
 Pleistocene-Pliocene sediments, organic
 matter, 640855
 Pliocene organic matter geochemistry, 640855
 Pliocene to Quaternary sediments, physical
 properties, 640529
 pollen, 641225
 homogeneous sediment, 641217
 laminated sediment, 641217
 pore water expulsion, 641169
 porosity, 650451
 postrifting
 budget, sediment components, 640582,
 640585, 640586, 640587
 clay, 640571, 640590
 crust, oceanic, 640577, 640588
 denudation, 640571, 640589
 depositional, 640574, 640576, 640577
 drainage area characteristics, 640572,
 640574
 protogulf shelves, 640577, 640580,
 640581, 640582
 sand, 640590
 sedimentation rate, 640587, 640588, 640590
 protokerogen, 640905
 carbon isotope ratio, 640905
 hydrothermal effects, 640905
 pyrite, hydrothermal, sulfur isotope, 641137
 Quaternary, 640511
 Quaternary sediments, 640925, 650453, 650467
 Quaternary-Neogene, 641169
 radiocarbon dating, 640757
 radiolarians, Quaternary, 650491
 ridge crest, 650309
 Rockall Plateau, basalt, 810795
 Salado-Vinorama, submarine slide, 641071
 sand, 641307, 650453, 650460, 650465, 650467
 Quaternary, 650471
 source, 641307
 sand-silt-clay distribution, 650465
 Santos Plateau, origin, 390941
 sea floor hot spring, manmade, 650357
 sediment, 641297
 sediment accumulation, 650471
 sediment age, 650474, 650475
 sediment composition, 650467
 sediment distribution, 650471, 650475
 accumulation rate, 650471
 sediment geochemistry, 640675, 640695,
 640877
 sediment petrology, 640837
 sedimentation mechanism, 650451
 sedimentation rate, 640571, 650455, 650471,
 650475, 650693
 age, sediments, 650473
 bottom current, 650474, 650475
 conveyor-belt motion, 650476
 faulting, transcurrent, 650476
 high valley rates, 650473
 terrigenous origin, 650475
 transport, 650474
 turbidites, 650471
 sedimentology, 640511
 Quaternary, 641191
 sediments, 641123
 radiocarbon dating, 640757
 seismic velocity, 650343
 seismology, 650314
 shear strength, 650451
 sill, intrusion, 641169
 silt, 650453, 650460, 650463, 650465, 650467
 Pliocene, 650462
 Quaternary, 650465
 siltstone, 650466
 spreading, East Pacific Rise, 650474
 spreading center, 650739
 stable isotopes, Quaternary sediments,
 640815
 submarine topography, 650471, 650475
 submarine valley, 650475
 synthesis, organic geochemistry, 640939
 tectonics, 641279
 temperatures, 650343
 terrigenous origin, 650471, 650474
 terrigenous sediment, 650465, 650468,
 650474, 650475
 tetrapyrrole
 geochemistry, 640790, 640797, 640798,
 640810
 pigment, 640789
 tetraterpenoid, pigment, 640789
 trace elements, 640597
 magma, 650575
 transport, 650474
 turbidites, 650453, 650460, 650462, 650474
 distal, 650465
 turbidites, mud, 650468
 Pliocene, Quaternary, 640511
 turbidity current, 650471, 650475
 deposition, 650474
 volcanism, 650329
 X-ray mineralogy, 650391
 Zr/Ti ratio, 650632
California, Gulf of S, 641291, 650559
 spreading axis, 650739
California N
 offshore, 630562
 continental slope, 670006
 paleoenvironment, offshore, 630959
 subduction zone, 780618
California S, 600585, 600881, 630023, 630113,
 630173, 630514, 630579, 630907, 630927,
 630949, 641109, 641279, 641280, 641281,
 641282, 641292, 641293, 650618, 660421,
 660423
 alteration, secondary, 630711
 ash, 630631
 Neogene, 630631
 Atlantic Ocean SW, basin, evolution, 361000
 basalt, petrochemistry, 630711
 bathymetry, 630919
 biostratigraphy, 630927
 breccia, volcanic, Neogene, 630631
 California, continental margin, 630759
 California Continental Borderland,
 biostratigraphy, 630927
 California, Gulf of, Guaymas Basin, 650619
 carbon, 630965
 carbonate, 630965
 diagenesis, 630595
 carbonate, diagenetic
 isotopes, 630595
 isotopic survey, 630606
 carotenoid, geochemistry, 630785
 clay minerals, terrigenous deposits, 630611
 coast, 630623
 crust, oceanic, ages, 630919
 deposition, terrigenous, 630611
 diabase, petrology, 630701
 diagenesis, 630631
 slope sediments, 840584
 dolerite, petrochemistry, 630711
 Farallon-Pacific Ridge, trench, 630857
 fault, transform, 641286
 geophysics, 630855
 grain size, 630965
 hydrocarbon, extractable, 630819
 hydrocarbon, C₁-C₈, 630775
 interstitial water, chemistry, 630623
 isotopic ratio, igneous rocks, 630733
 lipid, 630763
 magnetic properties, igneous rocks, 630739
 major element, igneous rocks, 630733
 metalliferous sediment, 630667

- Neogene, 630579
 offshore, 630579, 850408
 organic geochemistry, 630837, 630943
 paleotrench, 630837
 organic matter, 630757
 Neogene, 630943
 petrography, 630819
 Paleogene-Neogene, borderland, 310852
 Patton Escarpment, upwelling, 630935
 perylene, geochemistry, 630785
 Philippine Sea, Paleogene-Neogene, 310852
 remagnetized sediment, 630659
 sedimentation, 630631
 siliceous sediment, Neogene, 630579
 sorting, 630965
 sulfide, 630679
 synthesis, 630927
 tectonics, 630855
 tetrapyrrole, geochemistry, 630785
 tholeiite
 geochemistry, 630687
 petrography, 630687
 tuff, Neogene, 630631
 Callao, Southeast Pacific Basin, evolution,
 geologic, 350724
 Caltanissetta, 100645, 131236, 210843
 Caltanissetta Basin, 42A0392, 42A0393
 Caltanissetta Trough, 131235
 Calvert Formation, 190473, 950799
 Calville Ridge, Pacific Ocean SW, Cenozoic,
 300667
 Camanu, 750472, 751475
 Camargue, 131252
 Cambay, Gulf of, 230484
 Arabian Sea N, sediment history, 230503
 Cameroon Line, 430746
 Cameroon Volcanic Zone, 38S0764
 Camore Islands, 430746
 Camosunary-Skerryvore Transcurrent Fault,
 Atlantic Ocean N, Precambrian features,
 801106
 Camp Cove conglomerate, 290021
 Campania, 42A0396
 Campanian/Maestrichtian boundary
 age, 720946
 ammonite, 720946
 bentonites, K/Ar age, 720946
 Gulf Coast, boundary correlations, 720946
 Maestrichtian stage base correlation, 720946
 Magnetic Anomaly, 24, 720946
 magnetochronology, 720946
 New Jersey, 720946
 Campanian/Santonian boundary, 720946
 Angola Basin, 751216
 bentonite, K/Ar age, 720946
 Gubbio, Santonian/Campanian boundary, 720946
 magnetobiochronological time scale, 720946
 Campbell Island, 290021, 290038, 290045,
 290056
 clay, terrigenous, 291147
 plateaus, 220604, 350817, 38S0688
 silt, terrigenous, 291147
 South Tasman Basin, borderland, 291139
 Campbell Plateau, 210117, 220604, 280904,
 280905, 280937, 290403, 291123, 291157,
 291173, 300631, 300663, 300664, 300667,
 300679, 300681, 300698, 300700, 350736,
 350817, 38S0688, 710409, 710415, 710417,
 730742, 800560, 890214, 900020, 900551,
 900552, 900567, 901327
 Antarctica, glaciation, 291040
 Atlantic Ocean S, high-latitude isotope
 records, 710417
 biogeography, subantarctic biogeoprovince,
 901357
 burrow mottling, silt, 291049
 calcareous facies, 291151
 Chatham Rise, seismic stratigraphy, 901327
 clay, 291049
 crust, continental, 291049
 clay, terrigenous, 291147
 siliceous biogenic sedimentation, 291062
 silt, 291147
 terrigenous sedimentation, 291062
 isotopes, 901353
 isotopic analysis results, 901348
 carbon isotope, 901350
 Eocene/Oligocene boundary, 901350
 high-latitude temperature, 901348
 isotopic shift, 901350
 oxygen isotope, 901348
 lithology, 290023, 290043
 manganese, 291083
 Pacific Ocean S, high-latitude isotope
 records, 710417
 Pacific Ocean SW
 Cenozoic, 300667, 300679
 island arcs, 300698, 300700
 Paleocene-Eocene unconformity, 300664
 sand, glauconitic, bottom current, 291152
 silicate, 291065
 silt, terrigenous, 291147
 siliceous biogenic sedimentation, 291062
 South Fiji Basin, history, 300631
 Southeast Pacific Basin, evolution,
 geologic, 350735, 350736
 temperature gradient
 Challenger Plateau, 901356
 paleotemperature differences, 901357
 X-ray mineralogy, 291173
see also South Tasman Basin
 Campbell Plateau S
 Antarctica, glaciation, 291039, 291040
 Pacific Ocean SW, island arcs, 300698
 South Tasman Basin, borderland, 291138,
 291142, 391143
 Campeche, 770255, 770477, 770657
 lithology, continental slope, 100266
 Mexico, volcano, 100055
 Mexico, Gulf of, regional aspects, 010625,
 010628
 platform, 100317
 Reforma, continental shelf, 770071
 shelf, 010625, 010628
 Campeche Bank, 010167, 100004, 100007,
 100011, 100025, 100071, 100187, 100204,
 100266, 100311, 100407, 720738, 770005,
 770377, 770397, 770407, 770722
 biostratigraphy, Paleogene, 100679, 100681,
 100683, 100684, 100685
 carbonate platform, 100681
 lithology, 100204, 100301
 Mexico, Gulf of, regional aspects, 100737,
 100738
 sediments, 100011
 age determinations, 100008
 carbonate, 100009
 clastics, terrigenous, 100009
 density, wet bulk, 100020
 lithology, 100014
 nature, 100007, 100008, 100014, 100016,
 100019
 physical properties, 100009
 quartz/feldspar ratio, 100008
 turbidite, 100009
 submarine canyon, 100388
 Campeche Bay, organic analyses, 100073
 Campeche Canyon, 100071, 100297
 Mexico, Gulf of, regional aspects, 100738
 Campeche Escarpment, 010084, 010174, 010625,
 100025, 100187, 100195, 100259, 100388,
 770219, 770221, 770225, 770257, 770267,
 770279, 770282, 770377, 770391, 770397,
 770595, 770603, 770635, 770636, 770657,
 770703, 770715, 770717, 770721, 770730,
 770732
 biostratigraphy
 Mesozoic, 100679
 Paleocene, 100679
 lithology, 100261
 Mexico, Gulf of, regional aspects, 100737,
 100738, 100742, 100743, 100745, 100747
 organic analyses, 100262
 dolomite, 100262
 paleoenvironment, 770377
 sediments, 100025, 100027
 density, wet bulk, 100040
 framework, 100025
 lithology, 100032
 nature, 100025, 100026, 100027, 100032,
 100033, 100035, 100036
 physical properties, 100027
 Campeche-Sigsbee Salt Dome Province, 100003,
 100055, 100071
 Mexico, Gulf of, regional aspects, 100742,
 100743, 100745, 100747
 Campos, 750475
 Campos de Calatrava, 130770
 Canada, 131228, 290677, 290873, 291071,
 38S0235, 400884, 47B0031, 47B0429,
 480548, 480549, 480552, 480553, 481125,
 660427, 660661, 710340, 790520, 800614,
 800657, 801188, 810565, 810858, 950419
 Alberta, 230823
 Arctic, 710955
 Arctic islands, carboniferous, 790523
 Atlantic continental margin, 38S0779,
 38S0781, 410495
 Atlantic Ocean, shelf, 410495
 Atlantic Ocean N
 continental margin, 790868
 Precambrian features, 801107
 Campanian/Maestrichtian boundary, 720946
 continental margin, 47B0673, 47B0674,
 500801, 760823
 continental shelf, 801107
 eastern, 380905
 Cretaceous and Miocene sediments, 790399
 diapir, 790181
 eastern continental margin, 120055
 geological history, 480039
 Great Lakes, 42B1039
 Moroccan Basin
 evolution, 500801
 margin, 500805, 500809
 northeastern, 121155
 northern, 360849, 360867
 offshore, 790524, 790552, 810573, 930755,
 931359
 Cretaceous and Miocene sediments, 790399
 diapir, 790181
 Saskatchewan, 120067, 360865
 western, 110570, 130695
 Canada Basin, 710965
 Canada E, 120038, 790192, 801107, 801110,
 801202
 Labrador Sea S
 bathymetry, 121155
 magnetic anomaly, 121164
 offshore, 770679, 790716, 790717, 850408
 palynomorphs, 500468
 Canadian Shield, 430474
 Canary Basin, 390973, 410168, 410181, 410233,
 411002, 411225, 430414
 Atlantic Ocean NE, evolution, 411225,
 411228, 411233
 Mesozoic variegated, red sediments,
 Atlantic Ocean NE, 440503

- Canary Current, cycle description, upwelling, 750919, 750920
- Canary Islands, 140729, 140819, 170442, 200770, 410421, 410991, 411140, 430746, 430853, 430879, 430880, 500005, 500006, 500753, 720965, 740781, 760865, 760866, 760868, 780663, 790114, 790194, 790377, 790379, 790392, 790894, 810670, 931031
- Atlantic Ocean NE, evolution, 411215, 411218, 411220, 411223, 411225, 411228, 411232, 411233, 411237, 411239, 411241
- Atlas Mountains, 790439
- Cretaceous tectonics, 500770
- Cape Bojador, continental margin, 47A0794, 47A0795, 570795
- clay minerals, 47A0595
- Fuerteventura, 411239
- glass, volcanic, Miocene, 411062
- hydrocarbon, C₁-C₈ generation, 640776
- San Miguel Gap, 630778
- hydrocarbon, C₂-C₇, 47B0561
- islands, 411140, 430746, 500005, 500006
- lithology
- paleoenvironment, 47A0085
 - uplifting, 47A0037
- magnetic anomaly, 500005
- M series, 500005
- Mediterranean Sea E, history, 42B1210
- Miocene sediment, 790799, 790803
- Moroccan Basin
- limits, 500005
 - margin, 500816, 500818
- organic matter, 790803
- Reflector C, 500006
- Rio Grande Rise, subsidence, 720965
- slumping, Miocene, 790257
- sterane, 790799
- Tethys, 42A0945
- volcanic activity, 411033
- volcanic rocks, 490723
- volcanism, 430032, 430034
- Neogene, 47A0703, 47A0704, 47A0707, 47A0710, 47A0711, 47A0712, 47A0713, 47A0714, 47A0715
 - origin, 47A0794
- Canary Ridge, 790894
- cancrinite, Melanesian Basin, ash, 610633
- Canning Basin, 270288, 270707, 270978, 270996
- Australia W, continental margin, 270581, 270582, 270583
- tectonics, geological and geophysical data, 271051
- see also* Indian Ocean E
- Cantabria, trough, 930914
- Cantabria Dome, 430745
- Cantabria Knoll, 120673, 120753, 140964, 160660, 47B0028, 47B0439, 47B0764, 480036
- continental margin, structural evolution, 481059
- Iberian margin W, evolution, 47B0764
- interstitial water, 121194
- limestone, Paleocene, 121189
- Oligocene-Eocene unconformity, 121189
- sedimentary sequence, 121189
- turbidites, Paleocene, 121189
- uplifting, 120778
- Eocene, 121189
 - old sea floor, 121189
- Cantabrian Mountains, 760870, 800160
- Canterbury Plains, 901326, 901328, 901332
- Chatham Rise
- burial, 901328
 - seismic stratigraphy, 901325
- Canton Trough. *See* Nova Trough
- Cap Cantiri, 790858
- Cap Edvard Holm, 380751
- Cap Larvel, 810903, 810913
- cap rock
- continental slope basins, salt dome, 960708
 - gas hydrate, gas, 670610
- Middle America Trench, transect, 670610
- oil, comparison with U.S., 010424
- Cape Adare, lithology, 280374
- Cape Agulhas
- continental shelf, onshore geology, 400965, 400968, 400969, 400975
 - Rio Grande Rise N, regional setting, 250691
- Cape Ann, 220408, 801109
- Cape Ashizuri, 870942
- More prism interior section,
- Paleogene-Miocene sediment, 870934
- Cape Basin, 140839, 360537, 360538, 360888, 360963, 38S0647, 38S0651, 38S0703, 38S0735, 390402, 390982, 391060, 391064, 391104, 391106, 391108, 400525, 400526, 400536, 400558, 440651, 480933, 710320, 710331, 710339, 710340, 720387, 720809, 720980, 720981, 720990, 730005, 730272, 730274, 730324, 730326, 730329, 730449, 730459, 730495, 730628, 730657, 730740, 730741, 730742, 730745, 730749, 730774, 740042, 740645, 740680, 740795, 740875, 750007, 750031, 750032, 750035, 750484, 750499, 750505, 750509, 750511, 750518, 750537, 750538, 750566, 750592, 750782, 751040, 751191, 760825, 900962
- Africa W, 440651
- Angola Basin, 400536
- clay, 400537
 - turbidity, 400537
- Argentine Basin, 400232, 481104
- Atlantic Ocean, margin, 481104
- Atlantic Ocean S, 901230
- Cretaceous, 720979, 720980, 720981
 - Mesozoic, 751035, 751036, 751037, 751041
 - Santos Plateau, 391106, 391108
- Atlantic Ocean SW, basin, evolution, 361000
- bedding structure, 400526
- carbon, organic, preservation, 711054
 - carbonate, Cretaceous-Tertiary, 730749
 - clastic sediment, Cretaceous, 401027
 - clay, 400488, 400537
 - claystone, 400537
 - concretion, 400536
 - continental rise, 730628
 - magnetic anomaly, 400030
 - continental shelf, onshore geology, 400969, 400970, 400971, 400972, 400973, 400974, 400975
 - continental source, 400490
 - Cretaceous/Tertiary boundary, 730755
 - carbon isotope, 730760
 - climate change, 730761
 - ground disturbance after impact, 730758
 - impact ejecta fallout, 730758
 - reduced fertility, 730760
 - temperature effects, 730758, 730759
 - terminal impact sites, 730755
 - Cretaceous/Tertiary isotope data, 730749
 - stable isotope, 730751, 730753
 - cross-lamination, 400537
 - crust, age, 730791
 - deformation, 360226
 - dissolution, 400488
 - carbonate, 400989, 400990, 400991, 400993
- Falkland Plateau E, sedimentation, 360889, 360890
- fan, submarine, 400537
 - grading, 400537
 - hydrocarbon, light, 440651
 - inclusion, 400536
 - interstitial water, 400549
 - kaolinite, 400488
 - laminae, parallel, 400537
 - lamination, 400490
 - limestone, 400491
 - nodular, 400526
 - mud, 400488, 400489, 400491
 - mud, terrigenous, organic geochemistry, 400558, 400561
 - nannofacies, sediments, 400487
 - particle, origin, 901230
 - penecontemporaneous deformation load cast, 400536
 - slumping, 400536
 - pyrite, 400487, 400489, 400491
 - quartz, 400487, 400492
 - ridge, S-N, 740748
 - sand, 400537
 - sandstone, 400489
 - sedimentary features, 400525
 - bedding structure, 400526, 400536
 - clay, 400537
 - dolomite, 400478
 - mudstone, carbonaceous, 400537, 400538
 - turbidity, 400537
 - sedimentary structure
 - barite, 400536
 - bedding, graded, 400536
 - inclusion, 400536
 - microfaulting, 400536
 - nodular structures, 400536
 - primary structures, 400525
 - slumping, 400536
 - turbidites, 400536
 - shale, 400490
 - organic geochemistry, 400558, 400561
 - shale, bituminous, 400487
 - shale, black
 - mudstone, 400537
 - paleoenvironmental comparison, 711028, 711029, 711030
 - sandstone, 400537
 - sandstone, carbonaceous, 400538
 - silt, 400489
 - siltstone, 400490
 - stylolites, 400536
 - tectonic fabric, 730791
 - tetrapyrrole, geochemistry, 630812, 630813
 - thermohaline flow, Quaternary, 720990
 - turbidites, 400537
 - Walvis Ridge, 400493, 400494, 400495
 - basalt, 740748
 - Cretaceous to Pliocene, 400487, 400488, 400489, 400490, 400491, 400492
 - history, 740845
 - sediments, 751063
- Cape Beata, 150301
- Cape Blanc, 120673, 140007, 140085, 140135, 140157, 140179, 140430, 140490, 140727, 140792, 140871, 140962, 160575, 410328, 410614, 411045, 790559
- Atlantic Ocean
- Cenozoic sediments, 140859
 - Cretaceous sediment, 140859
 - Norfolk, fracture zone, 790915
- Cape Bojador, 500014, 730630, 790046, 790775, 790916, 930914
- Africa NW, paleomagnetic results, 47A0463
- Agadir Canyon, physical properties, 500047, 500053, 500054, 500056, 500057
- Atlantic Ocean NE, evolution, 411219
- bitumen, 47B0543
 - carbon, 47B0553, 47B0554, 47B0555, 47B0559
 - alkane, 47B0554
 - ammonium, 47B0553
 - carbon isotope, 47B0554, 47B0559

- carbon (Cont.)
 carbonate, 47B0553
 gas, 47B0559
 geochemistry, 47B0553
 kerogen, 47B0559
 lipid, 47B0559
 nitrogen, organic, 47B0553
 organic content, 47B0553, 47B0559
 origins, 47B0559
 petroleum, 47B0559
 climate, continental margin, 47A0801
 continental margin
 America NE, 47A0810
 evolution, 47A0773, 47A0774, 47A0775, 47A0779, 47A0780, 47A0781, 47A0782, 47A0783, 47A0785, 47A0790, 47A0791, 47A0793, 47A0794, 47A0795, 47A0796, 47A0797, 47A0798, 47A0801, 47A0802, 47A0804, 47A0805, 47A0806, 47A0807, 47A0808, 47A0809, 47A0810, 47A0811, 570795
 Costa Rica Rift, Pliocene record, 690439
 Cretaceous sediments, magnetostratigraphic studies, 410983
 delta, continental margin, 47A0773, 47A0808
 depth measurements, 500013
 drape, Neogene hemipelagic, 47A0796
 geochemistry, 500025, 500026
 carbon, organic, 500026
 hydrocarbon, C_2 - C_5 , 500026
 hydrocarbon, C_1 - C_7 , 47A0531, 500623
 hydrocarbon C, N C_7
 alkane, isomeric, 47A0534
 diffusion, 47A0534
 distribution, 47A0536
 hydrocarbon, C_2 - C_5 , 47A0533, 47A0535, 47A0536
 hydrogen sulfide, 47A0533
 methane, 47A0532
 neopentane, 47A0534, 47A0535
 nitrogen, 47A0533, 47A0531, 47A0532
 hydrocarbon, extractable, 47A0511, 47A0512, 47A0518
 hydrocarbon, 47A0514, 47A0515, 47A0516, 47A0518, 47A0522
 kerogen, 47A0513, 47A0514
 maturity, 47A0518
 organic matter, source, 47A0518, 47A0519, 47A0520
 vitrinite, 47A0512
 hydrocarbons, organic petrology, 47A0511
 interstitial water, 47B0578
 alkalinity, 47B0577
 ammonia, 47B0577
 calcium, 47B0578
 chlorine, 47B0578
 magnesium, 47B0578
 manganese, 47B0577
 potassium, 47B0577
 silica, 47B0578
 strontium, 47B0577, 47B0578
 sulfate, 47B0577, 47B0578
 lamination, continental margin, 47A0773
 lipid
 Cretaceous, 47A0541
 geochemistry, 47A0541
 lipid, eolian, Pleistocene, 47A0541
 lithologic classification, 500016, 500019, 500020
 sediment types, 500017, 500018
 special rock types, 500019
 magnetic polarity reversal
 Pliocene to Pleistocene, 47A0479
 sequence, 47A0479
 magnetostratigraphy, Cretaceous, 410983, 410984, 410985
 paleoenvironment, Cretaceous, 47A0559
 Pendragon Escarpment, bottom water, 800743
 petrology, organic, 47A0511
 physical properties
 acoustic impedance, 500844
 GRAPE, 500838, 500839
 porosity, 500844
 shear strength, 500845
 sound velocity, 500844
 thermal conductivity, 500846
 water content, 500837, 500838
 prodelta, continental margin, 47A0773, 47A0808
 reef, continental margin, 47A0808
 sedimentation rate, continental margin, 47A0808
 sediments, petroleum generating potential, 410817, 410818, 47B0547, 47B0548, 47B0550
 seismic interpretation
 eroded slope escarpment, 47A0493
 reflectors, 47A0493
 slope, 47A0491, 47A0493, 47A0497
 Tan-Tan delta, 47A0497
 unconformities, 47A0491
 seismic sequences
 age and interpretation, 47A0485, 47A0487
 depositional sequences, 47A0485
 shale, organic-rich, geochemistry, 47A0523
 shelf, continental margin, 47A0773
 slope, continental margin, 47A0773
 transport, downslope, 47A0801
 Vigo Seamount, hydrocarbon, C_2 - C_7 , 47B0561
 Cape Bon, 131248
 Cape Calcanhar, 040059
 Cape Canyon, 400525
 continental shelf, onshore geology, 400973
 Cape Cod, 810505
 Cape Colonne, 131406
 Cape Corrientes, 641108, 641109, 641114, 670429
 Cape Cross, 400069, 401029
 Cape Crozier, 280227
 Cape D'Antibes, 131221
 Cape Delgado, 250141
 Cape Espichel, 131079
 Cape Eva, 350347
 Peter I Island, geology, 350347
 Cape Farewell, 120255, 120267, 121155, 121164, 121166
 Atlantic Ocean N, paleogeography, 121167
 Labrador Sea S
 basement, 121157
 bathymetry, 121155
 magnetic anomaly, 121164
 lithology, 120267
 Cape of Fegalo, 131420
 Cape Finisterre, 47B0633, 480421
 Cape Fold Belt, 360926, 400008, 401029
 Atlantic Ocean SW, basin, evolution, 360998
 continental shelf, onshore geology, 400965, 400970
 Falkland Plateau E, sedimentation, 360887
 lithology
 sandstone, 400069
 shale, 400069
 Cape Fracture Zone, 270341
 Cape Frio, 740483, 740755, 750469, 750490
 Cape of Gate, 131422
 Alboran Sea, ridge, 131420
 shelf, 131417
 Cape of Good Hope, 360226, 400558, 711141
 Atlantic Ocean SW, basin, evolution, 360996
 Cape granites, 360926, 401033
 clastic sediment, Cretaceous, 401029
 Cape Hatteras, 110561, 110901, 110937, 410187, 440007, 440069, 440337, 440519, 440807, 670644, 720030, 760011, 760673, 930027, 930031, 930088, 930593, 930619, 930751, 930783, 930849, 930891, 930914, 930941, 930985, 931003, 931023, 931079, 931237, 931368, 950584, 950604, 950765
 biostratigraphy, lower continental rise, 930617
 Blake Basin, 440204
 Blake Spur, 440337
 north rim, 440069
 calcareous nannofossils, biostratigraphy, 930617
 Cenomanian/Turonian boundary, 931139
 Cenozoic, coccolith, silicoflagellate, diatom, 440807
 claystone, 950501
 continental margin, 931163
 continental rise, 440023, 440024, 440027, 440028, 440030, 440033, 440043, 930417, 930961, 931061, 931139, 931245
 continental slope, continental shelf, 950015
 Cretaceous, 930617
 Cretaceous foraminifers, 440664
 Cretaceous formations, 931139
 fan, submarine, 931385, 931419
 geochemistry, 930961
 geological, geophysical setting, 450023
 introduction, principal results
 Blake Spur, 440007
 continental rise hills, 440005
 lithology, 060249, 440204
 magnetostratigraphy, Cenozoic, 930839
 North America, continental rise, 930839
 North American Basin, 930713
 organic matter, geochemistry, 931163
 palynology, 930751
 palynostratigraphy, correlation, 440893
 petrology, 930961
 sandstone
 geochemistry, 930961
 petrology, 930961
 turbidites, sedimentation, 930891
 Cape Hatteras Formation, 931237
 Cape Horn, 640633, 650619
 Atlantic Ocean SW, basin, evolution, 360993
 Cape Ingrid, 350341, 350344, 350346, 350356
 Peter I Island, geology, 350341, 350343, 350344, 350346, 350349, 350356
 Cape Johnson Tablemount, Pacific Ocean W, guyot, 200655
 Cape Johnson Trough, 300003
 Cape Juby, 140964
 Cape Khersoness, 42B0475
 Cape Liakas, 42A0392
 Cape Lookout Bight, North Carolina, 960771
 Cape Massif, 630270
 Cape Matapalo, Costa Rica, 840845
 Cape May, 950797
 Cape May Formation, 950802
 Cape Mazagan, 790547
 rhyolite, outcrops, 790547
 Cape Mendocino, 050501, 180005, 180512, 180534, 180618, 180633, 180802, 640032, 670429
 Centerville Beach, 180526, 180534
 continental margin offshore, 180576
 continental slope SW, 180031
 Cape Meredith, 360909, 360923
 Atlantic Ocean SW, basin, evolution, 360996
 Cape Mountains, 401035
 Cape Muroto, 870792, 870941
 More prism interior section,
 Paleogene-Miocene sediment, 870934
 Cape Olyutorsk, 190413, 190573, 190616, 190887
 Cape Orogeny, 360926
 Falkland Plateau E, sedimentation, 360887

- Cape Plain, 390982
 Cape Province, 360926
 Cape Ras Madraka, 230497
 Cape Reykjanes, 120313, 430808, 490843, 490848, 720460, 740750, 800833
 Iceland, 600763
 Cape Rhir, 790923
 Moroccan Basin, margin, 500811, 500813
 Cape Romain, 950604
 Cape Saint Andre, Africa E, coast, 250680
 Cape Saint Elias, 180295, 180592, 180835, 180968, 180973
 Cape Sainte-Marie, 250532
 Rio Grande Rise N, regional setting, 250689, 250697
 Cape San Vigilio, 790885
 Cape Santin, continental rise, 411085
 Cape Seal, Rio Grande Rise N, regional setting, 250691
 Cape Tafelney
 Moroccan Basin, margin, 500813, 500814
 terrace, 200761, 500753, 500765
 overthrusting, 500764
 Cape Town, 400036, 400039, 400235, 740042, 740839
 continental shelf, onshore geology, 400973
 Santos, 730324
 Cape Verde Basin, 020249, 020414, 140735, 38S0841, 38S0846, 430592, 440520, 440899, 500006, 500360, 760824, 760859, 790775, 790822
 Angola Basin, Cretaceous sediments, 751052
 ash, volcanic debris, 020414
 Atlantic Ocean, Cretaceous, 750820
 Atlantic Ocean NE, evolution, 411215, 411216, 411218, 411219, 411220, 411221, 411225, 411227, 411229, 411232, 411234, 411239
 Atlantic Ocean NW, 020414
 attapulgite, 020414
 biostratigraphic reference, 020414
 carbon, organic, geochemistry, 750833
 chert, radiolarian, 020414
 clay, nonfossiliferous, 020414
 clay, zeolitic, 020414
 diagenesis, Miocene-Eocene, 020421
 feldspar, volcanic origin, 020414
 geochronology, total fusion age, 411115
 Jurassic sedimentation, 760859
 kerogen, contact metamorphism, 410821
 Mesozoic variegated, red sediments, Atlantic Ocean NE, 440503
 montmorillonite, 020414
 ooze, foraminiferal nannofossil, Quaternary-Pliocene, 020414
 Oxfordian strata, 500006
 palygorskite, 020414
 phillipsite, 020414
 sapropel, Cretaceous, 620891
 silt, dolomitic, 020414
 tetrapyrrole, 410825
 volcanic material, 020414
 zeolite, 020414
 Cape Verde Islands, 020003, 020004, 020249, 020367, 020394, 020398, 020400, 020422, 020423, 110222, 110607, 110617, 130029, 131063, 140003, 140431, 140491, 140729, 140819, 140967, 140968, 150773, 410233, 410250, 410991, 430034, 430592, 430746, 610616, 710791, 720859, 760865, 760866, 790654, 931031
 Atlantic Ocean NE, evolution, 411215, 411216, 411221, 411223, 411237, 411239, 411241
 basalt, composition, 411107
 diagenesis, 020422
 glass, volcanic, Miocene, 411062
 lipid, underlying volcanic complex, influence, 610616
 Maio, 410168, 410186, 411111
 oldest sediment, 020423
 regional tectonics, Eocene activity, 720962
 Rio Grande Rise, subsidence, 720965
 volcanism, 38S0939
 Cape Verde Plain, Madeira Plain, 500360
 Cape Verde Rise, Rio Grande Rise, subsidence, 720964
 Cape Verde Terrace, 131393, 140217, 38S0883, 38S0887, 38S0933, 38S0987, 430657, 720964, 790775
 Atlantic Ocean, Cretaceous, 750820
 Atlantic Ocean NE, evolution, 411215, 411216, 411219, 411220, 411221, 411225, 411227, 411228, 411229, 411232, 411237, 411241, 411243
 carbonate, redeposited clastics, 760820
 gas, interstitial, stable isotopes, 640817
 kerogen, contact metamorphism, 410821
 magnetostratigraphy, Miocene, Oligocene, 410839, 410987
 paleomagnetic stratigraphy, 41S0987
 physical properties, measurements, 411200, 411210
 tetrapyrrole, 410825
 geochemistry, 630813
 Cape Vincent, 480421
 Cape Vogel, 600276, 600691
 boninite
 andesite, 600741
 mineralogy, 600691
 crystal morphology, lava, clinostatite-bearing, 600681
 Mariana Islands, fore arc, 600619
 Mariana Trench, basalt, 600619
 Capistrano Formation, 180618, 320785, 630036
 Capo Rossello, 42A0392, 670414, 720695, 720717, 820583
 Messinian environments
 Lago Mare, 42A1024
 salinity crisis, 42A1030
 Capodarsio, Messinian environments, salinity crisis, 42A1005
 Capri, 42A0396
 Capricorn Basin, 210708
 Car Nicobar, Neogene formations, paleogeography, 42A0917
 Caraquito Formation, Venezuela N, limestone, metamorphosed, 790653
 Caravaca, Spain
 bolide, impact, 720949
 clay, Cretaceous/Tertiary boundary, 730758
 carbohydrate
 basalt, intrusion, 580743
 California, Gulf of, 650439
 gulf mouth, 640881
 residues, 640881
 interstitial water, organic geochemistry, 640933
 California, Gulf of, 640934
 Guaymas Basin, 640934
 limestone, Albian, 620934
 organic geochemistry, 640720
 residues, 640718
 pyrolysis-GCMS results, discussion, protein, residual, 950663
 residues
 age, 640881
 Atlantic Ocean NW, 440653
 bacteria, sources, 640881
 California, Gulf of, 640881, 650439
 cellulose, 640881
 degradation, 440653
 degradation products, 640881
 land-derived plants, contribution, 640882
 land-derived vegetation, algae, 640881
 marine algae, sources, 640881
 monosaccharide, 440653, 640881
 nearshore source, 640881
 offshore oceanic sediments, 640881
 oil field, 640881
 polysaccharide, 440653, 640881
 seaweed, 640881
 sources, 440653
 starch, 640881
 sugar, 640881
 sugar, free, 440653, 640881
 carbohydrate, polymeric
 California, Gulf of, mouth sediments, 650439
 carbohydrate, residues, 640881
 carbon, 070845, 081017, 090797, 090798, 100641, 111059, 151129, 160521, 160528, 170927, 181069, 190663, 200741, 231131, 241155, 250841, 270499, 300687, 310633, 310911, 320561, 330959, 340601, 350755, 350756, 361047, 361048, 370637, 370638, 38S0433, 390501, 390502, 42A1151, 42A1221, 431043, 440605, 440983, 450379, 481148, 490873, 490878, 500835, 510716, 580711, 630965, 730789
 Aden, Gulf of, 241155
 alcohol, acyclic components, 660562
 alteration, diagenetic, organic matter, 571306
 ammonia, exchangeable, nitrogen, 42A1221
 Angola Basin
 Cretaceous sediments, 751052
 evolution, geologic, 750510
 Antarctica, geochemistry, 350405
 Arabian Sea, 231131
 sediment history, 230509
 Atlantic continental margin, interstitial water chemistry, 160891, 170515
 Atlantic Ocean, margin, 481104
 Atlantic Ocean C, 040307, 101059, 370637
 carbon, organic, 101059
 Atlantic Ocean N, 010340, 020319, 040342, 431043, 760945
 calcium carbonate, 010340
 carbonate, 040342
 Cretaceous sediments, 510737
 lipid, 38S0659
 petroleum generating potential, 38S0672
 Atlantic Ocean NW, 111059, 440949, 440983
 geochemistry, 430651, 440605
 sedimentary evolution, 430793
 Atlantic Ocean S, 020319, 030495, 030507, 040307, 050431, 050432, 060739, 060752, 361047, 390501, 730789
 Baja California, 630965
 Barbados Ridge, 780385, 780386, 780387, 780390
 Bermuda Rise, geochemistry, 430651
 Biscay, Bay of, geochemistry, 480947
 bitumen
 A_{chl} fractions, group composition, 571332
 geochemistry, 42B0692
 Black Sea
 geochemistry, 42B0717
 organic geochemistry, 42B0757
 Blake Basin, 440605, 440614, 760772
 sediments, 760481
 Blake Nose, 440605
 Blake Ridge, sediments, 760386
 Blake Spur, 440605, 440614
¹³C, exchange effect, 42B0617, 42B0618
 California, Gulf of, 641303
 gulf mouth, 650433
 California S, 630965

- Cape Bojador, 47B0555
 alkane, 47B0554
 gas, 47B0559
 geochemistry, 47B0553
 kerogen, 47B0559
 lipid, 47B0559
 organic content, 47B0553, 47B0559
 origins, 47B0559
 petroleum, 47B0559
 sediments, 410817, 410818
 carbon dioxide, 111059
 carbonization, temperature history, 181077
 Caribbean Sea, 040307, 151129
 sediments, 150930
 Chatham Rise, Quaternary, 901431
 chemistry, 850764
 chlorophyll, diagenesis, 571391
 classification, 350755
 clay, distribution, 390501
 CO₂, 090797
 Colombian Basin, isotope stratigraphy, 680450
 copper, 090798
 Costa Rica Rift, 690449
 Cretaceous, cyclic sedimentation, 770361
 Cretaceous sediments, 250736
 dacite, conglomerate, 571286
 decrease with depth, 780388
 deep-sea sediments, 580745, 580748, 580752, 580753
 diatom paleoceanography, paleoclimatology, nearshore reservoirs, 850944
 dolomite, diagenetic, mud, anoxic diatomaceous, 640559
 extractable organic matter, odd-numbered predominance, 800985
 Falkland Plateau, 711185
 even-numbered molecules, 711008
 organic matter, 711016
 sediments, 711001
 shale, black, 711053
 fatty acid, bacterial origin, 720837
 gas, 090798
 canned sediment samples, 230971
 gas, interstitial, geochemistry, 640787
 geochemistry, 241169, 310633, 310911, 310915, 38S0651, 38S0656, 380791, 380797, 380798, 380799, 410849, 410853, 42B0717, 42B0718, 42B0720, 42B0721, 430651, 430655, 440605, 440606, 440612, 440614, 480947, 480948, 500625, 571319, 571320, 571324, 590641, 590644, 590645, 610621, 610623, 610624, 710413
 abiogenic organic reactions, 571324
 accretionary wedge, 571319
 age, 380791
 age correlation, 571324
 ages, 440615
 allochthonous-autochthonous mixture, origin, 571319
 alteration, 610624
 alteration, microbial, 571319
 ammonia, 410852, 42B0718
 ammonium, 430655, 571322
 aromatic depth, 410853
 aromatic fractions, 42B0720
 asphaltic fractions, 410849, 42B0720
 benzene, 430654
 biogenic organic matter, 571319
 biogenic organic reactions, 571324
 biomarkers, 590645
 bitumen, 590642, 590644, 590645, 610621
 Black Sea, 42B0717
¹³C, 42B0718, 571319
 C/N ratio, 500626
 carbon/hydrogen ratio, 42B0720
 carbon/nitrogen ratio, 571322
 carbonate, authigenic, 610624
 carbonate carbon, 241169, 38S0655, 380791, 380797, 410849, 42B0720, 480947
 catagenesis, 590641
 chronostratigraphy, 610621
 clay minerals, 380798
 compaction, 440615
 continental shelf sediments, 571324
 continental slope sediments, 571319
 deep oceanic environments, 610624
 deposition, 42B0718, 610624
 deposition, oxic, 610621
 deposition, reducing, 610621
 depositional environment, 38S0655, 380791, 42B0721, 480948
 depositional history, 380799
 diabase, 410849, 410853
 diagenesis, 440606, 500627, 571324
 diagenesis, organic, 410853, 42B0718, 480948, 590641
 diagenetic change, 610624
 diagenetic state, 571319
 diagenic-catagenic change, 571324
 disturbance, 42B0717
 enrichment, 710412
 genesis, 571320
 geochemical parameters, 590641
 geologic age, 380797
 geothermal gradient, 571324
 gypsum, 42B0718
 highest organic content, 410852
 hydrogen/carbon ratio, 410849, 410853
 inorganic composition, 430651
 Japan Trench, 561319, 571319, 590641, 590645
 Jurassic sediments, 711001
 lipid carbon, 42B0718, 440606, 571319
 Mariana Trench, 590645
 Mariana Trough, 590641, 590645
 marine organic matter, 610624
 marl, calcareous, 42B0718
 maturity, 610622, 610623
 Melanesian Basin, 610621, 610624
 microfossil, 310634
 midslope terrace cores, 571319
 mineral matrix, 380791, 380798
 mixed source organic matter, 571324
 mud, 380798
 mud, diatomaceous, 571319
 mud, organic, 42B0720
 mudstone, diatomaceous, 571319
 n-C₂₈, 571319
 N/C ratio, 42B0720
 nearshore sediments, 571324
 Norwegian Sea, 380791
 nutrients supply, 610624
 odd/even predominance, 430655, 440615, 571319, 571322, 571324, 610621, 610622, 610624
 odd/even preference, 590641
 oil, 410853, 571319
 organic accumulation mechanism, 610624
 organic composition, 410849, 430651, 610621
 organic content, 38S0655, 410849, 410853, 440605, 440606, 571324, 590641, 590642
 organic matter, 310634, 310915, 380791, 380798, 380799, 410852, 42B0717, 42B0718, 42B0720, 430655, 571319, 571324, 590641, 610621, 610624
 origins, 440615, 500625, 500627
 outer trench slope sediments, 571319
 oxidation, abiogenic, 380791, 380798
 oxidative environment, 571324
 oxygen, 410849
 Pacific Ocean C, 610624
 Pacific Ocean N, 610621, 610623, 610624
 Pacific Ocean W, 310633
 pelagic sediments, 571324, 590641
 Philippine Sea, 590641, 600501
 pyrite, 380798
 redeposition, 610624
 reducing environment, 571324, 610623
 relict, 380799
 S, 571324
 saturate fraction, 42B0720, 610621
 saturates, 410849, 610621
 sediment classification, 38S0655
 sediment interval correlation, 310633
 silica, 380798
 slumping, 610624
 source, 571320
 Southern Ocean, 310911
 sulfate, 310916
 sulfur, 38S0655, 410849, 42B0717, 610624
 sulfur/carbon ratio, 42B0720
 temperature, 380791
 terrigenous imprint, 610624
 terrigenous organic matter, 38S0656, 410852, 571319, 610621
 terrigenous origin, 430654
 terrigenous sediment, 571322
 thermal history, 380797
 thermal reactions, 571324
 trench axis, allochthonous decrease, 571324
 trench sediments, 571319, 571324
 turbidity current, 610624
 undisturbed rock, 380797
 glauconite, mineralogy, 250427
 Goban Spur, planktonic foraminifers, 800793
 Hess Rise, 621043, 621056
 Albian sediment, 620939
 Hess Rise N, post-Jurassic, 620806
 Horizon Tablemount, 621043, 621044
 humic compounds, 711006
 hydrogen isotope, methanogens, 950649
 Indian Ocean, 250841
 stable isotope, 260613
 Indian Ocean E, 270499
 lithology, 271015
 Indian Ocean NW, grain size, 250422
 Indian Ocean SE, 260614, 260617
 Indian Ocean W, 241155
 geochemistry, 250408
 regional aspects, 250758
 inorganic/organic, 850765
 interstitial water, organic geochemistry, 640933, 640937
 California, Gulf of, 640934
 Guaymas Basin, 640934
 iron, 100641, 111059
 iron carbonate, 090797
 isotopic analysis results, Campbell Plateau, 901350
 isotopic composition, 500615
 Japan Trench, 561313
 Philippine Sea, 580913, 590631
 isotopic study, hydrothermal alteration, 590638
 Japan, Sea of, Paleogene-Neogene, 310633
 Japan Trench
 geochemistry, 561319
 isotopic composition, 561313
 limestone, stable isotope, 150795, 150801, 150802
 lithology, 870614
 lower continental rise hills, 440614
 magnesium, 100641, 111059
 major element, geochemistry, 42B0527, 42B0535

- Manihiki Plateau, 621043, 621044
 Mazagan Escarpment, 790744, 790906, 790916
 Mazagan Plateau, 790722, 790723, 790745
 Mediterranean Sea, 42A1151, 42A1221
 Melanesian Basin, 610883
 geochemistry, 610621
 Mesozoic sediments, organic matter, 360941
 Mexico, Gulf of, regional aspects, 010626
 Mid-Atlantic Ridge, 450379
 Mid-Pacific Mountains, 621043, 621090
 mineral, 730537
 minor element, geochemistry, 42B0527, 42B0535
 Miocene, Messinian salinity crisis, 720987
 Miocene time series, statistical analysis, 850746
 Moroccan Basin, 500669
 Morocco, continental margin, 500021
 mud, terrigenous, organic geochemistry, 400557, 400566, 400567, 42B0749
 mudstone, Cretaceous, 47A0541
 muramic acid, microbial biomass, sediments, 42B0767
 Nankai Trough, carbon, organic, 870899
 Neogene cores, organic geochemistry, 42A0466
 nitrogen, 42A1221
 deep-sea sediments, 580748, 580751, 580752, 580753
 nitrogen, organic, 42A1221
 Norwegian Sea, Greenland Sea, 380791
 organic geochemistry, 640877, 960691
 carbon, residual, 640726
 Guaymas Basin, 640942
 organic matter
 geochemistry, 640855
 trench facies, 660543
 organic matter richness, 801001
 oxidation, 860524
 oxygen, 090798, 1110590044carbon
 oxygen isotope
 carbon isotope, 290806
 foraminifers, 170602
 Paleocene temperatures, 430696, 430715
 oxygen isotope, stable, 410938
 carbon isotope, 410945
 Pacific Ocean, bottom sediments, 571313
 Pacific Ocean C, 070845, 081017, 090797, 160521, 330959, 340589, 340601
 oxygen isotope, 850771
 Pacific Ocean EC, carbonate, 680483, 680487, 680488
 Pacific Ocean N, 050431, 170927, 190663
 Pacific Ocean NE, 181069
 Pacific Ocean NW, 060739, 200741, 320561
 Pacific Ocean S, 300687, 340601, 38S0433
 Pacific Ocean SE, 350755
 carbon, organic, 920410
 Pacific Ocean SW, 300687
 Pacific Ocean W, geochemistry, 310633
 paleoceanography
 Miocene events, 850768
 Red (13.5-14.5 Ma), 850964
 paleotemperature, cold-water diatoms, 850941
 paragenetic assemblages, Assemblage IIB (-), 710425
 pelagic components, distribution, biogenous components, 250490
 Philippine Sea, 580711, 580745
 geochemistry, 590641, 600501
 isotopic composition, 590631
 phyllosilicate, assemblage, 340411
 plant organic matter, 380817
 preliminary organic analyses, 111014, 111016
 odd/even preference, 42B0724
 pyrolysis, 660543
 Quaternary, 641263
 radiocarbon dating, 640757
 Guaymas Basin, 640758
 Red Sea, 231131
 geochemistry, 230995
 rhyolite, conglomerate, 571286
 Rockall Plateau, geochemistry, 480947
 sand, distribution, 390501
 sand-silt-clay distribution, 350755, 361047, 370637
 sapropelic sediments, 42A1221
 sediment analyses, 170927, 370638
 sediment classification, 361047
 shale
 Aptian-Barremian, 711016, 711018
 Cretaceous, 500629
 organic geochemistry, 400557, 400566, 400567, 42B0749
 shale, black
 Biscay, Bay of, 480878
 Cretaceous, 410866
 Shatskiy Rise, 621043
 Southern Ocean, geochemistry, 310911
 stable isotopes, 42A0483
 carbonate, 42A0485, 42A0486, 650383
 dolomite, 42A0484, 42A0485
 Indian Ocean, 260613
 organic matter, 42A0486, 42A0487
 ratio, 511157
 Tasman Sea S, Quaternary, 901413
 Tasmania, 310633
 tectonic history, limestone, 430793
 temperature of formation, Philippine Sea, 580913
 Tertiary, stratigraphy, 390911
 thermohaline flow, Quaternary, 720989, 720991
 Timor Trough
 ooze, foraminiferal, 271011
 ooze, nannofossil, 271011
 Vigo Seamount, 47B0553, 47B0554, 47B0555, 47B0559
 whole sediments, 870898
 see also carbonate
 carbon cycle, 47B0477
 Atlantic Ocean NW, sedimentary evolution, 430799
 carbon, organic, geochemistry, 750828
 sedimentary record, changes, 850765
 sedimentation rate, Pliocene, 901380
 stratigraphy
 carbon, organic, 680350
 carbonate, 680357
 Colon Ridge, 380353, 680360
 tectonic history, depositional environment, 430799
 carbon dioxide, 870884, 960782, 960783
 Angola Basin, 750820
 organic geochemistry, 750990
 Atlantic continental margin
 interstitial water chemistry, 050513, 050521, 070884, 080853, 080855, 090843, 101011, 140763, 140765
 lower continental rise, 100791
 sediments, 100791
 Atlantic Ocean, margin, 481110, 481113
 basalt, altered
 geochemistry, 580793
 petrochemistry, 580793
 bitumen, carbon, organic, 090857
 Black Sea, sediments, 42B0661
 Blake Ridge, 200869
 ¹³C, 42B0618
 carbon, 111059
 carbon isotope, 760391, 760403
 release, 290803
 carbon, organic
 diagenesis, 670610
 stable isotopes, 711057
 carbonate, 111059
 carbon isotope, 170505
 carbon, organic, 711056, 711060
 ¹⁸O, 42B0618
 oxygen isotope, 170505
 stable isotopes, 711058
 carbonate, diagenetic, isotopic survey, 630595, 630606
 carbonate, secondary, vein, 580905
 Cenozoic paleotemperatures, release, 47B0508
 Colombian Basin, isotope stratigraphy, 680450
 diagenesis, 760391, 760397, 760401, 760405
 gas hydrate, 960783
 helium, 670591
 hydrogen, 670591
 production, 670611
 gas, interstitial
 geochemistry, 640783, 640786, 640787
 sediments, 410861
 gas, natural, zonation, 110797
 geochemistry, 040652
 relationship to possible *in situ* activity, 960771
 Goban Spur, evolution, 801210
 hydrocarbon, gaseous, 500615
 Indian Ocean W, interstitial water, 250362
 interstitial water, 060811, 060827, 111006, 200773, 200865, 200866, 200867, 200868, 280812, 870869
 isotopic measurements, 200775, 200776
 major ions, 200808
 total dissolved, 071756
 interstitial water, geochemistry, Baja California, 640679
 isotopes, interstitial water, 200775
 isotopic composition, 200773
 limestone, Cretaceous, 620882
 lithology, 380120
 methane, carbon isotope, 42B0667, 500615
 methanogenesis, sediments, 640760
 methanogenic reduction, 960694
 microorganism experiment, ¹⁴C, 960770
 Mid-Pacific Mountains W, Aptian sediments, 620909, 620915
 Middle America Trench
 continental slope, 670591
 transect, 670610, 670611
 Mississippi Fan, organic matter, 960748, 960752
 molecular, isotopic analysis, 960781
 mud, terrigenous, organic geochemistry, 400557, 400561
 Nankai Trough, 870857
 Japan Trench, 870866
 sediments, 870857, 870858
 nannofloral analysis
 formation, 711060
 generation, 711060
 New Jersey, wedge toe, 950638
 Orca Basin, methane, 960777, 960778
 organic geochemistry, 640718, 640820
 oxygen isotope, release, 290803
 Pacific Ocean, bottom sediments, 571315
 Pacific Ocean SE, convective fluid flow, 920419
 petroleum generating potential, sediments, 42B0729
 production, 760400, 760401
 protokrogen, hydrothermal effects, 640905
 release, stored sediments, 200851, 200852, 200853, 200854, 200856, 200860, 200861
 sediments, 760391
 Blake Ridge, 760357, 760363, 760375,

- sediments (Cont.)
 760382, 760384, 760392, 760399, 760403
 shale, organic geochemistry, 400557, 400561
 Southeast Pacific Basin, evolution, geologic, 350736
 southwest regional unconformities, atmospheric, 210717
 stable isotope, carbonate, 650384
 sulfate-reducing, methane producing microorganism, 960773
 Timor Trough, ooze, nannofossil, 271011
 whole sediments, organic origin, 870898
see also CO₂
 carbon dioxide, biogenic
 Atlantic continental margin, interstitial water chemistry, 140765
 isotopic composition, Messinian sediments, 42A0637
 carbon dioxide, dissolved
 Atlantic continental margin, interstitial water chemistry, 050521
 carbon isotope, ¹³C, 410961
 interstitial water, 200865
 oxygen isotope, carbon isotope, 410961
 pore water chemistry, 960692
 carbon dioxide/methane ratio, methane, carbon isotope, 42B0667
 carbon, dissolved inorganic
 Atlantic Ocean NE, stable isotope, 480484
 limestone, stable isotope, 150802
 carbon, dissolved organic, 960729
 interstitial water
 anaerobic microbial activity, impact, 960732
 microbial processes, 960732
 Mississippi Fan, 960732
 Orca Basin, 960732
 Pigmy Basin, 960732
 strong concentration gradients, 960732
 sulfate, 960732
 interstitial water, organic geochemistry, 640933
 Guaymas Basin, 640934
 Mississippi Fan
 channel, 960731
 interstitial water, 960729
 Orca Basin, 960729, 960730
 interstitial water, 960729
 maximum, 960730
 vertical distribution, 960730
 organic geochemistry, 640720
 Pigmy Basin, 960731
 interstitial water, 960729
 pore water chemistry, 960692
 stable isotope, carbonate, 650383
 sugar, 960732
 sugar, dissolved, 960729
 carbon, heavy
¹³C, CO₂, 870677
 carbonate, stable isotope, 42A0653
 carbonate, diagenetic, isotopic survey, 630597, 630604, 630605
 carbonate nodule, Middle America Trench, 660461
 chemical data, hydrocarbon, C₁₅, 670597
 Guatemala, Pacific margin sediments, 670595
 hydrocarbon, C₁₅-C₂₆, bitumen, 800974
 hydrocarbon generation potential, 660541
 organic matter, 660541, 670595, 670597
 isotopes, 590634
 Mediterranean Sea, Messinian salinity crisis, 42A0653
 Pacific Ocean, bottom sediments, 571315
 Pacific Ocean SE, convective fluid flow, 920419
 paleoceanography, Miocene events, 850768
 petroleum generating potential, organic matter, 571327
 carbon, inert
 hydrocarbon, extractable, organic petrology, 640849
 Mid-Pacific Mountains W, Aptian sediments, 620914
 organic matter
 Aptian-Jurassic, 711018
 Tertiary-Albian, 711021
 carbon, inert organic
 hydrocarbon, extractable, organic petrology, 640844
 shale, Aptian-Barremian, 711021
 carbon, inorganic, 42B0627
 California, Gulf of, gulf mouth, 650431, 650433
 carbonate, secondary, vein, 580906
 hydrocarbon, extractable, organic petrology, 630820, 630826
 interstitial water, organic geochemistry, 640933
 nitrogen, 42A1221
 Pacific Ocean, bottom sediments, 571313
 Rockall Plateau, sediments, 810813
 sediments, radioactive elements, 42B0627
 carbon, insoluble, 090797, 151129
 petroleum generating potential, sediments, 42B0729
 carbon isotope, 130796, 230939, 230941, 290801, 290803, 290806, 300419, 300420, 300421, 410957, 410961, 410962, 42A0483, 430695, 440567, 440568, 47B0477, 480741, 480751, 500615, 571285, 710418, 710419, 720412, 800808, 810872, 850730, 850739, 850749, 850771, 850774, 860515, 860524, 860525, 860526, 901353, 901355, 901383, 901401, 950647, 950650, 960777
 abyssal plain, cyclic sedimentation, 801078, 801079
 acetate-type fermentation, 950649
 age, deep water, 410962
 alkalinity, 950649
 alteration, ¹⁸O, 720412
 Angola Basin, Cretaceous sediments, 751053
 Antarctica
 glaciation, 290754
 ice sheet, 290806
 Aragonia, 860516, 860525
 aragonite, 230941
 Atlantic continental margin, interstitial water chemistry, 111009, 140763, 170515
 Atlantic Ocean
 bottom water, 850771
 margin, 481112
 Pacific Ocean, 850771
 Quaternary sediments, 680455
 Atlantic Ocean C, 410957
 Atlantic Ocean N, 430695, 940981
 benthic foraminifers, cycles, 850771
 benthic record, comparison, 850730
 bottom water, 850774
¹³C, 850771
 Pacific Ocean, 850772
 sediments, 760477
 Atlantic Ocean NE, 940981, 950981
 stable isotope, 480477, 480484
 Atlantic Ocean NW, 930989, 931003
 oxygen isotope, 850772
 Pacific Ocean NW, 850774
 Atlantic Ocean S
 benthic foraminifers, 850771
¹³C, 850774, 901401
 Cenozoic paleoceanography, 730779
 Eocene-Oligocene, 730725
 Atlantic Ocean SE, stable isotope, 730718, 730720
 bacterial origin, 950649
 Barbados Ridge, basalt, 780387, 780391
 basalt, 230941
 Barbados Ridge, 780387, 780391
 basalt, altered, carbonate, 580913
 benthic assemblages, taxa analyses, 850771
 benthic foraminifers, 410957, 410961, 410962, 800805
 Antarctic Bottom Water, 800814
 glacial-interglacial cycle, 800814
 Goban Spur, 800814
 North Atlantic Deep Water, 800814
 Rio Grande Rise, 800814
 temperature decrease, significance, 800814
 Bermuda Rise, basalt, 511149
 bicarbonate, dissolved, 290806
 ion, 710418
 biomass, continental, 710418
 Biscay, Bay of, ¹³C, 850774
 bitumen, 440646
 Black Sea
 methane, 42B0667
 sediments, 42B0661
 Blake Basin, sediments, 760477
 Blake Ridge
 CH₄, 760403
 CO₂, 760403
 sediments, 760403
 Blake-Bahama Formation, 931003
 bottom temperatures, 410960
 measured isotopic range, 410961
 bottom water
¹³C, 850771, 850774
 formations, 901401
 North Atlantic Deep Water, 850771, 850775
 temperature, 850771
 temperature fluctuations, 410962
 Briançonnais zone, Sourelion section, 440571
 brine, 230942
Bulimina, 860517, 860526
 burial depth, 850773
¹³C
 Atlantic Ocean, 720415, 901401
 bottom water, 901401
 changes, 901401
 circulation, oceanic, 720415
 Cretaceous/Tertiary boundary, 720414, 720415
 cycle causes, 850771
 decrease, 850774
 depletion, 720415, 950647
 divergence, 901369
 euphotic zone, 720415
 global changes, 850771
 Gubbio, 720415
 Indian Ocean, 901401
 isotopic ratio, gradual decline, 720414
 kinetic fractionation, 950649
 lithification, 720412
 maximum, 850739
 modern deep-sea, 850771
 negative excursion, 720415
 Oligocene-Miocene cycles, 850771
 Paleocene/Eocene boundary, 720414
 planktonic isotopic change magnitude, 901369
 regression, 720415
 Rio Grande Rise, 720415
 salinity, 720415
 sea floor, 410961
 sea level, 720415
 shift, 720412
 synoptic offsets, 850771
 Tethys, 720415
 upwelling, 720415

- ¹³C (Cont.)
 variation, 850771
 worldwide oceanic phenomena, 230941, 410961, 440568, 440571, 480751, 710418, 720412, 720415, 950647
 calcareous microfossils, 860515
 calcareous nannofossils, stable isotopic ratios, 720412
 calcium, 230939
 Campbell Plateau, 901350
 Cape Basin
 Cretaceous/Tertiary boundary, 730760
 Cretaceous/Tertiary isotope data, 730753
 Cape Bojador, carbon, 47B0554, 47B0559
 caprock, 010486
 gas, 010463, 010467
 carbon, 290806
 continental/oceanic reservoirs, 901401
 deep-sea sediments, 580752
 geochemistry, 310916, 380797, 42B0717, 42B0718, 42B0721, 440606, 440611, 440614, 500625, 571319, 571324, 590642, 590644, 590645
 carbon dioxide, 760391, 760403
 release, 290803
 carbon flux changes, 901401
 carbon, organic, 710418, 950649
 stable isotopes, 711054
 carbonate, 230939, 230940, 230941, 300420, 320896, 42A0483, 440567, 440568, 47B0477, 480741, 500669, 870669
 burial depth, 170506
 chalk, 170505
 chemistry, 870669
 cold-water influx, 130797
 connate water, 170507
 continental origin, 500670
 correlation, 850730
 deep sea origin, 870669
 deposition, 130796, 170506
 diagenesis, 130796, 130798, 170505
 diagenetic, 630597
 fossil preservation, 320899
 interstitial water, 170507
 intrusion, volcanic, 170505
 isotopic event, global, 170506
 isotopic ratio, 720412
 Jurassic, 410937
 light isotope enrichment, 500669
 limestone, 170505
 lithification, 170506, 320904
 Magellan Rise, 170505
 Miocene to Recent, 130796
 Miocene-Pliocene unconformity, 130797
 Neogene, 130788
 ooze, calcareous, 170505
 pelagic sediments, 170505
 producers, 720412
 Red Sea, 230939
 redeposited clastics, 760817
 sapropel horizons, 130797
 sedimentation rate, 170506
 silicate, 170506
 stable isotope, 42A0653, 711054
 surface water, 130798
 temperature change, 170506
 volcanism, 170505
 carbonate, authigenic, dolomite, 870673
 carbonate, diagenetic, isotopic survey, 630595, 630597, 630601, 630604, 630605, 630607
 carbonate mineral, 130788
 carbonate nodule, 680483
 carbonate, secondary, vein, 580907, 580909
 Caribbean Sea
 interstitial water, 200891
 Quaternary sediments, 680455
 silicate, 200891
 cementation, 720412
 Cenozoic isotopes, 480743
 Cenozoic paleotemperatures, paleotemperature, 47B0509
 CH₄
 Blake Ridge, 760403
 Middle America Trench, 840693
 chalk, nannofossil, Eocene, 300419
 Challenger Plateau, 901352
 Quaternary, 901423
 Chatham Rise, Quaternary, 901425
 chronology, chronology datum levels, 901362
Cibicidoides, isotopic analyses, 850772
 circulation, ¹³C-enriched, 850774
 circulation, abyssal
 ¹³C, 850772
 changes, 850771
 development, 940981
 circulation, deep-water, patterns, 901401
 Colombian Basin, isotope stratigraphy, 680448, 680452
 comparison, regions, 410957
 continental hypsometry change, 901401
 continental rise, lower, 931003
 Coral Sea Basin, chalk, nannofossil, 300419
 Costa Rica Rift, 690440
 ¹³C, 690439
 Pleistocene base, 690439
 Pliocene record, 690439
 Costa Rica Rift Zone
 basalt, 830284
 stockwork-like zone, 830271
 Cretaceous
 cyclic sedimentation, 770348
 Pacific Ocean N, 170591, 320509
 Shatskiy Rise, 320509
 Cretaceous foraminifers, Pacific Ocean N, 170591
 Cretaceous isotopes, 480742
 Cretaceous sediments, 930989
 Cretaceous-Paleocene transition, 480743
 Cretaceous/Tertiary boundary, 860524, 860525
 cyclic variability, 850730
 D/H, 950647, 950649
 methane, biogenic, 950649
 Danian, 860526
 deep dwelling planktonic foraminifers, 410962
 deep-living planktonic species, 410961
 deuterium isotope, depletion, 950647
 diagenesis, 300419, 950649
 effect, 850773
 oxygen isotope, 300420
 diagenetic change, 300422
 diagenetic phenomena, 720412
 diffusion, 950649
 disequilibrium effects, 410961
 dissolution, twin event Gu3, 850730
 dolomite, 230941
 Eocene-Oligocene, Atlantic Ocean S, 730725
 equilibrium, 290806
 ethane, 950647, 950649
 evaporite, carbonate, Mediterranean Sea, 130788
 Falkland Plateau, shale, black, 711053
 faunas
 chalk, nannofossil, 410960
 deposition, cyclic, 410960
 foraminifers, 410958
 carbon isotope ratio, 170591, 170601, 170602
 Miocene species, depth stratification, 170591, 170592, 170599
 motion, 170601
 paleotemperature, 170599, 170600, 170601
 temperature, 410960
 zonal stratigraphy, 170591
 Galicia Bank, carbonate, 47B0477
 gas
 compositions, 950647
 fractionation, 960783
 molecular, isotopic analysis, 960781
 New Jersey Transect, 950647
 gas, biogenic, absence, 950649
 gas, biogenic hydrocarbon, 950647
 gas hydrate, fractionation, 960783
 gas, interstitial, geochemistry, 640781, 640783, 640786, 640787
 geochemistry, 710412, 710413
 glacial cycles, deep-sea environment, 800811
 glaciation, Pliocene, 850723
 Goban Spur, planktonic foraminifers, 800793
Guembelitra, 860515
 Hatton Drift, 810872
 HCO₃, oceanwide changes, 901401
 Hess Rise, 621044, 860515
 Albian sediment, 620939
 microfossils, 320509
 hydrocarbon, 950647, 950649
 origin, 950647
 hydrogen, formation water, 950649
 hydrogen isotope, 950650
 seawater, 950649
 Iberian margin, carbonate, 47B0477
 ice, volume, 850771
 Indian Ocean, 260613
 interbasinal comparisons, 850771
 intermediate depth temperatures, thermocline, 410961
 interstitial, hydrogen isotope, 950649
 interstitial water, 010403, 020367, 030663, 050501, 151069, 440571, 590631
 carbonate, authigenic, 200896
 chemistry, 200891
 Neogene, 130788
¹⁶O/¹⁸O, 200893
 interstitial water chemistry, 950647
 interstitial water, geochemistry
 Baja California, 640679
 Guaymas Basin, 640689
 intraslope basin organic matter, 960755
 isotope stratigraphy, 850762, 850764, 850864
 isotope studies, Tertiary benthic foraminifers, 850771
 isotope variability, Caribbean Sea, 680455
 isotopic analyses, 850772
 isotopic composition, 290806
 isotopic equilibrium, paleotemperatures, 290802
 deviation, ocean isotopic composition, 290803
 oxygen isotope, 290802
 isotopic record, 290803
 temperature stability, 290805
 isotopic reequilibration, lithification, 720412
 isotopic study
 calcite, 590634
 carbonate, biogenic, 590634, 590637
 carbonate, sedimentary, 590631
 hydrothermal alteration, 590637, 590638
 tuff, 590634
 isotopic variation, 850730
 Jurassic isotopes, 480742
 kerogen, sediments, 410843
 Lago Mare, 42A0652
 limestone
 Cretaceous, 620884, 620885
 stable isotope, 150799, 150801, 150802
 lithification, 300420, 720412

- Lord Howe Rise C, ^{13}C , 901391, 901397
 Lord Howe Rise S, 901352
 low-frequency variations, 850739
 macrofossils, 931003
 Maestrichtian, 860526
 Magellan Rise, 170505
 carbonate, 170505
 magnesium, 230939
 Mazagan Plateau, 790385, 790393
 Mediterranean Sea, 130794, 42A0829
 Messinian environments, Lago Mare, 42A1023
 methane, 950647, 950649
 Black Sea, 42B0667
 $^{12}\text{C}/^{13}\text{C}$ ratio, 42B0667
 ^{13}C , 950649
 CO_2 reduction, 950650
 composition, 960777
 gas, 42B0667
 generation, 950649
 organic material, immature stage, 42B0667
 oxidation, 950649
 oxidation, bacterial, 42B0667
 sediments, 760404
 methane, biogenic, 950650
 methane-formation waters, D/H ratios, 950649
 methanogenic pathways, 950649
 Mexico, Gulf of
 ^{13}C , 850774
 nonvolatile organic matter, 960747
 regional aspects, 010626
 Mid-Atlantic Ridge, 590637
 Middle America Trench
 CH_4 , 840693
 CO_2 , 840693
 Miocene
 atmosphere, ocean, 850768
 chemostratigraphy, 850768
 climate, 850768
 Pacific Ocean C, 850749
 Miocene isotopes
 ^{18}O , 480746
 temperature increase, 480746
 Miocene, Pliocene, 42A0829, 42A0830,
 42A0833, 42A0835, 42A0836
 bottom water, 42A0834
 salinity, 42A0835
 surface water, 42A0835
 temperatures, 42A0833
 Miocene sediments, 42A0483
 Miocene-Pliocene isotope stratigraphy,
 901383
 shift, 901403
 Mississippi Fan, organic matter, 960755
 modern conditions, analogous, 850775
 Moroccan Basin, 500669
 mud, terrigenous, organic geochemistry,
 400557, 400558, 400561, 400566, 400567,
 42B0749
 mudstone, black, Cenomanian-Turonian, 801079
 Neogene, 42A0829, 901401
 excursion, 901402
 Neogene oceanography, global shift, 901380
 New Jersey Transect, 950647, 950805
 gas, 950647
 hydrocarbon, 950647
 methane, 950650
 nickel, 950647
 nitrogen, deep-sea sediments, 580752
 North Atlantic Deep Water, carbon, 850771
 nutrient gradients, 860524
 ocean chemistry, 710418
 ocean isotopic composition, 410957
 deep-water temperatures, 410958
 salinity, 410958
 surface temperatures, 410958
 oceanic compositional changes, 901401
 oil, 010486
 gas, 010463, 010467
 Oligocene, 410957, 850772, 850774
 Oligocene isotopes, 480744
 temperature differences, 480746
 Oligocene-Miocene offset, 850771
 Orca Basin, methane, 960777
 organic chemistry, Nankai Trough, 870888
 organic geochemistry, 410815, 640820,
 640821, 640877, 960691
 Guaymas Basin, 640944, 640948
 organic matter, 500577
 amber, 500582
 bitumen, 500579, 500581
 plant fragments, 500582
 organic matter, insoluble, 440646
 organic matter remineralization, 950649
 oxidation, organic matter, 410961
 Pacific Ocean
 benthic foraminifer cycles, 850771
 bottom sediments, 571313, 571314, 571315,
 571316
 bottom water, 850771
 Pacific Ocean C
 Atlantic Ocean N, 850775
 interstitial water, 071756
 Miocene, 850749
 oxygen isotope, 850771, 850772
 Pacific Ocean E, stratigraphy, 680455
 Pacific Ocean EC, carbonate, 680483
 Pacific Ocean N
 Cretaceous, 170591, 320509
 Cretaceous foraminifers, 170591
 Tertiary, 170591, 320509
 Tertiary foraminifers, 170591
 Pacific Ocean NE, ^{13}C , 901401
 Pacific Ocean NW
 Cretaceous, 320509
 stratigraphy, 860503
 Tertiary, 320509
 Pacific Ocean S, ^{13}C , 901401
 Pacific Ocean SE, convective fluid flow,
 920419
 Pacific Ocean SW
 Cenozoic, 901513
 paleoceanography, 901503, 901507
 stratigraphy, 901383
 paleoceanography
 Chron, 6, 850966
 Miocene events, 850767
 Pliocene, 720899
 Paleocene, Eocene, Oligocene isotopes
 temperatures, 480744
 upwelling, 480744
 Paleocene temperatures, 430695, 430696,
 430697, 430700, 430702, 430703, 430714
 paleoclimate, change, 901401
 paleoenvironment, *Globigerina bulloides*,
 800818
 paleoenvironmental indicator, 850771
 Philippine Sea, vein, carbonate, 580913
 phosphate, 710418
 Pigmy Basin, carbonate, 960671
 planktonic foraminifers, 410957, 710419
 Cretaceous/Tertiary boundary, 860515,
 860524
 planktonic foraminifers, cycles, 850771
 Pleistocene sediments, 42A0483
 Pliocene, 42A0829
 ^{13}C , 901403
 ice, 901403
 Mediterranean Sea, 901403
 transgression, 901403
 warming, global, 901403
 Pliocene, Pleistocene isotopes, 480746
 pore water, Red Sea, 230939
 preservational states, range, 850773
 pyrite, 230941
 Quaternary isotopic record, stratigraphy,
 680464
 ratio, 710418
 Red Sea
 carbonate, 230939
 geochemistry, 230987, 230988
 pore water, 230939
 silicate, 230939
 regression, 901401
 Rio Grande Gap, climate, 720913
 Rio Grande Rise, regional setting, 390911
 Rockall Plateau, sediments, 810815, 810819
 Rockall Rise, carbonate, 47B0485, 47B0489
 goglobigerina, 860515
 salinity, 230939
 sand, glauconitic, 950649
 sea level, 850771, 901401
 change, 901401
 sediment, 931003
 sedimentation rate, Pliocene, 901377
 sediments, 410960, 760391
 Atlantic Ocean N, 760477
 Blake Basin, 760477
 Blake Ridge, 760363, 760381, 760384,
 760385, 760386, 760394, 760397, 760403
 shale, organic geochemistry, 400557,
 400558, 400561, 400566, 400567, 42B0749
 Shatskiy Rise
 microfossils, 320509
 Tertiary, 320509
 shift, Miocene, 901375, 901376, 901402,
 901403
 silicate, 230939, 230940
 interstitial water, 200891
 Red Sea, 230939
 Southeast Pacific Basin, evolution,
 geologic, 350736
 stable isotope, 290801, 350497, 350504,
 410957
 basalt, 350504
 carbonate, 350501
 stable isotope analysis, 800797
 ^{13}C , 800797, 800802
 Gulf Stream, 800802
 Indian Ocean, 800794
 Olduvai Subchron, 800802
 surface water, 800802
 stable isotope ratio, carbonate, 511155
 stratigraphic utility, 850771
 stratigraphy, 390911, 390912, 390920,
 800817, 850730
 Atlantic Ocean, 680455
 Caribbean Sea, 680455
 characteristics, 901401
 faunal changes correlated with
 temperature change, 390916, 390919,
 390920
 fossil character, 390912
 Miocene to Pliocene, 901383
 ocean isotopic composition, 390912
 Pacific Ocean E, 680455
 Pacific Ocean NW, 860503
 planktonic foraminifers, 390916
 temperature record, 390914
 Tertiary, 390911
 strontium, 480751
 anomaly, 440567
 sulfate
 concentrations, 950649
 Neogene, 130788
 sulfate, dissolved, 950649
 sulfate-reducing bacteria, 950649
 sulfur, geochemistry, 310916
 surface temperature maxima, 410962

- surface temperatures
 planktonic species, 410961
 salinity-related isotopic variations, 410961
 surface water
 ^{13}C , 410962, 720412, 901401
 paleotemperature, 290806
 planktonic species, 410962
 stratification, 410962
 Tasman Sea S, Quaternary, 901413
 temperature history, 410957
 temperatures, 440568
 Tertiary, 850771
 Pacific Ocean N, 170591, 320509
 Shatskiy Rise, 320509
 thermal changes, timing, magnitude, 410957
 trace elements, 480727
 transgression
 continental shelf, 901401
 regression, 720412
 Vigo Seamount
 carbon, 47B0554, 47B0559
 carbonate, 47B0485, 47B0489
 volcanics, Hess Rise, 620972
 Walvis Ridge, 740599, 740613
 warming, global, 901401
 see also ^{13}C
 carbon isotope ratio, 071756
 Atlantic continental margin, interstitial water chemistry, 100613
 Atlantic Ocean, margin, 481112, 481113
 Balearic Plain, hydrocarbon, 130815
 Blake Basin, sediments, 760431
 California, Gulf of
 elemental compositions, 640905
 protokrogen, 640905
 carbon, geochemistry, 410849
 carbonate, Japan Trench, 870669
 Cenozoic paleotemperatures, 47B0507
 Costa Rica Rift Zone, basalt, 830235
 dacite, conglomerate, 571285
 hydrocarbon, gas, 181014
 interstitial water, chemistry, 071756
 Japan Trench, carbonate, 870669
 lipid, shale, black, 410858
 methane, carbon isotope, 42B0667
 organic geochemistry, Angola Basin, 750464
 protokrogen, California, Gulf of, 640905
 rhyolite, conglomerate, 571285
 sediments, Blake Basin, 760429, 760430
 carbon isotope, stable, 200891, 410938, 410943
 basalt, 410937, 410938
 recrystallization, high temperature, 410940
 sediment shift, 410940
 weathering, 410947
 burial, lithification, 410937
 burial depth, 410947
 C/P ratio, ocean water, 410947
 carbon, 410938
 geochemistry, 571319, 590641
 carbon, dissolved inorganic, isotopic composition, 410947
 carbon isotope, 410945
 C/P ratio, 410947
 carbonate-rich zones, 410945
 circulation, oceanic, 410946
 organic matter oxidation rate, 410946
 temperature, 410946
 carbon, organic, sediments, 410947
 carbonate
 carbon isotope, 410947
 clay, 410947
 fossil preservation, 320901, 320902, 320903
 isotopic composition, 410938
 vein, 410947
 chalk, 410943
 chert
 formation, 410943, 410944
 nodule, 410947
 chertification, 410947
 clay
 effect, 410944, 410945
 fluid movement, 410947
 pore water chemistry, 410947
 pressure solution, 410947
 claystone, calcareous, 410937
 diagenesis, 410938
 gas, interstitial, sediments, 410862
 geochemistry, 260613, 260614
 Indian Ocean SE, 260617
 ion diffusion rate, 410943
 limestone, 410943
 Cretaceous, 620882
 limestone, clayey, 410937
 lipid, shale, black, 410857
 lithification, 410943
 mud, terrigenous, organic geochemistry, 42B0752
 ^{18}O , depletion, 410943, 410947
 organic geochemistry, 640718, 640880
 Cabo San Lucas, 640879
 Guaymas Basin, 640942
 gulf mouth, 640879
 oxygen, 410938
 Pacific Ocean, bottom sediments, 571315
 pressure solution, 410943
 primary variation, depth, 410947
 protokrogen, hydrothermal effects, 640905, 640908, 640909, 640910
 recrystallization, 410943, 410947
 higher temperature, 410947
 recrystallization, low-temperature, 410947
 sedimentary sequences, 410937
 shale, organic geochemistry, 42B0752
 silicate, authigenic, 410947
 temperatures, 410943, 410947
 Tyrrhenian Rise, carbonate, 130796
 vein filling, carbonate, 410938
 carbon, light
 carbonate, 711057
 carbonate, diagenetic, isotopic survey, 630604, 630605, 630607
 carbonate nodule, Middle America Trench, 660462
 gas, 960783
 Hess Rise, Albian sediment, 620941
 hydrocarbon, gaseous, isotope, 500619
 isotopic study
 hydrothermal alteration, 590638, 590639
 isotope, 590634
 laminated/nonlaminated sediments, organic geochemistry, 640922
 methane carbon, isotopic composition, 500619
 ^{18}O , CO_2 , 870677
 organic geochemistry, carbon isotope, 640821
 carbon, mineral
 claystone, Cretaceous, 440594
 Falkland Plateau, 711001
 limestone, stable isotope, 150802
 carbon number
 Atlantic Ocean N, lipid, 500656
 caprock, organic matter, 010469
 carbon, geochemistry, 610623
 chemical characterization, oil, crude, 711049
 humic acid
 oil, crude, 711049
 petroleum, 711049
 hydrocarbon, aromatic
 kerogen, 711049
 molecular type, 711046
 hydrocarbon, extractable, organic petrology, 630821, 630824, 630827, 630828, 630832, 640841, 640850
 kerogen, organic geochemistry, 640887, 640890, 640894, 640899, 640902
 laminated/nonlaminated sediments, organic geochemistry, 640922
 limestone, Albian, 620925, 620931
 lipid
 acyclic components, 610614, 610615
 fatty acid, bound, 571381, 571382
 fatty acid, free, 571381, 571382
 hydrocarbon, aromatic, 571373
 organic geochemistry, 640887, 640890, 640894, 640899, 640902
 Mesozoic sediments, organic matter, 360941
 mud, terrigenous, organic geochemistry, 42B0751
 oil, organic matter, 010469
 organic geochemistry
 Cabo San Lucas, 640879
 gulf mouth, 640877
 lipid, 630839
 molecular markers, 630840
 odd-number predominance, 271296
 preliminary organic analyses
 even/odd predominance, 111022
 predominance, 111021
 shale, organic geochemistry, 42B0751
 shale, black, Cretaceous, 410866
 tetrapyrrole, geochemistry, 630785, 630793, 630794, 630804
 carbon, organic, 220671, 42B0627, 42B0628, 500555, 620869, 630965, 711001, 711003, 711008, 720833, 410821, 621043, 621044, 700336, 730537, 740731, 750971, 750987, 750990, 750994, 751035, 751040, 751041, 780388, 800983, 800994, 810867, 870878, 931187, 950667, 960786
 abyssal plain
 cyclic sedimentation, 801078
 inorganic geochemistry, 801074
 abyssal plain sediment, 800983
 accumulation rate, 720834, 780388, 870878
 Africa SW, continental margin, 400472
 Agadir Canyon, 790803
 alteration, 740731
 alteration, diagenetic, organic matter, 571305, 571306
 amino acid, 42B0704
 correlations, 42B0703
 lipid, 42B0698
 sugar, 42B0703
 ammonia, Pacific Ocean SE, 920424
 ammonium, 720834
 Angola Basin, 751003, 751031
 Atlantic Ocean, 750819
 bitumen, 751033
 Cretaceous, 750819, 751009, 751010, 751014, 751017, 751018
 Cretaceous sediments, 751051, 751053
 decrease, 751006
 evolution, geologic, 750510
 geochemistry, 750847, 750967
 geologic evolution, 750519
 isotopic composition, 751051
 organic geochemistry, 750987, 750990
 supply, 750820
 anoxia, global, evidence against, 801002
 Arabian Sea, sediment history, 230517
 Assemblage IA(+), decrease, 710394
 Atlantic Ocean
 Cretaceous, 750820, 750823, 750826, 750828, 750830, 750833, 750834, 750835,

- Atlantic Ocean (Cont.)
 750837, 750838, 750839
 geochemistry, 47B0432, 47B0436
 margin, 481102, 481104
 mineralogy, 47B0432, 47B0436
 Atlantic Ocean C, carbon, 101059
 Atlantic Ocean N, 931187
 Cretaceous sediments, 510737
 Goban Spur, 801007, 801008
 petroleum generating potential, 38S0672
 Atlantic Ocean NE, evolution, 411218, 411242
 Atlantic Ocean NW, sedimentary evolution,
 430793, 430797
 Atlantic Ocean S, 720833, 750967
 carbonate, 040314
 Cretaceous, 720980
 geochemistry, 750967
 Mesozoic, 751035, 751036, 751037, 751039,
 751040, 751041
 Quaternary sediments, 720833
 upwelling, 750905
 Atlantic Ocean SE, isotopic composition,
 751051
 Atlantic Ocean SW, basin, evolution, 361000
 Atlantic Ocean W, 931245
 autochthonous bioproductivity level, 870880
 Barbados Ridge, 780385, 780387
 barite, authigenic, origin, 410921
 basalt
 intrusion, 580741, 580742, 580743
 petrochemistry, 450479
 petrology, 580848
 beef-in-shale, 360865
 biological system, 720834
 bioturbation, 901197
 Biscay, Bay of
¹³C, 101115, 101120, 121116
 continental margin, 480931
 shale, black, 480955
 bitumen, 090857, 440645, 440646, 571331
 geochemistry, 42B0684
 Black Sea
 interstitial water, 42B0650
 organic geochemistry, 42B0755, 42B0756,
 42B0757, 42B0763
 sediments, 42B0385, 42B0387
 Blake Basin, 760772
 sediments, 760464, 760471, 760472,
 760473, 760474
 bottom deposits, poor preservation, 720834
 bottom water, oxygenated, 720833, 740735
 Brazil Basin, 720821, 720823
 C/N ratio, 720834
 CCD, 720834
 geochemistry, 720421
 bulk organic matter, reliable indicators,
 720834
 burial, rate, 740731
 burrow mottling, silt, 291052, 291056
 C/N, atomic ratios, 800995
 C/N ratio, 720834, 740731, 740732
 surficial marine sediments, 720834
 calcareous interval, 711001
 California, continental margin, 630757,
 630759, 630760
 California, Gulf of
 gulf mouth, 650431, 650433, 650436
 ooze, diatomaceous, 641263
 Cape Basin, shale, black, 711030
 Cape Bojador
 continental margin, 47A0779, 47A0780,
 47A0781
 geochemistry, 500026
 sediments, 410817, 410818
 Cariaco Basin, 200905
 Cariaco Trench, interstitial water, 200905
 chert, 320434
 oxygen isotope, 620750
 chlorophyll, diagenesis, 42B0708, 571391,
 571392, 571395, 571399, 571406
 clastic sediment, Cretaceous, 401030
 clay
 deposition, 291056
 infauna, 291052
 turbidite, 870878
 clay minerals, 42A0459
 Tertiary, 291081
 clay, terrigenous, 291060, 291148
 burrow mottling, 291149
 claystone, Cretaceous, 440594
 claystone, sapropelic, 360884
 Cocos Plate, sediments, 670609
 cone-in-cone texture, 360865
 contact metamorphism, kerogen, 410821,
 410822
 continental margin, inorganic geochemistry,
 801073
 continental margin, preservation,
 paleoenvironment, 630945
 burial depth, 630945
 continental margin sediments, claystone,
 280733
 Costa Rica Rift, 690443, 690449
 Cretaceous, ¹³C, 121115
 cycle description, 750920
 accumulation rate, 750909
 CaCO₃, 750913, 750919
 carbonate, 750907, 750908, 750909
 productivity, 750920
 upwelling, 750920
 cycles
 shale, black, 711051
 Walvis Ridge, 750905
 cyclicity, 810867
 Daito Basin, organic geochemistry, 580989
 Daito Ridge, organic geochemistry, 580989
 decay rates, 780388
 decrease, 740736
 decrease with depth, 780388
 deep-sea trench, sedimentary facies, 670610
 deposition
 chalk, nannofossil, 250495
 depositional paleoenvironment, 250497
 models, 750835, 750836, 750837, 750838,
 750840, 750841
 ooze, nannofossil, 250495
 oxic environment, 870880
 diagenesis, 310621, 670610, 740731, 920349
 thermally controlled, 630945, 630947
 diatom paleoceanography, paleoclimatology,
 sea floor amounts, 850944
 East Mariana Basin, sedimentary history,
 890664
 environment, 42A0447, 42A0452, 42A0455
 clay minerals, 42A0459
 sapropel, 42A0459
 Eocene organic matter preservation, 950667
 euxinic sediment, Cenozoic organic
 sediments, 750852
 Falkland Plateau, 711001, 711003
 cycles, 711051
 humic compounds, 711006
 hydrocarbon, 711033
 shale, black, 711051
 Falkland Plateau E, sedimentation, 360884
 fan, submarine, margin, 960752
 fatty acid, 740731, 740735
 Angola Basin, 740734
 Atlantic Ocean SW, 740735
 California Borderland, 740734
 Middle America Trench, 740734
 fluctuations, 680361
 accumulation rate, 680361
 gas, 960782
 canned sediment samples, 210721, 230971
 gas hydrate, 670610
 trench slope, 670605, 670608
 gas, interstitial, sediments, 410862
 geochemical component grouping, 801077
 metal complexes, 801077
 mudstone, black, 801077
 geochemistry
 Atlantic Ocean, 750967
 Atlantic Ocean S, 750967
 biogenic calcareous sediments, 390487
 biogenic material, 060837, 060838
 biological productivity, 390488
 burial, 390488
 California, Gulf of, 640696
 Cenozoic sediments, 42B0543, 42B0545,
 42B0551, 42B0554, 42B0559, 42B0585,
 42B0586, 42B0587, 42B0590, 42B0592,
 42B0594, 42B0599
 claystone, red variegated, 440509
 conglomerate, 390488
 decomposition rates, 390487
 Guaymas Basin, 640708
 limestone, red, 440505
 mud, terrigenous, 390487
 phosphate, 750827, 750828
 phytoplankton, 390487
 pyrite, 390487
 relationship to possible *in situ*
 activity, 960771
 sapropel, 390487
 sedimentation rate, 390487
 SiO₂ correlation, 720431
 sulfur, 750826, 750827
 trace elements, 750828, 750829, 750830,
 750831, 750833, 750834
 turbidite, 390488
 V, 060840, 390477, 390487, 390491,
 640696, 720430, 720431, 720438, 750826,
 750967, 750971, 750973, 750978, 750979
 glacial sedimentation, 810867
 Goban Spur
 Cenomanian-Turonian, 800979, 800980
 evolution, 801204, 801205, 801206,
 801207, 801213
 Guatemala, offshore sediment, 840621
 Guatemala SW, continental slope sediments,
 670587
 hemipelagite, trench-fill sediment, 870878
 Hess Rise, 620869
 Albian sediment, 620939
 post-Jurassic sedimentation, 620820,
 620825
 pyrite-marcasite, 620858, 620860
 Hess Rise N, post-Jurassic, 620806
 hexane, 220671
 humic compounds, 711006
 humic substances, sources, 440588
 hydrogen isotope, 950649
 Indian Ocean C, 240679, 240690
 Indian Ocean NE, 220671
 Indian Ocean NW, grain size, 250422
 Indian Ocean SE, 260613, 260615
 Indian Ocean W, 240672, 240675, 240678
 Aden, Gulf of, 240719
 regional aspects, 250755
 Indus Fan, sedimentation, 230483
 inertinite, 870878
 inorganic geochemistry, 801079
 Angola Basin, 750931
 enrichment, 750951
 Hess Rise, 620691, 620692, 620693
 mudstone, 801073
 Walvis Ridge, 750950

- interstitial water, 650446, 870869
 Angola Basin, 750959
 California, Gulf of, 630626
 interstitial water chemistry, 240803, 240804
 mineralogical studies, 410913
 Mississippi Fan, 960729
 San Miguel Gap, 630623
 interstitial water chemistry, 640933, 640936, 960708
 bacterial decomposition, 640675
 Baja California, 640679
 California, Gulf of, 640934
 diagenesis, 640690
 Guaymas Basin, 640682, 640687, 640688, 640689, 640934
 intraslope basin organic matter, 960753, 960760
 isotopic composition, 751052, 751053
 Angola Basin, 751051
 Atlantic Ocean SE, 751051
 isotopic study, hydrothermal alteration, 590638
 Japan Trench
 carbonate carbon, 870901
 hydrocarbon generation potential, 870902
 kerogen, 410821
 Labrador Sea, ¹³C, 101115, 101120, 121116
 limestone, 931263
 Albion, 620923, 620934
 Cretaceous, 620877, 620878, 620879, 620882, 620884, 620885, 620886, 620888, 620889
 Mid-Pacific Mountains, 621090
 organic geochemistry, 480921
 lithogenic material, dilution, 870880
 lithology, 150022, 210374, 280373, 330169, 380173, 42B0296, 430201, 430205, 430208, 430210, 430211, 430213, 430330, 430331, 430333, 430334, 430335, 47A0026, 47A0027, 47A0028, 47A0030, 47B0035, 480133, 480135, 510045, 510047, 870614,
 clay, nannofossil, 290320
 Mesozoic deposits, 47B0051, 47B0052, 47B0053
 Mesozoic units, 480049
 lueneburgite, Miocene sediments, 42A0662
 major element, 500688
 geochemistry, 42B0527, 42B0531
 Mazagan Escarpment, 790744, 790776, 790808
 Mazagan Plateau, 790723, 790745
 Mellish Seamount, post-Jurassic
 sedimentation, 620834, 620837, 620839
 Mesozoic sediments, organic matter, 360941, 360943
 Messinian sediment, 730537
 methanogenesis, sediments, 640761
 Mexico, Gulf of, nonvolatile organic
 matter, 960748
 microbial reworking, organic components, 740736
 Mid-Pacific Mountains W, Aptian sediments, 620903, 620909, 620910, 620914, 620915
 Middle America Trench, transect, 670605, 670608, 670609, 670610
 mineral, chemical composition, sediments, 38S0043
 sediment chemistry, 38S0041
 minor element, geochemistry, 42B0527, 42B0531
 Miocene, Messinian salinity crisis, 720986
 Miocene depositional history, 950799
 Miocene-Pliocene isotope stratigraphy
 accumulation, 901403
 continental/oceanic reservoirs, 901403
 Mississippi Fan
 interstitial water, 960729
 organic matter, 960749, 960752
 modern deep-ocean sediments, comparison, 720833
 Moroccan Basin, 790803
 margin, 500815
 Mozambique Ridge, volcanic sediment, 250529
 mud, 870878
 mud, terrigenous, organic geochemistry, 400557, 400558, 400565, 400566, 42B0749
 mudstone, Cretaceous, 480921
 mudstone, black, 430411
 cycles, 430415
 mudstone, green, 430411
 cycles, 430415
 muramic acid, microbial biomass, sediments, 42B0766, 42B0767
 Nankai Trough
 accumulation rate, 870915
 carbonate carbon, 870898, 870899
 Japan Trench, 870866
 sediments, 870858
 nannofossil diversity, diagenesis, 711061
 Nazca Plate, South America, 340795, 340797
 Neogene cores, organic geochemistry, 42A0466, 42A0468, 42A0469
 New Jersey, continental margin, 950651, 950653, 950654, 950655
 New Jersey Transect
 midslope, 950638
 stratigraphy, 950767, 950769
 nitrate, dissolved, Pacific Ocean SE, 920424
 nitrogen, 42A1221
 deep-sea sediments, 580745, 580746, 580748, 580751, 580752, 580753
 nitrogen, inorganic, 800993
 nitrogen, organic, 720834, 800993, 800994, 800995, 800996
 nonslumped sediments, 950667
 North America, continental rise, 930465
 oceanic anoxic event, Atlantic Ocean N, 801006
 oceanic plateaus, 621044, 621045
 ooze, diatomaceous
 California, Gulf of, 641263
 stratigraphy, 641263
 opal, 720834
 Orca Basin, 960787
 interstitial water, 960729
 methane, 960777
 organic chemistry, 870887
 increase, 870902
 turbidite, 870887
 uniformity, 870886
 organic extract, 410822
 organic facies origin
 decrease, 660545
 diagenesis, 660545
 Japan, 660544
 Mexico, 660544
 slope, 660544
 organic geochemistry, 080871, 271292, 271293, 380783, 410815, 630948, 640717, 640723, 640877, 640950, 720824, 800949, 960691
 accumulation rate, 800961, 800962
 age trend, 271293
 Angola Basin, 750460, 750461, 750463
 Baja California, 640940, 640941, 640942
 bitumen, 640820, 640823
 black-colored sediments, depositional
 model, 800965
 carbon isotope, 640821
 Cenomanian-Turonian black sediments, 800964
 diagenesis, 500553, 800962
 enrichment, 750466
 fan, submarine, 960691
 Goban Spur, 800949, 800950, 800956, 800959
 Guaymas Basin, 640943, 640944, 640946, 640947, 640948, 640949, 640950
 intraslope basin, 960691
 laminated sediments, 640950
 marine influence, 800964
 Miocene maximum, 630948
 organic matter, extractable, 271293
 organic matter, total, 640820
 paleoenvironment, 800963
 Pendragon Escarpment, 800950, 800954
 petroleum generating potential, 800967
 Porcupine Plain, 800956
 sediment type, 800962
 subsurface peak, 640950
 terrigenous influence, 800963
 Walvis Ridge, 750465
 organic matter, 500570, 500588, 500605, 660541, 670595, 670598, 950667
 Aptian-Jurassic, 711016, 711018
 Aptian/Albian boundary, 711016
 channel facies, 660543
 Cocos Plate, 670598
 deep-sea facies, 660541
 geochemistry, 200935, 640855, 640857
 Goban Spur, 800970, 800972
 Jurassic-Aptian, 711016
 low concentrations, 720837
 Pacific Ocean, 670595
 Pendragon Escarpment, 800970
 petrology, 500609, 500612
 Porcupine Plain, 800970
 preservation, 670598, 711016
 proximal slope facies, 670597
 similarity, 670598
 slope, 660543
 slope facies, 660543
 Tertiary-Albian, 711019
 trench sediments, 660541, 670598
 vertical distribution, 711006, 711009
 organic matter, extractable, 870882
 organic matter, geochemistry, 800987
 organic matter, insoluble, 440645, 440646
 organic matter preservation, 720833, 740731
 organic matter richness, 801000, 801001
 organic matter, source, 740731
 organic matter, terrigenous contributions, 740735
 organic petrography, 800987
 organic sediments, origin, 660544, 660545
 Orphan Knoll, ¹³C, 101115, 101120
 oxygen, water column, 740731
 oxygen isotope, 500670
 oxygen isotope, stable
 carbon isotope, 410946
 sediments, 410947
 Pacific Ocean, bottom sediments, 571313, 571314, 571315, 571316
 Pacific Ocean C, 090857, 620869
 Pacific Ocean E, Quaternary stratigraphy, 680347
 Pacific Ocean N, 620869
 Pacific Ocean NC, 620869
 Pacific Ocean NE, lithology, 050586, 050609
 Pacific Ocean NW, geochemical history, 620786, 620799
 Pacific Ocean SE
 C/N ratio, 920410
 eolian input, 920414, 920415
 marine/continental contributions, distinctions, 920410
 microbial reworking indicator, 920410
 productivity, estimates, 920409
 sedimentation rate, 920410

- Pacific Ocean SE (Cont.)
 terrigenous organic matter dominance, 920410
 Pacific Ocean SW, paleoceanography, 901503, 901509
 paleoceanography, Miocene events, 850767, 850768
 paleoenvironment, Miocene maximum, 630960
 paleotemperature, *Thalassionema nitzschoides*, 850937
 palynodebris, Cretaceous, 47B0452
 Patton Escarpment, 630944
 pelagic sediment reactions, 670610
 Pendragon Escarpment, 800979
 Albian-Barremian, 800983
 bottom water, 800743
 regional implications, 800980
 sediments, 800983
 petroleum generating potential, 760489
 petrology, 960502
 sand, 960499
 phosphorus, 810867
 Pigmy Basin, 960786
 interstitial water, 960729
 plant organic matter, 380815
 distribution, 380820
 plateaus, 621044, 621045
 Pliocene-Miocene sediment, 730537
 porcellanite, chert, 320434
 Porcupine Plain, 800977, 801197
 Albian-Cenomanian, 800975, 800978
 porphyrin, nickel, 500643
 postrift sediments, Cenomanian, 801176
 preliminary organic analyses, 100636, 111014, 111021, 160575, 160585, 170561, 170577, 42B0725, 42B0726
 preservation
 Angola Basin, 711054
 Argentine Basin, 711054
 Atlantic Ocean S, 711054
 Cape Basin, 711054
 Falkland Plateau, 711053, 711054
 transport, 711054
 previous work, preservation, 711053
 Quaternary, 641263
 Quaternary sediments, 640925, 720833
 sedimentology, 640926, 640929
 Quaternary stratigraphy, Pacific Ocean E, 680347
 Quaternary-Pliocene biological
 productivity, 720833
 radioactive elements, 42B0627, 42B0628
 radiocarbon dating, 640757
 Red Sea, sediment history, 230861, 230862
 regional sedimentation, 920600
 Rio Grande Fracture Zone, geochemistry, 720429
 Rio Grande Gap, geochemistry, 720841
 Rio Grande Rise, 720823, 720834
 carbonate, 720833
 sediment, 720425
 Rio Grande Rise E, carbonate, bulk, 720428
 Rockall Bank, organic matter, 810823
 Rockall Plateau
¹³C, 101115, 121115
 sediments, 810807, 810811, 810812, 810813, 810815, 810836
 Rockall Rise, ¹³C, 101115, 101120
 Ross Sea, continental shelf, 280940
 San Miguel Island, 630944
 Patton Escarpment, 630944
 Santos Plateau, origin, 390936, 390940
 sapropel
 Cretaceous, 440635, 620892, 620895
 Mediterranean Sea E, 42A0429
 sedimentology, 42A0447, 42A0452, 42A0455, 42A0459
 sea level, changes, 760475
 sediment geochemistry, 550457, 580989
 major element, 350447
 sediment-interstitial water interaction
 alkalinity, 571270
 ankerite, secondary, 571272
 calcite, secondary, 571272
 sedimentation rate, decay, 780388
 shale, 931263
 Aptian-Barremian, 711020
 geochemistry, 430644
 organic geochemistry, 400557, 400558, 400565, 400566, 42B0749
 shale, black
 Biscay, Bay of, 480881
 chemical composition, 410875
 Cretaceous, 410865, 410866, 410869, 751019
 cycle, 711051
 deposition, 750823
 organic matter, 47B0724, 47B0729
 thermal history, 711021
 shale, organic-rich, geochemistry, 47A0524
 Shikoku Basin
 hemipelagite, 870878
 organic geochemistry, 580989
 silt, terrigenous, 291060, 291148
 burrow mottling, 291149
 sink rate, 740731
 slumped sediments, 950667
 slumping, 870878, 950668
 detection, 950661
 stable isotopes, 350504, 711054, 711056
 carbonate, 350502, 650383
 Falkland Plateau, 711056
 terrigenous source, 870662
 stratigraphy, 680347, 680348, 680350
 Colombian Basin, 380350, 380352, 680347, 680350, 680351
 Colon Ridge, 680347, 680353
 facies, variations, 680348, 680350
 sugar, 42B0703, 42B0704
 correlations, 42B0703
 lipid, 42B0698
 sulfur isotope, 500688
 surface water, biological productivity, 720833, 740735
 tectonic history, depositional environment, 430797
 tetrapyrrole
 geochemistry, 630785, 630788, 630794, 640790, 640805
 pigment, 580737, 580739
 tetrapyrrole, diagenetic, pigment, 410825
 Timor Trough
 ooze, foraminiferal, 271011
 ooze, nannofossil, 271011
 Tortonian sediment, 730537
 transport, 230489
 downslope, 870878
 transport, eolian, 740736
 turbidites, 430396, 870878, 890367, 890375
 diagenesis, 250449
 upper slope, burial, 801047
 Vema Channel, carbonate, 720833
 Vigo Seamount
 sediments, 410817, 410818
 shale, 47B0513
 shale, black, 47B0534, 47B0535
 Walvis Ridge, 740735, 750967, 750971, 750979, 751089
 Angola Basin, 750971, 750973
 cycles, 750905
 fluctuation, 750979
 geochemistry, 750967
 geologic evolution, 750531, 750532
 geotechnical properties, 751109
 ooze, biogenic, 750980
 organic matter, 740735
 periodicity, 750980
 sediments, 751055, 751056, 751060, 751069, 751076, 751077, 751081, 751083
 transect, 740654, 740658
 upwelling, 750905
 carbon preference index, 751014
 alkane
 odd/even preference, 960787
 Orca Basin, 960787
 Pigmy Basin, 960787
 Balearic Plain, hydrocarbon, 130815
 bitumen, A_{chl} fractions, group composition, 571332
 Brazil Basin, 720823
 Cape Bojador, hydrocarbon, extractable, 47A0516
 chemical characterization, molecular analysis, 711048
 contact metamorphism, kerogen, 410821, 410822
 diagenesis, thermally controlled, 630947
 Gulf of Mexico, nonvolatile organic matter, 960748
 humic acid, alkane, 711049
 hydrocarbon, odd/even preference, 220675
 hydrocarbon, aromatic
 alkane, 711048
 kerogen, 711049
 hydrocarbon generation potential, organic facies, 640866
 hydrocarbon, nonaromatic, 870882
 intraslope basin organic matter, 960753
 odd/even preference, 960760
 isoprenoid
 odd/even preference, 960787
 Orca Basin, 960787
 Pigmy Basin, 960787
 kerogen, odd/even preference, 220675
 lipid
 diagenesis, 630770
 geology, 571385
 hydrocarbon, aliphatic, 571369, 640913
 Melanesian Basin, 610617
 maturation, 870884
 middle fan, organic matter, 960752
 Mississippi Fan, organic matter, 960749, 960755
 mud, terrigenous, organic geochemistry, 400558
 organic geochemistry, 960691
 Baja California, 640941
 hydrocarbon, nonaromatic, 271296
 odd/even preference, 640827
 specific organic geochemical changes, 960692
 organic petrology, hydrocarbon, 47A0516
 petroleum generating potential, organic matter, 571327
 sediments, 410821
 organic extract, 410822
 shale, organic geochemistry, 400558
 tetrapyrrole, diagenetic, pigment, 410836
 carbon shift
 carbon isotope, shift, 901376, 901402
 Colombian Basin, isotope stratigraphy, 680449, 680451
 grain size, 920342
 Chron, 16, 850764
 isotope stratigraphy, carbon isotope, 850764
 limestone, stable isotope, 150802
 Miocene, Messinian salinity crisis, 720987
 oxygen isotope, Miocene, 901399
 Pacific Ocean SW, paleoceanography, 901509

- paleoceanography, Miocene events, 850767, 850768
- carbon/nitrogen ratio
- deep-sea sediments, 580746
- geochemistry, 571322
- carbon/phosphorus ratio, Colombian Basin, isotope stratigraphy, 680450
- carbonate, 010554, 060834, 070845, 081017, 090022, 090039, 090797, 090798, 100641, 101059, 111059, 130796, 151129, 160521, 160528, 170927, 181069, 190663, 200741, 230421, 231131, 241155, 250841, 270499, 300687, 320561, 320891, 320896, 320901, 320903, 330959, 340601, 350755, 350756, 361047, 361048, 370637, 370638, 38S0433, 390435, 390501, 390502, 42B0445, 42B0448, 42A0652, 42A1151, 42A1211, 431043, 440557, 440559, 440562, 440983, 450379, 47A0586, 47B0685, 47B0686, 481150, 490873, 490878, 500021, 500835, 510716, 560941, 560944, 560949, 560954, 560956, 560981, 561005, 580711, 580974, 580975, 600473, 711001, 730667, 730670, 810688, 810862, 810867, 810875, 850711, 850722, 870677, 870901, 901203, 960671
- abyssal plain, cyclic sedimentation, 801078
- abyssal plain sediments, recrystallization, 801048
- accumulation, Falkland Plateau, 710295
- accumulation rate, 850722, 850979, 860515, 860522
- foraminifers, 740633
- variation, 850719, 850720, 850721, 850722
- acoustic facies, sedimentology, 960471
- Aden, Gulf of, 241155
- Africa
- climate, 411042, 411043
- continental margin NW, 410967, 410970, 410973, 410974, 410975, 410977, 410979, 410980, 410981, 410982, 410983, 411123, 411124, 411126, 411128
- dissolution, 411033
- volcanism, 411042, 411043
- Africa SW, continental margin, 400472
- age vs. depth
- Miocene changes, 850718
- Pliocene changes, 850717
- variation, 850716, 850718
- age-depth relationship, accumulation rate, 850929
- Al-Jadida, continental margin, 790411
- Alaska, Gulf of, turbidite, silt, 180851
- Albian sediment
- geochemistry, 480856, 480868, 480870
- mineralogy, 480856, 480868, 480870
- Algerian Basin, isotopes, 42A0650
- alteration
- aging, 511160, 511161, 511162, 511164, 511165
- basalt, 370563
- mineralogy, 370778, 540775
- products, 450615, 450617, 511274
- remnant arc debris, 590739, 590740
- temperature, 920499, 920500
- alteration, low-pressure, basalt, 370778
- alteration, low-temperature
- basalt, 490710
- mineralogy, 110874, 370825, 450610, 511186
- amino acid, 090903
- Angola Basin
- biostratigraphy, 750450
- clay mineralogy, 750847
- geochemistry, 750847
- geologic evolution, 750518, 750528
- organic geochemistry, 750987
- anhydrite, 42A1211
- anisotropy, 720570
- Antalya Basin, isotopes, 42A0650
- Antarctica
- geochemistry, 350405
- glaciation, 291040
- Arabian Sea, 231131
- diagenesis, 230421
- diagenesis, burial, 230421
- Arabian Sea N, sediment history, 230506
- aragonite, 010554, 42A1211
- ash, 600473
- Assemblage IB(-), 710395
- Assemblage IIIA(+), 710395
- Atlantic continental margin
- diagenesis, 100791
- interstitial water chemistry, 050521, 080855, 090843, 100613, 130810, 140765
- lower continental rise, 100791, 100792
- sediments, 100792
- trace elements, 440557
- Atlantic continental margin NW, evolution, 440954
- Atlantic Ocean, 040307, 370637
- Cenozoic sediments, 140795, 140796, 140797, 140815, 140862
- Cretaceous sediment, 140795, 140796, 140797, 140815, 140862, 750820
- diagenesis, 801055
- Goban Spur, 801055
- margin, 481105, 481109, 481110, 481112, 481113
- Sr, 801055
- Atlantic Ocean C, basin, 511501, 511504, 511505, 511506, 511507, 511509, 511510
- Atlantic Ocean N, 010340, 020319, 431043, 760945
- calcium carbonate, 010340
- carbon, 040342
- geochemistry, 720399
- Goban Spur, 801007, 801008
- isotopic composition, Cretaceous, 430719
- manganese, 801063, 801064
- Mediterranean Sea, 110802, 110805
- mineralogy, 020330
- paleogeography, 121177
- Pleistocene, 820629
- Rio Grande Rise, 720399
- Atlantic Ocean NC, Mesozoic sequences, 410999, 411000, 411004
- Atlantic Ocean NE
- evolution, 411216, 411218, 411221, 411222, 411223, 411225, 411227, 411230, 411232, 411233, 411234, 411240
- stable isotope, 480477, 480478, 480483, 480484, 480486
- Tethys, 801055
- trace elements, 801055
- Atlantic Ocean NW, 111059, 440949, 440983
- acoustic stratigraphy, 430836
- diagenesis, 110791
- lithology, 110914, 110924, 110942, 110944
- microfacies, 440487
- physical properties, 120935
- regional aspects, 110956, 110964
- sedimentary evolution, 430812, 430816
- Atlantic Ocean S, 020319, 030495, 040307, 050431, 060739, 060752, 361047, 390501, 730789
- calcium carbonate, 020319, 030495, 040307, 040314, 050431, 050432, 060750, 060751
- carbon, 020319, 030507, 050432
- carbon, organic, 040314
- cone-in-cone structure, 710346, 710349
- Cretaceous-Tertiary, 730749
- dissolution, 730765
- hiatuses, 391104, 391106
- history, 740717, 740720, 740721, 740723, 740728
- Malvinas Outer Basin, 391109
- mineralogy, 030510
- Paleogene, 720984
- Sierra Leone Rise, 391121
- upwelling, 750905
- Atlantic Ocean SE
- dissolution, 400981
- paleoenvironmental evolution, 740665, 740666, 740672, 740676
- Atlantic Ocean SW
- basin, evolution, 361005
- paleoenvironment, 710341
- Atlantic Ocean W, shallow water, 430421
- Australia W, continental margin, 270572, 270575, 270581
- authigenesis
- calcite, 870676, 870677
- calcium, 870676
- dolomite, calcian, 870676
- dolomite, ferroan, 870676
- formation sequence, 870676
- interstitial water, 870676
- interstitial water chemistry, 870677
- magnesium, 870676
- siderite, 870676
- Bahama Banks, margin, 760749
- Bahama Islands, geology, 110878, 110882, 110886, 110888, 110889, 110895
- Baja California, 630965
- diagenesis, 630595
- Baja California Seamount Province, basalt, 630716
- Balearic Rise, interstitial water chemistry, 130810
- Barremian-Aptian, $^{86}\text{Sr}/^{87}\text{Sr}$ ratio, 620781, 620782
- basalt, 240785
- alteration, 110874, 450610, 511186, 920512
- alteration, low-pressure, 370778
- California, Gulf of, 650580
- chemical composition, 320565, 320566
- flow, 550653
- geochemistry, 590769, 590780
- major element, 510989, 511005
- Mid-Atlantic Ridge, 820423
- mineral assemblage, 511220, 511229
- mineral, secondary, 340406, 340428, 511243, 511245
- mineralogy, 110874, 110875, 370825
- oxygen isotope, 460257
- petrochemistry, 630711
- petrology, 160626, 320565, 320566, 590670
- potassium-argon age, 42A0531
- trace elements, 510989
- basalt, altered
- carbonate, 580914
- chemistry, 511320, 511326
- geochemistry, 580827
- vein, 580913, 580914
- basanite, 42A1211
- basement
- alteration, 110874
- calcite, 920500, 920501, 920502
- mineralogy, 110874, 110875
- petrology, 370695
- bedding, graded, 580975
- Belem Ridge, Atlantic Ocean S, 040662
- Bermuda Rise
- basalt, 511122, 511201, 511204, 511205
- sea floor, 511160, 511161, 511162, 511164, 511165
- trace elements, 511143
- biogenic sediment, diagenesis, 300459,

- biogenic sediment (Cont.)
300473, 300474
- biostratigraphy, 280922, 440941
chemostratigraphy correlation, 850765
Messinian salinity crisis, 42A1140
- Biscay, Bay of N, continental margin,
480083, 481037
- Biscay, Bay of
Albian sediments, 480856, 480868
evolution, 480815
margin, 801137
shale, black, 480955
- bischofite, 42A1211
- bitumen, geochemistry, 42B0683
- Black Sea, 42B0617
¹³C, 42B0617
evolution, 42B1141, 42B1145, 42B1147
interstitial water, 42B0649, 42B0650
mineral, terrigenous, 42B0653, 42B0655
¹⁸O, 42B0617
organic geochemistry, 42B0763
sedimentation history, 42B0510, 42B0512
sediments, 42B0375, 42B0378, 42B0381,
42B0383, 42B0385, 42B0386, 42B0387,
42B0495
- Blake Basin, 760729, 760733, 760737,
760741, 760742, 760747, 760771, 760778
Cretaceous pelagic, 760795
sediments, 760482, 760483, 760484,
760488, 760489
- Blake Ridge
diagenesis, 760411
gas, natural, 100791
saturation, 200869
sediments, 760396, 760412, 760421,
760422, 760425
zonation, 760425
- Blake-Bahama Formation, Cretaceous, 760795
- boron, Miocene/Pliocene boundary, 47A0554
- Bouma sequence, 580975
- Brazil Basin
deposition, 720887
geochemistry, 720421
minor sediment components, 721003
sedimentation comparison, 721004
spikes, 720885
- buildup
Falkland Plateau, 710295
Maurice Ewing Bank, 710295
seismic evidence, 710295
- burrows, 580975
- ¹³C, 42B0618, 42B0619, 42B0623, 47B0493,
860503, 870677, 440567
- Black Sea, 42B0617
CO₂, 870677
fluctuation, 870678
fractionation, 42B0620
freshwater, 42B0617
isotope record, 42B0617, 42B0618
¹⁸O, 42B0623, 440567, 440568
stratigraphy, 860503
- CaCO₃, 100641, 170927, 361049, 370639,
390502, 901203
- calcareneite, Miocene-Pliocene-Pleistocene,
010522
- calcareous microfossil, composition
differences, 850815
- calcareous nannofossils, biostratigraphy,
920275
- calcsiltite, Miocene-Pliocene-Pleistocene,
010522
- calcite, 010554, 42A1211, 47B0686
deposition, 920600
diagenesis, 010555
origin, 010555
recrystallization, 850817
- calcite, ferroan, 870677
- calcite, Mg, 42A1211, 870677
- calcite-dolomite, ratio, 42A1211
- calcium, 320896
diagenesis, 850808
- California, Gulf of, 641303
- basalt, 650643, 650664
gulf mouth, 650399, 650407, 650410
- California S, 630965
diagenesis, 630595
- Campeche Bank
biostratigraphy, 100685
sediments, 100009
- Cape Basin
Cretaceous to Pliocene, 400488, 400494
Cretaceous-Tertiary, 730749
- Cape Bojador
carbon, 47B0553
continental margin, 47A0779, 47A0780,
47A0781, 47A0808
- carbohydrate, residues, 640881
- carbon, 081017, 090797, 100641, 111059,
151129, 170927, 181069, 250841, 320561,
350755, 350756, 361048, 370638, 390502,
47B0477
geochemistry, 310634, 310915, 410849,
430652, 440605, 440606, 440611, 571319,
610621, 610622, 610623, 610624
mineral, 730537
sediment analyses, 370638
stable isotopes, 42A0485, 42A0486
carbon dioxide, 111059
- carbon, inorganic, 42A1211
- carbon, insoluble, 090797, 151129
- carbon, mineral, 711001
- carbon, organic, 090797, 100641, 111059,
151129, 170927, 181069, 241155, 250841,
320561, 361048, 370638, 390502, 870901
cycles, 711051, 711053, 711054, 711056,
711057, 711058, 711059, 711060, 711061,
750905, 750906
diagenesis, 670610
geochemistry, 750830
Miocene sediment, 870901
Pliocene, 870901
preservation, 711054
Rio Grande Rise, 720833
stable isotopes, 711056, 711057, 711058
Vema Channel, 720833
- carbonate carbon, 870901
- carbonate cycle, 901203
Cretaceous, 711054
- carbonate, lithified, 320891
- carbonate mineral, 42A1211
stable isotopes, 550653, 550654, 550655
- Caribbean Sea, 040307, 151129
carbon isotope, 200891
chemistry, 200831
major element, 200831
oxygen, 200891
sediments, 150938
- Caroline Abyssal Plain, chalk, 200069
- Catoche Knoll, organic analyses, 100301
- cement, 040098, 180289, 240128, 260365,
380164, 410967, 411124, 411126
- cementation, 41S0955, 860520, 860522
- Cenozoic, 410974, 850711
- Cenozoic paleoceanography,
Equator/subarctic, 901494
- Cenozoic paleotemperatures, 47B0508
paleotemperature, 47B0509, 47B0510
- Cenozoic sedimentation
Bering Sea, 190893
Pacific Ocean N, 190893
- Cenozoic sediments
lithology, mineralogy, geochemistry,
450323, 450326, 450327, 450330
mineral composition, 42B0413, 42B0420
chalk, calcite, paragenesis, 260595
Challenger Plateau, Quaternary, 901423
Chatham Rise, Quaternary, 901431, 901433
chemistry, 650418, 870669
calcite, 370825
Caribbean Sea, 200831
cavities, 370825
formation depth changes, 870678
interstitial water, 200831
Japan Trench, 870669
siderite, 370825
vein, 370825
vesicle, 370825
chert, 300435, 320429, 320430, 320434,
320435, 320436, 320447
bedding, 320436
breccia, 320439
cavities, 320439
clay, zeolitic, 300435
Cretaceous, 430443
density, porosity, sonic velocity, 320439
diagenesis, 170382, 170383, 170397
formation, 320444, 320445
geochemistry, 620711, 620712, 620713,
620720, 620724, 620725, 620728, 620730,
620731
mineralogy, 320442
oxygen isotope, 620756
Pacific Ocean E, 160610
petrography, 320442
petrology, 620711, 620712, 620713,
620720, 620724, 620725, 620728, 620730,
620731
porcellanite, 320444, 320445
siltstone, 300435
vein, 320439
chronology, 160873, 160876, 160880
biostratigraphy, 160876
Mediterranean Sea, 160880
Pliocene, 160873
chronostratigraphy, paleoenvironmental
interpretation, 960673
classification, 350755
clay, 220743, 47A0579, 960579
distribution, 390501
clay mineralogy, 750862, 750865
clay minerals, 42A1211, 560981
Cretaceous and Cenozoic, 480711, 480716
distribution, 560983, 560984
mineralogy, 140728
Panama, Isthmus of, 680392
Tertiary, 291077
clay, montmorillonitic, Mn-Fe, 38S0051,
38S0054
clay, siliceous, diagenesis, 271005
clay, terrigenous, 291060
claystone, siliceous, diagenesis, 271005
climate change, global, oceanic response
indicator, 850711
CO₂, origin, 090797, 870678
coal, land formation sequence, 870677
Colon Ridge, interstitial water, 680467
compaction, 320891
concretion, composition, 870677
contact metamorphism, kerogen, 410821
continental margin
recrystallization, 801048
structural evolution, 481042
continental shelf, onshore geology, 400974,
400975
control factors, 850722
convection, interstitial water, 920613
copper, 090798
Coral Sea E, geology, 300659

- Costa Rica Rift
alkali, 690492
alteration minerals, 690560
basalt, 690501, 690517
chalk, 690399, 690403, 690407
elemental composition, 690461
isotopic composition, 690461, 690462,
690463, 690465, 690466, 690468, 690470
pore waters, 690461
siliceous rocks, 690423
strontium isotope, 830297
Costa Rica Rift Zone, 830297, 830301
basalt, 830234, 830239
Sr isotope ratio, 830300, 830301
Cretaceous, 760795, 760813
isotopic composition, 430719
shallow water, 430719, 430720
Cretaceous pelagic, origin, 760795
Cretaceous-Tertiary, stable isotope, 730749
Cretaceous/Tertiary boundary, 720921
accumulation rate, 860522
mineralogy, 620851, 620852
Pacific Ocean NW, 860513
cross-lamination, 580975
crust
alteration, 370825
fracture zone, 920308
thermal history, 690471, 690472
crust, oceanic
seawater interaction, 511169
vein, 830299, 830300
cycle description
CaCO₃, 750912
carbon, organic, 750907, 750908, 750909
productivity, 750920
dacite, conglomerate, 571285, 571287, 571288
Daito Ridge, 580974, 580975
sandstone, 580610
deep sea origin, 870669
density, porosity, 850841
density, proosity, 850842
deposition, 390118, 950773, 950774, 960490
chalk, nannofossil, 250492
Coniacian-Santonian, 720395
differences, 850722
Equatorial Plateau, 300440
facies evolution, 300439
Lesser Antilles, 780304, 780313
Mesozoic, 790857, 790858, 790885, 790888,
790889, 790890
Miocene, 850722
models, 960739
Morocco, 790857
ooze, nannofossil, 250492
Pliocene, 850722
Portugal, 47B0373, 47B0381, 47B0387
transition regimes, 850722
variation, 850722
diabase, trace elements, 240785
diagenesis, 020421, 170407, 170409, 210495,
300444, 320521, 320524, 320527, 320903,
320904, 430423, 500729, 850815, 850817,
920345, 941135, 960584
accumulation rate, 850816
alteration, 320525, 320526
Arabian Sea, 230421
aragonite, 320525, 320527
aspects, 901486, 901487
Baja California, 630595
basalt, 320521
biogenic sediment, 850805, 850818, 850819
breccia, volcanic, 320521
burial, 850816
calcareous nannoplankton, 320904
calcite, 320526, 320527, 320904, 850815
calcite, biogenic, 320904, 850816
calcite, Mg, 320525
calcium, 850816
California S, 630595
carbon, organic, 670610
cement, 320527
chalk, 320903, 320904, 850816
Coral Sea Basin, 210505
Cretaceous, 760816
Cretaceous talus, 770403
diagenetic history variations, 850815
diffusion effect, 850817
dolomite, authigenic, 320904
Emperor Seamounts, 550415
enhancement, 850816
etching, 170409
fossil preservation, 170417, 170419,
170420, 170421
gas, 110791
geochemistry, 760411
higher temperature gradient, 850816
interstitial fluid, 270477
Japan Trench, 561117
Koko Seamount, 320521
limestone, 140424, 170421, 170424,
170425, 170426, 320521
limestone, radiolarian, 320904
lithification, 320904
lithologic terminology, 170407
Lord Howe Rise N, 210504, 210505, 210506
Lord Howe Rise S, 210503, 210504, 210506
Magellan Rise, 170407
magnesium, 320904
Mg-calcite, 320527
MgCO₃, 320527
mineral, 47A0742, 47A0751, 47A0752
mineralogy, 210495, 760411
Miocene to present, 690363
montmorillonite, 320527
nannofossils, 320903
natural gas, 110791
New Caledonia Basin, 210498, 210499,
210501, 210502, 210503, 210506
ooze, carbonate, 320903
organic matter, 870877
overgrowth, 170409
oxygen isotope, 300420
Pacific Ocean NC, 170407
Pacific Ocean SW, 210495, 210505, 210506
petrography, 170412, 170413, 170414,
170417
physical properties relationship, 210495
porcellanite, 320904
sandstone, volcanic, 320527
sediments, 320521, 320522, 320523,
320524, 750857
seismic reflector, 210497
silica, 320904, 500729
siltstone, 320527
slope sediments, 840571, 840573, 840574,
840583, 840584, 840585, 840589
soft oozes, 320903
Sr/calcium ratio, 850815, 850816, 850817
stratigraphy, 170409
strontium, 320904, 850816, 850817
Tertiary, 110791
Tertiary sediments, 100791
diagenesis, burial, 230421
Arabian Sea, 230421
ooze, carbonate, 790402, 790404
pelite, 230421, 230422, 230423, 230424,
230425, 230426, 230427, 230428, 230429,
230430, 230431, 230438, 230439, 230441
diagenetic, 640553
isotopic survey, 630595, 630596, 630597,
630598, 630599, 630601, 630602, 630604,
630605, 630606
dilution
fluctuations, 901274
Lord Howe Rise, 901274
dissolution, 411033, 760400, 760401,
850944, 850979, 860518, 860520, 901206,
920299
Atlantic Ocean S, 730765
Atlantic Ocean SE, 400981
basins, 150805
calcite, 920299
CCD, 150807, 150809, 920299
climate, 750853
deposition, 920299
facies evolution, 400981, 400984, 400988,
400989, 400990, 400991, 400993, 400994,
400995, 400996, 400997, 400998
fluctuation, 150805
influence, 850722
lysocline, 920299, 920399
Miocene-Pleistocene, 730765
Neogene, 411033
subsidence, 920299
distribution, 560983, 560984
dolerite, 630715
dolomite, 010554
isotope geochemistry, 42A0554
dolomite, calcian, 870677
dolomite, diagenetic, mud, anoxic
diatomaceous, 640555
dolomite, ferroan, 870677
East Mariana Basin, sedimentary history,
890657, 890666
East Pacific Rise
CaCO₃, 920372, 920373
calcite, 920373
dissolution, 920372, 920373
distance-increase relationship, 920372
erosion, 920373
hydrothermal precipitate, 920372
production, 920373
sediments, 540400, 650376, 650377,
650426, 920355
slumping, 920373
westward abyssal current, effect, 920372
elemental composition, Costa Rica Rift,
690461
Emperor Seamounts
deposition, 550420
diagenesis, 550425, 550426, 550428
Koko Seamount, 550420
Nintoku Seamount, 550419
Ojin Seamount, 550419
paleogeographic implications, 550430
petrology, 550511, 550516, 550522
shallow-water, 550415
Suiko Seamount, 550416
enrichment, 711001
environment
organic matter, 42A0454
planktonic organisms, 42A0454
equatorial high-productivity belt
dilution, 850974
preservation, 850974
equatorial sediment bulge, variations,
850977
evaporites, 42A1211
Messinian, 42A0588
Miocene, 131237, 131239
Neogene, 130788
Exuma Sound, 760742
Falkland Plateau, 711185
basement, 360906
buildup, 710295
carbon, mineral, 711001
shale, black, 711051, 711053
fan, seismic stratigraphy, 901341

- ferromanganese sediment, 190630
volcanics, iron-rich, 190634
ferruginous sediments, 160601
Florida, Straits of, paleoenvironment, 770382, 770390, 770391
formation, 870677
formation water, origin, 690492
fossil preservation, 170407, 170409, 170417, 320896
calcareous nannofossils, 320897, 320898
etching, 170409
foraminifers, 170419, 320896
geochemistry, 320899
limestone, 140424, 170421, 170424, 170425, 170426
lithologic terminology, 170407
nannofossils, 170420
overgrowth, 170409
oxygen isotope, stable, 320901, 320902, 320903
Pacific Ocean NC, 170407
petrography, 170412, 170413, 170414, 170417
pore fluids, 320900, 320901
radiolarians, 170420, 170421
stratigraphy, 170409
Galapagos Fracture Zone, hydrothermal activity, 540406
Galapagos Islands, hydrothermal mounds, 700185
Galicia, continental margin, 47B0646
Galicia Bank, 47B0477
tectonics, 47B0666
garnet, metasomatic, paragenesis, 260595
gas, 090798
gas, interstitial, geochemistry, 640783, 640784
gas, natural, zonation, 100791, 110791, 110793, 110794, 110795, 110797, 110799
geochemical history
Albian, 710406
sedimentation, 710405, 710437
geochemical partitioning
magnesium, 650428
manganese, 650426
geochemistry, 370695, 390477, 390478, 390484, 390487, 440626, 620851, 620852
accumulation, 390489
barite, 390484
biogenic material, 060837
carbonate compensation depth, 390477, 390478, 390484
Cenozoic sediments, 42B0558, 42B0563, 42B0568, 42B0569, 42B0573, 42B0577, 42B0581, 42B0583, 42B0584, 42B0585, 42B0586, 42B0589, 42B0603
compensation depth, 390484
diagenesis, 720829
emplacement mode, 160626
environment, 620851
limestone, 390481
major oxides, 540359
mathematical treatment, 500701
mineral, secondary, 450615, 450617
mineralogy, 620851
Rio Grande Rise, 720430
terrigenous matter domination, 720438
terrigenous sediment, 390477, 390487
trace elements, 720829
volcanic material, 390481
volcanogenic sediments, 390487
zinc, 390484
geologic, oceanographic setting, 850972
geological, geophysical setting, 390948
sedimentary cover, 42A0891
glaciation, 810862, 810867
Pliocene, 850723
Pliocene-Pleistocene, 120953
glass, chemical variation, 510979
glauconite, 220737
mineralogy, 250427
potassium-argon age, 361071
global oceanic budget, history, 860509
Goban Spur
abyssal plain, 800696
Cenomanian-Turonian, 800979
continental slope, 800693
evolution, 801203, 801205, 801213
geochemistry, 801033, 801034
Pendragon Escarpment, 800694
grain size, fluctuation, 850764
GRAPE, 901240
graphic correlation plots
event, 850919
Miocene, 850923
gravity flow, 960542, 960544
Mississippi Fan, 960541
gravity-flow deposit, 960541, 960542, 960546
Guadalupe Island, alteration, 630715
Guatemala, trench, 670522, 670525
Guaymas Basin, metamorphism, 641129
Gubbio, 770539
sequence, 770539
gypsum, 42A1211
halite, 42A1211
heavy metals, Cenozoic sediments, 450349, 450354
Hess Rise, 621045
microfossils, 320509, 320511, 320515
post-Jurassic sedimentation, 620825, 620829, 620831
pyrite-marcasite, 620855, 620859, 620861
stratigraphy, 620571
Hess Rise N
post-Jurassic, 620817
sedimentary sequences, 620766, 620767
high resolution, Pacific Ocean C, 850711
Honshu NE, diagenesis, 561117, 561118, 561119, 561121, 561123, 561125
hydrogen isotope, 130788
Neogene, 130788
hydrothermal activity, petrology, 641129
hydrothermal alteration, sediments, 650419, 650420
hydrothermal deposits, assemblage, paragenic, 700252
Iberian margin
carbon isotope, 47B0477
oxygen isotope, 47B0477
Iberian margin W, evolution, 47B0770
Iceland Basin, interstitial water, 121194
igneous rocks, geochemistry, 370654, 370659, 370672
Indian Ocean, 250841
Indian Ocean E, 270499, 300687, 340601, 38S0433
abyssal plain sediment, 271020
grain size, 270520
lithology, 271015, 271017, 271020
Indian Ocean NE
Cretaceous, 220723, 220743
sediment history, 220723
Indian Ocean NW, grain size, 250422, 250423
Indian Ocean S, geologic history, 260919, 260937, 260938, 260939, 260940
Indian Ocean SE, 260613
sediments, 260541
Indian Ocean W, 241155
basalt, 250543, 250548
geochemistry, 250405, 250409, 250412
interstitial water, 250368, 250369
mineralogy, 060759, 431019
Indus Fan
sand, 230485
sedimentation, 230476, 230477, 230485
inorganic chemistry, lower fan channel, 960738
inorganic geochemistry, 801079
¹³C, 801073
¹⁸O, 801073, 801079
inorganic geochemistry, sediments, rocks, 750951
dilution, 750951
Hess Rise, 620688
Mid-Pacific Mountains W, 620685
insoluble residue, relationship, 440557
magnesium, 440557
potassium, 440557
sodium, 440557
zinc, 440557
intersite comparisons, age, 850846
interstitial water, 060828, 080866, 090855, 121194, 200831, 38S0130
Angola Basin, 750959
chemistry, 071756, 920425
diagenesis, 920425
diffusive behavior, 42A0566
dissolution, 920425
equilibria, 040413
equilibrium, 920423
interstitial water chemistry, 240806, 350412
isotopes, 130788, 130789
magnesium, 740701
mass balance considerations, 350422
Pacific Ocean SE, 920425
Patton Escarpment, 630624
precipitation, 650443, 870870
recrystallization, 090845, 181001, 740701, 740706, 870869
sediment relationship, 870872
Shikoku Basin, 610607
strontium, 740701, 850808, 850809, 850810, 850813, 850815
Walvis Ridge, 740701, 740704, 740705, 750961
interstitial water chemistry, 870678
recrystallization, 730539, 850807
Rio Grande Rise, 720391
sedimentation rate, 850808
interstitial water, geochemistry
Baja California, 640679
diagenesis, 640691
Guaymas Basin, 640688, 640689
interstitial water, mineralogical studies
diagenesis, 410912
recrystallization, 410912, 410913
interstitial water temperature, 870677
intraslope basin, clast, 960619
investigation area, 960812
Ionian Basin, isotopes, 42A0650
iron, 100641, 111059, 440562
Fe, 801070
iron carbonate, 090797
isotope chronostratigraphy
enhanced freshwater runoff periods, 960675
Gulf Coast, 960675
intraslope basin sediments, 960675
Laurentide, 960675
Mexico, Gulf of, 960675
Pigmy Basin, 960675
sea level, 960675
isotope composition, Costa Rica Rift, 690461
isotope geochemistry
Pacific Ocean NW, 860513
Rio Grande Rise, 720399
isotope stratigraphy
oxygen isotope, 850753

- isotope stratigraphy (Cont.)
 Pliocene, 850723, 850733
 Quaternary, 901425
 isotopes, 130788, 590631, 590634, 960671, 960673
 sea level, glacioeustatic, 960671
 isotopes, stable
 Miocene, 130784, 130785
 Pleistocene, 42A0485, 42A0486
 Pliocene, 130785, 42A0485
 isotopic composition
 Costa Rica Rift, 690461
 Cretaceous, 430719
 Messinian sediments, 42A0635, 42A0637, 42A0641, 42A0643, 42A0648
 oxygen isotope, 370607
 strontium, 370607
 isotopic events, 850731, 850733
 Antarctic Bottom Water, 850732
 Atlantic type/Pacific type record change, 850732
 climatic cooling, 850731
 dissolution, 850731, 850732
 interglacial stage, 850731
 Pacific Ocean C, 850731, 850732, 850733
 isotopic paleotemperature estimates
 diagenesis, 710414
 $^{16}\text{O}/^{18}\text{O}$ ratio, 710415
 tests, 710414
 isotopic study, 590631, 590634
 formation temperature, 590639
 hydrothermal alteration, 590637, 590638
 interstitial water, 590636, 590637
 isotopic composition, 590639
 tuff, 590634
 Japan, fore-arc area, 560539
 Japan Trench, 560941, 560944, 560949, 560954, 560956
 accumulation rate, 870922
 altered volcanic debris, 870669
 authigenesis, 870669
 burial depth, 870669
 chemistry, 870659, 870669
 clay minerals, 560981, 560983, 560984
 concretion, 870669
 deep sea terrace, 870677
 diagenesis, 561117, 870669
 dolomite, 870669
 geothermal gradients, 870669
 interstitial water, 870853
 interstitial water chemistry, 870669
 lithology, 870669
 mineralogy, 870669
 mudstone, diatomaceous, 870669
 origin, 870669
 sediments, 271234, 571251
 silt, 561005
 Joban, formation, 561097
 Jurassic
 Al-Jadida, 790411
 carbon isotope, 410937
 Mazagan Plateau, 790411
 oxygen, stable, 410937
Schizosphaerella, 790411, 790412, 790413, 790414, 790415, 790417, 790418, 790419, 790420, 790421, 790422
 Jurassic-Cretaceous
 limestone, 790863, 790866, 790867, 790868, 790869, 790875, 790876, 790879, 790880, 790881, 790885
 Mazagan Plateau, 790859
 stratigraphy, 790859
 K-feldspar, 42A1211
 K/Ar age, 360923
 Kapingamarangi Rise
 accumulation rate, 901201
 dissolution, 901201
 stratigraphy, 901201
 Koko Seamount, diagenesis, 320521
 Kyushu-Palau Ridge, 590612
 Lago Mare, Messinian salinity crisis, 42A0652
 laminae, parallel, 580975
 lead isotope, 340343
 limestone
 Albian, 620923, 620932
 Cretaceous, 620879, 620881, 620885
 Jurassic, 790459
 stable isotope, 150795, 150796, 150799, 150801, 150802
 stable isotope ratios, 510764
 limestone, indurated, 190630
 limestone, oolitic, Ita Mai Tai Guyot, 200097
 limestone, siliceous, 890390, 890395
 Line Islands, source, 330837
 lipid, 571387
 geology, 571384
 shale, black, 410856
 lithification, 320904, 320905
 lithologic, chemical stratigraphy
 basalt, 510941, 510947
 lithology, 510941
 lithologies, minor, sand, skeletal, 901481
 lithology, 040098, 040129, 040246, 050110, 050170, 060022, 060198, 060297, 061135, 061164, 061167, 061168, 061169, 061170, 061246, 061248, 070729, 090022, 090038, 090039, 100007, 100011, 100049, 100051, 100072, 100096, 100097, 100171, 100198, 100204, 100261, 100298, 100301, 100314, 100316, 110110, 110318, 120321, 130263, 150020, 150021, 150022, 150218, 150302, 150368, 150408, 150412, 160024, 160157, 160415, 180100, 180172, 180214, 180236, 180289, 190329, 190467, 210036, 210335, 210336, 210374, 210375, 220272, 230120, 230121, 230170, 230171, 230215, 230297, 230386, 240018, 240395, 240403, 240472, 250031, 250146, 250184, 250193, 250194, 250196, 250294, 260026, 260027, 260085, 260160, 260284, 260363, 260365, 270019, 270101, 270134, 270198, 280020, 280125, 280219, 280220, 290048, 290125, 310354, 310355, 320162, 320239, 320299, 320326, 330305, 360149, 380164, 380173, 380528, 380598, 390032, 390052, 390054, 390070, 390105, 390241, 390336, 400043, 400048, 400192, 400196, 400202, 400363, 400364, 400368, 410171, 410329, 410426, 410427, 410428, 42B0034, 42B0035, 42A0036, 42A0037, 42B0037, 42A0068, 42B0124, 42B0125, 42B0130, 42B0135, 42B0138, 42B0141, 42B0143, 42A0157, 42A0182, 42A0226, 42A0231, 42A0233, 42A0234, 42A0235, 42A0236, 42A0237, 42A0238, 42B0294, 42B0296, 42B0297, 42B0298, 42A0327, 42A0328, 430040, 430041, 430043, 430044, 430058, 430113, 430115, 430159, 430160, 430163, 430201, 430204, 430205, 430207, 430208, 430210, 430211, 430213, 430334, 430335, 430336, 440033, 440162, 440343, 47A0026, 47A0027, 47A0028, 47A0029, 47A0030, 47B0035, 480079, 480080, 480132, 480135, 480137, 480175, 480220, 480221, 480222, 480225, 480226, 490025, 490027, 490102, 490104, 500044, 500045, 500126, 500131, 510043, 510044, 510046, 540757, 960476
 absence, 410250
 algal masses, 310198
 breccia, 130227
 cementation, diagenetic, 42A0328
 Cenozoic deposits, 47B0048
 chert, 170053
 clay, 140054
 clay, calcareous, 120048
 clay, carbonaceous, 140298
 clay, nannofossil, 120167, 120766
 clay, quartzose, 140023
 clay, red, 120765
 deposition, 320319, 330024, 390119, 47A0034, 480069, 480116
 diagenesis, 47A0086
 dissolution, 390070
 dominant lithology, 190220
 Horizon Tablemount, 170293
 Jurassic-Neocomian, 410186
 Kapingamarangi Rise, 300243
 limestone, 140023, 170053, 170055, 170059
 lithification, 170153
 lithified, 320299
 marl, dolomitic, 130339
 marl, nannofossil, 120167, 140023
 marlstone, quartzose, 140298
 Marquesas Oceanic Formation, 090212
 Mesozoic deposits, 47B0051, 47B0053
 Mesozoic units, 480049
 mud, calcareous, 140258
 mud, silt-laminated, 960478
 mudstone, 140023
 Oligocene to Miocene pelagic sediments, 120168
 Oligocene-Miocene, 300193
 ooze, chalk, 120047
 ooze, dolomitic, 130339
 ooze, foraminiferal, 130339, 130369
 ooze, foraminiferal nannofossil, 140258
 ooze, marl, 130064, 130227
 ooze, micarb diatomaceous, 280052
 ooze, nannofossil, 140163, 490319
 Paleocene, 400203
 paleoecology, 170288, 170289, 170290
 petrography, 170288, 170289, 170290
 physical properties, 120767
 Pliocene sediment, 120168
 Pliocene to Pleistocene sediments, 120168
 recrystallized, 320299
 reef, 240021
 sand, 100092, 100121, 130263
 sandstone, 120045, 120049, 240128
 sapropel, 130263
 sedimentology, 100009
 shale, 120045
 shallow-water, 100195, 100198, 100203
 silt-sized, 390032
 solution, 120169, 260331
 turbidites, 120765
 volcanic sediment, 170055, 170059
 lithostratigraphy, 440941
 Horizon A, 430836
 Messinian salinity crisis, 42A1140
 Little Bahama Bank, slope, 760749
 load cast, 580975
 Lord Howe Rise
 accumulation rate, 901201
 deposition, 901201
 dissolution, 901201
 isotope stratigraphy, 901385
 lysocline, 901201
 Miocene sediment, 901201
 ^{18}O , 901201
 pore water chemistry, 901249
 stratigraphy, 901201
 Louisiana, continental slope, 960671
 lueneburgite, 42A1211
 Macquarie Island, high-temperature discharge, 830235

- Maestrichtian-Paleocene, Rio Grande Rise, 720921
- Magdalena Bay, dolerite, 630723
- Magellan Rise
carbon isotope, 170505
diagenesis, 170407
oxygen isotope, 170505
- magnesium, 100641, 111059, 320896
diagenesis, 801060
distribution, 320891
- magnetostratigraphy, 850724, 850727, 850728, 850729, 901297
age, 850729
Gauss/Gilbert boundary, 850728
isotopic record, 850724
Kaena Subchron, 850728
Lansdowne Bank, 901277
Lord Howe Rise N, 901277
Mammoth Subchron, 850728
maxima, 850727
minimum, 850727
NRM intensity, 850864
Ontong-Java Plateau, 901276
Pacific Ocean C, 850724
silica, 850864
- major element, 850784, 850789
chemistry, 370651
geochemistry, 42B0528, 42B0530, 42B0531, 42B0536
interstitial water, 200831
- manganese, 440561, 440562, 47B0686, 801063
dissolution, 801064, 801065, 801066, 801068
Fe, 801063
iron, 440557
nodules, 291083
origins, 440557
sedimentation, 801062
- Manihiki Plateau, chert, 330886
- Mariana Islands, fore arc, 600652, 600653
- Mariana Trough, 600614
basalt, 600650
matrix, 170396, 180100, 260026
- Maurice Ewing Bank, buildup, 710295
- Mazagan Escarpment, 790511, 790808, 790903, 790905, 790906
deposition, 790857
- Mazagan Plateau, 790388, 790722, 790853
Jurassic, 790411
Jurassic-Cretaceous, 790858
- Mediterranean Ridge, mineralogy, 130734, 130739
- Mediterranean Sea, 42A0483, 42A0650, 42A1151, 42A1211
evaporites, 130784, 130785, 131220
Messinian, 130680, 130690
Messinian salinity crisis, 42A0650, 42A0651, 42A0652, 42A0653, 42A0654
mineralogy, 42A1211
Miocene, 42A0483
Pleistocene, 42A0483
stable isotope, 42A0493
stable isotope analysis, 42A0650
trace elements, 130784, 130785
- Melanesian Basin, 610883
ash, 610633
opal, 610526
silica, authigenic, 610526
- Mellish Seamount, post-Jurassic
sedimentation, 620839, 620840
- Messinian environments, salinity crisis, 42A1009
- Messinian salinity crisis
isotopes, 42A0650
stable isotope analysis, 42A0650, 42A0657
metalliferous sediment
- Eocene-Oligocene, 850798, 850799
- Nazca Plate, 340787
- methane, fermentation, 870678
- Mexico, Gulf of, 010340, 100641, 770739
organic geochemistry, 770417
regional aspects, 010625, 010640, 100743
sedimentology, 770417
- MgCO₃, 42A1211
- MgSO₄, 42A1211
- microfaulting, 580975
- Mid-Atlantic Ridge, 450379
- Mid-Pacific Mountains W, Aptian sediments, 620905, 620908, 620910, 620914, 620915
- Middle America Trench
preservation, 660816
transect, 670529, 670530, 670533, 670610
- mineral assemblage, evolution, 600448
- mineral carbon, enrichment, 711001
- mineral and chemical composition
bulk mineral distribution, 38S0032, 38S0039
mineral composition, 38S0031
- mineral, chemical composition, sediments
bulk mineral distribution, 38S0032, 38S0039
mineral composition, 38S0031
- mineral composition, basement, 110874, 110875
- mineral, diagenetic, silica minerals, diagenetic, 801084
- mineral, heavy, Gascoyne Plain, 270524
- mineral phase changes, 870678
- mineral, secondary, 511186, 920508
alteration, low-pressure, 370778
basalt, 650646
- East Pacific Rise, 650646, 650647, 650648
- elemental composition, 920510
- Guaymas Basin, 650644
- petrography, 920506
- Tamayo Fracture Zone, 650646
- mineralogic facies comparison, biogenic material, 810707
- mineralogy, 47B0686, 550857, 650391, 650395, 650418, 960584
- aragonite, 870659
calcite, 870659
diagenesis, 920345
formation depth changes, 870678
- Goban Spur, 801020, 801031
- Mariana Trench, 600443
- Mariana Trough, 600439, 600442
- Mediterranean Sea, 42A1211
- mineral, secondary, 600712, 600718
- peak intensities, 870659
- Porcupine Plain, 801021
- variability, 801021, 801022, 801026
- minimum, 850964
- minor element
East Pacific Rise, 650611
geochemistry, 42B0528, 42B0530, 42B0531, 42B0536
- Minorca Rise, lithification, 42A0473
- Miocene, 42A0483
- Miocene changes
dissolution, 850943
lows, 850943
- Miocene correlation, 850745
- Miocene stable isotope records, 850711
- Miocene-Pleistocene, dissolution, 730765
- Mississippi, margin, 960705
- Mississippi Fan, 960701, 960703
accumulation rate, 960596
alkalinity, 960698
diffusive processes, 960716
dissolution, 960698
gravity, 960541
- gravity flow, 960541
- gravity-flow deposit, 960541
- lower fan region, 960613
- organic matter, 960758
- precipitation, 960701
- recrystallization, 960703, 960716
- sediment, 960432, 960433
- sediment composition, 960480
- seismic characteristics, 960445
- Moroccan Basin
margin, 500808, 500811, 500812, 500814
oxygen isotope, 500669
- Morocco
continental margin, 500020, 790857, 790863
deposition, 790857
- Mossbauer spectroscopy study, 950643, 950644, 950645
- Mounds, nontronite, 540384
- Mounds Hydrothermal Field, origin, 540411, 540412
- mud, diatomaceous, 870677
- mud, terrigenous, organic geochemistry, 400557, 400558, 42B0749
- mud, vitric, 600473
- mudstone, Pliocene-Miocene, 870677
- Nankai Trough
carbon, organic, 870899
comparison, 870901
heat flow, 870742
nannofossil diversity, diagenesis, 711061
nannofossils, axis orientation, 720567
Neogene cores, organic geochemistry, 42A0466
- Neogene formations, paleogeography, 42A0910, 42A0912, 42A0914, 42A0915
- Neogene-Quaternary, 901494
- New Jersey, margin, 950705
- New Jersey Transect, 950807, 950808
stratigraphy, 950769, 950770, 950771, 950813
- Nile Fan, mineralogy, 130734, 130739
- nitrogen, inorganic, 800993, 800996
- nitrogen, organic, 800993, 800996
- ¹⁸O, 42B0617, 42B0618, 42B0619, 42B0620, 42B0623, 47B0493, 440567
- offshore environments, 280934, 280935
- Oga Peninsula, formation, 561097
- Oligocene-Quaternary biochronology, microfossils, 850905
- ooze, calcareous, 270477
- Miocene, 220742
- ooze, siliceous, 291150
- ore, deposit, 540804
- organic geochemistry, 640720, 800949
accumulation rate, 800961, 800962
- Cenomanian-Turonian black sediments, 800964
- Goban Spur, 800950, 800956
- Gulf of Mexico, 770417
- keroen, 630838
- marine influence, 800963
- Pendragon Escarpment, 800950
- Porcupine Plain, 800956
- sediment type, 800962
- thermal decomposition, 640718
- organic matter, 670595
- Eocene, 950655
- Pendragon Escarpment, 800970
- origin, 010554
diagenesis, 010555
turbidity current, 010554
vertical distribution, 42A0554
water mass, 010555
- oxidation, 870678
- oxidation-reduction cycle, 47B0729
- oxygen, 090798, 111059
interstitial water, 200891

- oxygen (Cont.)
 Paleogene, 710409
 Red Sea, 230939
 ultra high purity, 181069
 oxygen isotope, 130788
 oxygen, stable, Red Sea, 230939
 Pacific Ocean
 bottom sediments, 571313, 571315, 571316
 equatorial sediments, 850839, 850840
 guyots, 620773
 Pacific Ocean C, 070845, 070977, 081017,
 090797, 160521, 330959, 340589, 340601,
 901213
 deposition, 850711, 850722
 dissolution, 850916
 high resolution, 850711
 interstitial water, 071756
 paleoceanography, 850948, 850982
 Pliocene, 160873
 stratigraphy, 850723
 Pacific Ocean E
 sediments, 540319
 stratigraphy, 680347
 Pacific Ocean EC, nodule, 680481, 680482,
 680483, 680487, 680488
 Pacific Ocean N, 050431, 170927, 190663
 diagenesis, 170407
 oxygen isotope, 170505
 Pacific Ocean NE, 151100, 151101, 181069
 Pacific Ocean NW, 060739, 200741, 320561
 Cretaceous/Tertiary boundary, 860513
 diagenesis, 320521
 geochemical history, 620786, 620787,
 620788, 620789, 620792, 620793, 620797,
 620800, 620802, 620803
 isotope geochemistry, 860513
 stable isotope, 860513
 trace elements, 860513
 Pacific Ocean S, sediment, 920305
 Pacific Ocean SE, 350755
 basalt, 340248, 340382
 convective fluid flow, 920419
 Pb isotope, 920400
 rare earth elements, 920388
 Sr isotope, 920400
 Pacific Ocean SW, 300687
 diagenesis, 210495, 210497, 210498,
 210501, 210502, 210503, 210504, 210505
 island arcs, 300696, 300702
 lithostratigraphy, 901471
 paleoceanography, 901509, 901513
 Quaternary, 901425
 Pacific Ocean W
 biomierite, 070977
 burrow mottling, 070977
 calcilutite, 070977
 calcite, 070977
 cementation, 070977
 compaction, 070977
 diagenesis, 070977
 equatorial, 071172, 071173
 guyot, 200657, 200658, 200659, 200661,
 200662, 200664
 induration, 070977
 lamination, 070977
 pyrite, 070978
 silica, 070978
 paleoceanography
 Miocene events, 850767, 850768
 shift, 850966
 Paleocene-Coniacian, 720399
 Atlantic Ocean N, 720399
 paleoclimate, diachronous biogenic facies,
 280915
 paleoenvironment
 current, 481148
 Neogene, 47A0671, 47A0672, 47A0673,
 47A0675, 47A0677, 47A0679, 47A0680
 paleomagnetic correlation, 850730
 paleotemperature, cold-water diatoms, 850941
 palynological residue
 Guaymas Basin, 640743, 640751
 gulf mouth, 640742
 mineral matter, 640753
 mineral matter, size, 640741
 organic matter, maturation index, 640747
 Panama Basin, tectonics and sedimentation,
 160907
 paragenetic assemblages
 assemblage IB(-), 710425
 Assemblage IIB (-), 710425
 pelagic components, distribution, biogenous
 components, 250490
 Pendragon Escarpment, 800979
 reduced input, 800979
 periglacial terrigenous sediments, 010523
 petrographic description, formation, 660711
 petrography, 650635
 petrology, 740650
 geochemistry, sediments, 540319
 gravels, 960494
 nodule, lithic, 540326, 540327
 Pacific Ocean E, 540319
 sand, 960494, 960496, 960498
 phase chemistry, petrology, 340248
 Philippine Sea, 580711
 Daito Basin, 600424
 Daito Ridge, 600424
 Paleogene-Neogene, 310848
 Philippine Sea W, 600429
 Shikoku Basin, 600419
 West Mariana Basin, 600429
 physical properties, 040026, 040046,
 040067, 040084, 040098, 040131, 040152,
 040222, 040246, 061246, 851015
 ash, 061167
 burrow mottling, 061164
 burrows, 061167
 calcite, 061170
 clay, 061135, 061168
 compaction, 901243
 lithification, 901244
 marl ooze, 061164, 061167, 061168, 061169
 mineralogy, 061168
 natural gamma radiation, 120935
 ooze, calcareous, 061169
 ooze, chalk, 061164, 061167, 061168,
 061169, 061170
 Rio Grande Rise, 720551
 sedimentary structure, 061164
 siliceous microfossils, 061169
 silt, 061168, 061170
 sound velocity, 061248
 Pigmy Basin
 isotope chronostratigraphy, 960671
 Quaternary, 960671
 plagioclase, 42A1211
 planktonic foraminifers, dissolution, 920297
 Pleistocene, 42A0483
 Atlantic Ocean N, 820629
 Pleistocene sediment, 850711
 Pliocene, Pacific Ocean C, 160873
 Pliocene stable isotope records, 850711
 pollen, spores, 960646
 polymict breccia, clast, 600648
 porcellanite, 320429, 320447
 bedding, 320436
 breccia, 320439
 cavities, 320439
 chert, 320430, 320434, 320435, 320436,
 320444, 320445
 density, porosity, sonic velocity, 320439
 Eocene, 430443
 formation, 320444, 320445
 mineralogy, 320442
 petrography, 320442
 vein, 320439
 Porcupine Plain, 801183
 Albian-Cenomanian, 800977
 unconformities, 801173
 pore water chemistry
 depositional environment, 960694
 Lord Howe Rise, 901249
 pore waters, oxygen isotope, 230939,
 230940, 230941
 postrift sediments, Albian, 801175
 precipitation, 760399, 760400
 preliminary organic analyses, 111014,
 111021, 42B0726
 preservation, 860518
 hydrothermal solution, 920297
 pressure solution, diagenesis, 941135
 Progresso blanket, 790881
 provenance
 Florida W, 960545
 Yucatan, 960545
 Puerto Rico Trench, Mesozoic, 040665
 pyrite, 42A1211
 quartz, 42A1211
 Quaternary
 isotope stratigraphy, 901434, 901435,
 901436
 Pigmy Basin, 960671
 Pleistocene, 801181
 stratigraphy, 901425
 Quaternary isotopic record, 680464
 Matuyama hiatus, 680461
¹⁸O, 680463
 Quaternary nannofossil biostratigraphy,
 960623
 radiocarbon dating, 640757
 rare earth elements, 590653, 590667
 geochemistry, 600737
 trace elements, 590663, 590664, 590666
 tuff, 590655
 Rb-Sr age, 360923
 recrystallization, 670610, 860518, 860520
 sandstone, 580610
 Red Sea, 231131
 carbon isotope, 230939
 dolomite, 230877
 evaporites, 230830
 geochemistry, 230981, 230987
 oxygen, stable, 230939
 sediment history, 230853
 Red Sea S, silicate, 230939
 redeposited clastics, Cretaceous, 760795,
 760796, 760797, 760798, 760800, 760801,
 760805, 760806, 760809, 760813, 760815,
 760816, 760817, 760820, 760821, 760822,
 760823, 760825, 760826
 redox conditions
 dissolution, 801068
 manganese, 801069
 reduction, Blake Ridge, 760364
 reduction zone, Blake Ridge, 760396,
 760401, 760405
 reflectors, age, 850959
 regional geology, seismostratigraphy, 801193
 regional problems, subsidence, 061302,
 061303
 regional sedimentation, dissolution, 920600
 regional summary, 020415
 Wharton Basin, 220818
 rhodochrosite, 010554
 rhyolite, conglomerate, 571285, 571287,
 571288
 rifting, 481042

- Rio Grande Rise, 720395
 anisotropy, 720558
 basement, volcanic, 720955
 isotope geochemistry, 720399
 limestone, flaser, 721012, 721014
 Maestrichtian-Paleocene, 720921
 Mesozoic, 721015
 Paleocene to Coniacian, 720399
 physical properties, 720551
 Recent-Eocene sedimentation, 721006
 sediment, 720426
 sedimentation, 721017
 subsidence, 720953, 720966, 720967
 Tethys, 720399
 trace elements, 720399
 velocity, 720559
- Rio Grande Rise E, carbonate, bulk, 720428
 Rio Grande Rise N, regional setting, 250695
- Rockall Plateau
 concretion, fossil polymetallic, 810704
 sedimentation, 810681
 sediments, 810815, 810830, 810833
 stable isotopes, 47B0477
 Tertiary deposits, 810669, 810673, 810674, 810676, 810677, 810680, 810681
- Rockall Rise, stable isotope, 47B0477, 47B0479, 47B0485, 47B0488, 47B0489
- Ross Sea, basement, 280864, 280866, 280867
 sampling strategy, preservation, 850712
- San Jose Canyon, 840930
- sand, 060730
 dissolution, 500825, 500832
 distribution, 390501
 Pacific Ocean NW, 310511
 sand-silt-clay distribution, 350755, 361047, 370637
 sandstone, 320542
 diagenesis, 580610
- Santos Plateau, origin, 390936
- sapropel
 Cretaceous, 620896
 sedimentology, 42A0454
- Schizosphaerella*, Al-Jadida, 790411
- sediment accumulation, 710402
 sediment analyses, 170927, 370638
 sediment classification, 361047
 sediment, Cretaceous, dissolution, 400981
 sediment geochemistry
 accumulation, 550457
 ooze, siliceous calcareous, 550459
 shallow-water bethogenic detrital sediments, 550459
- sediment history, 280785
 abundance, 280785
 Pacific Ocean N, 200616
 salinity, 280785
 water alkalinity, 280785
- sediment properties, 901273
 sediment record, Southern Ocean, 710474
 sedimentary cycles, 740650
 sedimentary record, 850764, 850765
 dissolution, 850765
- sedimentation, 240395, 240403, 42B0608
 acoustic stratigraphy, 47B0666
 aragonite, 42B0614
 calcite, 42B0614
 carbonate mineral, 42B0612
 CCD, 47B0732, 47B0736
 chalk, 47B0733
 diagenesis, 47B0732, 47B0733
 dissolution, 47B0733
 dolomite, 42B0614
 freshwater conditions, 42B0614
 geochemical aspects, 710432
 ooze, nannofossil, 42B0612
 salinity, 42B0614
- sea floor spreading, 47B0733
 siderite, 47B0733
⁸⁶Sr/⁸⁷Sr ratio, 42B0614
 Sr isotope, 42B0614
 transgression, 47B0733
 sedimentation rate, 020419, 850711, 850978, 901484
 sedimentology, 340779
 Gulf of Mexico, 770417
 Mexico, Gulf of, 100709
 physical properties, 100712
 sedimentation rate, 340789
 shallow-water, 100699
 sediments, 410821, 42A0483, 560944, 560949, 560954, 760411, 850711, 860505, 860515, 920363
 authigenic, 760411
 chemical composition, 760411, 760421
 compaction, 751133
 diagenetic zones, 760422, 760425
 dissolution, 411033
 Hess Rise, 621045
 percolation, 700338
 physical properties, 010580, 010582
 pore water, 760411
 recrystallization, 210505
 regional setting, 320891, 320892, 320893, 320896
 seismic modeling, 850955
 deposition, 850968
 minimum, 850967, 850968
 Pacific Ocean, 850968
 porosity/depth, 850953
 saturated bulk density, 850953
 temperature, pressure, 850954
 seismic reflection, equatorial, 850949
 seismic stratigraphy, 901336
 dissolution, 901329
 seismology, buildup, 710295
 serpentinite, 370563
 shale, organic geochemistry, 400557, 400558, 42B0749
 shale, black
 Cretaceous, 410866, 750811
 cycles, 711051
 shallow water, 320891
 Emperor Seamounts, 550415
 shallow-water
 deposition, 430422
 diagenesis, 430423
 limestone, 430422
 sand, carbonate, 430422
 stable isotope analysis, 430421
 shallow-water derivation, 580609
 Shatskiy Rise, microfossils, 320509, 320511, 320515
 shift, 850980
 Shikoku Basin, basalt, 580905
 siderite, 010554, 020419, 47B0686, 47B0700, 870677
 crystallized, 47B0686
 laminated, 47B0686
 siderite, magnesium, 870677
 Sierra Leone Rise, silt, 411050
 silica
 diagenesis, 170382, 170383, 170397, 410881, 410883, 410888, 801091
 mineralogy, 140728
 silica, biogenic, correlation, 810867
 siliceous sediment, 500725
 silicified sediments, 500728
 silt, terrigenous, 291060
 siltstone
 foraminifer tests, 320542
 lamination, 320542
 slope
 classification, 760749
 geologic development, 760749
 sedimentation, 760759
 slump structure, 580975
 slumped sequences, 730667
 smectite, 42A1211
 South Fiji Basin, geology, 300622
 spikes, Brazil Basin, 720885
⁸⁶Sr/⁸⁷Sr ratio
 formation, 920502
 metal, alkali, 511143
 precipitation, 920501
 source, 920502
 temperature, 920500
 vein, 920502
- Sr
 paleoceanographic reconstitution, 720408, 720412
 Paleocene-Coniacian, 720404, 720405
 Sr isotope, Costa Rica Rift, 830297
 stable isotope, 860515, 860524, 860525, 870661
 basalt, 350502, 350503, 350504
¹³C, 42A0654, 42A0655
 calcite, 42A0651
 calcium carbonate, 42A0655
 circulation, 42A0654
 CO₂, 42A0651
 depositional, diagenetic histories, 42A0651
 depositional environment, 42A0654
 dolomite, 42A0651, 42A0655
 environmental changes, 42A0651
 euryhaline fauna, 42A0655
 evaporites, 42A0654
 isotopic enrichment, water, 42A0655
 isotopic values, 42A0651
 isotopic variation, 42A0654
 Lago Mare, 42A0652, 42A0653, 42A0654
 marine sedimentation evaporative units, 42A0654
 marl, nannofossil, 42A0654
 Messinian, 42A0651, 42A0652
 Messinian salinity crisis, 42A0654
¹⁸O, 42A0654
 organic matter, 650382, 650383, 650384
 Pacific Ocean NW, 860513
 salinity, 42A0654, 42A0655
 sediments, 350501, 350502
 silicate, 350501
 stagnation, 42A0654
 transitional sediments, 42A0654
 water, 42A0651, 42A0655
 stable isotope analysis, 42A0657
 Pleistocene surface temperature changes, 800800
 stable isotope ratio, 511153, 511154
 CO₂, 511155
 stable isotopes, 711054
 carbonate-rich bed, origin, 711058
 Falkland Plateau, 711056
 organic matter, 711056
 production, 711058
 recrystallization, diagenetic, 711056
 surface waters, 711058
 stratigraphy, 680347, 680350, 850764, 901114, 901201, 901202
 accumulation rate, 680347, 920312
 Antarctica W, 901215
 CaCO₃, 850764, 850864
 calcium carbonate, 920305
 carbonate event, 920310, 920311, 920312
 Caribbean Sea W, 680347
 Chron, 16, 850864
 circulation increase, 901215
 climate change, 901214

- stratigraphy (Cont.)
 Colon Ridge, 380353, 680353, 680360
 current winnowing, 901214, 901215
 Earth orbit, 901215
 Equatorial Divergence, 901215
 fluctuations, 850764
 Hess Rise, 620571
 history, 680347
 Kapingamarangi Rise, 901215
 Lord Howe Rise, 901215
 lysocline, 920310
 lysocline, foraminiferal, 901214
 minimum, 920310, 920311
 Miocene, middle/upper boundary, 850764
 Miocene-Quaternary cyclic fluctuations, 850764
 Neogene, 620571, 680347
 Neogene, Quaternary, 901201
 Pacific Ocean C, 850723, 850864, 920310, 920311
 Pacific Ocean NC, 920310
 Pacific Ocean S, 950305
 phytoplankton productivity influence, 901214
 preservation, 901214
 Quaternary, 680347
 sediment accumulation conditions, 901214
 sedimentary regime, 850764
 seismostratigraphy, 801124
 siliceous sediment abundance, 850764
 Subtropical Divergence, 901215
 variations, 680353, 680356, 680357, 680358, 680360
 stromatolite, coccoid, blue-green algae, 42A0665
 strontium, 320896, 42B0608, 42B0612, 42B0614, 440557, 440559, 440562, 710402
 calcareous nannoplankton, 42B0612
 carbonate mineral, 42B0612
 crust, continental, 801055
 crust, oceanic, 801055
 distribution, 320891
 dolomite, 42B0614
 freshwater conditions, 42B0614
 indigenous coccoliths, 42B0614
 indigenous species, 42B0612
 ooze, nannofossil, 42B0612
 radiolarians, 42B0614
 reworked coccoliths, dominance, 42B0614
 reworked species, 42B0612
 salinity, 42B0614
 sedimentation rate, 801057
 variations, 440559
 strontium isotope, 780383
 sulfate
 interstitial water, 130788, 130789
 reduction, 870678
 sulfide, chemistry, 630680
 sulfur, 370778
 geochemistry, 310915
 sulfur isotope
 Neogene, 130788
 pyrite, 340382
 synrift sediments, Barremian-Hauterivian, 801175
 synthesis, biostratigraphy, summary, 850930
 stratigraphy, 850929
 tectonic history, Maestrichtian, 430812
 Tethys
 comparison, 720399
 diagenesis, 801055
 Fe, 801055
 geochemistry comparison, 720399
 Goban Spur, 801055
 Gubbio, 801055
 hydrothermal activity, 801055
 manganese, 801055
 Mediterranean Sea, 790411
 Rio Grande Rise, 720399
Schizosphaerella, 790411
 Sr, 801055
 Tethys N, margin, 440954
 tetrapyrrole, pigment, 580739
 textural evolution
 overgrowth cement, 320903
 reprecipitation, 320903
 Timor, shallow-water, 270567
 trace elements, 440557, 440559, 440562, 460241, 460247, 801055, 801071, 860517
 Atlantic Ocean NE, 801055
 CaCO₃, 801070
 calcite, neoformed, 801070
 Cretaceous/Tertiary boundary, 720402
 crust, continental, 801070
 crust, oceanic, 801070
 diagenesis, 801070
 distribution, 42A0506
 East Pacific Rise, 650611
 Fe-Mn, 801071
 geochemistry, 720399, 860513
 Goban Spur, 801055
 hydrothermal activity, 801070
 isotopes, 480727, 480729, 480731
 magnesium, 801070
 Mid-Atlantic Ridge E, 460241
 partitioning, 850796
 seawater, 801070
 Sr, 801070
 turbidites
 origin, 890374, 890376
 shallow-water, 500733
 turbidites, volcanic, clast, 890369
 Tyrrhenian Basin, oxygen isotope, 130796
 Tyrrhenian Rise, 130796
 upper slope, 800732
 precipitation, 801047
 recrystallization, 801047
 Valencia Trough, basalt, vesicular, 130767
 variation, 850711, 850722
 varve, 42B0435, 42B0437, 42B0446, 42B0449, 42B0486
 patterns, 42B0502
 vein
 stable isotope, 580905
 ultramafic rocks, 820525
 velocity, deposition, 850842
 Venezuelan Basin, solution fluctuations, 150805
 Vigo Seamount
 carbon, 47B0553
 iron, 47B0497
 isotopes, 47B0497, 47B0501
 manganese, 47B0497
¹⁸O, ¹³C, ³⁴S, 47B0493, 47B0494
 oxygen isotope, 47B0477, 47B0497
 shale, black, 47B0534, 47B0535
 stable isotopes, 47B0477, 47B0479, 47B0485, 47B0488, 47B0489
 strontium, 47B0497
 volcanic deposit, ash, 901181
 volcanic rocks, petrography
 Emperor Seamounts, 200700
 submergence, 200691, 200695, 200700
 volcanoclastics, 550503
 Eocene, 720957
 volcanism, Neogene, 47A0703, 47A0713
 Voring Plateau
 bulk mineral distribution (X-ray), 38S0032
 mineral composition, 38S0031
 Walvis Ridge
 Angola Basin, 750969
 climatic, oceanographic evolution, 740679
 Cretaceous to Pliocene, 400488, 400494
 history, 740886, 740887, 740888, 740889, 740890, 740891, 740892
 transect, 740648, 740650, 740654, 740660
 upwelling, 750905
 water chemistry, recrystallization, 670609
 X-ray mineralogy, 510721
 abundance, 600437
 Rockall Rise, 480666, 480667, 480668
 Yucatan, continental shelf, 790881
 zirconium, geochemical significance, 710402
 zonation, Blake Ridge, 760425
see also diagenesis
 carbonate, authigenic, 870671, 870924
 Assemblage IIA(+), 710395
 Atlantic continental margin, interstitial water chemistry, 140763
 Black Sea, sediments, 42B0381
 Blake Ridge, 760411
 sediments, 760411
¹³C, 42B0619
 calcite, 870670
 California, Gulf of, gulf mouth, 650409
 carbon, geochemistry, 610624
 carbon isotope
 calcite, 870672
 chert, 410944
 dolomite, 870673
 interstitial water, 200896
 siderite, 870673
 carbonate, 870670
 authigenesis, 870676
 formation, 870677
¹⁸O, 42B0619
 oxygen isotope, 870677
 carbonate mineral, 870670
 carbonate nodule, authigenic, formation, 870663
 Cenozoic sediments, lithology, mineralogy, geochemistry, 450332
 chemical composition, 870670, 870671
 compositional zoning, 870672
 iron, 870672
 magnesium, 870672
 siderite, 870672
 "concretionary zone", 870670
 Cretaceous sediment, 931061
 diagenesis, 760411
 diatomaceous sediments, 870670
 dolomite, 020415, 870670
 euhedral crystal, 870670
 formation, 870675
 calcite, 870675, 870676
 carbonate mineral, 870676
 dolomite, 870675
 geothermal gradient, 870675
 interstitial water, paleotemperature, 870675
 isotopic equilibrium, 870675
 magnesium, 870675
 siderite, 870675, 870676
 substitution effects, 870676
 gas, natural, zonation, 110795
 geochemistry
 carbonate, 390477, 390478
 Cenozoic sediments, 42B0561
 Greenland Sea, 38S0221
 interstitial water, mineralogical studies, precipitation, 410913
 Japan Trench
 accumulation rate, 870922, 870923
 carbonate, 870669
 lithology, 210108, 210109, 220088, 220196, 230121, 250092, 250093, 250145, 260026, 380164, 380168, 380170, 380171, 380176, 380530, 380580, 390147, 390149, 390150,

- lithology (Cont.)
 390237, 390241, 390333, 390376, 400043,
 42B0036
 chalk, 120411
 clay, 120261
 mudstone, 120259
 major element, geochemistry, 42B0528
 microspherulitic aggregates, 870671
 minor element, geochemistry, 42B0528
 mud, landward slope, 870915
 Nankai Trough, turbidites, 870915
 "nonconcretionary zone", 870670
 North America, continental rise, 931061
 Norwegian Sea, 38S0221
 oxygen isotope, stable, chert, 410944
 rhodochrosite, 020415
 siderite, 020415, 870670
 silica, diagenesis, 410881
 siliceous skeletons, 870671
 silt, 561005
 Tertiary sediment, 931061
see also ^{18}O ; oxygen isotope
 carbonate bank, 100197, 100203
 Atlantic Ocean NE, evolution, 411223
 Atlantic Ocean NW, sedimentation, 440971,
 440974
 Bahama Islands, geology, 110886, 110893
 lithology, 100197, 100203
 Cenozoic deposits, 47B0048
 reef, 440107
 Moroccan Basin, margin, 500813, 500814
 regional problems, carbonate, 061302
 volcanic rocks, petrography, submergence,
 200695
see also carbonate platform
 carbonate, biogenic, 950553, 950557
 Arabian Sea, history, 231115
 Atlantic Ocean, margin, 481110
 Atlantic Ocean NE, stable isotope, 480477,
 480486
 Atlantic Ocean NW, sedimentation, 440977
 California, Gulf of
 gulf mouth, 650363
 postrifting, 640590
 carbon isotope, stable, 410945
 carbonate, carbon, organic, 711056
 carbonate, diagenetic, isotopic survey,
 630598
 carbonate mineral, stable isotopes, 550653
 carbonate nodule, carbon isotope, 680483
 carbonate, secondary, vein, 580906
 Cenozoic paleotemperatures, isotopic
 signal, 47B0507
 chemical composition, metal, 571264
 chemistry, 650418
 chert
 bottom current, 300437
 deposition, 300437
 clay mineralogy, preservation, 650372
 crust, fracture zone, 920307, 920308
 dacite, conglomerate, 571288
 Daito Ridge, physical properties, 580986
 depositional history, 960660
 East Pacific Rise
 clay minerals, 540310
 hydrothermal precipitate, 920384
 geochemical partitioning, manganese, 650426
 geochemistry, 42B0535, 720438
 carbonate, 390478
 Cenozoic sediments, 42B0577
 Goban Spur
 Cenomanian-Turonian, 800979
 evolution, 801213
 Hess Rise
 microfossils, 320511
 post-Jurassic sedimentation, 620825
 Hess Rise N, sedimentary sequences, 620764
 Iceland Basin, Cenozoic sediments, 38S0073,
 38S0080
 isotopic study, 590631
 age relationship, 590637
 carbon isotope, 590634, 590637
 carbonate, recrystallized, 590637
 interstitial water, 590636
 oxygen isotope, 590634, 590637
 Philippine Sea, 590637
 Japan Trench
 interstitial water, 870868
 Miocene-Quaternary sediments, 870647
 lithology, 240018, 380161, 42A0180, 500128
 major element, geochemistry, 42B0528
 Melish Seamount, post-Jurassic
 sedimentation, 620834
 metalliferous sediment, Eocene-Oligocene,
 850798
 Middle America Trench
 mineralogy, X-ray, 670533
 transect, 670520
 mineral, chemical composition, sediments,
 38S0041
 mineral composition, 38S0031
 mineralogy, 650418, 850795
 absence, 850795
 dissolution, 850796
 minor element, geochemistry, 42B0528
 Mississippi Fan
 carbonate, 960541
 sediment, 960432
 Mounds Hydrothermal Field, chemistry, 540411
 Nankai Trough
 minor element, 870645
 trace elements, 870645
 Oligocene-Quaternary biochronology,
 production rate, 850905
 oxygen isotope, stable, carbon isotope,
 410945
 Pacific Ocean, sediments, 920379
 Pacific Ocean EC, carbonate, 680483, 680488
 Pacific Ocean NW, geochemical history,
 620786
 Pacific Ocean SE
 hydrothermal component, 920384
 hydrothermal sedimentation, 920605
 rare earth elements, 920387, 920388
 Sr isotope, 920400
 paragenetic assemblages, assemblage IB(-),
 710425
 Pendragon Escarpment, 800979
 petrology, sand, 960494
 Philippine Sea, major element, 870645
 physical properties
 porosity, 580986
 sonic velocity, 580986
 thermal conductivity, 580986
 water content, 580986
 wet-bulk density, 580986
 rare earth elements, sedimentation, 590667
 rhyolite, conglomerate, 571288
 Rockall Bank, organic matter, 810823
 Rockall Plateau, concretion, fossil
 polymetallic, 810706
 sand-silt-clay distribution, 010541
 sediment geochemistry, ooze, siliceous
 calcareous, 550457
 sedimentology, Mexico, Gulf of, 100707
 Shatskiy Rise, microfossils, 320511
 Shikoku Basin, major element, 870645
 silica, diagenesis, 410881, 410894
 stratigraphy, carbonate, 680353
 zirconium, geochemical significance, 710402
 carbonate compensation depth, 040665,
 040668, 040672, 090493, 110016, 110058,
 120682, 120695, 140025, 140095, 140187,
 140226, 140261, 140881, 150282, 150307,
 150337, 150375, 170022, 170063, 170108,
 170253, 170268, 170269, 170393, 180295,
 200074, 210035, 210038, 210061, 210062,
 210067, 210109, 210121, 210211, 210274,
 210376, 210381, 210705, 210717, 210718,
 220021, 220092, 220767, 230392, 240291,
 240481, 250032, 250041, 250072, 250095,
 250207, 250266, 250295, 260034, 260138,
 260306, 260336, 270020, 270094, 270135,
 270199, 270284, 290027, 290231, 290329,
 290376, 300030, 300034, 310031, 310053,
 310056, 310057, 310078, 310173, 310281,
 310288, 310320, 310419, 310444, 320022,
 320026, 320049, 320239, 340116, 350071,
 350086, 360043, 360044, 380120, 390107,
 390337, 390349, 400202, 400385, 400988,
 400993, 400996, 400998, 400999, 401000,
 410031, 410983, 411043, 430040, 430045,
 430046, 430166, 430201, 430211, 430215,
 430216, 430336, 430337, 430794, 430811,
 430814, 430816, 440490, 47B0049, 47B0403,
 480069, 480164, 500073, 500747, 510731,
 540497, 580965, 580970, 580971, 0580990,
 580991, 580997, 590609, 590621
 Africa
 climate, 411043
 volcanism, 411043
 Angola Basin, geologic evolution, 750515,
 750527, 750528, 750529, 750530
 Arabian Sea, sediment history, 230507,
 230510, 230512, 230514
 Atlantic Ocean, 020415
 Cenozoic sediments, 140822, 140881
 Cretaceous sediments, 140822, 140881
 margin, 481112, 481113
 Atlantic Ocean C, basin, 511505, 511506,
 511507, 511510
 Atlantic Ocean N, 47A0673, 760905, 760907
 mineralogy, 020329, 020330
 Atlantic Ocean NE, evolution, 411233
 Atlantic Ocean NW
 lithology, 110947
 microfacies, 440491
 sedimentary evolution, 430791, 430793,
 430794, 430795, 430811, 430812, 430814,
 430816
 Atlantic Ocean SE, sedimentary evolution,
 400999, 401000
 Barbados Ridge, 780603
 basalt, altered, geochemistry, 580834
 Blake Basin, 760472, 760473, 760474, 760907
 sediments, 760472, 760473, 760474
 Brazil Basin, deposition, 040660
 burrow mottling, silt, 291056
 calcite, deposition, 920600, 920601
 calcite, synthetic, dissolution rate, 700371
 carbon isotope, shift, 901402
 carbonate, paleoenvironment, 47A0673
 Caroline Abyssal Plain, chalk, 200074
 chert, 010522, 300437
 diagenesis, 170393
 clay, deposition, 291056
 coarse fraction variation, 901206
 Cocos Plate, sediments, 670608
 Cretaceous, 140822
 deposition
 calcareous sediment, 220769
 current, 280729
 Goban Spur, 800876
 Lesser Antilles, 780316
 diagenesis, Miocene to present, 690373,
 690375
 dissolution, carbonate, 400988, 400996
 East Mariana Basin, sedimentary history,

- East Mariana Basin (Cont.)
890656
East Pacific Rise, Pacific Ocean NC, 920585
flysch, Cretaceous, 250737
Galapagos, 700369
gas hydrate, trench slope, 670607
geochemistry, 390489
carbonate, 390477, 390478, 390484
Goban Spur, Cenomanian-Turonian, 800979
Guatemala
 mid-slope continental margin, 840929
 upper slope, 840929
Hess Rise, 621039, 621045, 621056
Hess Rise N, post-Jurassic, 620817
Indian Ocean NE, sediment history, 220720, 220763
Indian Ocean S, geologic history, 260918, 260930, 260938
Indian Ocean W
 biogenic components, 240696
 clay minerals, 241056
 Indian Ocean C, 240722, 240723
 Somali Basin, 241049
Jurassic sedimentation
 claystone, 760842, 760847, 760851
 marl, 760842, 760847, 760851
 limestone, stable isotope, 150795
 lithology, 120169, 290369, 400203
 accumulation rate, 400389
 Cenozoic, 500073
 Cenozoic deposits, 47B0049
 clay, red, 120682
 deposition, 430336, 430337, 480069, 480164
 geologic events, 210038, 210061, 210062, 210109, 210376
 shoaling, 320239
Madagascar Basin, volcanic sediment, 250520
major element, argillaceous sediments, 580719
Manihiki Plateau, deposition, 330883
Mediterranean Sea, 110816
metalliferous sediment, Nazca Plate, 340788
Mexico, Gulf of, regional aspects, 010640
minor element, geochemistry, 360929
Miocene, 590611
Moroccan Basin, margin, 500812
Natal Basin, volcanic sediment, 250528
oldest sediment, Atlantic Ocean N, 020424
ooze, calcareous, dissolution, 700371
ooze, siliceous, 291150
 diatom assemblages, 291150
oxygen, Paleogene, 710409
Pacific Ocean, 590612
Pacific Ocean C, paleoceanography, 850982
Pacific Ocean N, 860763
 chalk, 190908
Pacific Ocean NW, 860763
Pacific Ocean SW
 Eastern Marginal Basin Province, 210902
 unconformities, 210705, 210716
 Western Marginal Basin Province, 210903
Pacific Plate, tectonic evolution, 320930
paleoenvironment, 47B0403
paragenetic assemblages, Assemblage IIA(+), 710425
Pendragon Escarpment, 800979
Philippine Sea, 590611, 590612, 590621
Mariana Trough, 600431
regional problems
 carbonate, 061302, 061303
 sedimentation history, 170919, 170920, 170921
sea level, change, 760907
sediment, Cretaceous-Eocene, 840947
sediment history, 200612
sedimentary record, 320926, 320928, 320929, 320930
Hess Rise, 320929
Japan, 320927
Shatskiy Rise, 320928
sedimentation, geochemical aspects, 710435
sedimentology, sedimentation rate, 340789, 340790
Shikoku Basin, 580695
 basalt, 580896
 silica, diagenesis, 170393
Southern Ocean, 710474
southwest regional unconformities, 210716
 geographic variability, 210718
tectonic history, 430791, 430793, 430811
 Cretaceous, 430795
 Horizon A*, 430812
 Jurassic fluctuations, 430793
 limestone, 430793
 lysocline, 430794
 Maestrichtian depression, 430812
Tertiary, 140822
turbidites, flysch, 250444
uplifting, 590613
West Mariana Basin, 590605
 Miocene, 590611
 uplifting, 590613
 water-sediment interface, 590609, 590611
Wharton Basin, 220818
carbonate, cryptocrystalline, Pacific Ocean SE, basalt, 340216
carbonate, crystalline
 diagenesis, carbonate, 210503
 diagenesis, burial, pelite, 230438
 Nankai Trough, turbidites, 870916
 Pacific Ocean SW, diagenesis, 210503
carbonate cycle, 901203
 Africa, continental margin NW, 410977, 410979, 410980, 410981, 410982, 410983, 410984
 carbon, organic, 711054, 711061
 clay, 410973
 Cretaceous, lithology, 711054
 cycle description
 Atlantic Ocean NE, 750920
 Caribbean Sea, 750920
 clay, 750920
 Pacific Ocean EC, 750920
 equatorial high-productivity belt, 850973
 Falkland Plateau, shale, black, 711051
 lithologies, major, ooze, 901481
 lithology, 500138
 nannofloral analysis, 711061
 Falkland Plateau, 711058
 paleoenvironment, 47A0679
 shale, black, Falkland Plateau, 711051
 Walvis Ridge, 750905
carbonate, diagenetic
 Baja California, isotopes, 630595
 basalt, mineral, secondary, 340427
 calcium carbonate, ooze, diatomaceous, 641270
 California S, isotopes, 630595
 geochemical history, Albian, 710406
 geochemistry, Cenozoic sediments, 42B0562, 42B0584, 42B0587, 42B0588
 Guatemala, trench, 670524
 interstitial water, plagioclase, 100620
 isotopes
 Baja California, 630595
 California S, 630595
 isotopic survey
 Baja California, 630606
 burial, 630595, 630606
 California S, 630606
 carbonate, authigenic, 630606
 cement, dolomitic, 630595
 cementation, 630606
 continental margin sediments, 630595
 deposition, 630605, 630606
 diagenesis, 630608
 dolomite, 630595, 630606, 630607, 630608
 formation timing, range, 630607
 high alkalinity zones, 630607
 hypersaline settings, 630595
 interstitial water chemistry, 630595, 630597
 Mediterranean Sea, 630606
 organic matter, anaerobic decomposition, 630607
 organic matter, microbial decomposition, 630595, 630606
 oxidation, aerobic, 630607
 Pacific Ocean, 630606
 present thermal gradients, 630607
 Red Sea, 630606
 sedimentation rate, 630608
 sulfate, 630607, 630608
 temperature, 630606
 United States, 630606
 Pacific Ocean, bottom sediments, 571316
 Pacific Ocean EC, carbonate, 680487, 680488
 stable isotope, carbonate, 650383
 carbonate, dissolved, 071756
 Atlantic continental margin, interstitial water chemistry, 070884, 080855, 100613, 111011, 160573
 carbonate, secondary, vein, 580908, 580909
 Hellenic Trough, interstitial water chemistry, 130810
 Mexico, Gulf of, interstitial water chemistry, 100613
carbonate, evaporitic
 Messinian environments
 Lago Mare, 42A1023
 salinity crisis, 42A1005
carbonate event
 calcium carbonate
 isotopic record, 850742
 sedimentation, 920312, 920313
 carbonate, stratigraphy, 920310, 920311, 920312
 Pacific Ocean C, paleoceanography, 850981
 paleoceanography, 850966
 Reflector Green, 850966
carbonate, Fe-rich
 geochemistry, Cenozoic sediments, 42B0588
 Guatemala, trench, 670519
 interstitial water, concretion, 870870
carbonate, magnesium
 carbon, 090797
 Cenozoic sediments, lithology, mineralogy, geochemistry, 450327
 chalk, calcite, paragenesis, 260595
 chemistry, 370367
 garnet, metasomatic, paragenesis, 260595
 geochemistry, igneous rocks, 370735
 interstitial water, 870870
 isotopic composition, Messinian sediments, 42A0637
 Mississippi Fan, formation, 960716
carbonate, micritic
 Black Sea, sediments, 42B0381
 diagenesis, aspects, 901486
 Guatemala, trench, 670518
 lithology, 500131
 Neogene formations, paleogeography, 42A0912
 siltstone, lamination, 320542
 carbonate mineral, 130788
 basalt, flow, 550653
 Black Sea, sediments, 42B0381
 calcite, 130788
 isotopic composition, 130788

- California, continental margin, 630757
carbon, geochemistry, 380799
carbon isotope, 130788
carbonate, 42A1211
carbonate, authigenic, 870670
formation, 870676
carbonate, secondary, vein, 580905
crust, oceanic, aging, 511569
dolomite, 130789
isotopic composition, 130789
Emperor Seamounts, 550421
environment, 42A0447
gas, natural, zonation, 110795
Greenland Sea, other mineral components, 38S0237
hydrocarbon, aliphatic, dilution, 720836
interstitial water, mineralogical studies, 410907
limestone, dolomitization, 42A0622
Miocene, Messinian salinity crisis, 720987
Norwegian Sea, other mineral components, 38S0237
oxygen isotope, 130788
pore water chemistry, pore-water differences, 960693
sapropel, sedimentology, 42A0447
sediment-interstitial water interaction
ankerite, secondary, 571270
calcite, secondary, 571270
sedimentation, 42B0614
carbonate, 42B0612
stable isotopes, 550653, 550654, 550655
strontium, 42B0614
carbonate, 42B0612
Suiko Seamount, stable isotopic study, 550653
carbonate, Mn-rich
Bermuda Rise, basalt, 511204, 511211
nodule, 680481
Pacific Ocean EC, 680481
Pacific Ocean EC, carbonate, 680487
carbonate nodule, 561089, 561094, 660453, 680481, 680482
Al₂O₃ content, 561094
burrows, 680481
calcite, 680481, 680482
calcium, 680482
carbon isotope
carbonate, organic, 680483
diffusion, 680483
dilution, 680483
pore water, 680483
carbonate, 680482
clay, 680482
England S, 680481
chalk, 680481
Honshu, 561094
isotope, 680482
organic content, 680482
isotopic variation, 680487
mud, lime, 680488
Japan, forearc, 870917
Japan Trench, 561098
Al₂O₃ content, 561094
anaerobic decomposition, 561097
anaerobic environment, 561097
breccia, 561090
CaCO₃, 561094
diagenesis, 561089, 561097
diatom assemblages, 561097
fossil planktonic diatoms, 561094
manganese oxide, 561094
P₂O₅ content, 561094, 561097
paleontology, 561094
petrography, 561090, 561094
SiO₂ content, 561094
stratigraphic position, 561089
lithology, 180216
manganese, 680481, 680482
production, 680483
manganese oxide, 561094
Middle America Trench, 660453, 660454, 660463
calcite, 660459, 660460
carbon, organic, 660462
dolomite, 660461, 660462
isotopic analysis, 660459
mineralogy, 660455, 660456, 660457
rhodochrosite, 660462
mud, 870916
Nankai Trough, turbidites, 870916
ooze, nannofossil, 680481
oxides, 680482
oxygen isotope, 680483
fractionation, 680483
temperature, 680483
Pacific Ocean EC, 680481
pyrite, 680482
rhodochrosite, 680481
scanning electron microscopy, 870662
silicon, 680482
source, 680488
burrows, 680488
carbonate, 680488
oxidation, 680488
stratigraphic position, 561089, 561090
sulfur, 680482
carbonate nodule, authigenic, 870659, 870662, 870663, 870664
carbonate nodule, manganese-rich, Pacific Ocean E, 680481
carbonate, organic, carbonate nodule, carbon isotope, 680483
carbonate platform, 100711, 110014, 110810, 110813, 110817, 110818, 110819, 220005, 220119, 500733, 500746
Africa NW, continental margin, 790449, 790450
Al Jadida Escarpment, sediment, consolidated, 790366
Al Jadida Plateau, sediment, consolidated, 790366
Al-Jadida, 790465, 790474, 790476, 790867, 790889
continental margin, 790439, 790896, 790902, 790903, 790914, 790917
Jurassic cenozoone fossils, 790452
limestone, 790449
Atlantic continental margin, 790439, 790888
Atlantic continental margin NW, evolution, 440957
Atlantic Ocean, margin, 481104
Atlantic Ocean N, 950774
Mediterranean Sea, 110805, 110810, 110813, 110817, 110818, 110819
Atlantic Ocean NE, evolution, 411225
Bahama Islands, geology, 110877, 110878, 110879, 110882, 110885, 110891, 110893
Blake, 760005
calciurbitides
drowning, 500746, 500747
limestone, micritic, 500744
Campeche Bank, 100681
biostratigraphy, 100681
continental margin, structural evolution, 481042
continental platform, 500747
demise, 760757
deposition, carbonate, 790888, 790889
drowned, 500733
Essaouira Basin, drowning, 500747
evolution, 790857
Florida, 770733
formation, 790372
Goban Spur, continental margin, 801161
Jurassic
Mazagan Plateau, 790802
Morocco, 790863
Jurassic cenozoone fossils, Al-Jadida, 790452
limestone
Al-Jadida, 790479
Jurassic, 790458, 790459, 790474, 790476
lithology, 440167
Campanian, 110014
deposition, 480116, 480162
Mazagan Escarpment, 790902, 790903, 790914, 790915
Mazagan Plateau, 790369, 790370, 790372, 790497, 790896, 790914
Jurassic, 790802
Mesozoic, North America E, 790857
Mexico, Gulf of, regional aspects, 010624
Moroccan Basin, margin, 500809, 500811, 500819
North America E, continental margin, 790857
Santos Plateau, origin, 390940
sediment, consolidated, sediment, soft, 790366
sedimentology, Mexico, Gulf of, 100711
Tethys N, margin, 440957
Valanginian, 500733
see also carbonate bank salt; individual compounds
carbonate, recrystallized
chert, formation, 320445
interstitial water, 920425
basement, 100621
isotopic study, carbonate, biogenic, 590637
limestone, stable isotope, 150795
lithology
burrow mottling, 370030
Line Islands, 080139
carbonate reef
Atlantic Ocean, 790868
Atlantic Ocean NE, evolution, 411223
limestone, oolitic, Ita Mai Tai Guyot, 200101
seismostratigraphy, 801118
carbonate, secondary
Atlantic Ocean W, mineralogy, 040326
basalt, altered, geochemistry, 580810
geochemistry, igneous rocks, 370748
isotopic composition, 370608
Philippine Sea, 580905
vein, stable-isotope evidence, 580905, 580906, 580907, 580908, 580909, 580910
carbonate, shallow-water
Bahama Islands, geology, 110886, 110893
Beata Ridge, Eocene, 040668
Cape Bojador, continental margin, 47A0808
formations drilled, exposed land, 42A0897
lithology, Cenozoic deposits, 47B0044, 47B0048
Pacific Ocean SW, paleomagnetism, 901273
Pacific Ocean W, guyot, 200664, 200666
sedimentation rate, calcareous biogenic productivity, 901485
carbonate shelf
Africa, continental margin NW, 410967
Africa NW, continental margin, 411133
Atlantic Ocean N, Mediterranean Sea, 110805, 110819
Bahama Islands, geology, 110893
flysch, 500752
lithology, 440171
ooze, chalk, 120048
carbonate, siliceous
Costa Rica Rift, chalk, 690406

- lithology, deposition, 480163
carbonate-apatite
Emperor Seamounts, mineralogy, 550468
Pacific Ocean W, guyot, 200659, 200662, 200666
carbonate-fluorapatite
carbon, organic, geochemistry, 750827
mineralogy, 850782, 850796
Pacific Ocean SE, mineralogy, 920393
trace elements, partitioning, 850796
Carbondale, California, 630815
carbonic acid
isotopic study, hydrothermal alteration, 590638, 590639
saline water, chemical model, 200883
carbonite nodules, Japan Trench, 561089
carbonization
hydrocarbon, extractable, organic
petrology, 640841, 640849
Pacific Ocean W, 310621
palynological residue, organic matter, maturation index, 640746
Shikoku Basin, 310621
temperature history, 181077
diagenesis, 181077
hydrogen, 181077
kerogen, 181077
nitrogen, 181077
organic material, 181077
oxygen, 181077
carboxylic acid
acyclic components
alkanoic acid, 660563
alkenoic acid, 660563
carbon number ranges, variation, 660563
major homologs, 660563
Atlantic Ocean N, lipid, 480969, 500651, 500653
chlorophyll, diagenesis, 571402
chlorophyll derivatives, 310908
cyclic, aromatic components
amyrin, 660564
bishomohopanoic acid, 660564
dehydroabietic acid, 660564
homohopanoic acid, 660564
triterpenoid acid, nonhopanoid, 660564
diagenesis, 660567
hydrocarbon, higher weight, 080877, 090861, 090866, 090879, 090887, 090888, 090889, 090900
limestone, Albian, 620925, 620926, 620927, 620930
lipid, 571367, 630763, 640914
bishomohopanoic acid, 640915
distribution, bimodal, 640914
even-odd preference, 640915
straight-chain components, 640914
unsaturated, branched components, 640915
preliminary organic analyses, 100636, 111015, 111021, 160577, 170562, 170563, 170568, 170576
distribution, 170577
esters, 111016, 160576, 160585
shale, black, Cretaceous, 751022, 751029
tetrapyrrole, geochemistry, 630785, 630786, 630802
Cargados Carajos Bank, 240008, 240480, 240482
Cariaco Basin, 130720, 151078, 200907, 200935, 200937, 210909, 220671, 230876, 230971, 270993, 430640, 600501, 640759, 640798, 640799, 660863, 750003, 750035, 750510, 840690
amino acid, 200941
sediments, 200941
amino sugar, 200937, 200941
ammonia, 200941
carbon, organic, 200905
Caribbean Sea, 540514
gas
chemical composition, 200773
isotopic composition, 200773
immature open marine sediments, 590642
interstitial water, 200773
organic geochemistry, 200907
organic matter, 200937
geochemistry, 200935
Pacific Ocean NE, 151091
paleoclimatology, Quaternary, 960659
Paratethys, paleogeography, 42A0988
radiocarbon age, 660863
sulfate, 200887
Cariaco Trench
carbon, geochemistry, 590642
gas, interstitial, stable isotopes, 640817
humic acid, kerogen, 711048
interstitial water, 200773
amino acid, 200941
ammonia, 200941
carbon, organic, 200905
organic geochemistry, 200907, 200935, 200937
sulfate, 200887
kerogen, 711048
laminated/nonlaminated sediments, organic
geochemistry, 640924
limestone, Albian, 620934
methanogenesis, sediments, 640759
organic geochemistry, 200907, 200908, 200910, 200912, 200924, 38S0360, 38S0627, 38S0629
acid-extract, 38S0632
alkane, 200929, 38S0633
bacterial organic matter, 38S0635
carbon chain lengths, 38S0635
esters, 200925
fatty acid, branched, 38S0635
higher plant material, 38S0635
hydrocarbon, 200918, 38S0633
major steroidal compounds, 200917
nitrogen atmosphere, 200911
norphytane, 200915, 200925
organic molecules, 38S0633
perylene, 38S0635
phytadiene, 200915, 200925
phytol, 38S0635
steroidal compounds, 200929
total extract, 38S0630, 38S0632, 2009212
triterpane, pentacyclic, 200929
radiocarbon dating, Guaymas Basin, 640758
tetrapyrrole, geochemistry, 630805, 630814, 640798
Carib beds
Venezuelan Basin
deformation, 040666
deposition, 040666
Caribbean Plate, 110888, 151039, 151047, 151105, 600927, 610817, 610824, 660847, 670497, 670580, 670582, 670675, 670691, 670704, 670739, 670744, 670754, 670755, 670762, 670792, 680403, 680404, 670743, 780083, 780094, 780347, 780422, 780471, 780549, 780566, 780567, 780583, 780593, 780601, 780602, 780619, 840805, 840831, 840861, 840866, 840868, 840879, 840892
American Plate, boundary, 660787
Atlantic Ocean, 150218
Bahama Islands, geology, 110878, 110888
Barbados Ridge, subduction, 780602
convergence, 780025, 780593, 780614
crust, 780049
deformation, 780473
eastern margin, 780023
geodynamic evolution, 780096
geophysical data, Cocos Plate, 840941
geothermal date, 780593
Middle America Trench, origin, 670739
motion, 780025
origin
Middle America Trench, 670739
Pacific Ocean, 670747
plate-interface zone, 840866, 840868
seismic velocity, 840866, 840868
subduction, 780049, 840861, 840866
subduction zone, 780025
Caribbean Sea, 010640, 020004, 030158, 040003, 040009, 040017, 040037, 040059, 040077, 040093, 040125, 040145, 040215, 040243, 040267, 040315, 040578, 040591, 040592, 040599, 040659, 040666, 040677, 040687, 050566, 061260, 071264, 090005, 091074, 100025, 100187, 100195, 100259, 100457, 100615, 110224, 110504, 120428, 120974, 121115, 130254, 131266, 131291, 131293, 131349, 131360, 140492, 140964, 151077, 160151, 160656, 160714, 170505, 170620, 200107, 200661, 200757, 200905, 210660, 210886, 220544, 230020, 230876, 231007, 240865, 240969, 250199, 250493, 260485, 260773, 270747, 290730, 330375, 330467, 330801, 330880, 340194, 340742, 350560, 38S0279, 38S0787, 38S0887, 38S0919, 38S0933, 390488, 390903, 390907, 391121, 430857, 47B0724, 540517, 540881, 590636, 610147, 610450, 610674, 610825, 610861, 620685, 670754, 670791, 680033, 680245, 680275, 680276, 680292, 680301, 680327, 680348, 680353, 680356, 680357, 680361, 680365, 680407, 680419, 680455, 680479, 720807, 720873, 721017, 730459, 750532, 760823, 760825, 760831, 760842, 760924, 780025, 780097, 780325, 780345, 780454, 780499, 780506, 780507, 790654, 800524, 800570, 801002, 810045, 810484, 810595, 810596, 810621, 820582, 840363, 840387, 840923, 840949, 850408, 850668, 860441, 890556, 900841, 900962, 901261, 901262, 901274, 901385, 930506, 930527, 930977, 930998, 931357, 931358, 950352, 950441, 950511, 950565, 950570, 960658
age, 540887
Atlantic Ocean, margin, 481100
Atlantic Ocean NW, sedimentary evolution, 430815
Atlantic Ocean S, Sierra Leone Rise, 391123
Bahama Islands, geology, 110885
basalt
compressional wave velocities, 151013
Cretaceous, 150989, 150990, 150992, 150993, 150994, 150995, 150999, 151000, 151002
East Pacific Rise, 411109
petrology, 580864, 580865
basalt, flood, 890507
basin, 020422, 040145, 040243, 040665, 200107, 290555, 290563, 580865, 610705, 710753, 780505
crust, 610705
magnetic anomaly, 610705
sill, 610705
Beata Ridge, 610433
biostratigraphy
climatic history, 960658
paleoenvironment, 840949
calcareous nannoplankton, Central America, 440743
carbon, 040307, 151129
carbon isotope
carbonate, 200891

- carbon isotope (Cont.)
 interstitial water, 200891
 silicate, 200891
 stratigraphy, 680455
 carbonate, 040307, 151129
 chemistry, 200831
 major element, 200831
 Cariaco Basin, 540514
 central, 131393
 Central America, Pliocene-Pleistocene, 150974
 chlorophyll derivatives, 200943
 sediments, 200943
 clay, 150923
 CO₂
 interstitial water, 200865
 isotope, 200775
 release, 200851
 coast, 670753
 Colombian Basin, isotope stratigraphy, 680452
 compressional wave velocities, 151015
 crust, 780030, 780086
 origin, 151105
 crust, oceanic, 760903
 current, 680394
 cycle description, carbonate cycle, 750920
 deposition
 chalk, nannofossil, 250493
 ooze, nannofossil, 250493
 diagenesis, gypsum, 020422
 dolerite, Cretaceous, 150989, 150990, 150992, 150993, 150994, 150995, 150999, 151000, 151002
 gas
 interstitial water, 200773
 isotopic composition, 200773
 gas, dissolved, interstitial water, 200765
 gas, inert, interstitial water, 200777
 geochemistry, 040645, 200745
 glacial cycles, deep-sea environment, 800811
 grain size, 040295, 200953
 history, 040659
 igneous rocks, chemical composition, 590725
 illite/montmorillonite ratio, 150923
 inorganic geochemistry, sediments, rocks, Mid-Pacific Mountains W, 620685
 interstitial water
 chemistry, 040401, 040415, 151069, 200751, 200783, 200813
 major ions, 200805
 islands, 140729, 460004, 500368, 770585, 950796
 Central America, 670753
 formation, 330507
 isoleucine, racemization, 200947
 isotope variability
 carbon isotope, 680455
 oxygen isotope, 680455
 Lord Howe Rise, isotope stratigraphy, 901385
 major element
 carbonate, 200831
 chemistry, 200831
 Mexico, Gulf of, regional aspects, 010640
 microfascies, sediments, Antilles, 440493
 Northern Hemisphere, glaciation, 720987
¹⁸O, sulfate, 200887
 organic geochemistry, 200907
 oxygen
 carbonate, 200891
 interstitial water, 200891
 silicate, 200891
 oxygen isotope, stratigraphy, 680455
 Pacific Ocean, 760879
 Pacific Ocean EC, geologic history, 090928
 Pacific Ocean NE, cruise synthesis, 151098, 151099, 151105, 151107
 paleoenvironment, 950511
 paleomagnetism, 040439, 151017, 151019, 151020
 Panama, Gulf of, 900003
 physical properties, 151067, 151115
 Quaternary isotopic record, Atlantic Ocean, 680464
 Quaternary sediments
 carbon isotope, 680455
 oxygen isotope, 680455
 Rio Grande Rise, sedimentation, 721017
 salinity, interstitial water, 200877
 seamounts, 200661
 sediment, age, 511525
 sediment age, 511533, 540887
 sedimentary structure, 150833
 epigenetic structures, 150834, 150835
 syngenetic, 150833, 150834
 sediments, chemistry, 150929, 150930, 150932, 150933, 150934, 150935, 150936, 150937, 150938, 150939, 150940, 150941, 150945
 sorting, 040295, 200953
 Sr isotope, island arc, 590725
 stratigraphy, Colon Ridge, 680361
 stratigraphy, foraminiferal, basin, 450322
 sulfur, pore water, 200811
 synthesis, 151077
 tectonic history, volcanism, 430815
 tectonic plate, 110878
 tetrapyrrole, 040431
 time stratigraphic framework, 040677
 volcanic activity
 volcanic mineralogy, 150969, 150970
 volcanism, 150971
 volcanic islands, tectonics, 780301
 volcanism, 020395, 150969, 150972, 150973, 330779, 340605, 340608, 411117, 930981
 geochronology, 411117
 mineralogy, 150969, 150970, 150971, 340605, 340606
 Pliocene-Pleistocene, 150971, 150972, 150974
 seamounts, 330779, 330780, 330781, 330783
 volcanic mineralogy, 150969, 150970
 volcanism, explosive, 150969
 Neogene, 310587
 X-ray mineralogy, 040325
 zonation, 960602
 Caribbean Sea C
 amphiboles, chemistry, 150963
 basalt
 compressional wave velocity, 151013
 Cretaceous, 150989
 carbonate, dissolution, 150805
 dolerite
 compressional wave velocity, 151013
 Cretaceous, 150989, 150990, 150992, 150993, 150994, 150995, 150999, 151000, 151002, 450437, 450439, 450441, 450480, 450519, 450520, 450521, 450522, 450523, 450525, 450526, 450529, 450530, 450531, 450532, 450533
 limestone, 150773, 150775
 alignment, 150774
 biomicrite, 150774
 cementation, 150776
 cementation gradient, 150775
 chalk, 150773, 150774
 compaction, 150776
 micrite, 150774
 neomorphism, 150776
 Olausson classification, 150773
 stable isotope relationships, 150795
 ultrastructure, 150775
 vein, 150775
 mineralogy, 150929
 mixed layer clay, 150923
 paleomagnetism, 151017
 igneous rocks, 151017
 pyroxene, 150963
 chemistry, 150963
 sediment chemistry, 150929
 sedimentary, structure, 150833
 sedimentary structure, 150833
 biogenic, 150813
 stable isotope, limestone, 150795
 volcanism, explosive, 150969
 X-ray mineralogy, 150847
 Caribbean Sea E, 670750, 780025, 780051, 780083, 780085, 780301
 bathymetry, 780084
 current, 680392
 deposition, 780301
 evolution, 780085
 magnetic anomaly, 151023
 Beata Ridge, 151023
 Caribbean Sea, 151024
 comparison of airborne and sea, 151023
 Venezuelan Basin, 151023
 microtektite, Eocene, 151031, 151032
 sediment distribution, 780301
 Caribbean Sea W, 680005, 680167, 680270, 680289, 680347, 680360, 680383, 680391, 680397, 680452, 780093
 Challenger Plateau, Quaternary, 901420
 geochemistry, 680475, 680476, 680478
 stratigraphy, carbonate, 680347
 Cariblanco Formation, 140496, 150973
 Carioca Basin, lithology, 150413
 Carlingford, 380751
 Carlsbad albite
 Peter I Island, geology, 350351
 volcanic rocks, petrography, Geisha Guyots, 200683
 Carlsberg Ridge, 090919, 220421, 220425, 230005, 230118, 230128, 230132, 230168, 230178, 230212, 230491, 230503, 230504, 230509, 230529, 230531, 240003, 240007, 240327, 240607, 240651, 240656, 240721, 240722, 240781, 240827, 240859, 241071, 241122, 241125, 241137, 250065, 250087, 250481, 250498, 250536, 250663, 250746, 260075, 260913, 260918, 820515
 Arabian Sea, history, 231119
 deposition, depositional paleoenvironment, 250498
 Indian Ocean, geophysical measurements, 240607
 Indian Ocean S, geologic history, 260913
 Indian Ocean W
 regional aspects, 250746
 tropical, 240637
 Pacific Ocean EC, geologic history, 090919
 proto-Carlsberg Ridge, 240007, 240327, 241137
 sea floor spreading, history, 250663
 secondary mineralogy, substrate control, 830257
 see also Arabian Sea; Indian Ocean S; Indian Ocean W
 Carmen Basin, 640211, 640597
 Carmen Formation, 641007
 Carmen Silva Formation, 901107
 Carmona, Italy, Sicily, 131362
 carnallite
 Atlantic Ocean N, basins, 790520
 bromide, 790517
 evaporites, Miocene, 131237
 lueneburgite, Miocene sediments, 42A0662
 Mazagan Escarpment, 790513, 790514, 790520

- Red Sea
geochemistry, 230985
interstitial water, 230957
- Carnarvon Basin, 061287, 220019, 220807, 220809, 220828, 260750, 260773, 270460, 270571, 270573, 270578, 270585, 270978, 360536, 440890
- Australia W, continental margin, 270573, 270578, 270582, 270583, 270584
regional summary, reconstruction, 220828
see also Indian Ocean E
- Carnegie Passage, 690375, 690376
- Carnegie Ridge, 160003, 160019, 160049, 160053, 160151, 160529, 160610, 160622, 160633, 160664, 160671, 160899, 340381, 340459, 340513, 340803, 340804, 401046, 540317, 540826, 680246, 690375, 690376, 690747, 700308
- Carnegie Platform, 920218, 920220
chlorite, 540317
comparisons, other volcanic provinces
aseismic ridges, 540826
spreading ridge, 540826
crust, thermal history, 690471
deposition, 340805
East Pacific Rise, basement, 540827
eastern termination, 540315
lithology, 160061
mixed isotope and radio chemical model, uranium, 700308
- Panama Basin, tectonics and sedimentation, 160899
smectite, authigenic, 540315
tectonics and sedimentation, 160899
topography, 340805
- Carnian Alps, 131115
- Carolina Basin, 080866
- Carolina Trough, 931386
- Carolina Platform, 950726
- Caroline Abyssal Plain, 200547, 430613, 430813, 890654
- chalk, Mesozoic, 200065, 200066, 200067, 200068, 200069, 200071, 200073, 200074
- East Mariana Basin, sedimentary history, 890654
- Pacific Ocean NW
age, 200727
lithology, 200715
sedimentary evolution, 430813
sedimentary sequence, lithology, 200725
seismic profiles, 200547
velocity, 200641
- Caroline Basin, 071164, 071165, 170600, 200323, 200342, 300702, 300704
- Pacific Ocean SW, island arcs, 300702, 300704, 300705
- Pacific Ocean W, equatorial, 071165
- Caroline Islands, 060013, 060014, 070049, 160663, 200065, 200074, 200221, 200324, 200339, 200359, 200487, 200645, 200736, 330735, 600561, 610038, 610115, 610523, 610549, 610553, 610590, 610634, 610763, 610822, 890097, 890160, 890339
- East Mariana Basin, 890390
- Line Islands, tectonics, 330735
- Paleogene-Neogene, 310837
- Philippine Sea, Paleogene-Neogene, 310837
- Caroline Ridge, 060012, 060013, 060014, 060389, 060449, 060493, 060496, 060539, 060543, 060557, 060692, 060723, 060752, 060758, 060759, 060833, 060839, 061123, 061138, 061218, 061246, 061247, 061249, 061250, 061251, 061259, 061261, 061267, 061280, 061288, 061290, 061291, 061294, 061301, 061303, 061325, 070003, 070007, 070027, 070049, 070050, 070329, 070338, 071164, 071165, 170052, 200074, 300696, 890097
- basin genesis, 310874, 310875
geophysical, 060692
- Pacific Ocean SW, island arcs, 300696
- Pacific Ocean W, equatorial, 071164
- Philippine Sea, lithology, 061138, 061246, 061247, 061249, 061250, 061251
- Philippines, genesis, 310874, 310875
- physical properties, 061247, 061251
clay, 061138
porosity, 061246
sound velocity, 061249
thermal conductivity, 061250
- regional problems
acoustic stratigraphy, 061303
crust, 061301, 061302
- Caroline Seamounts, East Mariana Basin, 890365, 890373, 890385
- carotene
chlorophyll, diagenesis, 571395
hydrocarbon, higher weight, 090879, 090888
hydrocarbon, C₁-C₇, volatile organic compounds, 571355
insoluble organic matter, 870894
oxidation, 870894
organic analyses, 440621
see also tetrapyrrole
- carotene, beta
chlorophyll, diagenesis, 571406
hydrocarbon, C₁-C₈, Guaymas Basin, 640765
lipid, carotenoid, 571384
- carotenoid
Baja California, geochemistry, 630785
California S, geochemistry, 630785
chlorophyll, diagenesis, 571391, 571395, 571406
geochemistry, 630785
Baja California, 630785
California S, 630785
insoluble organic matter, 870894
lipid, 571367, 571383, 571384
carotene, beta, 571384
diatoxanthin, 571384
Japan Trench, 571386
xanthophylls, 571384
organic geochemistry, 640718
- Patton Escarpment, San Miguel Gap, 630944
- San Miguel Island, San Miguel Gap, 630944
see also tetrapyrrole
- Carpathian Mountains, 110609, 110613, 150773, 410567, 42A0944, 430577
- basins, 42B1043
foredeep, 42A0987
internal, 110802
- Menilit Formation, 480447
- Messinian environments, Lago Mare, 42A1031
- Miocene, Poland S, 790523
- Paratethys, paleogeography, 42A0987, 42A0989
- Poland S, Miocene, 790523
- Tethys, Mediterranean Sea, 42A0944
- Carpentaria, Gulf of, 300679
- Pacific Ocean SW, Cenozoic, 300679
- Carpenter's Ridge. *See* Ninetyeast Ridge
- Carson Basin, 47B0026, 47B0029
- Carstone Formation
Isle of Wight, Sandrock Formation, 800617
Sandrock Formation, Isle of Wight, 800617
- Cartagena, 130770, 840833
- Carteret Canyon, 950603, 950729, 950733, 950734, 950735, 950739, 950740, 950745, 950752, 950753, 950756
- grooved substrates, 950746
- sea floor morphology, 950734, 950752
- topography, 950603
- Cartwright Arch, 801103, 801106
- Atlantic Ocean N, Precambrian features, 801103
- Cartwright Fracture Zone, 481062
- Rockall Plateau W, stratigraphy, 481062
structural evolution, tectonic history, 481062
- Caryn Seamount, 430734
seamounts, bathymetry, 430734
- Casablanca, 790365, 790369, 790377, 790509, 790543, 790551, 790775
coaly organic matter, 790493
- Casamance, Senegal, continental shelf, 931139
- Cascade Range, 050536, 050539, 180937, 180964, 870939
deformation, framework, 870939
magma, calc-alkalic, 590789
Japan, 590789
mudstone, petrology, 180909
sand, mineral, heavy, 180878
- Cascadia Basin, 050539, 050590, 180103, 180961, 180964, 180965, 180980
eastern, 180980
lithology, 180103
overconsolidation, 870843
permeability, mudstone, 870843
sediments, overconsolidation, 870843
site survey, structure, 180980
tectonic history, 180961
history, 180961, 180964, 180965
Tufts Plain, structure, 180980
- Cascadia Seachannel, 180098, 180980
- Casnigo terrace, 120959
- Caspian Sea, 42B0518, 42A0778, 42B0856, 42B1017, 42B1043, 42B1158, 960785, 040427, 130973, 130982, 131007, 131224, 200107, 42B0003, 42B0017, 42B0120, 42B0487
- Kara Bogaz Gol, 42A1023
- Messinian environments, Lago Mare, 42A1017, 42A1019, 42A1022, 42A1023, 42A1025
- methanogenesis, sediments, 640762
- Paratethys, paleogeography, 42A0989
- Pigmy Basin, biological markers, 960785
- plate, 42A0988
regional relationships, 42B0647
- Caspian Subplate, Paratethys, paleogeography, 42A0988
- cassiterite, Falkland Plateau E, sedimentation, 360880
- Castellania River, 100645
- Castile Formation
Delaware Basin, Permian, 790522
Permian, Delaware Basin, 790522
- Castle Hayne Formation, 120433, 931399, 950262, 950263, 950269
- Castries, St. Lucia, 780094
- Cat Gap, 010179, 060013, 110977, 140429, 411000, 760005, 760177, 760181, 760440, 760446, 770343, 770723, 950805
- Atlantic Ocean NE, evolution, 411225
- Atlantic Ocean NW
lithology, 110922, 110944
regional aspects, 110951, 110956, 110957, 110958, 110960, 110967
- Bahama Islands, 770725
- Blake Basin, 440204
currents, 110947
flow, 110944
islands, 110878
Mediterranean Sea, 110813, 110814
sedimentary environments, San Salvador, 440971
seismic reflection, 110977
- Cat Gap Formation, 760010, 760017, 760153, 760159, 760162, 760172, 760177, 760179, 760180, 760181, 760183, 760189, 760201,

- 760203, 760205, 760206, 760209, 760211, 760217, 760220, 760221, 760223, 760224, 760228, 760229, 760234, 760237, 760356, 760362, 760378, 760405, 760411, 760437, 760442, 760473, 760481, 760482, 760489, 760491, 760538, 760544, 760547, 760554, 760561, 760565, 760571, 760588, 760591, 760623, 760626, 760633, 760634, 760642, 760671, 760672, 760675, 760722, 760781, 760782, 760788, 760791, 760805, 760834, 760857, 760861, 760879, 760898, 760899, 760901, 760914, 760920, 760935, 760941, 930087
- Atlantic Ocean NW, 790889
- Jurassic sedimentation, 760857, 760861
- microfossils, 760859
- Miocene debris flow deposits, 760196
- Oxfordian section, 760190
- Oxfordian to Kimmeridgian, 760202
- principal objectives achieved, summary, New Jersey Transect, 950807
- revised boundaries, 760914, 760941
- sedimentation rate, organic matter, 760782
- sediments, 760437, 760440, 760443
- organic matter, 760473, 760482, 760491
- petroleum generating potential, 760489
- seismic horizons, 760671, 760672
- Cat Island, 110878
- Bahama Islands, geology, 110878
- cataclasis
- basalt, Middle America Trench, 840804
- basalt, pillow, Middle America Trench, 840804
- gabbro, Middle America Trench, 840804
- ophiolite, Middle America Trench, 840804, 840805, 840806
- Ross Sea, basement, 280867
- catagenesis
- alteration, diagenetic, organic matter, 571305
- bitumen
- geochemistry, 42B0683
- organic matter, 571331
- carbon
- deep-sea sediments, 580749
- geochemistry, 590641, 590642, 590644, 610622, 610623
- diagenesis, thermally controlled, 630945
- geochemistry, 720431
- hydrocarbon, C₁-C₈
- Baja California, 630781
- San Miguel Gap, 630775
- temperature, 630775, 630783
- kerogen, sediment cores, 42B0737
- limestone, Albian, 620929
- Neogene cores, organic geochemistry, 42A0469, 42A0470, 42A0471
- nitrogen, deep-sea sediments, 580749
- organic geochemistry, 571297
- bitumen, 640718
- organic matter, 640717
- products, 640939
- organic matter, migration, 630943
- Patton Escarpment, perylene, 630945
- petroleum generating potential, thermal history, 380801
- San Miguel Island, perylene, 630945
- sapropel, Cretaceous, 620891, 620892, 620893, 620894, 620895
- shale, black, Cretaceous, 410869
- tetrapyrrole, geochemistry, 630788, 630804, 630807, 630808, 630810, 630811
- catagenesis, burial
- contact metamorphism, kerogen, 410824
- sediments, 410824
- Catalina Basin, Pliocene rocks, 630911
- Catalonia, 131227, 131439
- geological, geophysical setting, rifting, 42A0889
- grabens, 42A0958
- margin, 42A0889, 42A1042, 42A1045
- canyons, 42A1045
- Cathedral Trough, 290045, 290046
- cation
- alteration, mineralogy, 540776
- basalt, oxidation, 920481
- thermomagnetic curve, Curie temperature, 630749
- titanomagnetite, deficiency, 340358
- Cato Trough, 300660
- Coral Sea E, geology, 300660
- Catoche Knoll, 100297, 770221, 770255, 770257, 770279, 770282, 770290, 770297, 770300, 770301, 770302, 770381, 770507, 770512, 770515, 770570, 770607, 770613, 770657, 770705, 770713
- geochemistry, 770381
- mineralogy, 770381
- organic analyses, 100301
- carbonate, 100301
- turbidite, 100301
- paleoenvironment, 770381
- Catoche Tongue, 100004, 100297, 100299, 100391, 100679, 100743, 100749, 770257, 770635
- Campeche Bank, biostratigraphy, 100679
- lithology, 100299
- Mexico, Gulf of, regional aspects, 100743, 100747
- Cattolica Basin, 131236, 131239, 42A1071
- evaporites, 131236
- Miocene, 131236, 131237
- Caucasus Mountains, 42B0003, 42B0017, 42B0030, 42B0359, 42B0360, 42B0373, 42B0413, 42B0417, 42B0423, 42B0452, 42B0654, 42A0944, 42B1043, 42B1079, 42B1157, 720757, 050565, 130972, 130982, 200107, 200111, 350819, 381201, 400784, 410567, 410590
- Black Sea, evolution, 42B1147
- coast, 42B1147
- Messinian environments, Lago Mare, 42A1031
- northern, 270983
- orogenic belt, 590681
- Newfoundland, 590681
- rivers, 42B0452, 42B0499, 42B0653
- Tethys, Mediterranean Sea, 42A0944
- Caucasus Strait, 42B0518
- Cauvery Basin, 231004, 231005
- Cavavaca, 730758
- Cay Sal Bank, 110009
- Bahama Islands, geology, 110877, 110883, 110886, 110893
- Cayagan River, structure, 310619
- Cayar Canyon, 411237
- Atlantic Ocean NE, evolution, 411233, 411237
- Cayman Fracture Zone, 660847
- Cayman Trough, 150331, 580854, 580861, 640645, 660108, 780025
- basalt, petrology, 580854, 580861
- fault, 151047
- CCD, 751208
- Agadir Canyon, shoaling, 500008
- Angola Basin
- clay mineralogy, 750847
- geochemistry, 750847, 750850
- geologic evolution, 750512, 750528, 750530
- anoxia, organic richness, 801011
- Atlantic Ocean
- Cretaceous, 750820
- margin, 481099, 481103, 481104, 481110, 481112, 481113
- Atlantic Ocean C
- basin, 511504, 511505, 511506, 511507, 511509, 511510, 511511
- hiatuses, 391101, 391104
- Atlantic Ocean N, Goban Spur, 801007, 801008
- Atlantic Ocean NE, evolution, 411215, 411216, 411218, 411223, 411226, 411227, 411229, 411230, 411232, 411233, 411234, 411239, 411240, 411241
- Atlantic Ocean NW, regional aspects, 110971
- Atlantic Ocean S
- Cenozoic paleoceanography, 730773, 730775
- Cretaceous, 720982
- hiatuses, 391101, 391104, 391105, 391106
- Malvinas Outer Basin, 391109, 391110
- Paleogene, 720983
- Rio Grande Rise, 391125, 391127
- Sierra Leone Rise, 391121
- Atlantic Ocean SE, paleoenvironmental evolution, 740665, 740667, 740672
- Atlantic Ocean SW, basin, evolution, 360994, 361004, 361006
- Aves Ridge, Pleistocene, 040666
- Baja California Seamount Province, deposition, 630939
- Bauer Basin
- sediment, 850793
- structure, 340157, 340159
- Beata Ridge
- deposition, 040668
- fluctuation, 040668
- Biscay, Bay of N, continental margin, 481037
- Biscay, Bay of, margin, 801137
- Brazil Basin, Miocene, 040659
- calcareous nannofossils, biostratigraphy, 920259, 920275
- calcite, deposition, 920600
- carbon
- deep-sea sediments, 580745
- geochemistry, 610621
- carbon, organic
- Brazil Basin, 720834
- C/N ratio, 740732
- carbonate
- dissolution, 750853, 920299
- sedimentation, 47B0732, 47B0736
- chert, 320430
- siliceous sediments, 320443
- clay mineralogy, stratigraphic evolution, 750864
- Colombian Basin, isotope stratigraphy, 680450
- continental margin, structural evolution, 481047
- continental shelf, onshore geology, 400972, 400973, 400975
- Cretaceous/Tertiary boundary, paleoenvironmental history, 740687, 740691
- Demerara Plain, sedimentation rate, 040670
- Demerara Plain N, 040665
- deposition
- bottom water, 250502, 250503
- chalk, nannofossil, 250492, 250493, 250495
- fluctuation, 250503
- ooze, nannofossil, 250492, 250493, 250495
- diagenesis, 920345
- organic matter, 870877
- East Pacific Rise, 540395, 920372
- East Pacific Rise C, biostratigraphy, 920255, 920256
- Europe NW, continental margin, 801187
- fluctuation, 280939
- geochemical history, sedimentation, 710437
- geochemistry, 060832, 720429
- Brazil Basin, 720438

- geochemistry (Cont.)
 fluctuation, 710410, 720438
 Goban Spur, evolution, 801205, 801207, 801210, 801212, 801213
 Guatemala
 offshore sediment, 840621
 trench, 670525
 Hess Rise, post-Jurassic sedimentation, 620826, 620829
 Hess Rise N, post-Jurassic, 620805, 620812, 620814, 620817
 history, 920302
 Antarctica, 920302
 bottom water, 920302
 CaCO₃, 920302
 calcite, 920302
 lysocline, 920302
 Pacific Ocean, 920302
 Pacific Ocean S, 920302
 surface water, 920302
 Iberian margin W, evolution, 47B0761, 47B0766, 47B0770
 Indian Ocean W, regional aspects, 250746, 250753, 250754, 250755, 250756
 inorganic geochemistry, sediments, rocks, Hess Rise, 620688
 interstitial water, 590627, 740701
 Japan Trench
 geology, 870707
 sedimentology, 870910
 sediments, 571254
 lipid, 571387
 lithology, 660683
 Cretaceous, 721022
 major element, argillaceous sediments, 580719
 manganese, carbonate, 801066
 Mexico, Gulf of, regional aspects, 010634
 Middle America Trench, transect, 670608
 mineralogy, 920345
 Miocene, Messinian salinity crisis, 720987
 Moroccan Basin, margin, 500812, 500814, 500817
 Nankai Trough, heat flow, 870741
 New Jersey Transect, stratigraphy, 950770, 950772
 nitrogen, deep-sea sediments, 580745
 oldest sediment, 020423
 Oligocene-Pleistocene sediments, East Pacific Rise, 920296
 ooze, nannofossil foraminiferal
 Eocene, 020417
 fluctuation, 020417
 organic geochemistry
 black-colored sediments, depositional model, 800966
 carbon, organic, 800962
 Porcupine Plain, 800956
 organic matter, Porcupine Plain, 800970
 Pacific Ocean EC, geologic history, 090929
 Pacific Ocean N, chalk, 190908
 Pacific Ocean NW, geochemical history, 620789, 620792, 620797, 620801
 Pacific Ocean SW
 Eastern Marginal Basin Province, 210904
 Pacific Plate, 210902
 paleoceanography, 901500, 901506, 901509
 Western Marginal Basin Province, 210904
 paleoceanography, shoaling, 850966
 pelagic components, distribution, biogenous components, 250486, 250489
 Philippine Basin, genesis, 310859, 310864
 Philippine Sea
 deepening, 590611
 Paleogene-Neogene, 310845
 planktonic foraminifers, history, 920297
 porcellanite
 chert, 320430
 siliceous sediments, 320443
 Porcupine Plain
 temporary elevation, 801197
 unconformities, 801173
 postrift sediments
 Campanian, 801176
 Santonian-Coniacian, 801176
 preservation, 920296
 principal objectives achieved, summary, New Jersey Transect, 950810, 950811
 Puerto Rico Trench, 040665
 reflection horizon, calcium carbonate compensation depth, 040672
 regional problems, carbonate, 061302, 061303
 regional seismic grid, borehole data
 extrapolation
 depositional history, 950790
 Miocene depositional history, 950799
 regional summary, 020415
 sediment geochemistry, 550457
 sedimentation, geochemical aspects, 710435
 sedimentation rate, 020421
 shoaling, Agadir Canyon, 500008
 Southeast Pacific Basin, evolution, geologic, 350734, 350737, 350738
 stratigraphy, seismostratigraphy, 801124
 stratigraphy and evolution, Porcupine Plain, 801183, 801184
 subsidence
 functional definition, 920301
 Pacific Ocean S, 920300, 920301
 postrift, 801133
 synthesis element, 850978
 Tertiary
 Eocene, 801179
 Paleocene, 801177
 thermohaline flow, Quaternary, 720991
 turbidites, flysch, 250444
 Venezuelan Basin, sedimentation rate, 040670
 volcanic rocks, petrography
 Emperor Seamounts, 200700
 submergence, 200700
 Walvis Ridge, 750980
 Angola Basin, 750969
 history, 740875, 740890
 transect, 740646, 740654, 740658, 740660
see also calcite compensation depth;
 calcium carbonate compensation depth;
 lysocline
 CCP Ridge, magma, evolution, 540645
 Cd
 Atlantic continental margin, interstitial water chemistry, 230953
 carbon, organic, geochemistry, 750828
 deposition, models, 750840
 geochemistry, 390477
 Cenozoic sediments, 42B0543, 42B0599
 Hess Rise, rocks, 620863
 inorganic geochemistry, sediments, rocks, 750951
 Angola Basin, 750931, 750933
 shale, black, chemical composition, 410875
see also cadmium
 CDP. *See* common-depth-point
 Ce, 820484
 alteration, products, 450618, 810736
 analyses, 920433
 ash, hygromagmatophile (HYG) elements, 870684
 Atlantic Ocean S, history, 740713, 740715, 740719, 740720, 740721, 740723, 740728, 740729
 Atlantic Ocean SE, Cretaceous, 740781
 basalt
 chemistry, 450447
 Costa Rica Rift Zone, 830155
 geochemistry, 590754, 590761, 590769, 590776, 590781, 590783
 Melanesian Basin, 610705
 Mid-Atlantic Ridge, 820422
 mid-ocean ridge, 820396, 820404, 820408, 820449
 minor element, 490667, 490678, 490682
 petrology, 590676
 rare earth, 370581
 basalt, altered
 geochemistry, 580807, 580808, 580811, 580818, 580822, 580823, 580825, 580828, 580830, 580834
 major element, 580875, 580882
 trace elements, 580875, 580882
 basement
 chemistry, 600623
 geochemistry, 590743, 590748, 590751
 Bauer Basin, basalt, 340239, 340243
 Bermuda Rise
 rare earth elements, 511115, 511116
 trace elements, 511140
 crust, oceanic, 820497
 deep sea sediment, geochemistry, 870652
 East Pacific Rise, hydrothermal
 precipitate, 920383
 Falkland Plateau, basement, 360896
 Galapagos Spreading center, basalt, 540756
 geochemistry, 540766
 basalt, altered, 450618
 Cenozoic sediments, 42B0543, 42B0599
 enrichment, 810715
 magma, 540641
 major oxides, 540371
 positive anomaly, 810715
 Rockall Plateau, 810736
 Hess Rise, iridium, 620849
 Japan Trench
 minor element, 870649
 trace elements, 870649
 magma, mixing, 540842
 mineralogical facies comparison, lithogenous material, 810708
 mineralogy, 540766
 minor element, geochemistry, 360930, 360932, 360934, 360937
 Mounds Hydrothermal Field, chemistry, 540408
 Nankai Trough, geochemistry, 870646
 Nazca Plate, basalt, 340239, 340243
 Pacific Ocean SE, rare earth elements, 920386, 920387
 petrology, 540747
 Philippine Sea
 anomaly, 870645, 870646
 minor element, 870645, 870646
 trace elements, 870645, 870646
 rare earth elements, 850797, 920401
 anomaly, 700319, 850797, 920401
 Bauer Basin, 920404
 distributions, 590653
 negative anomaly, 920401
 shale, 590667
 trace elements, 590663, 590664
 Rockall Plateau, concretion, fossil
 polymetallic, 810702, 810703, 810706
 Shikoku Basin
 anomaly, 870645
 minor element, 870645, 870646
 trace elements, 870645, 870646
⁸⁶Sr/⁸⁷Sr ratio, rare earth elements, 511140
 Suiko Seamount, trace elements, 550561, 550563, 550565
 trace elements, 370581, 650593, 650594, 850785, 850789

- trace elements (Cont.)
 geochemistry, 370573
 iron, 850786
 manganese, 850786
 partitioning, 850797
see also cerium
- Ce/Ba ratio, basalt, glass, 600608
- Ce/Lu ratio, rare earth elements, tuff, 590658, 590660
- Ce/Nd ratio, rare earth elements, geochemistry, 600740
- Ce/Rb ratio
 basalt, Cretaceous, 511087
 trace elements, Cretaceous, 511087
- Ce/Sm ratio
 basalt, Mid-Atlantic Ridge, 820502, 820505
 East Pacific Rise, hydrothermal precipitate, 920383
 Hess Rise, iridium, 620849
- Ce/Tb ratio, basement, geochemistry, 590749
- Ce/Y ratio
 basalt
 chemistry, 920476
 midocean ridge, 820404, 820406, 820407, 820416
 basalt, altered, geochemistry, 580811, 580825, 580839
 tholeiite, basalt, alkali, 540719
- Ce/Yb ratio
 basalt
 chemistry, 920476
 geochemistry, 490625, 590785
 isotope, 370599
 midocean ridge, 820416
 basalt, altered, geochemistry, 580819, 580823, 580824, 580831
 geochemistry, 540757
 magma, 540641
 rare earth, 370599
 rare earth elements, 370599
 trace elements
 East Pacific Rise, 650596
 Tamayo Fracture Zone, 650596
- Ce/Zr ratio
 basalt
 geochemistry, 590782, 590783
 minor element, 490669, 490687
 basalt, altered, geochemistry, 580811, 580819, 580823, 580824, 580831, 580838, 580839
- Ceara Plain, 040059, 140003, 140008, 140249, 140345, 140377, 140381, 140431, 140492, 140795, 140856, 370329, 390061, 390068, 390454
 gravity, magnetism, 140377
 magnetic anomaly, 370329
 regional setting, 140377
 seismic reflection, 370329
 topography, 140377
- Ceara Rise
 basalt, 390547
 K/Ar age, 390547, 390549, 390550, 390551, 390552
 petrology, 390547, 390549, 390550, 390551, 390552
 basement, basalt, 390547
 K/Ar age, 390547, 390552
 dolerite, 390552
 lipid, terrigenous, 390497
 lithology, 140259
 mesostasis, 390549
 microlite, 390547
 basalt, 390549
 mineral, secondary, 390549
 alteration, 390550
 dolerite, 390550
- site survey, 140377, 140380, 140381
 abyssal plain sequence, 140379
 clay, 140382
 gravity, 140377
 hyperbolated bottom, 140380
 marl, foraminiferal, 140382
 origin, 140382
 regional setting, 140377
 rise sequence, 140379
 terrigenous components, 140382
 turbidites, 140382
- Ceara Rise. *See* Amazon Ridge
- Ceaudian Basin, 42B1017
- Cedar Creek, 120959
- Cedar Ridge, Rocky Mountains, 120959
- Cedros, 630228, 630269, 630271, 630273, 670750, 670792
 Baja California SW, tectonics, 630958
 Cedros Trench, 630920, 630952, 630954, 630958
 Baja California SW, tectonics, 630958
 bathymetry, 630920
 Guadalupe Island, Guadalupe Arrugado, 630952, 630954
- Cefalu Basin, 130405
- celadonite, 810634, 810649
 alteration
 products, 450615, 810735, 810736, 810738, 810740
 temperature, 920499
 alteration, low-temperature
 basalt, 490710
 mineralogy, 511183
 alteration minerals, trace elements, 920495, 920496
 alteration, secondary, 810768
 Antarctica, geochemistry, 350405
 B, trace elements, 920491
 basalt
 Al, 511269
 alteration, 511183, 920512, 920513
 Barbados Ridge, 780394
 calcium, 511269
 California, Gulf of, 650580
 chemical composition, 320563, 320565, 320566
 chemistry, 920472
 Cretaceous, 511087
 geochemistry, 490605
 hydromica, 511269
 iron, 511269
 magnesium, 511269
 mineral assemblage, 511219, 511220, 511222, 511227, 511229, 511230
 mineral, secondary, 340406, 340411, 340417, 511244, 511245, 810745
 petrography, 260471
 petrology, 260471, 320563, 320565, 320566, 330576, 330577, 330580
 potassium, 511269
 protoceladonite, 511271
 pyroclastics, 260558, 260559
 sodium, 511271
 V, 511269, 511271
- basalt, altered
 chemistry, 511320
 crystal morphology change, 600702
- basalt, oceanic
 chemistry, 610640
 Melanesian Basin, 610647, 610648, 610649
 Mid-Atlantic Ridge, 610657
- basement
 basalt, 260471
 calcite, 920500, 920502
- Bermuda Rise
 basalt, 511150, 511203, 511209, 511211
 mineral, secondary, 511258, 511259, 511262
- bulk-rock compositions, 540742
 carbonate, secondary, vein, 580906
 Caribbean Sea, sediments, 150941
 clay, authigenic, 600470
 Mariana Islands, 600471
 Mariana Trough, 600471
 clay, green, clay minerals, 700218
 clay minerals
 Al, 511269
 calcium, 511269
 hydromica, 511269
 iron, 511269
 magnesium, 511269
 potassium, 511269
 protoceladonite, 511271
 sodium, 511271
 V, 511269, 511271
- Costa Rica Rift Zone, basalt, 830307, 830309, 830310
- crust, oceanic
 aging, 511564, 511566
 seawater interaction, 511169
- East Mariana Basin
 sedimentary history, 890668, 890669
 stratigraphy, 890418
- East Pacific Rise, sediments, 650381
 geochemistry, 810740
 mineral, secondary, 450615
 Rockall Plateau, 810735, 810736, 810738
 saponite, 810740
 glauconite, Eocene, 810649
 Guatemala, slope sediment, 840931
- hydrothermal alteration
 crust, oceanic, 830301
 K/Ar age, 920505
- hydrothermal deposits
 assemblage, paragenic, 700253
 Galapagos Spreading center, 700242, 700248, 700249, 700250
- igneous rocks, chemical composition, 590720
- interstitial water, interstitial water
 chemistry, 350418
- K/Ar age, 920511
 Al, 920511
- Li, trace elements, 920491
- lithology, 230298, 260303, 320022, 320048, 320165, 320197
 basalt, 170267, 170288
 major element, chemistry, 920492
- Mendoza Rise, petrology, 920613
- mineral, secondary, 920507
 abundance, 920509
 clay, 511185
 elemental composition, 920510
 Fe-rich, 920507
 mica, green, 920508
- mineralogy
 lithology, 810784
 mineral, secondary, 600712, 600718
- Mounds Hydrothermal Field, chemistry, 540408
- oxygen isotope, geochemistry, 350510
- petrology, 810796
- Rio Grande Rise, basement, volcanic, 720955
- sandstone, 320540
 basalt, 320541
 pyroxene, 320541
 volcanic grains, 320541
- Southeast Pacific Basin, evolution,
 geologic, 350730, 350736
- ⁸⁶Sr/⁸⁷Sr ratio, 920500
 formation, 920502
 K/Ar age, 920502
 spreading, 920502
- Troodos ophiolite, 920502
- Sr isotope, 590720
- tholeiite, petrography, 260471

- tholeiite, depleted, geochemistry, 810784
 trace elements
 boron, 920493, 920494
 Cretaceous, 511087
 lithium, 920494
 Rb, 920495
 transition elements, 920494
 tuff, lapilli, 810638
 volcanism, pyroclastic, Paleogene, 810638
 X-ray diffraction analysis result, 920492
 celadonite-glaucinite, basalt, oceanic,
 Melanesian Basin, 610654, 610657, 610659
 celadonite-nonttronite
 Costa Rica Rift Zone, basalt, 830219,
 830238, 830239, 830307, 830309
 crust, oceanic, Costa Rica Rift Zone, 830184
 Mounds Hydrothermal Field, chemistry, 540408
 celadonization, 810770
 crust, oceanic, K, Fe-smectite, 540308
 sediment, hydrothermal mounds, 700279
 Celebes, 260947, 270851
 Gondwana, dispersal, 260947
 celestite
 Atlantic continental margin, mineralogy,
 121132, 121137
 Atlantic Ocean N, mineralogy, 101137
 chert, Line Islands, 330855
 diagenesis, aspects, 901486
 Indian Ocean W, mineralogy, 130608, 150847,
 150848, 150849, 150850, 160529, 160530,
 181016, 181017
 interstitial water, 080867
 lithology, 330044
 lueneburgite, Miocene sediments, 42A0663
 celestobarite
 geochemistry
 mineralogy, special features, 060831
 trace elements, 060840
 cellulose
 amino acid, sugar, 42B0702
 California, Gulf of, mouth sediments, 650439
 carbohydrate, residues, 640881
 coal, petrology, 220485
 organic matter, petrology, 500568
 sugar, 42B0702
 Celtic margin, Goban Spur, continental
 margin, 801155
 Celtic Sea, 47B0028, 480036, 481042, 801189,
 801191, 801202, 801206, 810896
 basin, 47B0026, 480038, 801158, 801187,
 801201, 801208
 continental margin, 480995, 480996, 480997,
 480998, 480999, 481000, 481001, 481002,
 481003, 481004, 481005, 481006, 481007,
 481008, 801155, 801156, 801188
 structural evolution, 481042
 Goban Spur
 continental margin, 801158
 evolution, 801206, 801208
 passive margin, tholeiite, 800939
 regional geology
 continental margin, 801188
 physiography, 801188
 Porcupine Basin, 801188
 regional tectonics
 continental margin, 801153
 deformation, 801155
 slope current, 941064
 tholeiite, passive margin, 800939
 Celtic Sea Basin
 Europe NW, continental margin, 801187
 Goban Spur, evolution, 801201, 801213
 regional geology, regional gravity,
 geomagnetic patterns, 801191
 cement, dolomitic, carbonate, diagenetic,
 isotopic survey, 630595
 cementation, 070977, 070988, 100715, 110909,
 110918, 110919, 110942, 130231, 131039,
 280216
 41S0968,, 42A0473, 42A0603, 430443, 440974,
 500742, 751234, 840749, 840751, 840756
 Africa NW, continental margin, 411124,
 411126, 411128
 aragonite, 190632
 Atlantic Ocean NE, evolution, 411243
 Atlantic Ocean NW
 lithology, 110909, 110918, 110919, 110942
 sedimentation, 440974
 Baltimore Canyon Trough, 950597
 barite, authigenic
 barite, 410915
 origin, 410923
 Black Sea, interstitial water, 42B0643
 Blake Basin, 760733, 760737, 760741, 760747
 calcarenite, 41S0968
 calcite, 130726, 47A0747, 810638
 cement, 41S0968
 calciturbidites, diagenesis, 500742
 carbon isotope, 720412
 foraminifers, 170600
 carbonate
 41S0955,, 860520, 860522
 carbon isotope, 170505
 diagenesis, 170413, 320521
 fossil preservation, 170413
 oxygen isotope, 170505
 Pacific Ocean W, 070977
 petrology, 540327
 carbonate, diagenetic, isotopic survey,
 630596, 630606
 chalk, 800853
 chalk, nannofossil
 calcarenite, 010521
 calcisilite, 010521
 chert, Cretaceous, 430443
 claxirudite, 41S0968
 clay, Pacific Ocean NW, 860727, 860740,
 860748
 clay minerals, sediments, 941111, 941114
 clay, siliceous, diagenesis, 271005
 claystone, siliceous, diagenesis, 271005
 compaction, 41S0968
 consolidation
 permeability, 870844, 870845
 testing, 960801
 Costa Rica Rift
 chalk, 690397, 690407
 siliceous rocks, 690423
 diagenesis, mineral, 47A0741, 47A0747
 diagenesis, burial
 chalk, 800857
 ooze, carbonate, 790404
 pelite, 230441
 evaporites, Messinian, 42A0603
 gas, interstitial, geochemistry, 640782
 geopetal fabrics, 41S0968
 limestone, 510755
 Caribbean Sea C, 150775, 150776
 stable isotope, 150795, 150796, 150799,
 150802
 lithology, 130231, 280216, 400206, 410030,
 410031, 410427, 42A0157, 42A0328,
 440345, 440349, 480081, 500138
 calcite, 240395
 deposition, 440080, 480116
 diagenesis, 410440
 ooze, calcareous, 440085
 physical properties, 480057, 480090,
 480091, 480140
 Mediterranean Sea, lithostratigraphy, 131039
 Mexico, Gulf of, regional aspects, 010634
 microfabric, 41S0968
 Middle America Trench, 840749, 840751,
 840756
 Minorca Rise, lithification, 42A0473
 ooze, calcareous, 941136
 oxygen isotope, 720412
 foraminifers, 170600
 Pacific Ocean EC, carbonate, 680488
 Pacific Ocean NW, 860727, 860740, 860748
 Pacific Ocean W
 guyot, 200659
 noncalcareous sediment, 070988
 petrography, breccia, 600583
 phillipsite, 42A0478, 42A0480, 42A0481
 physical properties, 330718, 901243, 901245
 anisotropy, 47B0585
 water content, 330702
 porcellanite, Eocene, 430443
 pyroclast, calcite, 810637
 Rockall Rise, sediments, 941109, 941111,
 941114
 Ross Sea, basement, 280867
 sediments, 941137
 Blake Basin, 760733, 760737, 760741,
 760747
 Rockall Rise, 941109, 941111, 941114
 seismic modeling, onset, 850953
 seismic stratigraphy, 890384
 silica, 47A0747
 diagenesis, 801091
 smectite, 47A0747
 sediments, 941111, 941114
 synrift sediments, Aptian, 801175
 turbidite, mud, Pliocene, Quaternary, 640519
 volcaniclastics, volcaniclastic matter,
 550503
 volcanism, pyroclastic, Paleogene, 810638
 zeolite, 42A0478, 47A0747
 cementation, authigenic, lithology, 350162
 cementation, diagenetic, 100715
 lithology, carbonate, 42A0328
 sedimentology, physical properties, 100715
 Southeast Pacific Basin, sediment
 distribution, 350226
 Cenomanian TOC/clastic flux ratio, Porcupine
 Plain, Albian-Cenomanian, 800978
 Cenomanian/Turonian boundary
 Cape Hatteras, 931139
 Goban Spur, evolution, 801207
 inorganic geochemistry, anoxia, global
 oceanic, 801079
 oceanic anoxic event, Atlantic Ocean N,
 801003
 Cenozoic Orogeny, Pacific Ocean EC, geologic
 history, 090919
 Cenozoic polar regime, Red Sea, geology,
 230814
 Centerville Beach, Cape Mendocino, 180526,
 180534
 Centinella Island, 150554
 islands, 150554
 Central America, 330467, 330469, 540113,
 540141, 540314, 540575, 630473, 641211,
 660427, 660428, 660692, 660699, 660703,
 660723, 660729, 660775, 670369, 670483,
 670487, 670518, 670580, 670688, 670742,
 670743, 670744, 670747, 670750, 670752,
 670754, 670760, 670762, 670773, 670775,
 670776, 670791, 670792, 680016, 680361,
 680391, 680392, 680403, 680407, 680414,
 690453, 760142, 780464, 840006, 840086,
 840096, 840304, 840363, 840387, 840388,
 840442, 840533, 840534, 840535, 840537,
 840538, 840588, 840609, 840617, 840618,
 840637, 840651, 840831, 840832, 840846,
 840881, 840892, 840898, 840912, 840923,
 840947, 840955, 840956, 860596, 860600,

- 870937, 890034, 960685
active margin, 840921
arc, 690366, 870841
ash
distribution, 660693
Neogene, 670475, 670479, 670480, 670482, 670483, 670484, 670486, 670487
Atlantic Ocean NE, evolution, 411240
basalt
Middle America Trench, 660703
trench, 670581
basement, dioritic, eastward displacement, 660729
biostratigraphy, paleoenvironment, 840950
calcareous nannoplankton, Caribbean Sea, 440743
Caribbean Islands, 670753
Caribbean Sea
Pliocene-Pleistocene, 150974
volcanic activity, 150974
chemistry, low Si calc-alkaline lava, 660725
Cocos Plate, continental margin, 840881
Colombian Basin, isotope stratigraphy, 680452
continental margin, 660429, 660680, 840365, 840388
tectonics, 840881, 840892
continental slope, 840439, 840728, 840921, 840924
sedimentology, 840921
cordillera, 670580, 670581
crust, oceanic, subduction zone, 780405
deformation
dewatering, 870841
framework, 870938
diagenesis, slope sediments, 840577, 840588
eolian sediments, 860596
aridity, global, 860600
forearc, 870939
geochemistry
magma, 840618
volcanism, 840616, 840617, 840618
geologic evolution, Middle America Trench, 670747
geologic framework, 840008
geologic setting, apron, 840922
glaucony, 660423, 660424, 660425
authigenic, 660424
chemistry, 660426
coprolites, 660424
isotopes, 660426
reworking, 660426
Guatemala, trench, 670518
igneous rocks
basement, 840949
ophiolite, 840949
ignimbrite, eruption, 840892
isthmus, emergence, 150945, 151047, 151091, 151103, 510006
land bridge, 680275, 680452, 810555
margin, 670676, 840950
Mexico, magmatic episodes, 660728
Middle America Trench
basement, 840954
Costa Rica, 840551
crust, 840954
geological framework, 670747, 670750, 670751, 670752, 670753
magma, calc-alkaline, 660699
Miocene-Pleistocene benthic foraminifers, continental slope, 840363
Motagua-Polochic fault zone, 660847
North America, 670675
offshore, 660437
Pacific Ocean, margin, 840005
paleoceanography, Reflector Lavender, 850962
Panama Basin, sediments, 690393
Pigmy Basin, tephrochronology, 960685
plate tectonics, 840832
subduction, 641285
tectonic history, basement, 840956
Tehuantepec Ridge, 670475
tephrochronology, volcanism, 680403
Tethys, Mediterranean Sea, 42A0943
Tethys Seaway, 850962
Venezuelan Basin, 040665
Oligocene-Miocene, 040666
volcanic chain, 660728, 670748, 680404
volcanism, 840892
Caribbean Sea, 150974
Pliocene-Pleistocene, 040665, 080041, 090452, 090618, 090941, 150331, 150407, 150513, 150974, 150989, 151077, 151103, 160053, 160151, 160573, 160615, 160899, 160904, 220507, 411240, 42A0943, volcanism, explosive, Neogene, 310587, 670475, 670479, 670480, 670482, 670483, 670484, 670486, 670487
western continental slope, sedimentology, 840921, 840922, 840925, 840928, 840930, 840934, 840935, 840936
Central American Seaway, 160020, 160899, 720918, 810549, 810856, 850822, 900003, 930661, 930679, 931367, 931413
circulation, oceanic, 860601
diatom paleoclimatology, surface water, 850935
Central Basin, 070007, 070607, 070611, 070613, 070725, 070727, 070730, 070825, 170005, 170235, 170263, 621021, 621022
basalt
mineralogy, 540700
petrography, 540700
Blake Basin, Atlantic Ocean, 440395
East Pacific Rise, basalt, 540695
hydrocarbon generation potential, organic facies, 640870
Israel, history, 42B1219
Line Islands, tectonics, 330732, 330740, 330741, 330743, 330744
magnetic anomaly, 621022
Mediterranean Sea E, history, 42B1219
Central Basin Fault, 590805
basin genesis, 310859, 310863, 310875, 310876
chemical composition, 310619
introduction, explanatory notes, 310006
Philippine Basin, genesis, 310859, 310863
Philippine Basin W, structure, 310619
Philippines, genesis, 310875
planktonic foraminiferal biostratigraphy, 310677
plutonic rock, 310609
elastic wave velocities, 310609
radiolarians, 310704
seismic refraction profiles, 310611
structure, 310615, 310618, 310619
volcanics, elastic wave velocities, 310609
see also Philippine Sea
Central Basin Ridge, 590021, 590497, 590498, 590501, 590511, 590614, 590754, 590755, 590805, 590806, 590812
basalt, geochemistry, 590754
Louden, 590022
magnetic lineation, 590023
Philippine Sea W, genesis, 590614
spreading
Mesozoic, 590023
Tertiary, 590023
Tertiary origin, 590022
Central Indian Basin. *See* Mid-Indian Basin
Central Indian Ridge. *See* Mid-Indian Ridge
Central Pacific Basin, 070607, 070611, 070613, 070725, 070727, 070730, 070825, 070914, 070965, 070987, 070994, 071011, 071014, 071170, 071172, 071173, 260485
magnetic properties, northward movement, 920528
volcanism, 610823
Central Province
Line Islands, tectonics, 330732, 330733
Pacific Ocean SW, island arcs, 300703
Central Ridge, 250087
South Fiji Basin, geology, 300620, 300628
Central Ridge Fault, Philippines, genesis, 310876
Centre Island, 230755
Centuripe, Sicily, 131238
Century Ridge, 760539
Cephalonia, 42A0938, 42A0979
islands, 42A0938
Ceram, 270851
Cerigo Island, 131117
limestone, Hellenic Trough, 131117
cerium
Atlantic Ocean S, history, 740721, 740729
authigenic minerals
alteration, 600463
diagenesis, 600463
Blake Basin, 760775
Cretaceous/Tertiary boundary, 860537
Indian Ocean SE, sediments, 260548, 260550
minerals, chemical composition, 600462
Philippine Sea
minor element, 870646
trace elements, 870646
rare earth elements
trace elements, 590663, 590664
tuff, 590659
sediment, hydrothermal mounds, 700282, 700285
Shikoku Basin
minor element, 870646
trace elements, 870646
see also Ce
Cerro Colorado, 630958
Baja California SW, tectonics, 630958
Cerro del Paine, 360873
Cerro Prieto, 600880, 641123, 641131, 641132
gabbro
mineralogy, 600591
petrography, 600591
geothermal field, 640699
Cerro Prieto Field
geochemistry, Guaymas Basin, 640699
hydrothermal activity, petrology, 641131
zonation, 641131
Cesano, Italy, 641131
hydrothermal activity, petrology, 641131
cesium, 670564, 670566, 670567
alkali elements, 820466, 820467
alteration, oxidation, 630734
alteration, low-temperature, effects, 630735
ash, hygromagmatophile (HYG) elements, 870684
B, trace elements, 920491
basalt
Barbados Ridge, 780403
Cretaceous, 511087, 511092
geochemistry, 260568, 550599, 550603
LIL element, 340283
Mid-Atlantic Ridge, 820440, 820442, 820444, 820445, 820446, 820501
midocean ridge, 820440
basalt, altered, 670566
major element, 580875, 580884
trace elements, 580875, 580884
basement, geochemistry, 590743, 590747,

- basement (Cont.)
 590748, 590749, 590750, 590751
 Bermuda Rise, trace elements, 511137,
 511140, 511142, 511143
 California, Gulf of
 basalt, 650643
 Guaymas Basin, 650617
 Costa Rica Rift
 alkali, 690487, 690489, 960488
 basalt, 690479
 crust, oceanic
 aging, 511574
 hygromagmatophile (HYG) elements, 650623
 seawater interaction, 511169, 511175
 geochemical history, sedimentation, 710405
 geochemistry, 600624
 Cenozoic sediments, 42B0543, 42B0545,
 42B0557, 42B0563, 42B0597
 magma, 870699
 trace elements, 060840
 glass, heterogeneity, 630735
 hygromagmatophile (HYG) elements, 540727
 isotope ratios, oxidation, 630737
 Japan Trench
 minor element, 870649
 trace elements, 870649
 least-altered rocks, chemistry, 630735
 Li, trace elements, 920491
 Mariana Islands, basement, 600617
 Mid-Atlantic Ridge, basalt, 450494
 palagonitization, alteration, 630734
 sediment chemistry, trace elements, 350451
⁸⁶Sr/⁸⁷Sr ratio, 511137, 511143
 metal, alkali, 511140, 511142
 tholeiite
 alteration, 820440
 geochemistry, 800946
 trace elements, 650594, 660732, 810788
 basalt, 810792
 Cretaceous, 511087, 511092
 Walvis Ridge, basalt, 740743, 740748
 Cessole, 061314, 160013
 formations, 080998
 Cevennes, 801110
 Ceyhan River, Neogene formations,
 paleogeography, 42A0911
 Ceylon, 220004, 220406, 220410, 250497,
 260951, 280831
 Colombo, 220037
 deposition, depositional paleoenvironment,
 250497
 Gondwana, dispersal, 260945, 260951
 Ceylon (Sri Lanka), *see also* Indian Ocean NE
 CH₄
 basalt
 gas, 450647
 intrusion, 580742
 bitumen, 450647
 geochemistry, 42B0690
 hydrocarbon, heavy, 450647
 Blake Ridge, 760403
 carbon isotope, 760403
¹³C, CO₂, 870677
 Cape Bojador, geochemistry, 500026
 carbon isotope
 Blake Ridge, 760403
 Middle America Trench, 840693
 carbonate, diagenetic, isotopic survey,
 630604
 chlorophyll, diagenesis, 571391
 gas hydrate, 670610
 dilution water decomposition, 670612
 gas, interstitial
 geochemistry, 640781, 640783, 640784,
 640785, 640786, 640787
 stable isotopes, 640815, 640816, 640817
 gas, natural, zonation, 110791
³He/⁴He ratio, 870862
 hydrocarbon, C₁-C₅, Japan Trench, 571336,
 571339
 Japan Trench, sediments, 271246
 Middle America Trench, carbon isotope,
 840693
 Nankai Trough, sediments, 870857, 870858
 Orca Basin, methane, 960777, 960778
 organic geochemistry, 640723, 640724, 640727
 perylene, inverse correlation, 960789
see also methane
 chabazite
 alteration
 products, 810734, 810740
 remnant arc debris, 590739
 basalt, altered, chemistry, 511320
 basalt, oceanic, Melanesian Basin, 610647
 clinoptilolite, Atlantic Ocean NW, 430474
 crust, oceanic, aging, 511569
 East Mariana Basin, sedimentary history,
 890668
 East Pacific Rise, sediments, 650381
 geochemistry, 810740
 Hatton Drift, 810734
 mineralogy, lithology, 810784
 phillipsite, Atlantic Ocean NW, 430474
 tholeiite, depleted, geochemistry, 810784
 Chad Basin, Lord Howe Rise C, Neogene
 evolution, 901448
 Chagos Archipelago, 230036, 230129, 230527,
 230530, 240789, 241058, 241111, 241139
 Indian Ocean W, tropical, 240646
see also Laccadive Islands
 Chagos Bank, 230528, 240608, 240785
 Arabian Sea, plate tectonics, 230528
 Chagos Fracture Zone, 220815, 240870, 240873,
 250534, 250536, 250541
 Indian Ocean W, volcanic sediment, 250541
 regional summary, 220815
 volcanism
 Mascarene Basin, 250536
 Mascarene Islands, 250534
 Chagos-Laccadive Plateau, 220815, 230038,
 230128, 230132, 230504, 230509, 230527,
 230529, 231001, 240469, 240471, 240482,
 240870, 241056, 241061, 260940
 Arabian Sea
 history, 231121
 plate tectonics, 230527, 230528
 sediment history, 230506
 Arabian Sea N, sediment history, 230504
 clay minerals, 241056
 Indian Ocean S, geologic history, 260939,
 260940
 Indian Ocean W
 clay minerals, 241056
 tropical, 240646
 Laccadive Islands, 230527
 Minicoy, 230527
 origin, 230527
 regional summary, 220815
 subsidence, 230052
 upwelling, 230053
 Chagos-Laccadive Ridge, 240003, 240008,
 240470, 240483, 240591, 240606, 240607,
 240608, 240785, 240788, 240789, 240806,
 240827, 240870, 241052, 241058, 241060,
 241061, 241112, 241125, 241147, 250237,
 250287, 250536, 250663, 250743, 250746
 Indian Ocean, geophysical measurements,
 240607
 Indian Ocean W
 regional aspects, 250743, 250746
 tropical, 240646
 sea floor spreading, history, 250663
 Chain Deep, 230595
 Chain Fracture Zone, 241137, 391064
 Romanche Fracture Zone, 391055
 Chain Ridge, 230292, 230384, 230531, 240007,
 240249, 240283, 240592, 240651, 240697,
 240722, 240803, 240827, 240834, 241049,
 241119, 241122, 250065, 250077, 250087,
 250764, 260949
 Arabian Sea, plate tectonics, 230531
 Gondwana, dispersal, 260949
 Indian Ocean, geophysical measurements,
 240592
 Indian Ocean W, 240651
see also Indian Ocean W
 chain-saw mechanism
 accretionary wedge, 870749
 subduction, 870749
 Chaîne Calcaire, 42A1031
 Messinian environments, climatic
 conditions, 42A1031
 chalcidony, 070478, 550857
 alteration, mineralogy, 540776
 Atlantic Ocean
 Cenozoic sediments, 140853
 Cretaceous sediment, 140853
 Atlantic Ocean N, Mediterranean Sea, 110813
 Atlantic Ocean NW, lithology, 110918
 basalt
 alteration, low-temperature, 511305
 chemical composition, 320563
 K/Ar age, 390550
 mineral assemblage, 511231
 mineralogy, 411103
 petrology, 320563, 390550, 411103
 basement, basalt, 411103
 Bermuda Rise, basalt, 511205, 511208, 511211
 biogenic sediment, diagenesis, 300454
 Blake Basin, 760771, 760777
 carbonate, sediments, 320893
 Caribbean Sea, sediments, 150933
 chert, 010522, 320430, 320447
 breccia, 320439
 cavities, 320439
 chalk, 300435
 diagenesis, 170383
 formation, 320444, 320445, 320446
 geochemistry, 620712, 620715, 620721,
 620723, 620728
 limestone, 300435
 mineralogy, 320441
 Pacific Ocean E, 160612
 petrography, 320441
 petrology, 620712, 620715, 620721,
 620723, 620728
 porcellanite, 320444, 320445, 320446
 textures, 330859
 vein, 320439
 clay minerals, mineralogy, 140731
 claystone, basalt, 550707, 550709
 Costa Rica Rift, chalk, 690397, 690402,
 690406
 crust, thermal history, 690471
 diagenesis
 Mesozoic, 271013
 slope sediments, 840574, 840576, 840583,
 840589
 evaporites, Messinian, 42A0599
 Guatemala, slope sediment, 840931
 Hess Rise N
 chert, 620779
 post-Jurassic, 620806
 sedimentary sequences, 620766
 hyaloclastite, 460342
 Indian Ocean E, abyssal plain sediment,
 271007
 Indian Ocean W, mineralogy, 411072, 411075

- lithology, 040081, 070478, 070729, 070825, 160058, 210202, 240395, 250196, 320022, 320048, 320165, 330030, 330045, 360032, 410172, 430045, 430166, 430210, 430335, 480135, 510046, 510047
 chert, 170053
 limestone, 170053
 sandstone, 130155
 Lord Howe Rise, rhyolite, 210535, 210538
 Mid-Pacific Mountains W, Aptian sediments, 620908, 620909, 620915
 mineral, diagenetic
 nodule, dolomitic silicified, 801085
 silica minerals, diagenetic, 801084, 801085
 mineral, secondary, 210535, 210538
 silica, 511188
 Panama Basin, sediments, 690390
 petrology, gravels, 960494
 porcellanite, 320430
 breccia, 320439
 cavities, 320439
 chert, 320444, 320445, 320446, 320447
 formation, 320444, 320445, 320446
 mineralogy, 320441
 petrography, 320441
 vein, 320439
 Red Sea, evaporites, 230823, 230835
 rhyolite, mineral, secondary, 210535, 210538
 sandstone, calcareous volcanic, chert, 320544
 silica
 diagenesis, 170383, 410880, 410888, 410889
 mineralogy, 140731
 silicified sediments, Goban Spur W, 801084
 turbidites, Guatemala, 840925
 chalcadony, authigenic
 Mid-Pacific Mountains W, Aptian sediments, 620908
 volcanoclastics, volcanoclastic matter, 550503
 chalcadony, crystalline
 clay minerals, mineralogy, 140732
 mineralogy, Atlantic Ocean, 140732
 silica, mineralogy, 140732
 chalcopyrite
 alteration, products, 511274
 Atlantic Ocean
 Cenozoic sediments, 140811
 Cretaceous sediment, 140811
 basalt, 830336
 Bermuda Rise, 511435, 511436
 mineral assemblage, 511223
 mineral chemistry, 550608, 550617, 550619, 550622, 550629, 550630
 mineral, opaque, 450561, 511434, 511435, 511436
 petrochemistry, 630727
 petrology, 160624, 330579, 330580
 basalt, altered
 carbonate, 580914
 geochemistry, 580792, 580802
 petrochemistry, 580792, 580802
 basement, opaque mineralogy, 370859
 Bermuda Rise
 basalt, 511206
 sulfur isotope, 511145
 chemistry, 340377
 Costa Rica Rift, stockwork-like zone, 830277
 Costa Rica Rift Zone
 basalt, 830220, 830223, 830224, 830233
 stockwork-like zone, 830266, 830270, 830271, 830273, 830274
 crust, oceanic, Costa Rica Rift Zone, 830185
 East Pacific Rise, basalt, 540406
 geochemistry, geologic setting, 160624
 hydrothermal deposits, origin, 540416
 hydrothermal vein, mineralogy, 340377
 lithology, 540757
 Magdalena Bay, sulfide chemistry, 630679
 magnetic oxides, petrology, 511422
 Manihiki Plateau, 330881
 Melanesian Basin, ash, 610635
 mineral, opaque, petrology, 340358
 mineral, secondary, opaques, 511187
 Pacific Ocean SE, basalt, 340382
 petrology, 540789
 sulfide, 540801, 540802
 Siqueiros Fracture Zone, basalt, porphyritic, 540611
 spreading center, ore minerals, 540789
 sulfide, 370875
 pyrite, 370880
 sulfur isotope, pyrite, 340382
 Chaleur Bay, New Brunswick, 950320
 chalk, 190633, 200069, 200071, 260593, 260598, 500715, 510708, 670520, 810645, 810650, 950501, 950512
 abyssal plain
 cyclic sedimentation, 801078
 inorganic geochemistry, 801074
 Africa E, coast, 250681
 Africa NW, continental margin, 410973, 410974, 411124
 Arabian Sea, sediment history, 230507
 Atlantic Ocean
 Cenozoic sediments, 140791, 140794
 Cretaceous sediment, 140791, 140794
 margin, 481104
 Atlantic Ocean C, basin, 511505
 Atlantic Ocean N
 dissolution, 941129
 organic facies, 800969
 oxygen, 801010
 Atlantic Ocean NC, Mesozoic sequences, 411005, 411007
 Atlantic Ocean NW
 lithology, 110922
 microfacies, 440484, 440485, 440487, 440489
 regional aspects, 110954, 110956, 110971
 sedimentary evolution, 430813
 sedimentation, 440978
 Atlantic Ocean S, 820598
 Argentine Basin, 391115
 Malvinas Outer Basin, 391110
 Mesozoic, 751038, 751039
 Rio Grande Rise, 391124, 391125
 Santos Plateau, 391106, 391108
 Sierra Leone Rise, 391122
 Atlantic Ocean SE
 paleoenvironmental evolution, 740666
 sedimentary evolution, 400999
 Atlantic Ocean SW, basin, evolution, 361006
 Atlantic Ocean W
 Aves Ridge, 040666
 Beata Ridge, 040668
 Austin, 100391
 Aves Ridge, terrigenous admixture, 040666
 Bahama Islands, geology, 110885, 110889
 basalt, geochemistry, 590779
 Beata Ridge, Miocene-Oligocene, 040668
 bedding, faulting, 941135
 Bermuda Rise, paleomagnetism, 230126
 biogenic sediment, diagenesis, 300454, 300467, 300468, 300469, 300470
 Biscay, Bay of N, continental margin, 481039, 481041
 Biscay, Bay of
 diagenesis, 800853
 evolution, 480796, 480801, 480811
 Black Sea
 sediment, 42B0492, 42B0493
 sediments, 42B0374, 42B0385
 Blake Basin, 760433, 760473, 760483, 760489, 760664, 760667, 760727, 760771, 760926, 760930
 deposition, 760727
 provenance, 760727
 Blake Ridge, 941134
 sediments, 941134
 calcareous nannofossils, 220726
 flora content, 220726
 calcareous sediment, Miocene, 330867
 calcite, recrystallization, 850818
 Campeche Escarpment, sediments, 100026, 100035
 Cape Basin, Cretaceous to Pliocene, 400493, 400494
 Cape Bojador, continental margin, 47A0781
 carbon isotope, foraminifers, 170591
 carbon isotope, stable, 410943
 carbonate
 carbon isotope, 170505
 carbon, organic, 711051, 711061
 diagenesis, 170409, 170425, 320903, 320904, 850816
 fossil preservation, 170409, 170425
 oxygen isotope, 170505
 Pacific Ocean W, 070977
 redeposited clastics, 760820
 sedimentation, 47B0733
 carbonate, diagenetic, isotopic survey, 630595
 carbonate nodule, England S, 680481
 Caroline Abyssal Plain, Mesozoic, 200065, 200066, 200067, 200068, 200069, 200071, 200073, 200074
 cementation, 800853
 Cenozoic paleoceanography, 901494
 Cenozoic-Cretaceous sediments, 800980
 low organic content, alternation, 800980
 Central America, western continental slope, 840936
 chalk, siliceous, Miocene, 690395
 clay minerals
 Cretaceous and Cenozoic, 480705, 480711
 Miocene-Pleistocene, 47A0600
 Pacific Ocean NW, 200336, 200338
 Cocos Plate, sediments, 670608
 contamination, core samples, Cretaceous, 711043
 continental margin, structural evolution, 481047
 continental shelf, onshore geology, 400974
 Costa Rica Rift
 geochemistry, 690395
 petrology, 690395
 siliceous rocks, 690423
 silicification, 690395, 690396, 690397, 690398, 690399, 690402, 690403, 690404, 690405, 690406, 690407
 Cretaceous
 England S, 941135
 Mazagan Plateau, 790266
 Cretaceous/Tertiary boundary, paleoenvironmental history, 740685, 740689
 crust
 fracture zone, 920307
 thermal history, 690471
 Cyprus, evaporites, 42B1188
 Daito Ridge, 580643
 densities, 071102
 deposition
 Blake Basin, 760727
 calcareous sediment, 220767
 Goban Spur, 800865, 800867, 800868

- deposition (Cont.)
 Portugal, 47B0377, 47B0388
 diagenesis, 47A0674, 800853
 aspects, 901486, 901487, 901488
 biogenic sediment, 850819
 burial, shallow, 800853
 siliceous sediments, 500725
 diagenesis, burial, 800853, 800854, 800857, 800861
 alteration, diagenetic, 800857
 cementation, 800857
 coccoliths, 800854
 compaction, 800853, 800857
 Goban Spur, 800853
 lithification, 800861
 ooze, carbonate, 790400, 790402
 pelite, 230439
 pore fluid chemistry, 800861
 porosity retention, 800861
 transition, 800861
 dissolution
 carbonate, 400988, 400994, 400996
 structures, 941129
 dolomite, Neogene, 010563
 equatorial high-productivity belt, transect, 850976
 equatorial sediment bulge, accumulation rate, 850976
 faulting, 941135
 feldspathic sediment, abyssal, 200359
 Feni Ridge, 941134
 sediments, 941134
 ferromanganese sediment
 iron-rich sediment, 190633
 volcanics, iron-rich, 190633
 ferruginous sediments, 160602
 flaser, 941129
 Florida, Straits of, paleoenvironment, 770381
 formations drilled, exposed land, 42A0897, 42A0898
 Galapagos Spreading Center, hydrothermal deposits, 540339
 Galicia Bank, tectonics, 47B0666
 gas hydrate, trench slope, 670608
 geochemical component grouping, cluster group, 801077
 geochemistry, 390489
 carbonate, 390484
 Jurassic sediments, 711001
 glauconite
 Eocene, 220737
 nannofossil, 220737
 Goban Spur, 800392, 800397
 continental margin, 801138, 801161
 diagenesis, 800853
 diagenesis, burial, 800853
 evolution, 801204, 801206, 801207, 801208, 801212, 801213
 tholeiite, oceanic, 800939
 unconformities, 801173
 upper slope, 801195
 Greenland Sea, Voring Plateau, 38S0197
 Guatemala, trench, 670520
 Hess Rise, 621036, 621039, 621043, 621045, 621051, 621058
 Hess Rise N
 post-Jurassic, 620810, 620813
 sedimentary sequences, 620759
 hiatuses, 481149
 hydrocarbon, higher weight, 090859
 hydrocarbon, C₁₅-C₂₆, 800974
 hydrocarbon, C₂-C₈, shale, black, 711043
 Iberian margin W, evolution, 47B0764
 igneous rocks, geochemistry, 370654
 illite-montmorillonite, 150926
 Indian Ocean C, 240679, 240685
 noncarbonate sediment, 220492
 ooze, calcareous nannofossil, 240690
 Indian Ocean NE
 Cretaceous, 220767
 sediment history, 220723
 Indian Ocean S, geologic history, 260925
 Indian Ocean W, 241049
 geochemistry, 250405, 250407
 regional aspects, 250754, 250758
 inorganic chemistry, Miocene, 440581
 inorganic geochemistry, sediments, rocks
 Hess Rise, 620693
 Mid-Pacific Mountains W, 620685
 interstitial water, 330564
 carbonate, 740706
 Isle of Wight, 941135
 compaction, differential, 941135
 faulting, 941135
 fracturing, 941135
 shear stress, 941135
 solution structures, 941135
 Israel, history, 42B1196, 42B1201
 Japan, Sea of, sedimentary structure, 310488
 Japan Trench, Cretaceous, 200009, 200011, 200013
⁴⁰K/⁴⁰Ar age, Goban Spur, 800945
 Kings Trough, 941132, 941249, 941250, 941251, 941257, 941258, 941259
 sediments, 941132
 limestone
 Caribbean Sea C, 150773, 150774
 stable isotope, 150796, 150801
 Line Islands, stratigraphy, 330849
 lithification, 800853
 lithologies, major, 901480, 910481
 lithologies, minor, turbidites, 901482, 901483
 lithology, 040129, 040130, 040151, 060045, 060173, 060174, 070056, 070324, 070327, 070328, 070478, 100026, 100198, 100266, 100298, 100313, 100316, 120410, 150022, 150279, 150333, 160023, 160027, 160050, 160057, 160159, 160269, 160418, 170266, 180289, 190468, 210060, 210200, 210201, 210273, 210274, 210374, 220039, 220120, 230039, 230297, 230386, 250193, 250194, 250293, 250294, 260080, 260159, 260284, 290048, 300177, 310030, 310069, 310077, 320164, 320316, 330109, 330110, 330111, 330167, 330307, 380048, 380173, 390052, 390054, 390147, 390149, 390240, 390241, 390334, 390336, 400043, 400195, 400199, 400203, 400204, 400205, 400363, 430211, 430212, 430334, 430335, 430336, 440077, 440162, 440167, 440398, 480080, 480133, 480222, 480225, 480226, 490026, 490234, 500041, 500126, 510044, 510046, 510047, 510362, 510363
 breccia, 230297, 390149
 burrow mottling, 370041
 burrows, 120410
 calcareous nannofossils, 120411
 Campanian, 110015
 carbonate, authigenic, 120411
 Cenozoic units, 480047, 480048
 clay, 120411
 clay minerals, 120411
 cycles, 510047
 deposition, 480116
 detrital minerals, 120411
 Eocene, 120410, 120411
 glauconite, 120411
 ice rafting, 120411
 lamination, 120410
 Line Islands, 090490
 major sediment types, 47A0026, 47A0027
 Marquesas Oceanic Formation, 080289, 090213
 Miocene, 440202
 nannoplankton, 120411
 Oligocene, 120411
 palagonite, 120411
 Paleocene, 100198
 physical properties, 390247
 Pleistocene, 120411
 Pliocene, 120411
 pyrite, 120411
 recrystallization, 120411
 San Blas Oceanic Formation, 090617
 silica, biogenic, 120411
 slickensides, 120410
 zeolite, 120411
 Madagascar Basin, volcanic sediment, 250520
 magnetostratigraphy, Cretaceous sediments, 400463
 major element, noncarbonate component, 850784
 Manihiki Plateau, 330886
 diagenesis, 330884
 matrix, 230297, 440167, 480226
 Mazagan Escarpment, 790744, 790745, 790752, 790808
 Mazagan Plateau, 790722, 790853
 Cretaceous, 790266
 Mediterranean Sea E, history, 42B1196, 42B1201
 Mexico, Gulf of, regional aspects, 010634, 100743
 microstructure, 950535
 Mid-Pacific Mountains, 621085, 621094
 mineral, diagenetic, silica minerals, diagenetic, 801084
 Moroccan Basin, margin, 500817
 Mossbauer spectroscopy study, 950644
 Eocene, 950644
 Fe²⁺, 950645
 iron components, 950644
 mud, terrigenous
 diagenesis, 250456
 organic geochemistry, 400561
 mudstone, black, Cenomanian-Turonian, 801079
 nannofossil, 510737
 Neogene formations, paleogeography, 42A0908, 42A0915
 Neogene sedimentation, sediment evolution and sources, 47A0612
 New Jersey, upper continental rise, 950690
 New Jersey Transect, stratigraphy, 950769, 950772
 Norwegian Sea, Voring Plateau, 38S0197
 ooze, nannofossil foraminiferal, 020415
 ooze, siliceous, chertification, 291150
 organic geochemistry
 Cretaceous Tertiary, 800949
 Goban Spur, 800950, 800956, 800959
 paleoenvironment, 800963
 organic matter
 Goban Spur, 800972, 800974
 vertical distribution, 711006
 organic matter richness, England, 801001
 Orphan Knoll, Maestrichtian, 121181
 oxygen isotope
 foraminifers, 170591
 geochemistry, 350507
 oxygen isotope, stable, 410943
 Pacific Ocean, guyots, 620773, 620774, 620775
 Pacific Ocean EC
 carbonate, 680481
 geologic history, 090924, 090928
 Pacific Ocean N

- Pacific Ocean N (Cont.)
 Maestrichtian-Cenozoic, 190908
 Meiji Guyot, 190900
 mineralization, contact, 190906
 missing Maestrichtian, Paleocene, 190908
 plate movement, 190898
 Pacific Ocean NE
 Mesozoic, 200033, 200035, 200037, 200038, 200039
 Pliocene, 200035, 200037
 Pacific Ocean NW
 geochemical history, 620789
 stratigraphy, 200733
 Pacific Ocean SE, ridge flank sediments, 920417
 Pacific Ocean SW, 901189
 Cenozoic, 901513
 unconformities, 210715, 280715
 Pacific Ocean W, 071027
 equatorial, 071170
 guyot, 200657, 200658, 200659, 200662, 200664, 200666
 Pacific Plate, Japan, 200019, 200021, 200022, 200023, 200024, 200026, 200027
 paleoceanography
 organic, 850959
 purple (11-12 Ma or 8.5-9.5 Ma), 850964
 paleoclimate, diachronous biogenic facies, 280910
 paleoenvironment, 47B0403, 630960
 Hauterivian to Cenomanian, 47B0414
 Panama Basin, physical properties, 160501
 pelagic sediment reactions, ooze, carbonate, 670610
 petrology, 740648
 chert, 740648
 Philippine Sea, lithology, 061215
 Philippine Sea W, 600429
 physical properties, 901243
 porcellanite, Eocene, 430438
 Porcupine Plain
 Albian-Cenomanian, 800975
 unconformities, 801173
 pore water, 800853
 porosity, 320962, 941136
 bulk density, 071102
 postdrift sediments, Turonian, 801176
 precipitation, 950533
 principal objectives achieved, summary, New Jersey Transect, 950808, 950809
 provenance, Blake Basin, 760719
 pumice, source, 850821
 rare earth elements, Oligocene, 850798
 recrystallization, 100711
 Red Sea, sediment history, 230849, 230852, 230861
 reflectors, origin, 850959
 regional sedimentation, 920599
 regional seismic grid, borehole data extrapolation
 deposition, 950804
 depositional history, 950789
 Rio Grande Rise
 Eocene sedimentation, 721007
 limestone, flaser, 721012
 regional setting, 390966
 sedimentation, 721017
 sediments, 941134, 941139
 sand, 060729, 060731
 Santos Plateau, origin, 390931, 390943, 390944
 sedimentary cycles, 740648
 chert, 740648
 sedimentary sequence, 200729
 lithology, 200725, 200727
 sedimentary structure, 220738, 220739, 310488
 Amazon Ridge, 390409
 clay, 220739
 claystone, 220739
 Cretaceous, 220739
 lamination, 220739
 sedimentation, acoustic stratigraphy, 47B0666
 sedimentology, physical properties, 100712, 100714
 sediments, 941129
 shale, organic geochemistry, 400561
 shear strength, onset, 901242
 silica, diagenesis, 410889
 siliceous sediment, 500725
 solution structures, 941129, 941135
 Blake Ridge, 941134
 England, 941135
 Feni Ridge, 941134
 Isle of Wight, 941135
 Kings Trough, 941132
 Rio Grande Rise, 941134, 941139
 seismic zones, 941134
 sonic velocity, 320962
 Southern California Borderland, volcanic rocks, 630951
 specific biogenic traces, 901192
 stable isotope, carbonate, 350501
 stratigraphy, 950549, 950550, 950552, 950557
 bioturbation, 950550, 950552
 nannofossil, 950550, 950552
 seismostratigraphy, 801123
 stratigraphy and evolution
 composite, 801184, 801185
 Goban Spur, 801182
 Porcupine Plain, 801183
 study material, 850750
 tectonic, Cretaceous/Tertiary boundary, 430813
 Tertiary, Eocene, 801178
 thermohaline flow, Quaternary, 720991
 trace elements, partitioning, 850796
 upper continental slope, unconformities, 801172
 volcanic rocks, petrography
 Emperor Seamounts, 200700
 submergence, 200691
 Walvis Ridge
 Cretaceous to Pliocene, 400493, 400494
 transect, 740646, 740648, 740657, 740658
 zeolite, clinoptilolite, 801089
 chalk, ash-rich
 lithology, 310194, 490027, 490029
 glauconitic, 490105
 chalk, biogenic
 deposition
 Equatorial Plateau, 300440
 Portugal, 47B0377, 47B0378
 chalk, biosiliceous
 New Jersey Transect, stratigraphy, 950767, 950771
 regional seismic grid, borehole data extrapolation, chalk, siliceous
 nannofossil, 950796
 chalk, black
 Atlantic Ocean N, organic facies, 800969
 New Jersey Transect, stratigraphy, 950767
 regional seismic grid, borehole data extrapolation, Campanian sequence, 950776
 chalk, calcareous nannofossil
 lithology, 040246
 Clipperton Oceanic Formation, 090057
 Line Islands, 090215, 090454, 090542
 Marquesas Oceanic Formation, 090213, 090320, 090321, 090408
 San Blas Oceanic Formation, 090452, 090618
 magnetostratigraphy, Cretaceous sediments, 400463
 Pacific Ocean EC, stratigraphy, 090939
 sedimentation, San Blas Oceanic Formation, 090939
 chalk, calcite, 260593, 260597, 260598
 abundant water, 260597
 albite-epidote-hornfels, 260598
 andradite, 260593
 burrow mottling, 260593
 calcite, recrystallized, 260593
 calcium carbonate, 260593
 chalk, micarb, 260593
 chalk, nannofossil, 260593
 clay minerals, detrital, 260593
 colloidal gels, 260598
 diagenetic conditions, 260598
 garnet, 260593, 260594, 260598
 greenschist facies, 260598
 grossular, hydrothermal transformation, 260597
 hydrogrossular, 260593
 hydrothermal fluid, alkaline, 260597
 Indian Ocean, 260593
 garnet, 260593
 magma, source, 260597
 metamorphism, 260598
 metasomatism, 260598
 nucleation, metastable, 260598
 ooze, nannofossil, 260593
 oxide, trivalent, 260598
 paragenesis, 260595
 present occurrence, authigenic, 260598
 pressure, 260597
 pyrite, framboidal, 260593
 recrystallization, 260598
 rodingite, 260593
 silica, excess, 260597
 skarn, 260593, 260598
 temperature, 260597
 zeolitic facies, 260598
 chalk, carbonaceous
 Biscay, Bay of N, continental margin, 481039
 lithology, 480133, 480135
 Mesozoic units, 480049
 shale, black, Biscay, Bay of, 480888
 chalk, carbonate
 Atlantic Ocean NW, lithology, 110922
 Atlantic Ocean SE, paleoenvironmental evolution, 740667
 Australia W, continental margin, 270576
 lithology, 100197, 100198, 100203
 chalk, clay nannofossil
 Campeche Escarpment, sediments, 100033
 carbonate, diagenetic, isotopic survey, 630596
 clay, terrigenous, Campbell Plateau, 291147
 Coral Sea Basin, Eocene, 300419
 lithology, 210375, 230297, 230386, 240330, 250193, 310194
 burrow mottling, 300141
 burrows, 300141
 calcite, 300141
 calcium carbonate, 300141
 chalk, zeolitic, 300141
 chert, 300141
 clay, 300141
 cristobalite, 300141
 foraminifer-bearing, 250293
 foraminifers, 300141
 mica, 300141
 micarb, 300141
 micarb-rich, 230387
 montmorillonite, 300141
 nannofossils, 300141
 pyrite, 300141

- lithology (Cont.)
 quartz, 300141
 radiolarians, 300141
 semilithified, 300141
 sponge spicules, 300141
 zeolite, 300141
 Madagascar Basin, volcanic sediment, 250520
 Mozambique Ridge, volcanic sediment, 250529
 silt, terrigenous, Campbell Plateau, 291147
 chalk, clay-rich
 acoustic properties, Africa NW, 790853
 Africa NW, continental margin, 790853
 Atlantic Ocean C, basin, 511505
 lithology, 410330
 chalk, diatom
 lithology, 480222, 480225
 Meiji Guyot, K/Ar age, 550677
 chalk, diatom nannofossil, lithology, 230297,
 230386, 360148, 400194
 chalk, dolomitic
 dissolution, carbonate, 400997
 lithology, 390149
 chalk, Fe-Mn rich
 Pacific Ocean N, mineralization, contact,
 190906
 pelagic components, distribution, Indian
 Ocean WC, 250490
 chalk, ferruginous
 Atlantic Ocean C, magnetic anomaly, 391113
 Atlantic Ocean S, magnetic anomaly, 391113
 lithology, 260160
 chalk, foraminiferal
 Goban Spur, evolution, 801212
 lithology, 230039, 230040, 260363, 390053,
 480080
 magnetostratigraphy, Cretaceous sediments,
 400463
 Pacific Ocean NW, geochemical history,
 620786
 paleoenvironment, Hauterivian to
 Cenomanian, 47B0414
 regional seismic grid, borehole data
 extrapolation, depositional history,
 950789
 chalk, foraminiferal diatom, major element,
 850783
 chalk, foraminiferal nannofossil
 Atlantic Ocean
 Cenozoic sediment, 140871
 Cretaceous sediments, 140871
 Bahama Islands, geology, 110887
 bioturbation history, environmental
 relationships, Lord Howe Rise, 901194
 Campeche Escarpment, sediments, 100032
 carbonate
 carbon isotope, 170505
 diagenesis, 170409, 170412, 170413, 170419
 fossil preservation, 170409, 170412,
 170413, 170419
 oxygen isotope, 170505
 Central America, western continental slope,
 840921
 crust, fracture zone, 920308
 Davie Ridge, volcanic sediment, 250520
 deposition, eolian, Pacific Ocean SE, 920336
 dissolution, carbonate, 400994
 geologic setting, Miocene, 840923
 Goban Spur, 801182
 evolution, 801208, 801212
 inorganic geochemistry, sediments, rocks,
 Mid-Pacific Mountains W, 620685
 interstitial water, 100620
 lithologies, major
 chalk, 901480
 ooze, calcareous, 901480
 lithology, 070328, 100026, 100195, 100198,
 100203, 100298, 100311, 100316, 150020,
 150021, 150368, 160370, 170152, 230039,
 240395, 250092, 250146, 250293, 290275,
 320080, 320316, 320318, 330167, 330308,
 390053, 400194, 400195, 400199, 480175,
 480222, 480225, 500127
 banding, 170152
 burrow mottling, 370029
 calcite, 170152
 cement, 170152
 chalk, 170152
 dissolution, 170152
 glauconitic, 240395
 grading, 170152
 lamination, 170152
 minor sediment types, 47A0027
 radiolarian, 320316
 recrystallization, 170152
 reflector, 170152
 unconformity, 170152
 lithostratigraphy, 901473
 Lord Howe Rise
 isotope stratigraphy, 901384
 pale green laminae, 901145
 magnetostratigraphy, Chatham Rise, 901291
 Middle America Trench
 mineralogy, X-ray, 670529
 transect, 670529
 New Jersey Transect, stratigraphy, 950767
 Pacific Ocean SW
 calcareous sediments, 901239
 Neogene-Paleogene evolution, 901437
 tephra, vitric, 901161
 particle, origin, 901226
 Pendragon Escarpment, Cenomanian-Miocene,
 801196
 Rio Grande Rise, sediment, 720425
 Rockall Rise SW, structure, 481086
 sediment properties, 901273
 silica, diagenesis, 410888
 silicified sediments, 801082
 southwest regional unconformities, 210705,
 210715
 stratigraphy, post-Eocene stratigraphy,
 481086
 volcanic sediment, lithostratigraphy, 901176
 chalk, green
 abyssal plain, inorganic geochemistry,
 801074
 silicified sediments
 Goban Spur W, 801084
 upper continental slope, 801082
 chalk, intraclastic
 Atlantic Ocean NW, sedimentation, 440978
 lithology, 440162, 440167
 seismic stratigraphy, velocity, 440533
 chalk, manganiferous, 670523, 670525
 chalk, metalliferous
 magnetostratigraphy, 850854
 major element, 850789
 chalk, micarb, 260593
 Indian Ocean NE, Cretaceous, 220723, 220737
 Indian Ocean S, geologic history, 260927
 lithology, 220215, 220270, 220271, 220272,
 230040, 230121, 230171, 260236, 260363
 petrography, 260161
 radiolarian-rich, 230040
 zeolite, 230040
 paragenesis, 260595
 chalk, micritic
 Bahama Islands, geology, 110887
 Indian Ocean NE, sediment history, 220763
 lithology
 Campanian, 110014
 Eocene, 110013
 chalk, Mn-rich
- Cocos Plate
 sedimentary facies, 670608
 sediments, 670608
 Guatemala, trench, 670523
 chalk, nannofossil
 abyssal plain, inorganic geochemistry,
 801074
 Africa, continental margin NW, 410975
 Angola Basin
 biostratigraphy, 750450
 sedimentary structure, 400536
 Arabian Sea, sediment history, 230508
 Atlantic Ocean
 Cenozoic sediments, 140798
 Cretaceous sediment, 140798
 Atlantic Ocean C, basin, 511505
 Atlantic Ocean N
 grain size, 020308
 Mediterranean Sea, 110814, 110815,
 110817, 110818
 Atlantic Ocean NW, sedimentary evolution,
 430812
 Atlantic Ocean S, Miocene, 720821
 Atlantic Ocean SE, paleoenvironmental
 evolution, 740672, 740673
 Atlantic Ocean SW, basin, evolution, 360994
 basalt
 interlayered sediment, 490427
 petrology, 580843, 580846
 bioturbation, Cenozoic, 901189
 Biscay, Bay of N, margin, 801136
 Biscay, Bay of
 evolution, 480797, 480798, 480800,
 480801, 480805, 480811, 480815
 margin, 801137
 Blake Basin, 760729, 760733, 760741, 760743
 Blake-Bahama Formation, 770044
 bottom current
 erosion, 490864
 sedimentation, 490864
 burrows, 010521
 calcarene, 010521
 allochthonous debris enrichment, 010521
 cementation, 010521
 turbidity current, 010521
 calcareous facies, Campbell Plateau, 291151
 calcisiltite, 010521
 allochthonous debris enrichment, 010521
 cementation, 010521
 turbidity current, 010521
 calcium carbonate, carbon, organic, 620872
 California, Gulf of, mouth sediments, 650439
 Campeche Escarpment, sediments, 100033
 Cape Basin
 Cretaceous to Pliocene, 400494
 sedimentary structure, 400536
 Cape Bojador, continental margin, 47A0781
 carbon isotope
 Eocene, 300419
 faunas, 410960
 sediments, 410960
 carbonate
 fossil preservation, 320897
 Pacific Ocean W, 070977
 redeposited clastics, 760798, 760800,
 760801
 Caroline Abyssal Plain, chalk, 200069,
 200071
 Cenozoic, 010521, 901189
 bioturbation, 901189
 chalk, calcite, 260593
 chert, 010521, 320434
 geochemistry, 620712, 620728
 oxygen isotope, 620749
 Pacific Ocean E, 160611
 petrology, 620712, 620728

- clay
 Eocene to Oligocene, 580684
 Oligocene to Pleistocene, 580684
 clay minerals, Cretaceous and Cenozoic, 480705, 480707, 480716
 climate, 280935
 continental margin, inorganic geochemistry, 801073
 continental shelf, onshore geology, 400969
 Coral Sea Basin
 carbon isotope, 300419
 diagenesis, 300419
 Eocene, 300419
 oxygen isotope, 300419
 Cretaceous, 010521
 calcite, 010521
 coccoliths, 010521
 Davie Ridge, volcanic sediment, 250520
 deposition
 arid, 250492
 Atlantic Ocean SC, 250492
 biogenic sedimentation, 250492
 black ferromanganese facies, 250496
 bottom current, 250492
 Caribbean Sea, 250493
 CCD, 250492
 Davie Ridge, 250494
 detrital land-derived materials, 250493
 epidote, 250493
 Equatorial Divergence, 250492
 gibbsite, 250492
 Goban Spur, 800870, 800871, 800876
 Indian Ocean, 250493
 kaolinite, 250492
 laterite, 250492
 Madagascar Basin, 250492
 Madagascar Plateau, 250494
 Mascarene Basin, 250492, 250493
 Mediterranean Sea, 250493
 Miocene deposits, 250492
 montmorillonite, 250492
 Mozambique Ridge, 250493
 nannofossils, 250492
 New Zealand, 250493
 organic carbon-rich pyritic facies, 250495, 250496
 Pacific Ocean C, 250492
 Portugal, 47B0377
 productivity, 250492
 quartz, 250492
 redeposition, 250493
 sedimentation rate, 250492
 Somali Basin, 250493
 Somali Current, 250492
 terrigenous sedimentation, 250492
 tropical-subtropical belts, 250492
 turbidites, 250493
 unstable deposits, 250493
 volcanic origin, 250492
 zeolite, 250492
 deposition, eolian, Pacific Ocean SE, 920337
 diabase, petrology, 630701
 diagenesis, 950528
 Eocene, 300443
 siliceous sediments, 500725
 diagenetic facies, Coniacian to Eocene, 210497
 dissolution, carbonate, 400990, 400995, 400997
 East Mariana Basin, 890390
 sedimentary history, 890654, 890657
 Falkland Plateau, sediments, 711001
 Falkland Plateau E, sedimentation, 360886
 Feni Ridge, 941093
 ferromanganese sediment
 iron-rich sediment, 190633
 volcanics, iron-rich, 190633
 Gardar Ridge, 941095
 garnet, metasomatic, 260593
 geologic setting
 accumulation, 800983
 Maestrichtian, 800983
 Goban Spur, 800392, 800397, 801182
 Goban Spur W, 801184
 Guatemala, trench, 670525
 Iberian margin W, evolution, 47B0764
 igneous rocks, geochemistry, 370674, 370678
 Indian Ocean C, recrystallization, 240679
 Indian Ocean NE
 Cretaceous, 220723, 220737
 sediment history, 220723
 Indian Ocean NW, grain size, 250422
 Indian Ocean S, geologic history, 260914, 260919, 260930
 Indian Ocean SW, iron-rich sediment, 250396
 Indian Ocean W, 240678
 Aden, Gulf of, 241047
 chert, 241065
 recrystallization, 240658
 regional aspects, 250755, 250756
 isotopic study, 590634
 Kings Trough, 941091, 941251, 941254, 941257, 941258, 941259
 lamination, 010521
 limestone, 510753
 Cretaceous, 620877, 620879
 lithology, 060541, 100026, 100027, 100261, 100297, 100301, 150022, 150368, 160027, 160058, 160155, 160156, 160305, 160307, 160418, 170152, 170250, 170266, 190023, 190467, 190468, 210374, 210375, 220039, 220041, 220196, 220328, 230120, 230296, 230297, 240021, 240329, 240330, 240395, 240472, 250146, 250194, 250196, 250293, 260078, 260080, 260331, 260363, 280021, 280022, 280084, 280125, 300178, 300180, 310069, 310193, 320164, 320197, 320316, 360033, 360148, 360149, 370042, 380173, 390053, 390054, 390149, 390239, 400043, 400047, 400048, 400194, 400195, 400364, 400367, 410026, 410028, 410171, 410330, 430113, 430115, 430212, 47B0035, 47B0036, 480079, 480080, 480175, 480178, 480222, 490026, 490027, 490237, 490343, 500040, 500041, 500043, 510045, 510363
 argillaceous, 410329
 basalt, olivine, 280053
 basement, 370045, 370292
 bedding, 170152
 burrow mottling, 370040, 370041
 calcite, 170250
 Campanian-Santonian, 110015
 Cenozoic deposits, 47B0048
 Cenozoic units, 480044, 480047, 480048
 chert, 170152
 claystone, 170250
 Eocene, 110013
 foraminifer-bearing, 260364
 foraminifer-rich, 230039
 foraminifers, 170152
 gradational transition, 160155
 lamination, 170250
 limestone, 170152
 Mesozoic deposits, 47B0051
 Mesozoic units, 480049
 micrite, 170250
 minor sediment types, 47A0028
 Neocomian-Tithonian, 110057
 ooze, nannofossil, 140163, 140183
 phillipsite, 170250
 planktonic foraminifers, 170250
 radiolarians, 170152
 San Blas Oceanic Formation, 090618
 lithostratigraphy, 901473
 magnetostratigraphy, Cretaceous sediments, 400463
 material, 850782
 Mazagan Escarpment, 790903, 790906
 Mazagan Plateau, 790397, 790398
 Mexico, Gulf of, regional aspects, 010640
 microstructure, 950532
 Pacific Ocean, 950532
 silica, biogenic, 950532
 Southern Ocean, 950532
 Mid-Atlantic Ridge, 941093
 minor element, geochemistry, 360931
 mud, terrigenous
 organic geochemistry, 400566
 sediment classification, 250455
 Neogene formations, paleogeography, 42A0909
 Ninetyeast Ridge, dolomite, 220478
 Oligocene-Pleistocene sediments, crust, 920293
 ooze, siliceous, 291149
 organic geochemistry, 630837
 Biscay, Bay of, 590648
 Cretaceous-Tertiary, 800949
 Pendragon Escarpment, 800950
 organic matter
 Aptian-Jurassic, 711016
 Pendragon Escarpment, 800970
 Porcupine Plain, 800970
 vertical distribution, 711011
 oxygen isotope
 Eocene, 300419
 faunas, 410960
 sediments, 410960
 Pacific Ocean N, plate movement, 190902
 Pacific Ocean SE, ridge flank sediments, 920417
 Pacific Ocean SW
 bioturbation, 901189
 Cenozoic, 901189
 paleoceanography, 901500
 sediment, 901189
 unconformities, 210705, 280703, 280709, 280715
 Pacific Ocean W
 equatorial, 071165
 guyot, 200664
 paleoclimate, diachronous biogenic facies, 280911
 paleoenvironment, 47B0417
 Hauterivian to Cenomanian, 47B0414
 Panama Basin, physical properties, 160500, 160506, 160507
 pelagic components, distribution
 biogenous components, 250489
 Indian Ocean WC, 250490
 volcanic components, 250491
 Pendragon Escarpment, 801182, 801183
 Paleocene-Eocene, 801197
 peridotite-gabbro-basalt, mineral analyses, 370848
 Philippine Sea
 Daito Basin, 600419, 600424
 Daito Ridge, 600419, 600424
 porcellanite, chert, 320434
 Porcupine Plain, 800398, 801183, 801184
 regional seismic grid, borehole data
 extrapolation, depositional history, 950790
 Rio Grande Fracture Zone, geochemistry, 720429
 Rockall Rise, 941109
 sand, glauconitic, 291152
 sandstone, 291152
 sediment basin, geology, 47A0764

- sediment chemistry
 sedimentary sequence, lithology, 200727
 sedimentary structure, Ganges Fan, 220739
 sedimentology, organogenic pelagic sediments, 100699
 seismostratigraphy, 801124
 shale
 Aptian-Barremian, 711016
 organic geochemistry, 400566
 silica, opaline, transformation, 480758
 siliceous sediment, 500725
 silicified sediments, 500728
 silicified sediments
 abyssal plain, 801084
 continental margin, 801082
 slumping, detection, 950661
 southwest regional unconformities, 210705, 210709
 stratigraphy and evolution, Pendragon Escarpment, 801183
 tectonic, carbonate, 430812
 tetrapyrrole, geochemistry, 630793, 630807
 Tithonian, 010521
 turbidites, 890367
 upper continental slope, unconformities, 801172
 volcanism, Madagascar Basin, 250539
 Walvis Ridge, Cretaceous to Pliocene, 400494
 chalk, nannofossil foraminiferal deposition, Portugal, 47B0388
 dolomite, 020419
 lithology, 230039, 300180, 330111, 330167, 390149, 480175, 490029
 carbonate, 170288
 chert nodule, 300239
 limestone, radiolarian, 300239
 Marquesas Oceanic Formation, 090408
 Miocene, 670577
 Pacific Ocean EC, geologic history, 090924
 Pacific Ocean W, guyot, 200657
 chalk, nannofossil micritic
 lithology, 360149
 chert, zeolitic, 170250
 claystone, zeolitic, 170250
 chalk, nannofossil radiolarian
 lithology, 160305
 Clipperton Oceanic Formation, 090058
 San Blas Oceanic Formation, 090452
 chalk, porcelaneous, Cyprus, evaporites, 42B1191
 chalk, pyritic
 carbon isotope
 faunas, 410960
 sediments, 410960
 oxygen isotope
 faunas, 410960
 sediments, 410960
 chalk, radiolarian
 dissolution, carbonate, 400995
 lithology, 230040
 chalk, radiolarian foraminiferal, lithology, 320080
 chalk, radiolarian nannofossil
 lithology, 100026, 150021, 150022, 170152, 320239, 330044, 330111
 banding, 170152
 calcite, 170152
 cement, 170152
 chalk, 170152
 dissolution, 170152
 foraminiferal, 100195, 100198, 100203, 320162
 grading, 170152
 lamination, 170152
 recrystallization, 170152
 reflector, 170152
 unconformity, 170152
 Pacific Ocean SW, unconformities, 280703
 southwest regional unconformities, 210703
 chalk, recrystallized
 chalk, calcite, paragenesis, 260595
 diagenesis, aspects, 901486
 garnet, metasomatic, paragenesis, 260595
 sedimentology, Mexico, Gulf of, 100711
 chalk, reworked
 Miocene depositional history, 950800
 New Jersey Transect, stratigraphy, 950771, 950772
 chalk, siliceous
 Atlantic Ocean
 Cenozoic sediment, 140871
 Cretaceous sediments, 140871
 margin, 481104
 Biscay, Bay of, evolution, 480815
 bottom current
 erosion, 490864
 sedimentation, 490864
 chert
 geochemistry, 620713, 620715, 620721
 oxygen isotope, 620749
 petrology, 620713, 620715, 620721
 clay minerals, Cretaceous and Cenozoic, 480711
 Costa Rica Rift, chalk, 690397, 690398, 690399, 690407
 deposition
 chalk, nannofossil, 250496, 250497
 ooze, nannofossil, 250496, 250497
 equatorial sediment bulge, 850977
 Hess Rise N, sedimentary sequences, 620761
 Indian Ocean S, geologic history, 260927
 Indian Ocean SW, iron-rich sediment, 250396
 lithologies, minor
 chert, 901482
 chert, diagenetic, 901482
 Coral Sea, 901482
 diatoms, 901482
 Paleogene regional unconformity, 901482
 radiolarians, 901482
 sponge spicules, 901482
 Tasman Sea, 901482
 lithology, 220271, 310069, 360149, 380173, 390147, 390149, 47B0035, 480175, 480222, 480225
 ooze, chalk, 140296
 lithostratigraphy, 901473
 Madagascar Basin, volcanic sediment, 250523
 Miocene
 geochemistry, 690395, 690398, 690399, 690402, 690403, 690404, 690406, 690407
 petrology, 690395
 Pacific Ocean, guyots, 620774
 Rockall Rise SW, structure, 481087
 Santos Plateau, origin, 390936
 silica, diagenesis, 410888, 410889, 410890
 silica, opaline, transformation, 480758
 stratigraphy, post-Eocene stratigraphy, 481087
 chalk, siliceous diatom
 Rockall Rise SW, structure, 481086
 stratigraphy, post-Eocene stratigraphy, 481086
 chalk, siliceous nannofossil
 Biscay, Bay of, evolution, 480811, 480815
 clay minerals, Cretaceous and Cenozoic, 480705, 480711
 crust, oceanic, geology, 920572
 equatorial high-productivity belt, 850973
 Galicia Bank, tectonics, 47B0666
 Iberian margin W, evolution, 47B0764
 lithology, 210273, 290125, 480079, 480132, 490026, 490027
 major element, 850789
 Panama Basin, sediments, 690385
 Philippine Sea, Mariana Islands, 600432
 Porcupine Plain, Paleocene-Eocene, 801197
 regional seismic grid, borehole data extrapolation, Eocene, 950790, 950791, 950794, 950796, 950797
 sedimentation, acoustic stratigraphy, 47B0666
 slumping, detection, 950661
 stratigraphy and evolution, Porcupine Plain, 801183
 chalk, vitric
 mineralogy
 Mariana Trench, 600443
 Mariana Trough, 600440
 Philippine Sea, Mariana Trough, 600431
 chalk, zeolitic
 Kings Trough, 941249, 941254, 941258
 lithology, 110016, 170266, 390052, 390053, 390147, 390149
 chalk, clay nannofossil, 300141
 chalk-chert sequence
 Pacific Ocean NW, 200727
 age, 200727
 stratigraphy, 200731
 chalk-chert-limestone
 Costa Rica Rift, chalk, 690407
 interstitial water, 610603
 Pacific Ocean NW, basement, 200047
 chalk-limestone transition
 Line Islands, stratigraphy, 330850
 lithology, 440204
 major sediment types, 47A0027
 chalk-marl cycles
 Africa, continental margin NW, 410984
 lithology, 160023
 chalkification
 Jurassic-Cretaceous, carbonate, 790866
 Paris Basin, 790866
 Challenger Bank, 430877
 Challenger Knoll, 010084, 010104, 010109, 010174, 010403, 010404, 010415, 010417, 010423, 010424, 010427, 010445, 010564, 010595, 010597, 010605, 010621, 010626, 010628, 100055, 100189, 100737, 130813, 130814, 130815, 38S0647
 cap rock, 010415
 Mexico, Gulf of, regional aspects, 010626, 010627, 010628, 100737
 oil, 010415
 tetrapyrrole, geochemistry, 630813
 Challenger Plateau, 210280, 210726, 300665, 900005, 900551, 900552, 900567, 900750, 900763, 901175, 901181, 901182, 901185, 901225, 901226, 901227, 901230, 901231, 901234, 901235, 901413, 901414, 901420, 901422, 901423, 901472, 901473, 901483, 901486, 901494, 901495
 biogeography, temperature, 901357
 bioturbation history, environmental relationships, cool temperature, 901195
 Cenozoic paleoceanography, 901494
 oceanographic setting, 901495
 currents
 Miocene, 901231, 901234
 Miocene-Pleistocene, 901234
 Oligocene, 901231
 diagenesis, aspects, 901485, 901486
 Eocene/Oligocene boundary, volcanic sediments, 901175
 foraminifers, calcareous nannofossils, 901413
 Quaternary isotope stratigraphy, 901413
 groups, occurrence, general trends, calcareous nannoplankton, 901462

- isotope stratigraphy, Quaternary, 901413
isotopes, depletion, 901355
isotopic analysis results, 901350
carbon isotope, 901352
debris flows, 901350
Eocene/Oligocene boundary, 901350, 901352
Lalitha Pinnacle, 901351
¹⁸O, 901351
Oligocene divergence, 901352
ooze, foraminiferal nannofossil, 901350
pyroclastic flows, 901350
turbidites, volcanoclastic, 901350
lithologies, minor, turbidites, volcanic, 901483
lithostratigraphy, unconformity, 901473
magnetostratigraphy, 901289, 901291
turbidite, volcanic, 901296
major boundaries, Oligocene/Miocene boundary, 901463
New Zealand
Cenozoic changes, 901230, 901231
tectonics, 901231, 901234
Pacific Ocean SW, paleoceanography, 901495, 901499, 901503, 901512, 901513
Quaternary, 901414
Antarctic Intermediate Water, 901423
Arctic Ocean, 901423
bottom water, 901416
calcareous nannofossils, 901417, 901423
carbon isotope, 901423
coarse sediment intervals, 901423
deposition, 901423
glacial-interglacial cycle, 901423
ice sheet, 901423
modern oceanographic setting, 901414
near-surface water mass, 901417
¹⁸O, 901423
oxygen isotope, 901420, 901421, 901422, 901423
sediment texture, 901417, 901420
sedimentation rate, 901423
surface water, 901423
temperature indicator, 901416
gerina, 901416, 901423
Quaternary isotope stratigraphy, foraminifers, calcareous nannofossils, 901413
sand, glauconitic, bottom current, 291152
temperature gradient, Campbell Plateau, 901356
volcanic deposit, 901185
deposits, 901175
volcanism, Eocene-Oligocene, 901183, 901185
volcanism, submarine, Eocene-Oligocene, 901182
volcanogenic deposits, 901175
chamosite, Brazil Basin, minor sediment components, 721003
Channel Islands, 630025, 630437, 630632, 630911, 630916, 630950, 640799
accumulation rate, California Borderland S, 630950
platform, 630815, 630910
rock stratigraphy, 630907
Miocene, 630916
tetrapyrrole, geochemistry, 630813, 640799
Charcot Bank, Pacific continental margin, geomorphology, 350281
Charcot Canyon, 350284
Pacific continental margin, geomorphology, 350284
Charcot Channel, 350283
Pacific continental margin, geomorphology, 350283
Charcot Cone, 350285
Pacific continental margin, geomorphology, 350285
Charcot Escarpment, 801164
Charcot Fault, 121171
Charcot Island, 350279, 350281, 350284
Pacific continental margin, geomorphology, 350279, 350284
Charcot Seamount, 47B0096, 47B0764, 47B0768, 481052
continental margin, structural evolution, 481052
Iberian margin W, evolution, 47B0764, 47B0768
Charlie Gibbs Fracture Zone. *See* Gibbs Fracture Zone
Chatham Rise, 290021, 291142, 660420, 660427, 890214, 900005, 900020, 900653, 900654, 900655, 900664, 900672, 900763, 900863, 900893, 900925, 900953, 900961, 901085, 901087, 901089, 901090, 901225, 901226, 901231, 901234, 901235, 901263, 901273, 901325, 901326, 901327, 901332, 901333, 901334, 901335, 901336, 901472, 901473, 901494, 901495, 901653
Banks Peninsula, shield volcano, 901328
bioturbation history, environmental relationships, 901195, 901197
burrows, 901197
ooze, foraminiferal nannofossil, 901195
Planolites-chondrites-Zoophycos assemblage, 901197
Pliocene-Quaternary oozes, 901195
sedimentation rate, 901195
Subtropical Convergence, 901197
turbidites, 901197
Bounty Trough, 901328
Canterbury, continental shelf, 901328
Canterbury Plains, burial, 901328
Cenozoic paleoceanography, 901494
oceanographic setting, 901495
Cenozoic volcanic knolls, 901328
currents, Miocene-Pleistocene, 901234, 901235
diagenesis, aspects, 901488
erosion, 901327
faulted northern margin, 901328
geanticline, Tertiary formations, 901327
glaucony, 660420
graywacke, Paleozoic-Mesozoic, 901327
limestone
distribution, 901327
Eocene, Miocene, 901327
phosphatization, 901327
lithologies, major
chalk, 901480
ooze, calcareous, 901480
lithologies, minor, chalk, 901483
lithostratigraphy, unconformity, 901473
magnetostratigraphy
hiatuses, 901293
inclination distributions, 901293
Kaikoura Orogeny, 901291
Miocene/Pliocene boundary, 901295
NRM intensities, 901293
ooze, foraminiferal nannofossil, 901291
reversed boundaries, 901293
sedimentation change, 901293
terrigenous material, 901291
turbidites, 901291
uniform sedimentation, 901295
major boundaries, Pliocene boundary, 901463
marginal plateau, 901327
Neogene stratigraphy, 901328
New Zealand, 350285
Cenozoic changes, 901231
tectonics, 901234, 901235
Pacific continental margin, geomorphology, 350285
Pacific Ocean SW, paleoceanography, 901503, 901511, 901513
Paleogene stratigraphy, 901328
plate boundary, seismic stratigraphy, 901325
Quaternary, isotope stratigraphy, 901425, 901426, 901431, 901432, 901433, 901434
Rangitata Foldbelt, schist, 901327
sedimentation rate, calcareous biogenic productivity, 901485
seismic stratigraphy
basement, 901336
circulation, oceanic, 901325
collision, oblique, 901325
crust, continental, 901325
East Cape Current, 901325
erosion, 901333
evolution, 901336
geomorphological setting, 901325
low-salinity water, 901325
maximum tidal speeds, 901325
New Zealand E, 901325
North Island, 901325
North Mernoo Fault Zone, 901334
North Mernoo Slope, 901332
plate boundary, 901325
rise crest seismic stratigraphy, 901332
sediment flow, 901325
South Island, New Zealand, 901325
Southland Current, 901325
structure, 901325
Subtropical Convergence, 901325
Subtropical Water, 901325
tectonic history, 901327
tectonic setting, 901326, 901327
southern margin, 900787
Tasman Basin S, borderland, 291142
turbidites, Pliocene-Pleistocene, 901328
westward continuation, 901328
Chattian/Rupelian boundary, Paleogene magnetobiostratigraphy, Oligocene, 720939
Chaves
formations drilled, exposed land, 42A0901
Pacific Ocean SW, paleoceanography, 901513
Chedabucto Bay, Cobequid Bay, fault zone, 801110
Cheliff Basin, 42A0363, 42B1181
Algeria, continental shelf, 42B1181
Chella Bank, 131420
chert, 010521, 020418, 160612, 280751, 300435, 320048, 320197, 320429, 320430, 320432, 320434, 320435, 320436, 320446, 330044, 330858, 330859, 330862, 340615, 430437, 561133, 561134, 561137, 670520, 860657, 860667, 890391, 890395
Africa, continental margin NW, 410965, 410967, 410972, 410974
Africa NW, continental margin, 411124
Albian-Cenomanian, 010584
cristobalite, 010584
lamination, 010584
opaline, 010584
Radiolaria, 010584
Algeria, continental shelf, 42B1181
anoxia, global, evidence against, 801001
Aptian to Eocene, 300435
Arabian Sea
geology, 231119
history, 231119, 231122
sediment history, 230508, 230518
ash, 300435, 300437
alteration, 300437
Atlantic Basin NW, Cretaceous, 430437
Atlantic continental margin
interstitial water chemistry, 170515
mineralogy, 050441, 080902, 100754,

- Atlantic continental margin (Cont.)
100773, 110754, 110772, 110773
- Atlantic Ocean
Cenozoic sediments, 140791, 140793,
140796, 140846, 140848, 140850, 140851,
140853
Cretaceous sediment, 140791, 140793,
140796, 140846, 140848, 140850, 140851,
140853
seismic reflectors, 561137
- Atlantic Ocean C
Argentine Basin, 391117
basin, 511505
Sierra Leone Rise, 391122, 391123
- Atlantic Ocean N
grain size, 020307
Mediterranean Sea, 110810, 110813,
110814, 110815, 110817, 110820
- Atlantic Ocean NC, Mesozoic sequences,
410999, 411005
- Atlantic Ocean NE, evolution, 411215,
411216, 411225, 411230, 411232, 411234
- Atlantic Ocean NW
acoustic stratigraphy, 430833, 430834
basin, 430437
lithology, 110922, 110936
regional aspects, 110956, 110967, 110970,
110971
sedimentary evolution, 430816
sedimentation, 440977
- Atlantic Ocean S
Argentine Basin, 391117
Sierra Leone Rise, 391122, 391123
- Atlantic Ocean SE, paleoenvironmental
evolution, 740666, 740667
- Atlantic Ocean SW, 720443
- Atlantic Ocean W
reflection horizon, 040671
Venezuelan Basin, 040666
- Bahama Islands, geology, 110887
- Balearic Plain, halite, 130709
- barite, replacement, 320447
- basalt
basement, 320435, 320436
Cretaceous, 150989
- bedding, 070991
nodules, 320436, 320438
bedding and structures, 561134
- Bering Sea, seismic reflectors, 561137
- Bermuda Rise Formation, 760763
- biogenic sediment, diagenesis, 300458,
300473
- biogenic siliceous fragments, 280751
- biogenic siliceous sediment, 320430
- biostratigraphy, paleoenvironment, 840949
- Blake Basin, 760653, 760766, 760770,
760776, 760778, 760937
- bottom current, 300437
- breccia, 320439, 561135
- carbonate, 320439
chalcedony, 320439
compaction, 320439
noncalcareous sediments, 320439
quartz, 320439
silicification, 320439
- brecciated, 890396
- burrow mottling, silt, 291052, 291054
- Caballos Formation, Texas, 561135
- CaCO₃, 320434
- calcareous facies, Campbell Plateau, 291151
- calcareous microfossils, 280751
- calcareous sediment, 320434, 320436
- calcareous volcanic sediment, 320434
- calcite, 320429
overgrowth, 320447
replacement, 320447
- calcium carbonate, carbon, organic, 620869
- Cape Bojador, continental margin, 47A0773
- carbon isotope, stable
formation, 410943, 410944
nodule, 410947
- carbon, organic, 320434
- carbonate, 300435, 320429, 320430, 320434,
320435, 320436, 320447
clay, zeolitic, 300435
diagenesis, 170409, 170414, 170417
fossil preservation, 170409, 170414,
170417, 320897
sediments, 320893
siltstone, 300435
- carbonate, biogenic, deposition, 300437
- carbonate compensation depth, 010522, 300437
- Caribbean Sea, sediments, 150932, 150940
- Caroline Abyssal Plain, chalk, 200069,
200071
- cavities, 320439
- calcite, 320439
- carbonate, 320439
- chalcedony, 320439
- opal-CT, 320439
- porcellanite, 320439
- quartz, 320439
- CCD, 320430
- chalcedony, 010522, 320430, 320447
- chalk, 300435
calcareous sponge spicules, 300435
chalcedony, 300435
dendrite, 300435
feldspar, 300435
foraminifers, 300435
glass, volcanic, 300435
magnetite, 300435
micarb, 300435
nannofossils, 300435
quartz-filled tests, 300435
radiolarians, 300435
zeolite, 300435
- chalk, nannofossil, 010521, 320434
- chalk, siliceous nannofossil, 950796
- chert, vitreous, 280751
- clay, 291052, 320430, 320436
Eocene, 580684
silicification, 291054
trace elements, 170511, 170512
- clay minerals
mineralogy, 140728, 140730, 140731, 140732
- Pacific Ocean NW, 200336, 200338
- clay, siliceous, 320429
- clay, terrigenous, 291149
- Mirza Formation, 291062
- Woolshed Formation, 291062
- clay, zeolitic, 300435, 320434
- clayey environment, 320447
- claystone, 280751
- continental shelf, onshore geology, 400968
- Costa Rica Rift
carbonate, 690463
chalk, 690395, 690397, 690398, 690399,
690403, 690404, 690406, 690407
siliceous rocks, 690423, 690424, 690426,
690428
- Cretaceous, 430437
- Atlantic Basin NW, 430437
- chert, quartz, 430443
- distribution of silicified sediments,
430437, 430438
- porcellanite, 430422, 430438, 430442,
430443
- silica, 430444, 430445, 430446, 430447
- Cretaceous/Tertiary boundary
mineralogy, 620851
- paleoenvironmental history, 740685
- cristobalite, 020418, 280751, 320430
- crust, 061301
thermal history, 690472
- Daito Ridge, sandstone, 580609
- density, porosity, sonic velocity, 320439
- carbonate, 320439
clay, 320439
porcellanite, 320439
silicification, 320439
- deposition, 960490
chalk, nannofossil, 250496, 250497
Equatorial Plateau, 300440
ooze, nannofossil, 250496, 250497
- detrital modal analysis
sand, 870622
turbidites, 870623
- diagenesis, 170377, 280752, 500725
- aspects, 901486
- biogenic sediment, 850805
- carbonate, 210503
- cristobalite, 280752
- Mesozoic, 271013
- Moroccan Basin, 500725, 500728
- Pacific Ocean C, 170377, 170378, 170381,
170382, 170383, 170387, 170393, 170394,
170397, 170398, 170400
- Pacific Ocean N, 170377
- porcellanite, 500728
- quartz, 280752
- silica, biogenic, 280752
- siliceous skeletons, 280752
- volcanic source, 280752
- diagenetic facies, Coniacian to Eocene,
210497
- diatoms, 280751
- dissolution, foraminiferal, 300437
- distribution, 061304, 320447
- dolerite, Cretaceous, 150989
- dolomite, rhombs, 320447
- East Mariana Basin, 890390
Eocene, 890390
Miocene, 890390
- sedimentary history, 890657
- Eocene, 010584, 280751
fossils, calcareous, 010584
fossils, siliceous, 010584
rock, silicified, 010584
skeleton corrosion, 010584
skeletons, opaline, 010584
- Eocene rocks, 020418
- feldspathic sediment, abyssal, 200359
- flysch, 500752
- foraminifers, 330859
calcite, 330859
micrite, 330859
- formation, 110805, 320444, 320445, 320447,
330858, 561133, 760776, 760778
- barite, 320445
- calcareous sediment, 320445
- calcite, 320445
- carbonate, 320445
- chalcedony, 320446
- clay, 320445
- cristobalite, 330858
- foraminifer/nannofossils ratio, 320445
- foreign cations, 320446
- formation time, 320444, 320445
- opal-CT/quartz ratio, 320445
- organic matter, 320445
- porcellanite, quartzose, 320446
- pyrite, 320445
- quartz, 320446
- quartz precipitate, 330858
- silica, 320444, 320445, 330858
- siliceous microfossils, 320445
- fossils, minerals, rare and unusual, 340615

- fracture, conchoidal, 020418, 280751
Franciscan Complex
continental, 561140
shale, red, 561137
gas, natural, zonation, 110799
geochemistry, 620711, 620713, 620715,
620718, 620720, 620724, 620725, 620728,
620730, 620851
abyssal oceanic basin deposits, 620718
age changes, systematic, 620718
aggregate, 620724
Al, 620725
alkalinity, 620730
anhydrite, 620725
apatite, 620715, 620721
authigenic minerals, 620720, 620728
B, 620725
Ba, 620725
barite, 620715
biogenic mineral replacement, 620728
breccia, 620723
burial depth, 620718
burrow fill, 620728
burrows, 620711, 620720, 620730, 620731
calcareous algae replacement, 620725
calcareous nannofossil replacement,
620711, 620724
calcareous rocks, 620720
calcite, 620715, 620718, 620721, 620723,
620725, 620730
calcium, 620725, 620728, 620730
Calera Limestone, 620731
CaO, 620725
carbonate, 620711, 620720, 620724,
620725, 620728, 620730, 620731
chalcedony, 620715, 620721, 620728
chalk, 620715, 620720, 620725, 620728,
620731
chalk, nannofossil, 620728
chalk, siliceous, 620715, 620721
chemical environment, 620730
chemical microenvironments, 620730
chemical trends/subbottom depths, 620728
chemistry, 620711
chert, calcareous, 620725
chert, iron-rich, 620723
chert, quartz, 620723, 620725
chert, tuffaceous, 620725
chert, vitreous, 620725, 620730
chromium, 620725
clast, volcanic, 620725
clay, 620720, 620724, 620728
clinoptilolite, 620715
Co, 620728
collophane, 620725
copper, 620728
crystal growth, 620720, 620724
crystal structure, 620718
deep-water environment, 620725
deposit permeability, 620724
deposit porosity, 620724
dissolution, 620724
dissolution, mineral, 620730
dolomite, ferroan, 620725
England, 620731
Eocene, 620730
evaporite mineral, 620725
Fe²⁺, 620728
Fe₂O₃/FeO ratio, 620728
Fe³⁺, 620728
feldspar, 620715, 620730
fluid inclusion, 620725
foraminifer replacement, 620728
foraminifers, 620730
formation, 620711, 620725, 620728
Franciscan Complex, 620731
geologic setting, 620711, 620712
goethite, 620715
Gunflint chert, 620724
gypsum, 620725, 620730
halite, 620725
hematite, 620721
Hess Rise, 620711, 620725
host rock replacement, 620730
illite, 620715
iron, 620728, 620730
iron oxide, 620720
iron-manganese oxide, 620723
Japan C, 620730
jasper, 620721, 620725, 620731
K, 620725
lamination, 620721
limestone, nannofossil, 620731
limestone-chert sequence, 620724
lithology, 620713
luteite, 620725
magnesium, 620730
major element, 620725
major oxides, 620713
manganese, 620713, 620725
Mellish Seamount, 620725
metamorphism, 620718
MgO, 620725
microfossil, 620721
microfossil chambers, 620728
microorganisms, precipitation, 620724
microquartz, 620721
Mid-Pacific Mountains, 620711
mineral components, 620725
mineral, diagenetic, 620730
mineral replacement, 620730
mineral reprecipitation, 620730
mineral separates analyses, 620713
mineralogy, 620711, 620851
minor element, 620713, 620725
molybdenum, 620725
Monterey Formation, 620718
mud, calcareous, 620721
nannofossil replacement, 620720, 620724
nannofossils, foraminifers, 620720
nickel, 620728
ooze, calcareous, 620725
opal, 620723
opal-A, 620728
opal-CT, 620711, 620713, 620715, 620718,
620720, 620721, 620724, 620728
organic matter, 620720
oriented pseudosphere structures, 620725
Pacific Ocean, 620728
Pacific Ocean NW, 620730
Paleocene, 620724
Paleogene, 620723
parent rock replacement, 620730
permeability, 620728
petrology, 620711, 620713
pH, 620730
phosphatic fish debris, 620720
phosphorus, 620728
porcellanite, 620711, 620713, 620715,
620720, 620723, 620725
porcellanite, calcareous, 620715, 620725
porcellanite, opal-CT, 620720, 620730
porcellanite, quartzose, 620725, 620730
pore water elements, 620730
porosity, 620720, 620728
protodolomite, 620715
pseudomorph, 620725
purity, 620728
pyrite, 620715, 620720, 620730
pyroxene, 620715
quartz, 620711, 620713, 620715, 620718,
620720, 620724, 620725, 620728, 620730
quartz/opal-CT ratio, 620713, 620718
quartzine, 620725
radiolarians, 620725, 620730
recrystallization, 620720, 620730
rhodochrosite, 620715
seawater derivation, 620725
silica, 620711, 620713, 620715, 620720,
620721, 620724, 620725, 620728, 620730
silica, biogenic, 620728
siliceous microfossils, 620728
siliceous rocks, 620720
siliceous sediments, 620711
silicification, 620711, 620720, 620721,
620724, 620728, 620730
SiO₂, 620725, 620728
smectite, 620715
sodium, 620725
solid-solid reactions, 620730
solution-precipitation, 620720, 620730
spicules, 620725
stratigraphy, 620713
strontium, 620725, 620728
sulfate, 620715, 620725
sulfate, authigenic, 620720
sulfur, 620725
tectonism, 620718
temperature, 620730
terminology, 620712, 620713
terrigenous components, 620718, 620725
terrigenous mineral replacement, 620728
textural variations, 620720
trace elements, 620728
transport, 620721
tridymite, 620713
unconformity, 620724
void space precipitation, 620721
volatiles, 620713
volcanic contents, 620725
volcanic mineral replacement, 620728
volcanogenic components, 620718
yttrium, 620728
zeolite, 620721
zinc, 620725
zirconium, 620725
glass, volcanic, clinoptilolite, 320447
glauconite, 300435
Goban Spur
copper, native, 800851
silicified sediment, 801081
upper slope, 801195
gold, 320429
grainstone, foraminiferal nannofossil,
330858
morphologic development, 330858
silica, 330858
Greenland Sea
basalt, 38S0242
geologic setting, 38S0195
Guatemala
offshore sediment, 840621
trench, 670520
Hess Rise, 621036, 621038, 621039, 621051,
621052
geochemistry, 620711
oxygen isotope, 620749
petrology, 620711
post-Jurassic sedimentation, 620825,
620830
potassium-argon age, 620779
pyrite-marcasite, 620855
Hess Rise N
K/Ar age, 620779, 620780
post-Jurassic, 620810, 620813
sedimentary sequences, 620759, 620761,
620764, 620765, 620766, 620767
high organic content, 320447

- Horizon A
 Eocene, 020424
 Tertiary, 020424
 hydrocarbon, low molecular weight, 711035
 Indian Ocean C, 240679, 240685
 authigenic components, 240685
 noncarbonate sediment, 220497
 Indian Ocean NE
 Cretaceous, 220723, 220771
 sediment history, 220720, 220723, 220767, 220771
 siliceous microfossils, 220729
 Indian Ocean S, geologic history, 260925
 Indian Ocean SW, iron-rich sediment, 250396
 Indian Ocean W, 241049, 241065
 abundance, 241065
 basalt, 250543
 chalk, nannofossil, 241065
 diagenetic structures, 241068
 mineralogy, 170514, 170517
 Oligocene to Paleocene, 241065
 regional aspects, 250756
 inorganic geochemistry, sediments, rocks, 620685
 Hess Rise, 620693
 Mid-Pacific Mountains W, 620685
 interstitial water, 151069, 320429, 610603
 formation, 610603
 interstitial water chemistry, 350420
 Japan Trench, 561133, 561134, 561137
 bedding and structures, 561134
 breccia, 561135, 561136
 chalk, 200011
 formation, 561133
 method of formation, 561139, 561140
 mineralogy, 561135
 minor element, 870649
 physical properties, 561137
 sediments, 271216, 271220, 271222, 271227, 271228, 271232
 silica, 561137
 siliceous rocks, 561136, 561137, 561139, 561140
 trace elements, 870649
 La Desirade Island, 780089
 lenses, 320447
 Lesser Antilles, 780089
 limestone, 300435, 320434
 calcareous sponge spicules, 300435
 chalcedony, 300435
 Cretaceous, 620879, 620881
 dendrite, 300435
 feldspar, 300435
 foraminifers, 300435
 glass, volcanic, 300435
 magnetite, 300435
 micarb, 300435
 nannofossils, 300435
 quartz-filled tests, 300435
 radiolarians, 300435
 zeolite, 300435
 limestone, siliceous, 890391
 porosity, 890395
 limestone-chert sequence, Pacific Ocean, 080819, 080820, 080821, 080822, 080829
 Line Islands, 330855, 330862
 B, 330855
 blue-green laminated nodule, 330858
 Eocene, 330858
 formation, 330855
 Miocene, 330855, 330862
 nodules, 330855
 Pliocene, 330862
 porcellanite nodule, 330855
 Santonian, 330858
 silicification, 330855
 stratigraphy, 330849
 Tertiary, 330862
 lithification, 280751
 lithologies, minor, chalk, siliceous, 901482
 lithology, 040098, 040151, 050310, 060018, 060022, 060059, 060061, 060072, 060174, 060196, 060197, 060224, 060227, 060247, 060559, 070029, 070053, 070056, 070324, 070478, 070727, 080047, 100197, 100261, 100266, 100298, 100301, 100313, 100316, 130490, 150022, 150333, 150337, 150368, 160057, 160058, 160156, 160370, 160414, 160415, 170022, 170023, 170106, 170264, 170287, 180033, 190331, 210108, 210201, 210336, 210337, 220215, 220271, 220272, 230040, 230121, 240330, 240395, 250193, 250196, 260284, 260363, 270093, 280021, 280156, 290228, 300177, 300180, 310443, 320020, 320022, 320026, 320048, 320080, 320083, 320090, 320162, 320164, 320196, 320239, 320316, 320319, 330044, 330111, 330112, 330167, 330307, 350067, 350073, 38S0119, 380172, 380453, 380525, 380528, 380530, 380599, 390054, 390239, 410173, 410174, 410329, 430333, 430335, 440204, 480133, 480221, 480225, 500042, 500043, 500127, 500128, 510046, 510362, 510363
 bedding, graded, 170152
 benthic foraminifers, 170053
 bioclastic skeletal debris, 170053
 bottom current, 170152
 breccia, 170152
 bryozoans, 170053
 burrows, 170152
 calcite, 170152, 170153, 170238
 carbonate, 170053
 cement, 140185
 Cenomanian to Turonian, 140090
 chalcedony, 170053
 chalk, 120411
 chalk, clay nannofossil, 300141
 chalk, nannofossil, 170152
 chert, nannofossil, 170152
 chert nodule, 300241
 chlorite, 140139
 clay, 140090, 140139, 140185, 170152, 170238
 clay, calcic, 210108
 clay, carbonaceous, 140090
 clay, dolomitic, 140185
 clay minerals, 170153
 clay, zeolitic, 170238
 clinoptilolite, 170238
 compaction, 170152
 concretion, 100197
 contact, gradational, 140185
 contact, sharp, 140185
 Cretaceous, 140185
 Cretaceous to Tertiary, 140139
 cristobalite, 170238
 diatoms, 140185
 dolomite, 140185
 echinoids, 170053
 Eocene, 110013, 140185, 430112
 foraminifers, 170152
 fore-reef facies, 170053
 fracture, 320197
 glass, volcanic, 170153
 grading, 170053, 170152
 hematite, 140139, 170153
 hornblende, 140139
 interbedding, 140139, 140185, 170238
 intercalations, 140090
 Kapingamarangi Rise, 300243
 laminae, 140185, 170053
 lamination, 140090, 140139, 170152
 limestone, 140023, 170152, 170153
 limestone, calcitic, 170053
 limestone, nannofossil, 170053
 limestone, radiolarian, 300241
 Line Islands, 080139, 080140, 080289, 080539
 Maestrichtian, 170053
 marl, 170053
 marl ooze, 140090
 Marquesas Oceanic Formation, 080139, 080289
 mica, 140139
 mineral, heavy, 100092
 mud, 170053, 170152, 960479
 mudstone, 140090, 140139, 140185, 170152
 nannofossils, 170238
 Neocomian-Tithonian, 110057
 nodular, 320318
 ooze, limestone, 120411
 opal, 170053
 Oxfordian-Kimmeridgian, 110079, 110226
 Paleocene, 140185
 phillipsite, 170238
 pyrite, 140090, 140139, 140185
 quartz, 170152, 170238, 320197
 radiolarian ghosts, 170053
 radiolarians, 140139, 140185, 170152, 170238, 170251
 recrystallization, 140139, 170053
 recrystallized nannofossils, 170153
 redeposition, 170152
 replacement, 510047
 sand, 100121, 140185
 sand, feldspathic, 140185
 sedimentation rate, 140139, 140185
 shale, 140023
 silica, 140139, 140185
 siltstone, 140139
 slumping, 170152
 sponge spicules, 140139
 Tithonian-Neocomian, 110079
 tuff, 170153
 turbidites, 170152
 vein, 320197
 volcanic material, 170053
 volcanogenic minerals, 170152
 vug, 320197
 zeolite, 140139, 140185, 170153
 zeolite, radiolarian nannofossil, 170238
 lithostratigraphy, Horizon A, 430833, 430834
 lussatite, 280752
 Madagascar Basin, volcanic sediment, 250520, 250523
 Magdalena Bay
 sulfide, 630702
 sulfide chemistry, 630679
 manganese, 291084
 Manihiki Plateau, 330881, 330883, 330886
 absence, 330879
 Aptian to Oligocene, 330881
 calcareous, 330886
 carbonate, 330886
 deposition, 330884
 formation, 330886, 330888
 quartz, 330883
 Marcus Island, archipelagic apron, 200054, 200055
 method of formation, 561139
 conversion temperature, 561139
 redeposition, 561140
 reworking, 561140
 silica, 561139
 Mexico, Gulf of, regional aspects, 010631, 010640, 100743, 100744
 microfossils, 890395
 micronodule, manganese, 291085

- microquartz, 320430
 Mid-Pacific Mountains, 621092
 geochemistry, 620711
 oxygen isotope, 620749
 petrology, 620711
 Mid-Pacific Mountains W, Aptian sediments, 620908, 620909
 middle fan channel, deposit, 960505
 mineralogy, 38S0119, 561135
 Al/Si ratio, 320443
 amorphous silica, 320441
 Atlantic Ocean, 140731, 140732
 barite, 320442
 CaCO₃, 320441
 calcareous sediment, 320441
 calcite, 320442
 calcium, 320443
 carbonate, 320442
 cation, 320443
 chalcedony, 320441
 chert, quartz, 320440
 clay, 320442
 clay minerals, 320443
 clinoptilolite, 320443
 dolomite, 320442
 echinoid spines, 320442
 glass, silicic, 320443
 interstitial water, 320441
 iron, 320443
 K/Si ratio, 320443
 magnesium, 320443
 manganese, 320443
 Mariana Trench, 600443
 montmorillonite, 320443
 opal-A, 320440
 opal-CT, 320440
 opal-CT/quartz ratio, 320442
 opaque material, 320443
 Pacific Plate, 600446
 porcellanite, 320441, 320443
 quartz, 320441
 quartz, authigenic, 320443
 quartz, drusy, 320443
 rutile, 320443
 silica, biogenic, 320441
 silicon, 320441
 sulfur, 320443
 Miocene, 280751
 Miocene depositional history, 950800
 Mishash Formation, 561135
 Mississippi Fan, sediment, 960432
 Monterey, shale, 561135
 montmorillonite, 320447
 Moroccan Basin, diagenesis, 500725
 morphologic variations, 330859
 mud, 280751
 mudstone, 280751, 280752
 diatoms, 280752
 siliceous microfossils, 280751
 Nankai Trough, Japan Trench, 870866
 Neocomian-Tithonian, 010584
 Radiolaria, 010584
 replacement formation, 010584
 silicification, 010584
 Neogene, 630581
 Neogene formations, paleogeography, 42A0910, 42A0914, 42A0915
 New Jersey Transect, stratigraphy, 950813
 Nicoya Peninsula, basalt, 840805
 Ninetyeast Ridge, dolomite, 220478
 nodule, formation, 320447
 Norwegian Sea
 basalt, 38S0242
 geologic setting, 38S0195
 oldest sediment, 020423
 Oligocene to Miocene, 280751
 ooze, calcareous, 300434, 300435, 320447
 ooze, clay diatomaceous, 280752
 ooze, diatomite, 280751
 ooze, siliceous, 320429
 opal-CT, 320429, 320432, 320434, 320435, 320436, 320447
 opaline, 010522
 organic content, 320434
 organic geochemistry, Pendragon Escarpment, 800955
 oriented birefringent matrix, 020418
 oxygen isotope, 620749, 620750, 620751, 620754, 620755
 oxygen isotope, stable
 formation, 410943, 410944
 nodule, 410947
 Pacific Ocean
 guyots, 620773, 620774, 620775, 620776
 seismic reflectors, 561137
 Pacific Ocean C, 070991, 080819, 320394, 330855, 561135
 Pacific Ocean E, 160609, 160612
 bedding, 160611
 burrow mottling, 160610, 160611
 burrows, 160611
 carbonate, 160610
 Cenozoic, 160611
 chalk, 160610
 chalk, nannofossil, 160611
 clay, zeolitic, 160611
 Cretaceous, 160611, 160612
 crystalite, quartz, 160612
 deposition, 160612
 Eocene, 160611
 formation, 160612
 grading, 160610, 160611
 limestone, 160610
 marl ooze, 160610
 marl, radiolarian, 160611
 mineralogy, 160611, 160612
 Miocene, 160611
 nodular, 160609, 160612
 ooze, radiolarian, 160611
 pelagic deposits, 160609
 planar boundaries, 160611
 silica, 160612
 temperature, 160612
 volcanic contribution, 160612
 Pacific Ocean N, 320429
 diagenesis, 170377
 Pacific Ocean NE
 chalk, 200035, 200037
 cruise synthesis, 151086, 151092
 metal-rich basal sediments, 630667
 Pliocene, 200035, 200037
 regional aspects, 050628, 050630
 Pacific Ocean NW, 320429, 561133, 860657, 860667
 stratigraphy, 200733
 Pacific Ocean SW
 island arcs, 300693, 300696
 unconformities, 210705, 210708, 210715, 210716, 280709, 280715
 Western Marginal Basin Province, 210903
 Pacific Ocean W, 070990, 070991, 070992, 070996, 070999
 age, 070994
 crystalite, 071004
 equatorial, 071161, 071165
 formation, 070999
 mineralogy, 070994, 070995
 nodule formation, 070996
 nodules, 070992
 noncalcareous sediment, 070988
 paleotemperature indicator, 071006
 quartz, 071004
 recrystallization, 071004
 silica, 071003
 Pacific Plate, Japan, 200019, 200021, 200022, 200023, 200024, 200026, 200027
 palladium, 320429
 Panama Basin, sediments, 690385
 parallel extraction, 280751
 pelagic sediment reactions, 670610
 petrography, 320440, 320441
 Al/Si ratio, 320443
 amorphous silica, 320441
 barite, 320442
 CaCO₃, 320441
 calcareous sediment, 320441
 calcite, 320442
 calcium, 320443
 carbonate, 320442
 cation, 320443
 chalcedony, 320441
 chert, quartz, 320440
 clay, 320442
 clay minerals, 320443
 clinoptilolite, 320443
 dolomite, 320442
 echinoid spines, 320442
 glass, silicic, 320443
 interstitial water, 320441
 iron, 320443
 K/Si ratio, 320443
 magnesium, 320443
 manganese, 320443
 montmorillonite, 320443
 opal-A, 320440
 opal-CT, 320440
 opal-CT/quartz ratio, 320442
 opaque material, 320443
 porcellanite, 320441, 320443
 quartz, 320441
 quartz, authigenic, 320443
 quartz, drusy, 320443
 rutile, 320443
 silica, biogenic, 320441
 silicon, 320441
 sulfur, 320443
 petrology, 960502
 abyssal oceanic basin deposits, 620718
 age changes, systematic, 620718
 aggregate, 620724
 alkalinity, 620730
 anhydrite, 620725
 apatite, 620715, 620721
 authigenic minerals, 620720
 barite, 620715
 breccia, 620723
 burial depth, 620718
 burrow fill, 620728
 burrows, 620711, 620720, 620730, 620731
 calcareous algae replacement, 620725
 calcareous nannofossil replacement, 620711, 620724
 calcareous rocks, 620720
 calcite, 620715, 620718, 620721, 620723, 620725, 620730
 calcium, 620725, 620730
 Calera Limestone, 620731
 carbonate, 620711, 620720, 620724, 620728, 620730, 620731
 chalcedony, 620715, 620721, 620728
 chalk, 620715, 620720, 620728, 620731, 740648
 chalk, nannofossil, 620728
 chalk, siliceous, 620715, 620721
 chemical environment, 620730
 chemical microenvironments, 620730
 chemistry, 620711
 clast, volcanic, 620725

petrology (Cont.)

- clay, 620720, 620724
- clinoptilolite, 620715
- collophane, 620725
- crystal growth, 620720, 620724
- crystal structure, 620718
- deep-water environment, 620725
- dissolution, 620724
- dissolution, mineral, 620730
- dolomite, ferroan, 620725
- England, 620731
- Eocene, 620730
- evaporite mineral, 620725
- feldspar, 620715, 620730
- fluid inclusion, 620725
- foraminifer replacement, 620728
- foraminifers, 620730
- formation, 620711, 620725, 620728
- Franciscan Complex, 620731
- geochemistry, 620725, 620728
- geologic setting, 620711, 620712
- goethite, 620715
- gravels, 960494
- Gunflint chert, 620724
- gypsum, 620725, 620730
- halite, 620725
- hematite, 620721
- Hess Rise, 620711, 620725
- host rock replacement, 620730
- illite, 620715
- iron, 620730
- iron oxide, 620720
- iron-manganese oxide, 620723
- Japan C, 620730
- jasper, 620721, 620731
- lamination, 620721
- limestone, nannofossil, 620731
- limestone-chert sequence, 620724
- lithology, 620713
- lutecite, 620725
- magnesium, 620730
- major oxides, 620713
- manganese, 620713
- Melish Seamount, 620725
- metamorphism, 620718
- microfossil, 620721
- microfossil chambers, 620728
- microorganisms, precipitation, 620724
- microquartz, 620721
- Mid-Pacific Mountains, 620711
- mineral, diagenetic, 620730
- mineral replacement, 620730
- mineral reprecipitation, 620730
- mineral separates analyses, 620713
- mineralogy, 620711
- minor element, 620713
- Monterey Formation, 620718
- mud, calcareous, 620721
- nannofossil replacement, 620720, 620724
- nannofossils, foraminifers, 620720
- ooze, calcareous, 620725
- opal, 620723
- opal-A, 620728
- opal-CT, 620711, 620713, 620715, 620718, 620720, 620721, 620724, 620728
- organic matter, 620720
- Pacific Ocean, 620728
- Pacific Ocean NW, 620730
- Paleocene, 620724
- Paleogene, 620723
- parent rock replacement, 620730
- permeability, 620728
- pH, 620730
- phosphatic fish debris, 620720
- porcellanite, 620711, 620713, 620715, 620720, 620723, 620725
- pore water elements, 620730
- porosity, 620720, 620728
- protodolomite, 620715
- pseudomorph, 620725
- pyrite, 620715, 620720, 620730
- pyroxene, 620715
- quartz, 620711, 620713, 620715, 620718, 620720, 620724, 620725, 620728, 620730
- quartz/opal-CT ratio, 620713, 620718
- quartzine, 620725
- radiolarians, 620725, 620730
- recrystallization, 620720, 620730
- rhodochrosite, 620715
- sand, 960494, 960498, 960500
- silica, 620711, 620713, 620715, 620720, 620721, 620724, 620725, 620728, 620730
- silicification, 620711, 620720, 620721, 620724, 620728, 620730
- smectite, 620715
- sodium, 620725
- solution-precipitation, 620720, 620730
- stratigraphy, 620713
- sulfate, 620715, 620725
- sulfate, authigenic, 620720
- sulfur, 620725
- tectonism, 620718
- temperature, 620730
- terrigenous components, 620718
- textural variations, 620720
- transport, 620721
- tridymite, 620713
- unconformity, 620724
- void space precipitation, 620721
- volatiles, 620713
- volcanogenic components, 620718
- zeolite, 620721
- Philippine Sea
- lithology, 061212, 061214, 061215, 061216, 061217
- REE, 870645
- physical properties, 061212, 061217, 561137
- calcareous sediment, 061212, 061214, 061215, 061216, 061217
- lithified siliceous sediments, 061212
- mudstone, radiolarian, 061212, 061214, 061215, 061216, 061217
- physiography, 870613
- potassium-argon age, Hess Rise, 620779
- Providence Channel NE, mineralogy, 100015
- Puerto Rico Trench, 040665
- Atlantic Ocean N, 040665
- pyrite, 320434
- quartz, 280751, 320429, 320430, 320434, 320436, 330858, 890391, 890395
- precipitation, 320447
- quartz, crystalline, 320432
- radiolarians, 020418, 330859
- Quaternary to Eocene, 330859
- redeposited calcareous, 330862
- accumulation rate, 330862
- permeability, 330862
- silica, 330862
- reflection horizon, Horizon A, 040671
- regional setting, 870798
- regional summary, Ninetyeast Ridge, 220824
- Rio Grande Rise, 720443, 720444, 720446
- Eocene sedimentation, 721007
- formation, 720443
- Mesozoic, 721014
- mineralogy, 720444, 720446, 720995
- porcellanite, 720443
- Recent-Eocene sedimentation, 721006
- sedimentation, 721017
- silica, authigenic, 720446
- silica, biogenic, 720446
- SiO₂ source, 720446
- structure, 720443
- sand, 060729
- sandstone, 280751
- accessory, 580609
- carbonate cementation, 280751
- sandstone, calcareous volcanic, 320544
- chalcedony, 320544
- foraminifer tests, 320544
- opal-CT, 320544
- sapropel, Cretaceous, 620898
- sediment history, 280785
- carbonate, 280785
- formation, 280785
- sedimentary cycles, chalk, 740648
- sedimentary evolution, Eocene sediments, 430816
- sedimentary sequence, 200729
- lithology, 200725, 200727
- sedimentary structure, 300435
- bedding, flaser, 300436
- bedding, graded, 300435
- bedding, lenticular, 300436
- bedding, wavy, 300435
- cross-lamination, 300436
- laminae, parallel, 300435
- sedimentation history, 170919
- sedimentology, 960502
- Mexico, Gulf of, 100709
- Peru-Chile Trench, 340794
- shale, carbonaceous, 320432, 320434
- Shikoku Basin, REE, 870645
- short blocks, 280751
- silica, 320429, 320434, 320436
- diagenesis, 170377, 170381, 170382, 170383, 170387, 170400, 410879, 410880, 410891, 410895, 801091
- interstitial water, 320447
- mineralogy, 140728, 140730, 140731, 140732
- phase, 280751
- source, 561137
- silica, biogenic, 280751, 280752, 320447
- restriction, 280752
- siliceous microfossil reduction, 280752
- silica, diagenetic, 280751
- silica, dissolved, 320429
- silica, secondary, oxygen isotope, 690423
- silica/carbonate exchange, 010522
- silicate, 010543
- siliceous biogenic material, 280751
- siliceous microfossils, 020418, 320447
- siliceous rock, 561036
- breccia, 561135
- formation, 561139, 561140
- mineralogy, 561136
- Neogene, 630581
- source, 561137
- siliceous sediments, distribution, 320443, 320444
- silicification, 320447, 330859
- permeable, porous sediment, 320447
- stratigraphic anomalies, 330859
- silt, quartzose, 280752
- formation, 020419
- silica, 020419
- silt, terrigenous, 291149
- Mirza Formation, 291062
- Woolshed Formation, 291062
- siltstone-carbonate cycle, 300436
- bottom current, 300437
- contact, sharp, 300436
- dissolution, 300437
- limestone, 300436
- turbidity current, 300437
- Sohm Plain, 020413
- sonic velocity, 320962
- sound velocity, 020423

- Southeast Pacific Basin
 evolution, geologic, 350735
 sediment distribution, 350204, 350226
 southwest regional unconformities, 210703,
 210705, 210708, 210709, 210715
 stable isotope, 350497, 350504
 silicate, 350498
 sulfide, chemistry, 630680
 tectonic, Eocene siliceous sedimentation,
 430816
 terrigenous sediment, 280752
 textures, 330858, 330859
 breccia, 330859, 330861
 burrows, 330859
 gray nodules, 330859
 redeposited, 330859
 tridymite, 320430
 turbidites, 090041, 890367, 890369
 calcareous sediments, 320434
 Pliocene, 090041
 silica, 090041
 turbidity current, transport, 300437
 vein, 320439
 calcite, 320439
 carbonate, 320439
 chalcedony, 320439
 opal-CT, 320439
 porcellanite, 320439
 quartz, 320439
 Venezuelan Basin, 040666
 volcanic rocks, petrography, Emperor
 Seamounts, 200700
 volcanic source, 320447
 Walvis Ridge, transect, 740648
see also chalk-chert-limestone; porcellanite
 chert, black, lithology, 100313, 100316
 chert, calcareous
 geochemistry, 620725
 lithology, 100298
 glauconite, 180033
 oxygen isotope, 620751
 petrology, 620725
 chert, clay-rich opaline
 Atlantic Ocean
 Cenozoic sediments, 140848
 Cretaceous sediment, 140848
 chert, cristobalite
 Atlantic Ocean S, mineralogy, 040326
 diagenesis, 020422
 Japan Trench, interstitial water, 870854
 lithology, 150279
 chert, diagenetic
 Atlantic continental margin NW, evolution,
 440955
 lithologies, minor, chalk, siliceous, 901482
 Pacific Ocean W, guyot, 200653
 Tethys N, margin, 440955
 chert, dolomitic
 Atlantic Ocean
 Cenozoic sediments, 140850
 Cretaceous sediment, 140850
 chert, foraminiferal nannofossil
 carbonate, sediments, 320893
 lithology, 320080
 chert, iron-rich
 geochemistry, 2569
 petrology, 620723
 chert, manganiferous, Cyprus, evaporites,
 42B1186
 chert, microcrystalline quartz, Costa Rica
 Rift, chalk, 690397, 690403
 chert, nannofossil
 carbonate
 diagenesis, 170414, 170419
 fossil preservation, 170414, 170419
 lithology, 170152, 170250, 300180
 bedding, 170152
 calcite, 170250
 claystone, 170250
 foraminiferal, 100197
 foraminifers, 170152
 lamination, 170250
 limestone, 170152
 micrite, 170250
 phillipsite, 170250
 planktonic foraminifers, 170250
 radiolarians, 170152
 chert nodule
 Africa NW, continental margin, 411126
 Atlantic Ocean N, Mediterranean Sea,
 110810, 110813, 110814
 Atlantic Ocean NC, Mesozoic sequences,
 410994, 410997, 410998, 411000
 Atlantic Ocean NW, lithology, 110922
 biogenic sediment, diagenesis, 300454
 clay, terrigenous, Mirza Formation, 291062
 evaporites, Mediterranean Sea, 130695,
 130698
 Japan Trench, siliceous rocks, 561135
 lithology, 210375, 220196, 290048, 300238,
 320022, 320164, 330046, 330112, 330169,
 330308, 410028, 410030, 410171, 410239,
 410427, 410428, 510045
 ash, 300239, 300241
 attapulgitite, 300241
 bottom current, 300241
 burrows, 300240
 chalk, nannofossil foraminiferal, 300239
 chlorite, 300239
 feldspar, 300239, 300241
 glass, chloritic, 300241
 glass, volcanic, 300239, 300241
 limestone, 300239, 300240, 300241
 mica, 300239
 micarb, 300239, 300241
 montmorillonite, 300239, 300241
 ooze, nannofossil foraminiferal, 300233,
 300239
 palygorskite, 300241
 potassium feldspar, 300239
 pyrite, 300239, 300241
 quartz, 300239
 recrystallization, 300240
 sepiolite, 300239
 stylolites, 300240
 tuff, vitric, 300241
 zeolite, 300239, 300241
 silica, diagenesis, 170383
 siliceous rock, bedding and structures,
 561135
 silt, terrigenous, Mirza Formation, 291062
 southwest regional unconformities, 210705
 trace elements, metallic, Pacific Ocean,
 620773
 chert, opal-CT
 geochemistry, 620712
 petrology, 620712
 chert, porcelaneous
 biostratigraphy, 280922
 lithology, 160418, 280155, 280182, 280373,
 280922, 350068, 430333
 chert, zeolitic, 170250
 clay, zeolitic, 170020
 claystone, zeolitic, 170250
 ooze, radiolarian, 170106
 nearshore environment, 280934
 chert, quartz
 Atlantic Ocean NW, sedimentary evolution,
 430793
 Atlantic Ocean W, mineralogy, 040326
 clay minerals, mineralogy, 140731
 Costa Rica Rift
 chalk, 690406
 siliceous rocks, 690424, 690426
 diagenesis, siliceous sediments, 500728
 lithology, Neocomian-Tithonian, 110057
 Pacific Ocean, guyots, 620773
 porcellanite
 Eocene, 430443, 430446
 mineralogy, 320440
 petrography, 320440
 silica
 diagenesis, 410881, 410888, 410889, 410895
 mineralogy, 140731
 siliceous sediment, silicified sediments,
 500727
 tectonic, limestone, 430793
 chert, quartzose, silica, diagenesis, 410890
 chert, radiolarian
 Atlantic continental margin NW, evolution,
 440955, 440957
 Atlantic Ocean C, basin, 511505, 511506
 Atlantic Ocean N, Mediterranean Sea, 110802
 Australia W, continental margin, 270575
 Cape Bojador, continental margin, 47A0794
 Cape Verde Basin, 020414
 diagenesis, 020421, 020423
 limestone-chert sequence, Pacific Ocean,
 080820
 lithology, 100314, 320083
 foraminifer-bearing, 320162
 ophiolite, 130031
 Mexico, Gulf of, regional aspects, 010640
 Nankai Trough, geologic setting, 870910
 Pacific Ocean, guyots, 620774
 Pacific Ocean W, 070999
 sedimentology, indurated sediments, 020415
 silt, quartzose, 020418
 Tethys N, margin, 440955, 440957
 chert, siliceous
 crust, oceanic, geology, 920572
 Pacific Ocean NE, cruise synthesis, 151086
 volcanism, mineral evolution, 600450
 chert, siliceous radiolarian
 Atlantic Ocean, 140871
 diagenesis, 020422
 chert, zeolitic
 clay, trace elements, 170513
 lithology, 170250
 chalk, nannofossil micritic, 170250
 chert, porcelaneous, 170250
 clay, 170250
 claystone, 170250
 clinoptilolite, 170250
 coccoliths, 170250
 glass, 170250
 lamination, 170250
 manganese nodules, 170250
 mudstone, 170250
 palagonite, 170250
 phillipsite, 170250
 plagioclase, 170250
 pyroxene, 170250
 rutile, 170250
 sill, 170250
 chert/porcellanite ratio
 chert, siliceous sediments, 320443
 porcellanite, siliceous sediments, 320443
 chert/quartz ratio, Costa Rica Rift, chalk,
 690403
 chertification, 890390, 890395, 890396
 burrow mottling, silt, 291054
 carbon isotope, stable, 410947
 chert, 330862
 Cretaceous, 430446
 deposition, 330862
 slump fold, 330862
 clay, silicification, 291054

- clay, terrigenous, 291149
 Whangai Formation, 291062
 Daito Ridge, sandstone, 580610
 deposition
 chalk, nannofossil, 250497
 ooze, nannofossil, 250497
 ice rafting, glaciation, 280740
 Indian Ocean NE, siliceous microfossils, 220729
 lithology, 290230
 paleoenvironment, 410045
 Manihiki Plateau, 330883
 ooze, siliceous, chalk, 291150
 oxygen isotope, stable, 410947
 Panama Basin, sediments, 690392
 porcellanite, Eocene, 430446
 Rio Grande Rise
 Eocene sedimentation, 721007
 sedimentation, 721017
 sandstone, diagenesis, 580610
 sedimentology, Mexico, Gulf of, 100709
 silica, diagenesis, 410890, 410896, 801095
 silt, terrigenous, 291149
 Whangai Formation, 291062
 southwest regional unconformities, 210716
 volcanic rock, sandstone, 580610
 Chesapeake Bay, 42B0513, 931031, 931032
 Chesapeake Drift, 950603, 950607, 950800, 950802
 bottom current, erosion, 950607
 regional seismic grid, borehole data
 extrapolation
 deposition, 950802
 Miocene depositional history, 950800
 seismic profiles, 950607
 Chetabucto Bay, Atlantic Ocean N, Paleozoic, 801110
 chevron folds
 lithology, 190097, 190330, 320318
 gypsum, 130152
 marl, dolomitic, 130340
 ooze, dolomitic, 130340
 Mexico, Gulf of, regional aspects, 010625
 Chiapas, 670751
 Chichi-jima, boninite, geothermometry, 600695
 Chichibu, 870045, 870046, 870613, 870622, 870623
 major element, argillaceous sediments, 580724
 Chichibu Belt
 detrital modal analysis, turbidites, 870623
 physiography, 870613
 Chickasawhay Formation, 110505
 formations, 110505
 chicken-wire structure
 evaporites
 Mediterranean Sea, 130695
 Messinian, 42A0575, 42A0576, 42A0593, 42A0600
 lithology, 130160, 42A0036, 42A0236
 anhydrite, 130154
 Mediterranean Sea
 lithostratigraphy, 131037
 Messinian, 130689
see also mosaic
 Chihuahua, 660728
 Chihuahua-Sonora Basin, 670750
 Chile, 350279, 350757, 360988, 401046, 42B0633, 660544, 710789, 710802, 710909, 710910, 710911
 basalt, geochemistry, 590792
 California, Gulf of, Guaymas Basin, 650619
 coast, 350271, 621044, 660664
 continental margin, 600926
 El Salvador, 340383
 Middle America Trench, margin, 840955
 Peru, 600924, 840913
 subduction, 670759
 trench, 540776, 610648
 Philippine Sea, Paleogene-Neogene, 310852
 Punta Arenas, 710253
 ridges, 090912, 350005, 350025, 350263, 350266, 350276, 350724, 350728, 350736, 350738
 shelf seaway, 360888
 Chile Rise, 090912, 340192, 350005, 350025, 350263, 350266, 350276, 350724, 350728, 350736, 350738, 360873, 540826
 Pacific Ocean EC, geologic history, 090912
 Southeast Pacific Basin, evolution, geologic, 350725, 350728, 350736, 350738, 350739
 Chile S, 640633, 640636, 650619
 Southeast Pacific Basin, evolution, geologic, 350739
 chill rind
 basalt, liquid variation, 650556
 mineralogy
 geochemistry, 600713
 primary textures, 600709, 600717
 chill zone
 basalt, 110874
 crystallization, 920467
 petrography, 920468, 920469
 petrology, 580845, 580848, 580862
 basalt, altered
 geochemistry, 580792, 580809
 petrochemistry, 580792
 basement, 110874
 igneous rocks, geochemistry, 370659
 lithology, basalt, 300242
 Mendoza Rise, basalt, 920459, 920460, 920462
 Patton Escarpment, petrography, 630701
 chill zone, glassy
 basalt, petrology, 580845, 580846, 580848, 580852, 580854, 580860
 basalt, altered, geochemistry, 580826
 Patton Escarpment, petrography, 630687
 Shikoku Basin, basalt, 580895, 580896, 580897
 chilling
 basalt
 petrology, 580847
 zones, 300401, 300412
 China, 130973
 basin genesis, 310876
 clay minerals, source, 580997
 east, 270383
 illite, 590602
 Sinkiang, 131228
 Tertiary half-grabens, 790879
 China E, 590602
 chlorite, source, 590600
 illite, 590600, 590602
 China Sea, 261002, 590600, 590602, 870606
 chlorite, source, 590600, 590602
 Philippines, genesis, 310876
 Chinde, 250756
 Indian Ocean W, regional aspects, 250756
 Zambezi River, 250184
 Chippomanai Formation, 061289
 chloride
 Atlantic continental margin, interstitial water chemistry, 040419, 050521, 070884, 080855, 090843, 100613, 101005, 101009, 111009, 130809, 140763, 160573, 230953
 Atlantic Ocean S, mineralogy, 040325
 Balearic Rise, interstitial water chemistry, 130809
 Black Sea, interstitial water, 42B0641
 bromine, chlorine, 42B0631, 42B0632, 42B0635
 gas hydrate
 decrease, 670611, 670612
 expected maximum, 670612
 gradient, 670611, 670612
 increase, 670611
 migration, 670611
 Gulf of Mexico, interstitial water chemistry, 100613
 heavy metals, Cenozoic sediments, 450349
 Hellenic Trough
 interstitial water, 130806
 interstitial water chemistry, 130809
 hydrate, decomposition, 670612
 hydrothermal deposits, origin, 540416
 Indian Ocean N, interstitial water chemistry, 220861
 Indian Ocean W, interstitial water, 250363, 250367
 interstitial water, 010406, 060827, 070871, 080857, 100620, 110997, 111004, 220662, 240799, 310640, 350425, 42A0561, 860675
 concentration vs time at subbottom depths, 860676
 diffusive behavior, 42A0562, 42A0565
 historic data, 860678
 inorganic constituents, 071750
 major constituents, 020367
 major ions, 200805
 model, 860676
 pore water migration, 860677
 San Miguel Gap, 630623
 terrigenous deposits, 050501
 interstitial water chemistry, 720391, 730539
 Guaymas Basin, 640687, 640689
 interstitial water, chemistry, interstitial water, 640676
 interstitial water chemistry, interstitial water, 640676
 interstitial water, mineralogical studies, 410907
 iodine, interstitial water, 42B0631, 42B0632, 42B0635
 major element, geochemistry, 42B0537
 Mazagan Plateau, 790825, 790826, 790827
 salt diapir, 790826
 Mediterranean Ridge, interstitial water chemistry, 130809
 Mediterranean Sea, enrichment, 130806
 Middle America Trench, transect, 670611
 minor element, geochemistry, 42B0537
 organic geochemistry, kerogen, 630838
 Pacific Ocean NW, interstitial water, 860675, 860676, 860677, 860678
 Pacific Ocean SE, 920550
 borehole water, 920550
 chlorinity, 920550
 convection, 920550
 iron, 920550
 magnesium, dissolved, 920550
 nitrate, 920550
 surface water, 920550
 pore water, 760362
 pore water chemistry, 960692
 pore-water differences, 960693
 Red Sea
 geochemistry, 230985
 interstitial water, 230956, 230957
 Valencia Trough, interstitial water, 130806
 chloride, dissolved
 interstitial water
 San Miguel Gap, 630623
 Walvis Ridge, 750961
 interstitial water, geochemistry
 Guaymas Basin, 640684, 640687, 640689
 hydrothermal alteration, 640693
 chloride, interstitial
 bromine, chlorine, 42B0631

- iodine, interstitial water, 42B0631
chloride/bromide ratio
Atlantic continental margin, interstitial water chemistry, 010411
bromine, chlorine, 42B0631
iodine, interstitial water, 42B0631
chlorine
Atlantic continental margin, interstitial water chemistry, 100613, 160891, 170515, 230953
Atlantic Ocean S, history, 740715
basalt
chemical variation, 340305, 340307
mineral, secondary, 340407
Biscay, Bay of, continental margin, 480931
Black Sea, sediments, 42B0378
bromine, relationship, 42B0631, 42B0632, 42B0633, 42B0634, 42B0635
Cape Bojador, interstitial water, 47B0578
chlorophyll, diagenesis, 571401, 571402, 571403, 571404, 571407
chlorophyll derivatives, 220677, 600499
fossil pigments, 310629, 310905
pigment, 310631
clay minerals
Pacific Ocean NW, 200338
Tertiary, 291077
Costa Rica Rift, carbonate, 690465
Cretaceous, 440639, 440640
de-esterification, 440641
diagenetic scheme, 440641
diagenesis, thermally controlled, 630945
Falkland Plateau, basement, 360896, 360904
gas hydrate, trench slope, 670608
geochemistry, 38S0639, 38S0641, 38S0646, 640696
Guaymas Basin, 640711
metalloporphyrin, 38S0644
porphyrin, 38S0641
porphyrin, free-base, 38S0643
porphyrin, nickel, 38S0643
porphyrin, vanadyl, 38S0643
halite, chemistry, 42A0613, 42A0615
Hess Rise, iridium, 620847
Indian Ocean W, geochemistry, 250405
inorganic geochemistry, sediments, rocks, 620685
interstitial water, 38S0129, 38S0130, 050501, 080864, 110997, 140753, 140754, 151069, 181002, 240799, 38S0125, 38S0127
deviations from sea water composition, 200794
diagenesis, 42A0565
interstitial water chemistry, 350418
sodium, 111004
iodine, interstitial water, 42B0631
Japan Trench
interstitial water, 870867
sediments, 271234
limestone, Albian, 620933
lipid, 630763, 630771
diagenesis, 630770
indication, 630768
tetrapyrrole, 630767
major element
chemistry, 330557
geochemistry, 42B0527
interstitial water, 200831
Middle America Trench, transect, 670608
minor element, geochemistry, 42B0527
organic geochemistry, 380783, 640826
Guaymas Basin, 640943, 640944, 640948
tetrapyrrole, 640820
organic matter, 500582
Pacific Ocean E, modified sediments, 540329
Philippine Sea S, 600497, 600499
porphyrin, geochemistry, 38S0641
potash, chemistry, 42A0613, 42A0615
Red Sea, geochemistry, 230989
sediment chemistry, 350427
basalt, 350437
tetrapyrrole
geochemistry, 630786, 630788, 630789, 630790, 630791, 630792, 630809, 630810, 630815, 640790, 640794, 640795, 640796, 640807, 640809
pigment, 440639, 440640, 440641, 580737, 580738, 580739
tetrapyrrole, diagenetic, pigment, 410825, 410827
Vigo Seamount
interstitial water, 47B0578
tetrapyrrole, 040431, 040435, 380785, 380786, 380787, 430658, 47B0571
chlorine, altered
chlorophyll, diagenesis, 571392, 571395, 571399, 571401, 571402, 571403, 571404, 571406
tetrapyrrole
geochemistry, 630790
pigment, 580738, 580739
chlorine, free base
chlorophyll, diagenesis, 42B0710
chlorophyll derivatives, 220678
Cretaceous, predominance, 440641
tetrapyrrole, pigment, 440641
chlorine, hydroxy, chlorophyll, diagenesis, 571403
chlorine, secondary, tetrapyrrole, geochemistry, 630792, 630811
chlorine, synthetic, chlorophyll, diagenesis, 42B0712
chlorine/bromine ratio
Atlantic continental margin, interstitial water chemistry, 140763, 170515
Black Sea, interstitial water, 42B0648
bromine, chlorine, 42B0631, 42B0632, 42B0635
interstitial water, organic geochemistry, 640933
iodine, interstitial water, 42B0631, 42B0632, 42B0635
chlorine/bromine relationship, Black Sea, 42B0631
chlorinity
Black Sea, interstitial water, 42B0638, 42B0639, 42B0641
Blake Basin, 760456
sediments, 760456
water pool, 760467
Blake Ridge, 760455
sediments, 760455
bromine, chlorine, 42B0631, 42B0632
chloride, Pacific Ocean SE, 920550
Costa Rica Rift, basalt, 690477
gas hydrate
decrease, 670611
downward decrease, 670611
trench slope, 670605
water pool, 670612
geochemistry, Pacific Ocean SE, 920560
Guatemala
continental margin, 670603
Pacific margin sediments, 670595
hydrate, decomposition, 670612
Indian Ocean W, interstitial water, 250367
interstitial water, 010404, 010406, 030663, 100620, 350425, 400549, 42A0562, 42A1207, 610607, 670603
Barbados Ridge, 780377
basement, 100620
gradient, 100615
interstitial water chemistry, 240802
maximum, 500691, 500692, 500693
interstitial water chemistry, decrease, 670605
interstitial water, mineralogical studies, 310914, 410907
intraslope basin, 960716
iodine, interstitial water, 42B0631, 42B0632
Middle America Trench, 760453
transect, 670603, 670605, 670611, 670612
Mississippi Fan, 960716
Nankai Trough, interstitial water, 870866
Pigmy Basin, 960731
Red Sea, interstitial water, 230956
sediment-interstitial water interaction, 571269
salinity, 571269
chlorite, 340615, 390397, 490443, 490444, 540316, 540317, 540325, 560944, 560946, 560949, 560980, 560984, 560987, 580669, 580671, 580672, 580684, 580686, 590598, 590600, 670534, 670557, 670558, 670563, 670569, 810770, 860552, 860572
Africa SE, volcanism, 250531
Africa SW, continental margin, 400470, 400475
age, South Tasman Rise, 291117
Albian sediment
geochemistry, 480855
mineralogy, 480855
Alboran Basin W
clay minerals, 130670, 130671
mineralogy, 130607, 130671
alteration, 300485, 300486
augite, 300486
basalt, 370563
hornblende, 300486
products, 450615, 810739
remnant arc debris, 590737, 590739
alteration, low-temperature, 340408
mineralogy, 110874, 450609, 511186
alteration, nonoxidative, 340407, 340408
amorphous precipitates, iron oxide, 050541, 050543
Angola Basin
clay mineralogy, 750846, 750847
geochemistry, 750846
Antarctica
geochemistry, 350403
mineralogy, 350748, 350749, 350750, 350751, 350752
Argentine Basin, mineralogy, 361018, 361019, 361020, 361022, 361023, 361025, 361026, 361027, 361028
Atlantic continental margin
mineralogy, 050441, 050442, 050443, 080903, 090743, 090764, 100754, 100772, 100783, 110753, 110754, 110755, 110760, 110763, 110764, 110769, 110771, 110772, 110783, 110784, 121127, 121130, 121131, 121132, 121134, 121136, 121137
Atlantic Ocean
Cenozoic sediments, 140809
Cretaceous sediment, 140809
geochemistry, 47B0432, 47B0434, 47B0435, 47B0436
mineralogy, 47B0432, 47B0434, 47B0435, 47B0436
Atlantic Ocean N
clay, 481091, 481094, 481095, 481097
Mediterranean Sea, 110811
mineralogy, 431020, 431021, 431023, 431025
Atlantic Ocean NC, Mesozoic sequences, 411004
Atlantic Ocean NW
microfacies, 440488
regional aspects, 110960

- Atlantic Ocean NW (Cont.)
 sedimentary evolution, 430796, 430811
 sedimentation, 440975
- Atlantic Ocean S, mineralogy, 030510,
 040325, 040326, 400542, 400543, 400544,
 400545, 400546
- Atlantic Ocean SE
 Cretaceous, 740773
 paleoenvironmental evolution, 740664,
 740666, 740670, 740672, 740673, 740678
- Atlantic Ocean W, mineralogy, 040325, 040326
- authigenic minerals, 600462, 600463
 alteration, 600463
- Baja California Seamount Province, basalt,
 630717
- Balearic Plain, mineralogy, 130609, 130678,
 130679
- Balearic Rise, mineralogy, 130608, 130677
- Barremian-Albian sediment, phyllosilicate,
 800911
- basalt, 240784, 830335, 830336, 830337,
 830338
 alteration, 110874, 450609, 511086, 920512
 alteration, low-temperature, 511302
 Barbados Ridge, 780396
 chemical composition, 320565
 chemical variation, 340306
- Costa Rica Rift Zone, 830147, 830150,
 830151, 830166
- Cretaceous, 511087
 geochemistry, 920450
 glass, 050533
 midocean ridge, 820400
 mineral composition, 050533, 050534
 mineral, secondary, 340398, 340408,
 340409, 340417
 mineralogy, 110874, 110875, 291104,
 300409, 42A0517
 petrochemistry, 630712, 630727
 petrology, 320565, 580848, 580853
 pillow margins, 830179
 pyroclastics, 260557
 sill-pillow complex, 610677
- basalt, altered
 geochemistry, 580792, 580810, 580827
 petrochemistry, 580792
- basalt, oceanic, Melanesian Basin, 610653,
 610654, 610657
- basement
 alteration, 110874
 basalt, 42A0517
 calcite, 920500, 920502
 mineralogy, 110874, 110875, 291118
 petrology, 370700
- biogenic sediment, diagenesis, 300459
- Biscay, Bay of
 Albian sediments, 480855
 mineralogy, 101134
- Black Sea
 evolution, 42B1142, 42B1148
 sediments, 42B0375, 42B0378, 42B0386,
 42B0389
- Brazil Basin, geochemistry, 720422
 breccia, volcanic, Neogene, 630650
 brucite, hydrated, 560983
 burrow mottling, silt, 291053
- California, Gulf of
 basalt, 650643
 gulf mouth, 650363, 650400, 650409, 650413
- Cape Bojador, continental margin, 47A0779,
 47A0780, 47A0781
- carbonate, dissolution, 750853
- Carnegie Ridge, 540317
- Cenozoic sediments
 lithology, mineralogy, geochemistry,
 450323, 450326, 450327, 450330
 mineral composition, 42B0413
 chemical fluxes, Costa Rica Rift Zone,
 830259
 chemical and mineral composition, 350465,
 350467, 350468, 350469, 350471
 mineralogy, 070965, 350465
 sediment chemistry, 350467
 chemistry, 600583, 650418
 China E, source, 590600
 China Sea, source, 590600, 590602
 clastic sediment, Cretaceous, 401030
 clay, 291053, 960580
 abundance, 291053
 bulk mineralogy, 860552
 Cenozoic, 780343, 780346
 mineralogy, 860552
 $^{16}\text{O}/^{18}\text{O}$ ratio, 350489
 stratigraphy, 870639
 clay mineralogy, 750862, 750865, 960738
 montmorillonite-illite, 650369
 montmorillonite-illite-chlorite
 assemblage, 650368
 stratigraphic evolution, 750863
 clay minerals, 060844, 220730, 220731,
 38S0018, 38S0021, 38S0028, 38S0037,
 47B0687, 500716, 500717, 590598, 590600,
 670515, 810687, 860572, 901445
 abundance, 220731
 basal reflections, 200335, 200340
 chemical analysis, 960695
 Cretaceous and Cenozoic, 480705, 480707,
 480711, 480716
 distribution, 560983, 560984
 hydrothermal mounds, 700227
 Japan Trench, 870635
 mineralogy, 140729
 Miocene-Pleistocene, 47A0601
 morphology, 860572
 Nankai Trough, 870634
 Pacific Ocean NW, 200336, 200338
 source, 590600, 590602
 sources, 241058
 stratigraphy, 860572
 terrigenous origin, 560987
 Tertiary, 291078, 291081, 291082
 clay, siliceous, 271005
 claystone, siliceous, 271005
 clinoptilolite, Atlantic Ocean NW, 430470
 Cocos Ridge, 540317
 continental margin sediments, petrology,
 280736
- Costa Rica Rift
 alkali, 690492
 alteration minerals, 690558
 basalt, 690515
- Costa Rica Rift Zone
 basalt, 830219, 830221, 830223, 830225,
 830228, 830232, 830233, 830234, 830235,
 830236, 830237, 830238, 830250, 830257,
 830283, 830284, 830307, 830308, 830311
 stockwork-like zone, 830266, 830267,
 830268, 830272, 830273, 830274, 830276
- Cretaceous/Tertiary boundary,
 paleoenvironmental history, 740687,
 740688, 740689, 740691
- crust, oceanic
 aging, 511568
 Costa Rica Rift Zone, 830184
- crystals, 291118
- currents
 Miocene, 901231, 901234
 Miocene-Pleistocene, 901234
- Daito Basin, 580686
- Daito Ridge, 580684
 mineral, heavy, 580661
- deposition
 chalk, nannofossil, 250493
 ooze, nannofossil, 250493
 origin, 600450
 diabase, trace elements, 240784
 diagenesis, 960584
 Mediterranean Sea, 130721
 slope sediments, 840575, 840578, 840582,
 840588
 diagenesis, burial, pelite, 230424, 230425
 distribution, 560983, 560984
 East Mariana Basin, micromorphology, 890418
 East Pacific Rise, sediments, 650377,
 650380, 650381
 Emperor Seamounts, mineralogy, 550464
 environment, sapropel, 42A0460
 euxinic sediment, Cenozoic organic
 sediments, 750852
 evaporites, Messinian, 42A0573
 Falkland Plateau, basement, 360894, 360895,
 360896, 360897, 360904, 360907, 360910
 FAMOUS area, mineralogy, 370896, 370897,
 370898, 370899, 370901, 370902, 370903
 Fe-Mg, 560980, 560983
 fossils, minerals, rare and unusual, 340615
 gabbro
 mineralogy, 600591
 petrography, 600591
 phase chemistry, 370843
 Galapagos Fracture Zone, East Pacific Rise,
 540404
 Galapagos Islands, 540317
 gas hydrate
 increase, 670611
 migration, 670611
 trench slope, 670605, 670608
 geochemical history, sedimentation, 710404,
 710405
 geochemistry, 370700
 Cenozoic sediments, 42B0545, 42B0554,
 42B0562, 42B0589
 Guaymas Basin, 640712
 Hatton Ridge, 810739
 mineral, secondary, 450615
 Greenland Sea, 38S0224
 basalt, 38S0241, 38S0242
 clay minerals, 38S0231, 38S0232, 38S0233,
 38S0235
 Voring Plateau, 38S0200
- Guatemala
 slope sediment, 840931
 trench, 670515, 670518, 670520, 670522,
 670524
- Hellenic Trough, mineralogy, 130610,
 130668, 130669
- Hess Rise, 621046
- Hess Rise N, sedimentary sequences, 620761,
 620763
- hydrothermal activity, 670569
 hydrothermal alteration, sediments, 650419,
 650420
 hydrothermal system, Guaymas Basin, 641150
 Iberian margin W, evolution, 47B0768
- Iceland Basin, Cenozoic sediments, 38S0074,
 38S0075
- illite-montmorillonite, 150923, 150924
- Indian Ocean, mineralogy, 220697
- Indian Ocean C, 240690
 noncarbonate sediment, 220492
- Indian Ocean NE, Cretaceous, 220731
- Indian Ocean W, 240658
 Aden, Gulf of, 241056
 basalt, 250543, 250546, 250553
 clay minerals, 241056, 241058
 geochemistry, 250406
 interstitial water, 250366, 250367, 250368
 mineralogy, 060754, 060755, 060756,

- Indian Ocean W (Cont.)
 060758, 130606, 130607, 130608, 130609,
 130610, 140677, 140678, 140679, 150847,
 150848, 150849, 150850, 160529, 160530,
 160531, 181016, 181017, 181018, 411070,
 411076, 411084, 411085, 411086, 42A0363,
 42A0365, 42A0370, 42A0373, 42A0378,
 42A0380, 42B0451, 42B0457, 431019,
 440516, 440517, 440520,
 minerals, 240675, 240678
 terrigenous components, 240672
 terrigenous sediment, 241056
 volcanic sediment, 250517
 Indus Fan, sedimentation, 230476
 interstitial water, 121194
 interstitial water chemistry, 350419
 intraslope basin, 960718
 Japan, 580669, 580673, 580676
 Japan Current, source, 590600
 Japan Trench, 560944, 560946, 560949
 clay minerals, 560980, 560983, 560984,
 560987
 minerals, 870638
⁴⁰K/⁴⁰Ar age, Goban Spur, 800944
 K/Ar age, gneiss, 360925
 Kyushu-Palau Ridge, 590602
 source, 590600
 Labrador Sea, mineralogy, 101127, 101130
 limestone
 stable isotope, 150796
 volcanic grains, 320537
 lithologies, major, ooze, 901481
 lithology, 040043, 040081, 040098, 050110,
 060044, 060298, 070030, 070056, 070328,
 110228, 120321, 160157, 190096, 190292,
 190417, 210018, 210021, 210037, 210106,
 210107, 210108, 210202, 210372, 210374,
 210375, 210376, 220041, 230121, 230215,
 240330, 250193, 250196, 250265, 260299,
 270019, 270197, 270198, 270282, 270283,
 280084, 280374, 290022, 290040, 290196,
 290228, 290230, 290321, 290369, 310030,
 310136, 310138, 310139, 310443, 320197,
 320238, 330111, 330169, 350031, 360095,
 38S0018, 38S0021, 38S0028, 380036,
 38S0037, 380166, 380173, 380178, 390033,
 400043, 400047, 400048, 400049, 400198,
 410171, 42B0034, 42A0036, 42A0037, 42B0124,
 42B0137, 42A0181, 42A0182, 42A0226,
 42A0229, 42A0230, 42A0231, 42A0233,
 42A0237, 42A0238, 42A0242, 42B0298,
 42A0327, 430038, 430040, 430042, 430044,
 430117, 430165, 430166, 430201, 430204,
 430205, 430210, 430211, 430213,
 430330, 440033, 47A0030, 47B0035,
 480079, 480080, 480132, 480135, 480175,
 480178, 480219, 480222, 500129, 500131,
 500140, 510047, 510360, 670557, 670558,
 721022, 800940
 ash, altered, 170106
 basalt, 140090, 170153, 270020, 270094,
 300242, 310069, 670558
 breccia, 120260, 130227
 carbonate, 170288
 Cenozoic units, 480044, 480047
 chert, 140139
 chert nodule, 300239
 clay, 120261, 140139, 300137, 300140,
 300141
 clay, green, 300140
 clay, nannofossil, 120167
 clay, zeolitic, 140185, 140220, 140221
 evaporites, 130196, 130425
 greenschist facies, 670558
 limestone, 120053
 limestone, radiolarian, 300239
 marl, 130030
 marl, dolomitic, 130487, 130488
 marl, nannofossil, 120167
 marl, pyritic, 130487, 130488
 Mesozoic deposits, 47B0051, 47B0052,
 47B0054
 mud, calcareous, 140258
 mud, terrigenous black, 130369
 mudstone, 140139
 ooze, foraminiferal nannofossil, 140258
 ooze, marl, 130227, 130423
 ooze, nannofossil chalk, 140053
 ophiolite, 130031
 Pleistocene, 110012
 Pliocene to Pleistocene sediments, 120169
 Quaternary-Tertiary, 110225
 sand, 100121, 190221
 sand, arkosic, 140185
 sand, subarkosic, 140224
 sandstone, terrigenous, 130369
 sedimentation, 350032
 silt, 120047, 190221, 300137
 veinlet, 670558
 volcanogenic sediment, 170267
 lithostratigraphy, 680383, 680385
 clay minerals, 810687
 Lofoten Islands, 38S0067
 Pliocene-Pleistocene, 38S0072
 lueneburgite, Miocene sediments, 42A0662
 Luzon, 590600, 590602
 Magdalena Bay
 dolerite, 630723
 sulfide chemistry, 630679
 major element
 composition, 670558
 geochemistry, 42B0528, 42B0536
 Mariana Ridge, 590602
 Mariana Ridge W, 590602
 Mariana Trench, petrography, 600720
 Mariana Trough, 600614
 basalt, 600650
 matrix, 38S0200, 38S0241
 Mazagan Plateau, 790390, 790500, 790501
 Mediterranean Ridge, mineralogy, 130609,
 130610, 130669, 130735
 Mediterranean Sea
 Alboran Sea, 130666
 Gorrige Ridge, 130666
 Hellenic Trough, 130668, 130669
 Ionian Basin, 130667
 Levantine Basin, 130669
 lithostratigraphy, 131033
 Mediterranean Basin, 130667
 Messinian, 130676, 130679, 130680,
 130681, 130686
 mineralogy, 130606, 130607, 42A1157,
 42A1158, 42A1161, 42A1162, 42A1163,
 42A1164, 42A1165
 Tyrrhenian Basin, 130667
 Melish Seamount, post-Jurassic
 sedimentation, 620834, 620835, 620841
 Mendoza Rise
 lithology, 920436
 petrology, 920613
 Messinian environments
 Lago Mare, 42A1026
 salinity crisis, 42A1026
 metabasalt, lanthanum, 830252
 Mid-Pacific Mountains, 621084, 621098
 Middle America Trench, transect, 670532,
 670533, 670605, 670608
 middle fan, 960712
 mineral assemblage, evolution, 600448
 mineral, associations, 670558
 mineral and chemical composition, mineral
 composition, 38S0031
 mineral, chemical composition, sediments,
 mineral composition, 38S0031
 mineral composition
 basalt, 050533, 050534
 basement, 110874
 ocean basin, 42A0517
 mineral, heavy, 580661
 Argo Plain, 270524
 Cuvier Plain, 270524
 Gascoyne Plain, 270524
 Timor Trough, 270524
 mineral, secondary, 511186, 920507
 abundance, 920508
 basalt, 260557, 650646
 diagenesis, nonoxidative, 340408
 East Pacific Rise, 650648
 elemental composition, 920510, 920511
 laumontite, 670551
 olive green tabular crystals, 920508
 smectite, 670551
 mineralization, secondary
 mineral, deuteric, 540809
 mineralogy, 540809
 mineralogy, 210725, 210726, 210727, 210728,
 291104, 330541, 330542, 330543, 38S0111,
 38S0115, 38S0116, 38S0117, 38S0138,
 540344, 550857, 650391, 650395, 650418,
 960584, Atlantic Ocean, 140729
 basalt, 220428, 220429
 basalt, nonvesicular, 220425
 basement, 291118
 clay minerals, 600438
 diabase, 220416
 Goban Spur, 801020, 801027, 801032
 lithology, 810784
 Mariana Trench, 600446
 Mariana Trough, 600438, 600457
 metabasalt, 220419, 600588
 mineral, metamorphic, 670561
 mineral, secondary, 600718
 Pacific Plate, 600446
 Pendragon Escarpment, 801021
 Porcupine Plain, 801021
 Rockall Rise, 801032, 801033
 turbidites, 130714, 130717
 variability, 801023
 minor element
 East Pacific Rise, 650611
 geochemistry, 42B0528, 42B0536
 Mississippi Fan, 960716
 sediment, 960430
 Moroccan Basin, continental margin, 500707,
 500708
 Mounds Hydrothermal Field, chemistry, 540410
 Mozambique Ridge, volcanic sediment, 250529
 mud, 870913, 870916
 mud, terrigenous
 mud, 250455
 mud, green, 250455
 mudstone, 250455
 mudstone, green, 250455
 mudstone, petrology, 180906, 180907,
 180909, 180911, 180912
 Nankai Trough
 clay minerals, 870635
 turbidites, 870913, 870916
 Natal Basin, volcanic sediment, 250526,
 250529
 Neogene formations, paleogeography,
 42A0909, 42A0913, 42A0914, 42A0915
 New Zealand
 Cenozoic changes, 901230, 901231
 tectonics, 901231, 901234
 Nile Fan, mineralogy, 130669, 130735
 nitrogen, oxidative, 340408

- Norwegian Basin, 38S0067
Pliocene-Pleistocene, 38S0072
Norwegian Sea, 38S0224
basalt, 38S0241, 38S0242
clay minerals, 38S0231, 38S0232, 38S0233, 38S0235
Greenland Sea, 38S0437, 38S0438
Voring Plateau, 38S0200
¹⁸O, greenstone, dredged, 830234
ocean basin, mineralogy, 42A0517
organic geochemistry, 640819
origin, erosion, continental, 580673
oxygen isotope, geochemistry, 340337, 340338
Pacific Ocean, mineralogy, 310885, 310886, 310887, 310888, 310889, 310890, 310891, 310892, 310893, 310894, 310895
Pacific Ocean C, mineralogy, 330541, 330542, 330543
Pacific Ocean E, 540310
Pacific Ocean NE
cruise synthesis, 151103
regional aspects, 050624, 050629
Pacific Ocean NW, 860572, 860726
clay, 860552, 860572
clay minerals, 860552, 860572
Pacific Ocean SE, clay-sized minerals, 350480, 350484, 350486
Pacific Ocean SW, modern sediment distribution, 901438
Pacific Ocean W
mineralogy, 200324
volcanic rocks, 210483
Panama Basin, 540316
particle, origin, 901226, 901227
pelagic components, distribution, terrigenous, hemihalmeic components, 250491
peridotite, phase chemistry, 370843
petrography, 600583
breccia, 600583
gabbro, 600582
gabbro, spinel-bearing, 600583
minor lithologies, 600583
petrology, 540799, 810797
igneous rocks, 260557
sand, 960496
South Tasman Rise, 291117
Philippine Basin W, 590598
Philippine Sea
Daito Basin, 600429
Daito Ridge, 600429
lithology, 061135, 061137, 061138
Mariana Trench, 600435
Mariana Trough, 600431
Shikoku Basin, 600415
Philippine Sea S, clay minerals, 590600, 590602
phillipsite, Atlantic Ocean NW, 430470
physical properties, clay, 061135, 061137, 061138
polymict breccia, clast, 600648, 600649
preliminary organic analyses, 42B0726
pyrochlorite-type, 670561
pyroclastics, mineral, secondary, 260557
quartz, ¹⁶O/¹⁸O ratio, 350489
rare earth elements, trace elements, 590665
Rb-Sr age, gneiss, 360925
Red Sea
evaporites, 230835
geochemistry, 230988
sediment history, 230855
Reykjanes Ridge, mineralogy, 101130
Rio Grande Fracture Zone, geochemistry, 720429
Rio Grande Rise, sediment, 720428
Rockall Plateau
sedimentation, 810681
Tertiary deposits, 810669, 810670, 810673, 810676, 810677, 810680, 810681
Rockall Rise, mineralogy, 101131
Ross Sea, basement, 280862, 280864, 280866
San Juan River, source, 540317
sand, turbidite, mineralogy, 050536
sandstone, petrology, 180919
sapropel
petrography, 130714, 130717
sedimentology, 42A0460
Sardinia, slope, 130780
secondary mineralogy, 830257
sediment, 560944, 560946, 560949
lithology, 38S0111, 38S0115, 38S0116, 38S0117
sediment chemistry, upper part, 350427
sediment composition, clay minerals, 960479
sediment geochemistry, smectite, 670605
sediment mineralogy, smectite, 670605
sedimentology
Mexico, Gulf of, 100705, 100709
terrigenous components, 340783
sediments
Atlantic Ocean NE, 941089, 941090, 941091, 941092, 941093, 941095, 941096, 941097
Blake Basin, 760440
Blake Ridge, 760414
serpentinite, 370563
Shikoku Basin, 580669, 580671, 580672
source, 580673
silica, mineralogy, 140729
sill, mineral composition, 180939
source, 540316, 590600, 590602
China E, 590600
South Tasman Rise
age, 291117
petrology, 291117
Southeast Pacific Basin, evolution, geologic, 350730
⁸⁶Sr/⁸⁷Sr ratio, 920500, 920502
high modal abundance, 920502
stratigraphy
clay minerals, 600469
Mariana Trough, 600468
Pacific Plate, 600467
Pacific Plate W, 600469
sulfide, chemistry, 630680
Tasman Sea, mineralogy, 300604
tectonic
clay, 430811
clay, black, 430796
terrigenous minerals, mineralogy, 250436, 250437
terrigenous origin, 560987
tholeiite, mineral composition, 180939
tholeiite, depleted, geochemistry, 810784
Timor Trough
ooze, foraminiferal, 271011
ooze, nannofossil, 271011
trace elements
Cretaceous, 511087
distribution, 42A0504, 42A0505
East Pacific Rise, 650611
tuff, Neogene, 630650
turbidites, flysch, 250444
Tyrrhenian Rise, mineralogy, 130667
Valencia Trough
basalt, vesicular, 130767
mineralogy, 130607, 130667
volcanic components, 210483
volcanic sediment, 010540
Paleocene and Eocene, 480775
volcaniclastics, volcaniclastic matter, 550504
volcanics
mineral composition, 180939
Pacific Ocean C, 170433, 291104
volcanism
basalt, 050533, 050534
clay, 870636
mineral evolution, 600451
Walvis Ridge
clay mineralogy, 750850
climatic, oceanographic evolution, 740679
watered brucitic layer, 560984, 560987
West Mariana Basin, 590598, 590600
West Mariana Ridge, source, 590600
X-ray diffraction analysis, 500707
clay minerals, 510731
X-ray mineralogy
Biscay, Bay of, 480649
clay minerals, 400547
Rockall Rise, 480665, 480666, 480667, 480668
chlorite, cryptocrystalline
geochemistry, petrology, 340218
Pacific Ocean SE, basalt, 340218
chlorite, Fe-Mg
Atlantic Ocean N, clay, 481091
deposition, origin, 600450
Hess Rise N, post-Jurassic, 620817
Magdalena Bay, dolerite, 630723
mineral assemblage, evolution, 600448
mineralogy, Mariana Trough, 600440
volcanism, mineral evolution, 600450
chlorite, Fe-rich
basalt, mineralogy, 411103
diabase, gabbro, 411103, 411104
major element, geochemistry, 42B0531
minor element, geochemistry, 42B0531
petrology, 411103, 411104
chlorite, magnesium
alteration, products, 450617
East Mariana Basin, geochemistry, 890421
geochemistry, mineral, secondary, 450617
chlorite, serpentine, lithology, 260331
chlorite-actinolite, polymict breccia, clast, 600648
chlorite-calcite, lithology, 380166
chlorite-expandable clay mixture
Costa Rica Rift Zone
basalt, 830225, 830228, 830230, 830232
stockwork-like zone, 830268, 830272, 830273
chlorite-kaolinite
chemistry, 650416
mineralogy, 650416
chlorite-mica, Atlantic continental margin, mineralogy, 110784
chlorite-montmorillonite, 560981
California, Gulf of, gulf mouth, 650400, 650413
chemistry, 650418
clay minerals, 560981
distribution, 560983, 560984
mineralogy, 140731
terrigenous origin, 560987
glass, volcanic, 47A0699
Guatemala, trench, 670515
hydrothermal alteration, sediments, 650419, 650420
Japan Trench, clay minerals, 560979, 560983, 560984, 560987
mineral, secondary, laumontite, 670551
mineralogy, 650418
Atlantic Ocean, 140730
basalt, 220428
silica, mineralogy, 140731
terrigenous origin, 560987
chlorite-quartz, Costa Rica Rift Zone,

- basalt, 830236
chlorite-smectite
alteration, products, 810739
alteration, low-temperature,
 random-mixed-layer, 340408, 340412
alteration, nonoxidative,
 random-mixed-layer, 340408
Atlantic Ocean
 geochemistry, 47B0434, 47B0435
 mineralogy, 47B0434, 47B0435
basalt, mineral, secondary, 340408, 340409
Costa Rica Rift Zone, basalt, 830228,
 830250, 830254
East Pacific Rise, sediments, 650380, 650381
geochemistry, Hatton Ridge, 810739
lithology, 160157
mineral, secondary, diagenesis,
 nonoxidative, 340408
mineralization, secondary, mineralogy,
 540810
mineralogy
 basalt, amygdaloidal, 220428
 basalt, vesicular, 220428
 random-mixed-layer, 340408
 stable isotope, carbonate, 650384
chlorite-talc
 mineral, secondary, 920507
 abundance, 920509
chlorite/illite ratio
clay minerals, Tertiary, 291081
mineralogy
 Mariana Islands, 600458
 Mariana Trench, 600458
chlorite/kaolinite ratio, 560939, 560946,
 560957, 560962
clay minerals, 560957, 560962
 Tertiary, 291078
Indian Ocean W, mineralogy, 42B0462
Japan Trench, 560939, 560946, 560962
 clay minerals, 560957, 560962
 lithology, 380163
Mississippi Fan, sediment, 960432
OAL subsidence, 560939, 560962
Philippine Sea, Shikoku Basin, 600419
sea floor spreading, 560939, 560963
sediment, 560946
sediment composition, clay minerals, 960480
chloritization
 basalt, petrochemistry, 630727
 Costa Rica Rift Zone, basalt, 830257
 dolerite, 630722
 Riviera Plate, alteration, 630722
chlorophaeite
 basalt
 mineral composition, 050533, 050534
 mineralogy, 270552
 basalt, oceanic, Melanesian Basin, 610659
 Indian Ocean W, basalt, 250546, 250549,
 250553
 lithology, 060044
 basalt, 140054, 270094
 mineral composition, basalt, 050533, 050534
 mineralogy, basalt, 270552
 sill, mineralogy, 270552
 volcanism, basalt, 050533, 050534
chlorophyll
 Black Sea, diagenesis, 42B0707
 chlorophyll derivatives, geochemistry,
 610619
 diagenesis
 alteration, thermal, 571407
 aluminum chelate, 42B0707
 aluminum hydroxide chlorine, 42B0707,
 42B0714
 Black Sea, 42B0707
 bottom water, oxygenated, 571406
 burial, 571406
 burial depth, 42B0707, 42B0710, 42B0713,
 42B0714
 carbon, organic, 42B0708, 571406
 changes with depth, 47A0550
 chlorine, 42B0707, 42B0708, 42B0710,
 42B0713, 42B0714, 571397, 571398, 571407
 chlorine, altered, 571406
 chlorine, free base, 42B0710
 chlorophyll, sedimentary, 571407
 conjugated carbonyl groups, 571407
 dehydrogenation, 42B0714
 deoxophylloerythrin, 42B0710
 depositional environment, 571397
 derivatization method, 42B0707
 diazomethane, 42B0707
 differences, diagenetic products, 42B0714
 downslope terrigenous sediment, 571406
 early stages, 42B0713
 fossil record, removal, 571407
 free-base, 571397
 geochlorins, 42B0707
 geochlorins, silylated aluminum hydroxide
 derivatives, 42B0710, 42B0712, 42B0713
 geologic age, 42B0714
 hydrocarbon, 42B0714
 hydroxy group, 42B0707
 intermediate diagenetic products, 42B0707
 intermediate stages, 42B0708, 42B0713
 isocyclic ring, oxidative cleavage, 571407
 Japan Trench, 571397, 571406
 keto groups, defunctionalization, 571407
 main pathways, interaction, 571407
 maturation, 42B0707, 42B0714
 maturation, rate determining factor,
 42B0710
 metallochlorin, 42B0707
 metalloporphyrin, 42B0708, 571397, 571407
 methylene groups, 42B0714
 molecular weight distribution, 42B0710,
 42B0714
 neophytadiene elimination, 571407
 organic matter, source, 42B0714
 oxic environment, 571407
 oxidation-reduction pathways, interplay,
 571407
 Oyashio landmass, 571406
 petroporphyrin, 571397
 pheophorbide-a, 571407
 pheophytin, 571406, 571407
 pheophytin-a, 571397, 571398, 571407
 pheophytin-pheophorbide, 42B0713
 pheopigments, isocyclic ring, 571407
 photic zone, 571406
 phyloporphyrin, 42B0714
 phytyl double-bond reduction, 571407
 pigment, 42B0708, 42B0710
 pigment distribution, 47A0557
 pigment yield, 571397, 571399, 571400,
 571401, 571406
 porphyrin, 42B0707, 42B0710, 42B0714,
 571407
 porphyrin, copper, 571397, 571407
 porphyrin, dealkylated copper, 571407
 porphyrin, dealkylated nickel, 42B0714
 porphyrin, free-base, 42B0707, 42B0708,
 42B0710, 42B0713, 42B0714, 47A0548,
 571397
 porphyrin, free-base nickel, 42B0710
 porphyrin, nickel, 42B0707, 42B0708,
 42B0710, 42B0714, 47A0548, 47A0550,
 571397
 preoxidized terrigenous matter, input,
 571407
 products, 42B0715, 561391, 561397,
 571391, 571392, 571395, 571396, 571397
 purpurin, 571407
 purpurinlike pigments, 571407
 reducing conditions, 571407
 reduction-thermal stress pathway, 571407
 reductive processes, 571407
 reductive-oxidative diagenetic modes,
 competition, 571407
 reworking, 571406, 571407
 rhodoporphyrin, 42B0710
 ring-conjugated groups, reduction, 571407
 shallow sediments, 42B0714
 temperature, diagenetic factor, 42B0714
 terrigenous input, 571406
 tetrapyrrole, 42B0708, 42B0713, 47A0547,
 571397, 571398, 571401, 571402, 571403,
 571404, 571405, 571406, 571407
 thermal gradient, 571407
 trends, 571406
 turbidite, 571406
 water column oxidation, 571406
Japan Trench
 diagenesis, 561391, 561397
 sediments, 571397
kerogen, organic geochemistry, 640897
limestone, Albian, 620929, 620933
lipid
 indication, 630768
 organic geochemistry, 640897
Philippine Sea S, 600499
 derivation, 600498
 diagenesis, 600497
preliminary organic analyses, 170577
tetrapyrrole
 geochemistry, 630785, 630788, 630789,
 630790, 630799, 630802, 630808, 630809,
 630814, 630815, 640789, 640790, 640795,
 640797, 640804, 640806, 640807
 pigment, 580737, 580738, 580739
Vigo Seamount, tetrapyrrole, 430660
chlorophyll, autochthonous, tetrapyrrole,
 geochemistry, 630799, 630802, 630808,
 630810, 640793, 640798
chlorophyll, biotic, tetrapyrrole,
 geochemistry, 640789, 640807, 640810
chlorophyll derivatives, 200943, 200944,
 220677, 220678, 310629, 310631, 310905,
 310906, 600497, 600499
 alteration, diagenetic, organic matter,
 571308
 alteration, secondary, 600499
 carboxylic acid, 310908
 Caribbean Sea, 200943
 sediments, 200943
 chlorine, 220677, 600499
 pigment, 310631
 chlorine, free base, 220678
 chlorophyll, diagenesis, 571399, 571406,
 571407
 clay, zeolitic, 600499
 crust, formation, 600499
 Daito Basin, organic geochemistry, 580989
 Daito Ridge, organic geochemistry, 580989
 dechelation, 310631
 diagenesis, oxidative, 600499
 dioxy by-product, 310908
 fossil pigments, spectra, 310629, 310630,
 310905, 310906
 geochemistry, 610619
 Indian Ocean NE, 220677
 sediments, 220677
 Japan, Sea of, 310629
 Paleogene-Neogene, 310629
 Mariana Trench, ponding, 600499
 Mariana Trough W, 600499
 Melanesian Basin, geochemistry, 610619
 metallochlorin, 220678

- metalloporphyrin, 220678
nickel, 220678
organic geochemistry, 200905, 580989, 640718
organic sediments, 600499
Pacific Ocean W, sediments, 310629
Pacific Plate, 600499
Philippine Sea, 600497
Philippine Sea S, 600497, 600498
porphyrin, 220677
porphyrin, nickel, 310906
Quaternary sediments, 600499
rhodofying group, 310631
sediment, 310905
Caribbean Sea, 200943
Indian Ocean NE, 220677
sediments, Pacific Ocean W, 310629
Shikoku Basin, organic geochemistry, 580989
spectra, 200943
tetrapyrrole, 220677, 600499
geochemistry, 630785, 630788, 630815,
630816, 640789, 640790, 640791, 640794
pigment, 580737, 580739
unknown compound, 310907
volcaniclastic content, variation, 600499
Yamato Basin, 310629
Yamato Rise, 310629
Choboshi Formation, 061289
Choiseul, 300702, 300703
Pacific Ocean SW, island arcs, 300702,
300703
Chokai Volcano, 870272, 870716
cholestane
Hess Rise, Albian sediment, 620940
hydrocarbon generation potential, organic
facies, 640866
lipid, geochemistry, 610628
preliminary organic analyses, 160576,
160581, 160585
cholestanol, preliminary organic analyses,
170576
cholestanone
ketone, cyclic components, 660561
preliminary organic analyses, 160576, 170563
cholestene
hydrocarbon, extractable, organic
petrology, 630822
organic geochemistry, gulf mouth, 640879
cholestenone, hydrocarbon, higher weight,
090866
cholesterene, limestone, Albian, 620932
cholesteroid, limestone, Albian, 620932
chondrite, 670567
alteration, products, 450618
Azores, mantle, 370592, 370594
basalt
California, Gulf of, 650584
glass, 600606
major element, 510991
trace elements, 510991
basalt, altered
geochemistry, 580811
major element, 580874
trace elements, 580874
basement, petrology, 370696, 370700, 370702
Bauer Basin, basalt, 340239
burrows, element distribution, 410933,
410934
carbonate, carbon, organic, 711054
chert
geochemistry, 620713
petrology, 620713
crystallization, fractional, melting,
partial, 370539, 370542
geochemistry, 370696, 370700, 370702
basalt, altered, 450618
Indian Ocean SE, sediments, 260548
Nazca Plate, basalt, 340239
rare earth elements, tuff, 590655, 590656
Suiko Seamount, trace elements, 550567
trace elements
geochemistry, 370573
hygromagmaphile elements, 670567
chondrite, carbonaceous
mafic rocks, metals, 370577
tholeiite
geochemistry, 590687
petrology, 590687
ultramafic rocks, 370577
chondrite, normalized
basalt, altered
major element, 580882
trace elements, 580882
hygromagmatophile (HYG) elements, 540728
low partition coefficient elements,
hygromagmatophile (HYG) elements,
600661, 600664
chondrites, material, burrows, 850783
Choptank Formation, regional seismic grid,
borehole data extrapolation, Miocene
depositional history, 950799
Choptank River, 950799
Melanesian Basin, igneous complex, 890672
Chorokh River, 42B0653
Choshi Peninsula, 870759
Shikoku Basin, event, 870759
Chowan River Formation, 950802
regional seismic grid, borehole data
extrapolation, deposition, 950802
Christchurch, 280920, 280945
general synthesis, 280920
Christmas Island, 070914, 080018, 080061,
220003, 220013, 220019, 220413, 220429,
220430, 220483, 330126, 330571, 330653,
330733, 330739, 330790, 390904, 850822
Cocos Islands, 220822
Line Islands, tectonics, 330733, 330739,
330744
pumice, source, 850822
regional summary, Wharton Basin, 220822
ridges, 080018
see also Indian Ocean NE
Christmas Island Trough, 330681, 330922
New England Seamounts, 330681
Christmas Ridge, 080018
Christmas Rise, 220351, 220360, 220365
geophysical measurements, 220360
seismic profiles, 220351
chrome
basalt, mineral chemistry, 550617
basement, basalt, 490622
clinopyroxene, 820525
spinel, 291104, 490618, 490622, 490623
chrome diopside, melting, tholeiite, olivine,
450514
chrome diopside, aluminous
basement, petrology, 370700
geochemistry, 370700
chrome spinel, 450581, 460310, 580639,
690748, 690805, 830131
alteration, mineralogy, 460310
alteration, low-temperature, mineral,
secondary, 460310
basalt, 690805
basement, 460121
chemical composition, 690805, 690807
chemistry, 450452, 460121
Costa Rica Rift Zone, 830155, 830166
geochemistry, 490617, 490618, 590756,
590761, 590768, 590778, 590779
glass, 820512
glass, variolitic, 690805, 690807
magnesiocromite, 690805, 690807
mineral chemistry, 550608, 550621,
550622, 550629, 550630, 550631, 550633
mineral, opaque, 450557, 450561
mineralogy, 291103, 291104, 460310
olivine, 690805, 690807
paragenesis, 690805, 690807
petrology, 460121, 590670, 590671
plagioclase, 660716, 690805, 690807
skeletal rims, 690808
zoning, 690807
basalt, altered
geochemistry, 580802, 580809, 580814,
580817, 580819, 580820, 580823, 580831,
580836
petrochemistry, 580802
basalt, phyrlic
contamination, 650641
phenocryst composition, 830138, 830140
plagioclase, 650639
basalt, sparsely phyrlic, basalt,
transitional, 540624
basement
basalt, 490618, 490633, 490745
geochemistry, 600654
mineral chemistry, 460121
petrography, 600654
basement, volcanic, mineral chemistry,
460118
bulk-rock compositions, 540741
chemical composition, 690805, 690807
classification, 690807
FAMOUS area, 690807
glass, variolitic, 690805, 690807
Mid-Atlantic Ridge, 690807
olivine, 690805, 690807
plagioclase, 690805, 690807
crust, oceanic, Costa Rica Rift Zone,
830184, 930194
Daito Ridge, 580639
detrital mineral, 580633
detrital mineral, 580633
East Pacific Rise, composition, 540842
Emperor Seamounts, petrology, 550509
gabbro, phase chemistry, 370841, 370844
igneous rocks
chemistry, 630733
geochemistry, 370674
low Fe³⁺ content, 580639
Mariana Trough, 600614
Mid-Atlantic Ridge, 830140
mineral, chemical composition, 660713
mineral chemistry, 450589
basalt, 460121
mineralogy, 291104
primary mineralogy, 600710
spinel, 800940
olivine, 690805, 690807
Pacific Ocean SE, basalt, 340246, 340248
paragenesis, 690805, 690807
peridotite, phase chemistry, 370841, 370844
peridotite, serpentinized, mineral
chemistry, 450589
peridotite-gabbro-basalt, mineral analyses,
370847
petrographic description, 660711
petrology, 540795
ultramafic rocks, 450589
phase chemistry, petrology, 340246, 340248
phenocryst, 690748
olivine, 690805, 690807
plagioclase, 690805, 690807
Siqueiros Fracture Zone
basalt, 540717
basalt, porphyritic, 540608, 540615
skeletal rims, 690808
spinel, 830161

- Suiko Seamount, trace elements, 550566
 tectonite, ultramafic, mineral chemistry, 450589
 trace elements, 810788
 ultramafic rocks, mineral chemistry, 450589
 volcanics, Pacific Ocean C, 291103, 291104
 zoning, 690807
see also Cr-spinel
- chrome spinel, aluminous, basalt, geochemistry, 590757, 590763
- chromite
 basalt
 Bermuda Rise, 511433
 mineral chemistry, 550608, 550626, 550631, 550632
 mineral, opaque, 511433, 511436
 petrology, 450462, 450463
 crystallization, fractional, melting, partial, 370542
 diagenesis, slope sediments, 840575
 gabbro, phase chemistry, 370841, 370843
 geochemistry, igneous rocks, 370741
 lithology, inclusion, 800939
 Mariana Islands, fore arc, 600652
 mineral chemistry
 basalt, aphyric, 450462
 basalt, porphyritic, 450462, 450463
 mineral, heavy, 580661
 ore, deposit, 540803
 peridotite
 phase chemistry, 370841, 370843
 spinel, 370884
 phenocryst, 330898, 330902
 Philippine Sea NE, 580661
 mineral, heavy, 580661
 Rockall Plateau, concretion, fossil polymetallic, 810706
 Suiko Seamount, trace elements, 550566
 Walvis Ridge, basalt, 740745
 zoning, crust, ferromanganese, 370884
- chromium, 540727, 540738
 alteration minerals, trace elements, 920496, 920497
 analyses, 920433
 Angola Basin
 geochemistry, 750847
 petrochemistry, 751101
- ash
 glass, basalt, 650482
 hyaloclastite, 650482
 Assemblage IA(+), 710394
 Assemblage IIIA(+), 710395
 Atlantic Ocean S, history, 740715, 740718, 740727
 Atlantic Ocean SE, Cretaceous, 740778
 Azores, mantle, 370592, 370594
 B, trace elements, 920491
 basalt, 240784, 240785, 670567
 alkali metal, 810757, 810767
 Barbados Ridge, 780403
 chemical composition, 320567, 320568
 chemical variation, 340303, 340305
 chemistry, 450447, 540679, 540681, 920472, 920473, 920476
 chromium, spinel, 450581
 Fe-Ti oxide, 550644
 geochemistry, 260567, 260570, 430729, 430731, 430732, 490604, 590754, 590759, 590766, 590769, 590772, 590774, 590781, 590783, 590784, 590785, 590786, 590795
 major element, 510993, 510997
 mineral chemistry, 550608, 550621
 mineral, opaque, 450561
 minor element, 490666, 490668, 490681, 490682
 petrology, 160628, 220459, 220463, 320567, 320568, 450466, 580856, 580862, 590676
 pyroxene, 590705
 rare earth, 370581, 370582, 380742
 trace elements, 510993, 510997
- basalt, altered
 chemistry, 511323
 geochemistry, 540671, 580792, 580793, 580798, 580802, 580807, 580810, 580816, 580819, 580823, 580824, 580831, 580834, 580835
 major element, 580875, 580884
 petrochemistry, 580792, 580793, 580798, 580802
 trace elements, 580875, 580884
- basalt, oceanic, petrochemistry, 610642
 basalt, phyrlic, clinopyroxene, 650636
- basement
 chemistry, 600622
 geochemistry, 600654
 petrography, 600654
 petrology, 370695, 370698, 370700, 370701, 370702
 Bauer Basin, basalt, 340227, 340239, 340240
 Bermuda Rise, trace elements, 511137, 511138
 Blake Basin, 760774
 bulk-rock compositions, 540741
 California, Gulf of
 Guaymas Basin, 650616
 gulf mouth, 650406, 650407, 650410, 650416
 carbon, organic, geochemistry, 750828, 750834
 chemical composition
 metal, 571259, 571262, 571263, 571265
 trace elements, 600461
 chemistry, 650419
- chert
 geochemistry, 620725
 petrology, 620725
- clay, trace elements, 170511, 170512, 170513
 clay minerals, microelements, 560987
 claystone, basalt, 550707
 clinopyroxene, crystallization, 540663
 Costa Rica Rift, chalk, 690403, 690404
 Cretaceous/Tertiary boundary, 860537
 crust, oceanic, hygromagmatophile (HYG) elements, 650623, 650624
 crystal morphology, 600683
 crystallization, fractional, melting, partial, 370539, 370541, 370542, 370543, 370545
 deposition, models, 750840
 diabase, trace elements, 240784, 240785
 diagenesis, slope sediments, 840575, 840582
 dolerite, 540663
- Emperor Seamounts
 mineralogy, 550469
 trace elements, 550585
- euxinic sediment, shale, black, 750852
- Falkland Plateau, basement, 360896, 360897
 ferromanganese sediment, sediment chemistry, 190634
 geochemical history
 Jurassic-Cretaceous, 710406
 sedimentation, 710405
 geochemical variation, 810800
 geochemistry, 370698, 370700, 370701, 390477, 390490, 640696
 andesite, 220463
 basalt, 380719
 California, Gulf of, 640696
 Cenozoic sediments, 42B0543, 42B0545, 42B0551, 42B0554, 42B0562, 42B0599
 chemistry, 340218, 340220
 claystone, red variegated, 440508
 comparison, other oceanic rocks, 220459
- comparison, other rock types, 220463
 differentiation, 220463
 major oxides, 540359
 mathematical treatment, 500701
 mineral chemistry, 160628
 mineralogical, geochemical relationships, 370702
 petrology chemistry, 370695
 trace elements, 060840, 220459
- glass
 basalt, 650482
 chemical variation, 510977, 510980, 510984
- Hess Rise
 post-Jurassic sedimentation, 620820, 620821, 620825
 rocks, 620863, 620864
- Hess Rise N
 post-Jurassic, 620806, 620807
 sedimentary sequences, 620765
 hyaloclastite, glass, 650482
- igneous rocks, 840948
 chemical composition, 590724
 geochemistry, 370656, 370660, 370662, 370672, 370674
- Indian Ocean SE, sediments, 260542, 260547
 Indian Ocean W
 basalt, 250543, 250545, 250548, 250549
 geochemistry, 250405, 250414
 regional aspects, 250753, 250754
 inorganic chemistry, 440579, 960738
 inorganic geochemistry, 750951
 Angola Basin, 750924, 750929, 750933
 Hess Rise, 620689, 620692
 Mid-Pacific Mountains W, 620685
 trace elements, 430682
 Walvis Ridge, 750925, 750950
- Japan Trench
 clay minerals, 560987
 sediments, 271223, 271225, 271226, 271228, 571213, 571251, 571253, 571254, 571255
- Li, trace elements, 920491
- magma, tectonic affinities, 810801
 magma chamber, 650624
 magnetic oxides, petrology, 511411, 511422
 major element, geochemistry, 630694
 mantle, upper, trace elements, 460247, 460249
- Mariana Islands, fore arc, 600620, 600652, 600653
- Mariana Trench, 600620
 boninite, 600731
- Mariana Trough, 600614
 basalt, 600650
- Mellish Seamount, post-Jurassic sedimentation, 620834, 620835
 melting, partial, 460247, 460249
- Mendoza Rise, lithology, 920437
 metalliferous sediment, Eocene-Oligocene, 850799
- Mid-Atlantic Ridge
 basalt, 450494, 450495, 450496, 450497
 chemistry, 450682
 isotopes, 450545, 450547, 450548
 mineral, chemical composition, sediments, 38S0043
 sediment chemistry, 38S0041
 mineral chemistry, basalt, porphyritic, 450466
 mineralogy, 650419
 clinopyroxene, 540743, 540762
 geochemistry, 600712, 600719
- minor element
 East Pacific Rise, 650608
 geochemistry, 360930, 360932, 360937
 Nazca Plate, basalt, 340227, 340239, 340240

- Pacific Ocean NW, geochemical history, 620786, 620787, 620800
- Pacific Ocean SE, basalt, 340218, 340220
- peridotite, spinel, 370883, 370887
- petrogenesis, modeling, 920445
- petrology
- geochemical variation, 740757
 - geochemistry, 430729, 430731, 430732
 - mineralogy, 540801
- phenocryst, clinopyroxene, 540656
- polymict breccia, clast, 600648
- rare earth, 460243
- rare earth elements, geochemistry, 600737, 600738, 600740
- Red Sea, geochemistry, 230977, 230981
- Rockall Plateau, basalt, 810796, 810803
- sediment chemistry, trace elements, 350451
- sediment geochemistry, 550457, 550462
- laterite, 550461
- shale, black, chemical composition, 410875
- $^{86}\text{Sr}/^{87}\text{Sr}$ ratio, 511137
- rare earth elements, 511138
- Sr isotope, 600679
- trace elements, 590724
- Suiko Seamount, trace elements, 550561, 550566
- tholeiite
- geochemistry, 590681, 590687, 590689
 - petrology, 590681, 590687, 590689
- trace elements, 370581, 370582, 450545, 460243, 650564, 810788, 850785, 850789
- clinopyroxene, 450548
- distribution, 42A0493, 42A0504, 42A0505
- East Pacific Rise, 650608
- geochemistry, 370573, 370574, 370575, 630694, 650624
- insoluble residue relationship, 720402
- iron, 850786
- magnetite, 450548
- manganese, 850786
- olivine, 450548
- partitioning, 850796
- plagioclase, 450547
- transition elements, 920495
- turbidites, Guatemala, 840925
- volcanic sediment, primary volcanic material, 901181
- Walvis Ridge, basalt, 740743, 740753, 740757
- whole rock chemistry, 370725
- zoning, 370883, 370887, 450581
- see also* Cr
- chromium, spinel, 450581
- basalt
- geochemistry, 590767
 - mid-ocean ridge, 450581
 - phase chemistry, 450581, 450582, 450583, 450585
- basalt, oceanic, 610637
- basement, opaque mineralogy, 370858
- Costa Rica Rift, 690805
- Melanesian Basin, ash, 610634
- Mid-Atlantic Ridge, 450581, 460121
- Nazca Plate, basalt, 450581
- Chron 5/Gilbert boundary, 42A0874
- Mediterranean Sea, paleomagnetism, 42A0874
- chrysene
- bitumen, 440649
 - limestone, Albian, 620929
 - lipid, hydrocarbon, aromatic, 571373
 - organic matter, insoluble, 440649
- chrysolite
- basalt
 - mineralogy, 540698
 - petrography, 540698
 - geochemistry, igneous rocks, 370740
- Chubut, 360871
- Chugach-St. Elias Mountains, 180451
- Kenai Mountains, 180968
- lithology, 180295
- St. Elias. *See* Cape St. Elias
- tectonic history, 180968
- Alaska, Gulf of, 180968
- Churchill Falls, 120038
- Cigulhas Bank, Rio Grande Rise N, regional setting, 250691
- Cilicia Salt Lake, 42B1216
- Israel, history, 42B1216
- Mediterranean Sea E, history, 42B1216
- Cimenna Basin, 42A0934
- Cimmerian Orogeny, 42B1077
- Black Sea, geophysical framework, 42B1077
 - Thethys, Mediterranean Sea, 42A0944, 42A0948
- Cipero Formation, 040592, 061260, 110545, 330391, 340747
- CIPW, 550560, 640645, 690817, 840638, 890503, 890566
- circulation, 481150, 810692
- 10^5 , 10^4 year cycles, 901214
- abyssal plain
- benthic microfauna, 800745
 - cyclic sedimentation, 801078
- Angola Basin, geologic evolution, 750524
- anoxia, organic richness, 801011, 801012
- anoxia, global, evidence against, 801001, 801002, 801003
- Antarctica, 280919
- glaciation, 291041, 291042
- Argentine Basin, 720383
- Atlantic Ocean, 720977
- abrupt change, 720978
 - Antarctic Bottom Water, 720977
 - Antarctic Intermediate Water (AAIW), 720977
 - Atlantic Deep Water, 720977
 - boundary conditions change, 720978
 - Cenozoic major water masses, 720977
 - Circumpolar Deep Water, 720977
 - climatic events, 720978
 - current, thermohaline, 720977
 - currents, deep ocean, 720978
 - major basins, sills, geometry changes, 720978
 - margin, 481099, 481102, 481103, 481105, 481109
 - New England, 720977
 - Nova Scotia, 720977
 - oxygen minima, 720977
 - Rio Grande Rise, 720977
 - sea floor spreading, 720978
 - subsurface salinity minimum, 720977
 - tectonically controlled events, 720978
 - volcanism, midplate, 720978
 - Walvis Ridge, 720978
- Atlantic Ocean N
- bottom water, 941061, 941130, 941220, 941229, 941231, 941236
 - paleogeography, 121177
- Atlantic Ocean NE
- bottom water, 810696, 941114
 - climate, 800805
 - evolution, 411226, 411229, 411234, 411240, 411241
- Atlantic Ocean S, 400025
- Cretaceous, 720979, 720980, 720981, 720982
 - hiatuses, 391101, 391104
 - Paleogene, 720983, 720984
 - Sierra Leone Rise, 391123
- Atlantic Ocean SW, 720977, 720978
- basin, evolution, 360994, 360996, 360998, 360999, 361000, 361006, 361008
- Atlantic Ocean W, sediment distribution, 481099
- basins, bottom water, 760479
- Black Sea, bottom water, 760479
- Blake Basin, bottom water, 760468, 760479, 760777, 760903, 760931
- bottom current, Neogene, 490869
- bottom water, 210041, 290057, 730674, 810695, 810698
- Atlantic Ocean N, 760478, 760933, 941220, 941229, 941230, 941231, 941236, 941240
 - Atlantic Ocean NE, 490859, 941114
 - Black Sea, 760479
 - Blake Basin, 760468, 760479, 760903, 760931, 760933
 - Cretaceous, 621045
 - Feni Ridge, 941065, 941067, 941069
 - Norwegian Sea, 941114
 - oxygen, 621045
 - ridge formation, 941217
 - Rockall Rise, 941114
 - Rockall Trough, 941061
 - sediment drifts, 941217, 941225
 - tectonics, 760777
- carbon isotope
- ^{13}C -enriched, 850774
 - shift, 901402
- carbonate, stable isotope, 42A0654
- Caribbean Sea W, sediments, 680479
- Cenozoic-Cretaceous sediments
- Atlantic Ocean N, 800980
 - climatically induced variations, 800980
- Challenger Plateau, Quaternary, 901422
- Chatham Rise, Quaternary, 901434
- clastic sediment, Cretaceous, 401045
- clay, deposition, 291056
- clay mineralogy, stratigraphic evolution, 750864
- clay minerals, stratigraphy, 720383
- Colombian Basin, isotope stratigraphy, 680452
- contourites, Hatton Drift, 810695
- Costa Rica Rift Zone, cessation, 830289
- Cretaceous/Tertiary boundary, paleoenvironmental history, 740691
- crust, oceanic, seawater interaction, 511169
- deposition
- bottom water, 250499, 250500, 250501, 250502, 250503, 250504
 - chalk, nannofossil, 250495
 - depositional paleoenvironment, 250497, 250498, 250499
 - models, 750836
 - ooze, nannofossil, 250495
- detrital to biogenic sediment trends, South Tasman Rise, 291075
- diagenesis, Miocene to present, 690375
- diatom paleoceanography, paleoclimatology, 850944
- Atlantic Ocean, 850944
 - surface water, 850943
- diatom paleoclimatology
- Central American Seaway, 850935
 - surface water, 850935
- East Mariana Basin, Campanian to Maestrichtian, 890425, 890426
- Falkland Plateau E, sedimentation, 360888
- Feni Ridge, bottom water, 941061, 941065, 941069, 941165, 941220, 941240
- Gardar Ridge, bottom water, 941220, 941220
- Gibbs Fracture Zone, bottom water, 941220
- glacial cycles, deep-sea environment, 800811, 800812, 800813, 800814
- glaciation, Pliocene, 850731
- Goban Spur, 801031
- Cenomanian-Turonian, 800980
 - evolution, 801210, 801212
 - upper slope, 800764

- Hatton Drift, bottom water, 941220
 hydrocarbon generation potential, 660546
 organic matter, 670598
 Pacific Ocean E, 660546
 hydrothermal activity, Neogene, 920616
 hydrothermal alteration, 920505
 hydrothermal deposits, origin, 540415, 540417
 Iceland Basin, bottom water, 941220
 Indian Ocean S, geologic history, 260918, 260937, 260939
 interstitial water chemistry, bottom water, 960708
 iron-rich sediment, origin, 330836
 Jurassic, Atlantic Ocean N, 760930
 Jurassic-Cretaceous, carbonate, 790879
 Labrador Sea S, deep current-controlled sediment body, 121162
 limestone, Cretaceous, 620878, 620888, 620889
 Lord Howe Rise, isotope stratigraphy, 901385
 Lord Howe Rise C, Neogene evolution, 901449
 Mendoza Rise, petrology, 920613
 Miocene, Antarctica, 720986
 Miocene changes
 Atlantic Ocean, 850943
 Miocene evolution, 850943
 Mississippi Fan, bottom water, 960703
 Moroccan Basin, margin, 500817, 500818
 Nankai Trough, heat flow, 870741
 nearshore environment, 280933
 Neogene, 670752
 Norwegian Sea, bottom water, 941114
 oceanic anoxic event, Atlantic Ocean N, 801006
 oldest sediment, change, 020424
 organic geochemistry, black-colored sediments, depositional model, 800966, 800967
 organic matter
 migration, 630943
 regional control, 670598
 organic matter richness, oxygen-bearing water, 801000
 oxygen, Paleogene, 710409
 Pacific Ocean C, paleoceanography, 850947
 Pacific Ocean N, ooze, diatomaceous, 190909
 Pacific Ocean SE, paleoceanography, 920597
 Pacific Ocean SW
 Cenozoic, 300680, 300681
 Neogene, 300667
 Pacific Plate, 210902
 paleoceanography, 901502
 paleoceanography, 280931, 950511
 Reflector Lavender, 850963
 paleoenvironment, deep water, 800818, 800819
 Pendragon Escarpment, regional implications, 800980
 Porcupine Plain, bottom water, 941220
 present-day hydrological framework, Atlantic Ocean N, 800793
 principal objectives achieved, summary, New Jersey Transect, 950808, 950810
 radiolarians, bottom water, 760933
 Reykjanes Ridge, bottom water, 941220
 Rio Grande Gap, 720383, 901213
 Rio Grande Rise
 bottom water, 720861
 subsidence, 720953
 Rockall Rise, bottom water, 941114
 Rockall Trough, 941061
 bottom water, 941061
 sea level, Blake Basin, 760777
 sedimentary evolution, circulation, abyssal, 430819
 sedimentation rate, calcareous biogenic productivity, 901485
 seismic modeling, paleoceanography, conclusions
 Antarctic Bottom Water, 850968
 North Atlantic Bottom Water, 850968
 Southeast Pacific Basin, sediment distribution, 350223
 Southern Ocean, 901213
 ⁸⁶Sr/⁸⁷Sr ratio, seawater, 920502
 stratigraphy and evolution
 composite, 801185
 Goban Spur, 801182
 Pendragon Escarpment, 801183
 Porcupine Plain, 801183, 801184
 surface paleotemperature, planktonic foraminifers, 720861
 Tasman Sea S, Quaternary, 901413
 temperature gradient, Southern Ocean, 901357
 Tertiary
 Eocene, 801179
 Miocene, 801180
 Tethys, water mass, 760931
 thermohaline flow, Quaternary, 720989, 720990
 titanium, origin, 330836
 unconformity, 280931
 Walvis Ridge
 Angola Basin, 750973
 geologic evolution, 750534
 transect, 740654
 water mass, 38S0043
 West Mariana Basin, clay minerals, 590601
 see also circulation, oceanic circulation, abyssal
 Atlantic Ocean N, development, 940981
 Atlantic Ocean NE, 941122
 development, 950981
 Atlantic Ocean NW, sedimentary evolution, 430817
 carbon isotope, 850771
 ¹³C, 850772
 changes, 850771
 development, 940981
 Colombian Basin, isotope stratigraphy, 680450
 development, Atlantic Ocean NE, 950981
 Eocene-Oligocene benthic foraminifer isotope record, changes, 850775
 mud, terrigenous, deposition, 250457
 Norwegian Sea, 810683
 Pacific Ocean C, oxygen isotope, 850771, 850772
 reworked pelagic sediment, sediment grain size, 920341
 Rockall Trough, 941117, 941122
 sediment reworking, increase, 920604
 sedimentary evolution, 430817
 Blake Ridge, 430817
 bottom current, 430817
 Cenozoic, 430819
 Cenozoic erosion, 430819
 Drake Passage, 430819
 Greenland, 430818
 Greenland-Iceland Rise, 430818
 Gulf Stream, 430817
 Iceland Ridge, 430818
 North Atlantic Deep Water, 430817
 Paleogene events, 430818
 Spitsbergen, 430818
 Western Boundary Undercurrent, 430817
 tectonic, events, 430817
 circulation, atmospheric
 Atlantic Ocean S, Cretaceous, 720981
 biostratigraphy, 280922
 climate, 280936
 deposition, eolian, Southern Hemisphere, 920338
 eolian record
 hemispheric asymmetry, 920338
 intensity, 920338
 eolian sedimentation, 860589, 860596, 860601, 860602
 bottom water, 860597
 equilibrium grains, 860601
 oxygen isotope, 860597
 polar cooling, 860597
 settling velocities, 860601
 temperature gradient, 860597
 thermal gradients, 860597
 wind intensity, 860597, 860601
 general synthesis, offshore environments, 280935
 lithologies, major
 chalk, 901480
 ooze, calcareous, 901480
 Lord Howe Rise C, Neogene evolution, 901452
 Pacific Ocean NW, eolian sedimentation, 860589, 860596, 860597, 860601, 860602
 Pacific Ocean S, eolian sedimentation history, 920601
 Pacific Ocean SE, trade winds, 920331
 Pacific Ocean SW
 Neogene-Paleogene evolution, 901437
 paleoceanography, 901506
 Pacific Ocean SE, trade winds, 920331
 paleoenvironment, current patterns, 800759
 Philippine Sea, Paleogene-Neogene, 310852
 reworked pelagic sediment, 920341
 circulation, circumpolar
 deposition, bottom water, 250503
 general synthesis, glaciation, continental, 280938
 Indian Ocean S, geologic history, 260929
 micronodule, 291084
 Pacific Ocean SW, Cenozoic, 300681
 temperature gradient, Pacific Ocean S, 901357
 circulation, crustal, Hess Rise, rocks, 620868
 circulation, deep-water
 Atlantic Ocean C, basin, 511510
 Atlantic Ocean NE
 evolution, 411230, 411232, 411233
 stable isotope, 480477
 Atlantic Ocean NW, regional aspects, 110964, 110971
 Atlantic Ocean SW, basin, evolution, 361000, 361009
 Brazil Basin, 720481, 720495
 Brazil S, continental margin, 720481
 carbon isotope, patterns, 901401
 continental margin, Brazil S, 720481, 720495
 deposition, 720495, 720496
 Drake Passage, 720496
 Iberian margin W, evolution, 47B0770
 Messinian environments, pre-evaporitic setting, 42A1004
 Pacific Ocean SW, Cenozoic, 300680
 reconstruction, 220829
 Rio Grande Gap, 720481, 720495
 Rio Grande Rise, 720481, 720515, 720516
 Sao Paulo Ridge, 720481
 temperature gradient, Oligocene, 901357
 circulation, equatorial
 deposition
 bottom water, 250501
 depositional paleoenvironment, 250497
 onset, 250503
 Indian Ocean W, 250754
 circulation, hydrothermal, 680467, 680472
 age, Rio Grande Rise, 720471
 interstitial water chemistry, 680467
 Rio Grande Rise, age, 720471

- circulation, oceanic, 481149
 Antarctica, 590601
 Arabian Sea, history, 231121
 Atlantic continental margin, evolution, 950562
 Atlantic Ocean, margin, 481099, 481100, 481105, 481110, 481113
 Atlantic Ocean N, 760931
 Jurassic, 760930
 paleogeography, 121178
 Atlantic Ocean NE
 evolution, 411233
 stable isotope, 480477, 480482, 480484
 Atlantic Ocean NW, sedimentary evolution, 430801, 430802
 Atlantic Ocean S
 hiatuses, 391105
 Santos Plateau, 391108
 Atlantic Ocean SW, basin, evolution, 361000, 361008, 361009
 Bahama Islands, geology, 110882
 basalt, petrology, 460233
 biostratigraphy, paleoenvironment, 840949
 Blake Basin, 760930
 Jurassic, 760930
 carbon isotope
 ^{13}C , 720415
 change, 901401
 carbon isotope, stable, carbon isotope, 410946
 Cenozoic paleoceanography, change, 901493
 Cenozoic sedimentation
 Bering Sea, 190889
 Pacific Ocean N, 190889
 Central American Seaway, 860601
 Challenger Plateau, Quaternary, 901414, 901420, 901422
 change, isotopic evidence, 131400, 131401, 131402, 131403, 131404
 Chatham Rise, seismic stratigraphy, 901325
 clay minerals, 590597
 Colombian Basin, isotope stratigraphy, 680452
 continental margin, preservation, paleoenvironment, change, 630945
 continental shelf, onshore geology, 400974
 Costa Rica Rift, basalt, 690475
 currents, 901235
 deposition
 bottom water, 250500
 chalk, nannofossil, 250496
 ooze, nannofossil, 250496
 detrital to biogenic sediment trends, South Tasman Rise, 291071
 diagenesis, global changes, 020423
 eolian record
 Pacific Ocean N, 920337
 Pacific Ocean S, 920337
 euxinic sediment, Cenozoic organic sediments, 750852
 Falkland Plateau, shale, black, 711051
 gas, chemistry, 460233
 general synthesis
 climate, 280936
 erosion, submarine, 280939
 topographic barrier, 280938
 Goban Spur
 dinoflagellates, 800761
 evolution, 801213
 hiatuses, 481149
 hydrocarbon generation potential, organic facies, 640869
 Iberian margin W, evolution, 47B0761, 47B0768
 Indian Ocean E, lithology, 271017
 Indian Ocean S
 geologic history, 260936
 geothermal measurements, 080847
 interstitial water, Pacific Ocean SE, 920423
 Ionian Basin, 131402
 lithologies, major
 chalk, 901481
 ooze, calcareous, 901481
 lithology, 250095, 290321
 Lord Howe Rise C, Neogene evolution, 901447, 901452
 Mediterranean Ridge, 131402
 change, 131400
 isotopic evidence, 131400
 Mellish Seamount, post-Jurassic sedimentation, 620840, 620843
 Messinian environments, salinity crisis, 42A1027
 Neogene, 300667
 Neogene formations, paleogeography, 42A0918
 New Zealand, tectonics, 901235
 ocean basin, evolution, 291147, 291152
 oxygen isotope
 ^{13}C , 720415
 Miocene, 901399
 oxygen isotope, stable, carbon isotope, 410946
 Pacific Ocean N, ooze, diatomaceous, 190909
 Pacific Ocean SE
 eolian input, 920415
 trade winds, 920331
 Pacific Ocean SW
 Cenozoic, 300667, 300679, 300680, 300681, 901513
 Neogene-Paleogene evolution, 901437
 paleoceanography, 901507, 901512, 901513
 Western Marginal Basin Province, 210904
 paleoceanography
 Atlantic Ocean N, 850749
 organe, 850959
 Reflector Lavender, 850962
 paleoenvironment, 800759
 paleotemperature, *Thalassionema nitzschioides*, 850937
 Patton Escarpment, change, 630944
 Rockall Rise SW, structure, 481087
 San Miguel Island, change, 630944
 sediment reworking, Messinian, 920604
 seismic modeling, paleoceanography, conclusions, system reorganization, 850968
 seismic stratigraphy, change, 901336
 Southeast Pacific Basin, evolution, geologic, 350724
 stratigraphy
 patterns, 481087
 post-Eocene stratigraphy, 481087
 Tasman Sea S, Quaternary, 901413
 tectonic history, depositional environment, 430801, 430802
 temperature, changes, 901356
 thermohaline flow, Quaternary, 720989
 Tyrrhenian Basin, 131402
 isotopic evidence, 131400
 Tyrrhenian Rise, 131401, 131404
 barriers, 131403
 changes, 131400
 isotopic composition variations, past, 131403
 isotopic exchange, 131402
 natural isotopic gradients, 131403
 sill, 131403
 volcanism, mineral evolution, 600451
 Walvis Ridge, climatic, oceanographic evolution, 740680
 West Mariana Basin, metallogenesis, 590649
 circulation, open, Atlantic Ocean SW, basin, evolution, 361001
 circulation, surface
 Atlantic Ocean S
 Cretaceous, 720980
 Paleogene, 720983
 California, continental margin, 630757, 630760
 coarse fraction variation, 901210
 diatom paleoclimatology, modern patterns, 850935
 general synthesis
 biostratigraphy, 280927
 lithology, 280927
 Goban Spur, planktonic foraminifers, 800793
 Iberian margin W, evolution, 47B0770
 Philippine Sea, Paleogene-Neogene, 310852
 Rio Grande Rise, climate, 720878, 720879
 thermohaline flow, Quaternary, 720989
 circulation, thermohaline
 Angola Basin, geologic evolution, 750522
 Arabian Sea N, sediment history, 230504
 Atlantic Ocean S
 Argentine Basin, 391120
 Cretaceous, 720980, 720981
 hiatuses, 391104, 391105
 Malvinas Outer Basin, 391112
 cessation, 720978
 cooling, 710417
 generation, 280939
 geologic, oceanographic setting, 850973
 initiation, 720978
 limestone, Cretaceous, 620889
 lithology, 130150, 130158
 Miocene
 Antarctica, 720986
 Messinian salinity crisis, 720987
 Northern Hemisphere, glaciation, 720988
 principal objectives achieved, summary, New Jersey Transect, 950809
 Rio Grande Rise, mineralogy, 720995
 summary, conclusions, 710419
 turbidites, deposition, 250454
 Walvis Ridge, transect, 740658
 circulation, vortical
 deposition, 250503
 bottom water, 250501
 depositional paleoenvironment, 250499
 Circum-Antarctic Current
 Atlantic Ocean S
 Argentine Basin, 391121
 hiatuses, 391105
 Atlantic Ocean SW, basin, evolution, 361008
 Cenozoic paleoceanography, development, 901493
 Chatham Rise, seismic stratigraphy, 901327
 clay minerals, Tertiary, 291082
 continental shelf, onshore geology, 400973
 development, 291155
 Indian Ocean S, geologic history, 260937
 latitudinal thermal gradients, development, 901358
 lithology, 390350
 major boundaries, hiatuses, 901467
 Mesozoic, Cenozoic, 710452
 Miocene, Antarctica, 720986
 oceanography, surface currents, 270387
 oxygen isotope, Pliocene, 901399
 Pacific Ocean SW
 Cenozoic, 901514
 oxygen isotope, 901347, 901348
 paleoceanography, 901500, 901501, 901502, 901512
 Western Marginal Basin Province, 210898
 paleoceanography, organe, 850959
 Rio Grande Rise N, regional setting, 250699
 seismic modeling, paleoceanography,

- seismic modeling (Cont.)
conclusions, 850967
seismic stratigraphy, erosion, 901334
Southeast Pacific Basin, sediment distribution, 350223, 350226
southwest regional unconformities, diversion, 210900
temperature gradient, 901357
Circum-Atlantic Current, Indian Ocean E, surface currents, 270387
Circumpolar Countercurrent, Southeast Pacific Basin, evolution, geologic, 350732
Circumpolar Current, 260135
Atlantic Ocean S
hiatuses, 391099
Paleogene, 720985
Atlantic Ocean SW, basin, evolution, 361006, 361008, 361009
climate, 280936
inception, 280939
lithology, 280055, 290202, 290239, 290284, 290285, 290330, 290377, 360156
Pacific Ocean SW, Cenozoic, 300680, 300681
Southeast Pacific Basin, sediment distribution, 350223
thermohaline flow, Quaternary, 720989
Circumpolar Deep Water, 280910, 710118, 710469, 720876, 720878, 720907, 720908, 720909, 720912, 720913, 720914, 720918, 720977, 720978, 800811
Atlantic Ocean, circulation, 720977
glacial cycles, deep-sea environment, 800811
Circumpolar Deep Water, Upper Branch, deposition, 250496
Circumpolar Water, 720023, 720028, 720029, 720897, 720903, 720905, 720988
Atlantic Ocean SW, basin, evolution, 360996
Miocene, Messinian salinity crisis, 720987
Rio Grande Rise, mineralogy, 720996
thermohaline flow, Quaternary, 720989
Circumpolar Water, Upper Branch, 720028, 720029, 720855, 720861
Cisco, Utah, 640574
Ciudad Real, 130770
Claiborne Group, 110549, 730632, 730633
Clarion fraction Zone, Line Islands, tectonics, 330744
Clarion Fracture Zone, 050309, 050367, 050443, 080018, 080061, 090330, 090455, 090493, 090913, 160003, 160231, 160265, 160301, 160365, 160529, 160573, 170017, 170021, 170022, 170911, 330679, 330744, 330915, 330918, 330922, 540037, 630351
block, 160365, 160651, 170047
Clipperton Fracture Zone, abyssal hill, 160411
Hess Rise, rocks, 620863
Line Islands, tectonics, 330731, 330732, 330739
New England Seamounts, 330679
Pacific Ocean E, tectonic and depositional history, 160939
Pacific Ocean EC, geologic history, 090909, 090913
Pacific Ocean NE, regional aspects, 050624, 050630
tectonic evolution, 160939
clast, 010570, 47B0683, 580643, 890403
alteration
conglomerate, volcanic, 300483
products, 810738
remnant arc debris, 590739
sandstone, vitric, 300483
altered rocks, basalt, 590735
Atlantic Ocean C, Rio Grande Rise, 391125
Atlantic Ocean N, sedimentation, 120909
Atlantic Ocean NC, Mesozoic sequences, 410999
Atlantic Ocean NW
lithology, 110911
regional aspects, 110967
sedimentary evolution, 430813
Atlantic Ocean S
Paleogene, 720983
Rio Grande Rise, 391125
Atlantic Ocean SE, Cretaceous, 740773, 740774, 740779
Atlantic Ocean SW, basin, evolution, 360994
basalt
geochemistry, 590781, 590783
pyroxene, 590697, 590698, 590699
bioclasts, Eocene, 580643, 580646
Blake Basin, 760733, 760737
Brazil Basin, Recent-Eocene sedimentation, 721001
calciurbidites, carbonate, 500740
chert
geochemistry, 620723
petrology, 620723
clay, 960509
ooze, radiolarian, 020418
conglomerate, 580643, 580644
bioclasts, 580646
hydrothermal mineral, 580646
limestone, 580646
sandstone, hyaloclastic, 580646
cycle description, CaCO_3 , 750912
Daito Ridge, 580629, 580634, 580635, 580640
conglomerate, 580644
deposition, clay, 960490
disaggregation, 010570
Emperor Seamounts, mineralogy, 550464
evaporites, Red Sea, 230918
geochemistry
igneous rocks, 370747
Rockall Plateau, 810738
glaciation
detritus, 360857, 360858
onset, 280759
glass, basalt, 650482
grain size, 010326
Greenland Sea, 38S0224
basalt, 38S0242
claystone, 38S0224
mudstone, 38S0224
turbidites, 38S0224
Guatemala, offshore sediment, 840621
Hess Rise, 621041
hyaloclastite, glass, 650482
hydrothermal mineral, 580646
igneous rocks, 580632
intraslope basin, carbonate, 960619
Japan Trench
geology, 870706
Miocene, 561009
Jurassic-Cretaceous, carbonate, 790879
limestone, 890403
Cretaceous, 620885
lithology, 010570, 280222, 280223, 280232, 280339, 290039, 310030, 360031, 380027, 380161, 380525, 380530, 390240, 400043, 42B0143, 42A0327, 430045, 430166, 47A0027, 47A0030, 490104, 500128, 580644, 960479
basalt, 430043
gypsum, 42A0036, 42A0037
ice rafting, 280156, 280374, 350042
limestone, 42A0328
limestone, fossiliferous, 390240
Mesozoic deposits, 47B0053
mud, 430205, 960479
mud, terrigenous black, 130369
Oxfordian-Kimmeridgian, 110226
sandstone, terrigenous, 130369
sandstone, volcanic, 120366, 310198
shallow-water, 060543
siltstone, volcanic, 310198
source, 280340, 280343
Tithonian-Neocomian, 110226
tuff, 310194
Mariana Trough
basalt, 600614
metagabbro, 600614
Mazagan Escarpment, 790903, 790914
Mesozoic evolution, 440956
metamorphic rocks, 580632
middle fan overbank, clay, 960509
Mississippi Fan, sediment, 960432
Norwegian Sea, 38S0224
basalt, 38S0242
claystone, 38S0224
Greenland Sea, 38S0270, 38S0272
mudstone, 38S0224
turbidites, 38S0224
pelagic ooze content, 010570
petrology
clay, 960500
gravels, 960494
silt, 960500
polymict breccia, 600647, 600648, 600649
rare earth elements, tuff, 590654, 590655
red beds, 38S0272
turbidites, 38S0270
reef, limestone, 580643, 580646
Rio Grande Rise, Eocene sedimentation, 721007
Ross Sea, basement, 280865
sand
lower fan channel, 960513
ooze, radiolarian, 020418
sand, glauconitic, 291152
sandstone, 320542, 320543
sandstone, hyaloclastic, 580646
Sanriku, sandstone, 561156
sediment history, ice rafting, 280785
sediment record, Southern Ocean, 710476
sediment texture, 960484
siltstone, sorting, 320542
tectonic, Cretaceous/Tertiary boundary, 430813
tholeiite
geochemistry, 590682
petrology, 590682
turbidites, volcanic, 890369, 890371
carbonate, 890369
volcanic rocks, ages, 550660
volcaniclastics
Eocene, 720957
volcaniclastic matter, 550503
clast, basalt
East Mariana Basin
geochemistry, 890449
sedimentary history, 890667
source, 890449
geochemistry, East Mariana Basin, 890449
source, East Mariana Basin, 890449
clast, clay
lithology, 220216, 380163
Mid-Labrador Sea Ridge, Eocene, Oligocene, Pliocene, 121186
volcaniclastics, 330876
clast, claystone
Greenland Sea, basalt, 38S0241
lithology, 380164, 440167
red beds, sedimentary structure, secondary, 38S0268
clast, crystalline
Mariana Islands, 600615

- tholeiite, geochemistry, 590682
 clast, doleritic, Mariana Trough, 600614
 clast, dolomitized, red beds, sedimentary structure, 38S0263
 clast, gabbroic, Mariana Trough, 600614
 clast, glacial ice, Peter I Island, geology, 350346
 clast, grainstone, lithology, 090038
 clast, ice-rafted
 Atlantic Ocean S, Malvinas Outer Basin, 391112
 Atlantic Ocean SW, basin, evolution, 360994
 Pacific Ocean N, ash, 190909
 sediment record, ice rafting, 710469
 clast, limestone
 Atlantic Ocean N, Mediterranean Sea, 110812
 Galicia Bank, tectonics, 47B0666
 lithology, 060297, 060299, 440074
 Mazagan Escarpment, slope, 790464
 sedimentation, tectonics, 47B0666
 clast, lithic, 580629, 580631, 580632, 890402, 890403, 890404
 Atlantic Ocean SE, Cretaceous, 740771, 740773
 basalt, aphyric, 580632
 conglomerate, 580632
 basalt, plagioclase phyrlic, 580632
 conglomerate, 580632
 basalt, plagioclase-clinopyroxene, 580632
 conglomerate, 580632
 conglomerate, 580631
 Daito Ridge, 580629
 basalt, 580632
 basalt, plagioclase phyrlic, 580632
 basalt, plagioclase-clinopyroxene, 580632
 microdolerite, 580632
 phenocrysts, 580632
 schist, hornblende, 580633
 lithology, 380527
 microdolerite, 580632
 conglomerate, 580632
 phenocrysts, 580632
 conglomerate, 580632
 Ross Sea, basement, 280866, 280867
 schist, hornblende, 580633
 conglomerate, 580633
 clast, mud
 deposition, current, 280728
 lithology, 180100, 180289, 400368, 430213
 ooze, marl, 130065
 Orca Basin, lithology, 960574
 clast, mudstone
 Guatemala, slope sediment, 840930
 lithology, 100091
 Norwegian Sea
 basalt, 38S0241
 Voring Plateau, 38S0248
 clast, mudstone-claystone, red beds, sedimentary structure, 38S0263
 clast, nannofossil chalk
 lithology, 230297
 sand, 370242
 clast, nannofossil siltstone, lithology, 230297
 clast, ophiolitic, Middle America Trench, Oligocene-Miocene, 840954
 clast, phosphorite, lithology, 440074, 440075
 clast, plutonic, lithology, 280343
 clast, porphyritic, basalt, geochemistry, 590788
 clast, pumice
 lithology, 870811
 Middle America Trench, 840609
 mud, 870916
 Nankai Trough, turbidites, 870916
 physical properties, 870811
 regional setting, 870798
 Shikoku Basin, 870915
 clast, rip-up, 250093, 250094, 310511, 330045, 38S0264, 38S0269
 calciturbidites, Atlantic Ocean, 500747
 Cape Bojador, continental margin, 47A0781
 lithology, 250093, 250094, 330045, 47A0027
 lower channel-overbank deposit, 960510
 Norwegian Sea, Greenland Sea, 38S0264, 38S0269, 38S0271
 red beds
 sedimentary structure, 38S0264
 turbidites, 38S0269, 38S0271
 sand
 Pacific Ocean NW, 310512
 petrology, 660527
 sedimentary structure, discontinuous, irregular structure, 960521
 source, mineralogy, 660527
 turbidites, sedimentary structure, 250449
 clast, volcanic
 basalt
 geochemistry, 590781
 pyroxene, 590694, 590703
 basement
 geochemistry, 600653
 petrography, 600653
 chert
 geochemistry, 620725
 petrology, 620725
 Cretaceous, Hess Rise, 620961
 glass, basalt, 650479
 Hess Rise, 620961, 621041
 Cretaceous, 620961
 petrology, 620961
 pyrite-marcasite, 620855
 tectonic significance, 620961
 hyaloclastite, basalt, 650479
 limestone, 510759
 lithology, 330308, 480176, 510047
 Manihiki Plateau, 330882
 deposition, 330884
 ferromanganese-coated, 330882
 Mariana Trough, 600614
 petrology, Hess Rise, 620961
 sediment, Hess Rise, 620961, 621041
 tectonic significance, Hess Rise, 620961
 clathrate
 Atlantic continental margin
 lower continental rise, 100791
 mineralogy, 110783
 sediments, 100791
 Atlantic Ocean NW, regional aspects, 110972
 Blake Ridge, 950607
 gas, natural, 100797
 carbonate nodule, authigenic, 870664
 (CH₄ 6H₂O), 870664
 formation, 870664
 dolomite, diagenetic, mud, anoxic
 diatomaceous, 640555
 gas hydrate, 670610
 stability, 670610
 gas, natural, zonation, 110791, 110797
 hydrocarbon, gas, residual, 42B0679
 Middle America Trench, transect, 670610
 Nankai Trough, geochemistry, 870912
 Pacific Ocean N, ooze, diatomaceous, 190911
 clathrate, urea, preliminary organic analyses, 111016, 111018
 claxirudite, cementation, 41S0968
 clay, 010522, 010540, 020418, 100117, 100119, 100125, 100168, 100171, 180234, 180450, 190633, 190634, 220743, 291049, 291050, 291052, 291055, 300432, 300433, 300434, 360880, 360886, 38S0054, 38S0062, 38S0064, 411087, 42B0435, 42B0486, 47A0579, 47A0583, 47B0687, 510708, 510721, 580670, 580671, 580672, 580684, 580686, 580707, 580971, 590603, 650675, 650685, 670520, 670538, 860549, 860550, 860552, 860562, 860564, 860569, 860571, 860572, 860589, 860605, 860657, 890398, 920598, 960433, 960557, 960579, 960580
 accretionary prism, diagenesis, 870953
 accumulation rate, 220743
 eolian, 860563
 acoustic properties, 860549, 860560
 burial depth, 860560
 diagenesis, 860549
 acoustic property correlations, 860567
 density, 860567
 porosity, 860567
 Africa, continental margin NW, 410967, 410968, 410970, 410973, 410974, 410975, 410977, 410979, 410980, 410981, 410982, 410983, 410984, 411126
 Africa E, continental rise, 250519
 age data, 860562
 agglutinating foraminifers, 291055
 Al, 860605
 substitution, 960580
 Alaska, Gulf of, turbidite, silt, 180853
 algae, calcareous, 300432
 Algeria, continental shelf, 42B1181, 42B1183
 alteration
 mineralogy, 460304
 Pacific Ocean N, 620559
 products, 450615, 511274
 remnant arc debris, 590737, 590738, 590739, 590740
 sand, 300483
 siltstone, 300483
 alteration, low-pressure, basalt, 370776
 alteration, low-temperature
 basalt, 490710
 mineral, secondary, 460304
 mineralogy, 050531, 270552, 370826, 511185
 olivine, 180941
 amino acid, acid hydrolysate, 680475
 amorphous precipitates, iron oxide, 050543
 Angola Basin, 400537
 biostratigraphy, 750449
 Cape Basin, 400537
 clay mineralogy, 750846
 geochemistry, 750846
 anoxic, 860571
 Antarctica
 geochemistry, 350404
 major element, 350427
 minor element, 350427
 oceans, 291049
 Arabian Sea
 history, 231115
 sediment history, 230509, 230511, 230513, 230514
 Arabian Sea N, sediment history, 230506
 ash
 glass, 050531
 Middle America Trench, 660687
 mineral composition, 38S0105
 mineralogy, 38S0105
 Asia E, source, 860576
 Assemblage IIA(+), 710395
 association, Pacific Ocean SW, 901225
 associations, New Zealand, 901225
 Atlantic continental margin, interstitial
 water chemistry, 090843
 Atlantic continental margin NW, evolution, 440957
 Atlantic Ocean
 Cenozoic sediments, 140791, 140792,

- Atlantic Ocean (Cont.)
 140793, 140795, 140796, 140825, 140827,
 140828, 140831, 140832, 140859, 140862,
 140871
 Cretaceous sediment, 140791, 140792,
 140793, 140795, 140796, 140825, 140827,
 140828, 140831, 140832, 140859, 140862,
 140871
 geochemistry, 47B0431, 47B0434, 47B0435
 grain size, 040295, 040305
 mineralogy, 47B0431, 47B0434, 47B0435
 volcanic influence, 860576
 Atlantic Ocean C, basin, 511505, 511506,
 511507
 Atlantic Ocean N, 140969, 790498
 Mediterranean Sea, 110811, 110816
 mineralogy, 020330, 481091, 481092,
 481094, 481095, 481096, 481097
 sedimentation, 120915, 120928
 Atlantic Ocean NC, Mesozoic sequences,
 410993, 410996, 411004, 411007
 Atlantic Ocean NE, evolution, 411225,
 411229, 411240, 411243
 Atlantic Ocean NW
 lithology, 110905, 110924, 110928,
 110929, 110932, 110942
 microfacies, 440482, 440485, 440486,
 440488, 440489, 440490057clay
 regional aspects, 110956, 110957, 110960,
 110967, 110971
 sedimentary evolution, 430811, 430815
 sedimentation, 440975, 440977
 Atlantic Ocean S
 history, 740715, 740717, 740718, 740719,
 740721, 740722, 740723
 Malvinas Outer Basin, 391109
 Atlantic Ocean SE
 paleoenvironmental evolution, 740666,
 740670, 740672, 740673, 740677
 sedimentary evolution, 400999
 Atlantic Ocean SW, 710351
 basin, evolution, 360994, 360996, 361003,
 361004, 361005, 361006, 361008
 paleoenvironment, 710340
 Atlantic Ocean W
 Aves Ridge, 040666
 Brazil Basin, 040659, 040660
 Demerara Plain, 040662
 mineralogy, 481091
 Australia W, continental margin, 270575,
 270576, 270578, 270581
 authigenic minerals, 291053
 iron, 291053
 manganese nodules, 291053
 Aves Ridge, 040666
 Ba, 860605
 Ba/Zr ratio, geochemical significance,
 710402
 Bahama Islands, geology, 110877, 110879
 Baja California Seamount Province,
 microfossil poor, 630939
 Balearic Plain, mineralogy, 130678
 Balearic Rise, mineralogy, 130676, 130677
 Barbados Ridge, 780618
 Cenozoic evolution, 780343
 Barremian-Aptian, $^{86}\text{Sr}/^{87}\text{Sr}$ ratio, 620782
 Bartonian, 810517
 basalt, 370776
 basement, mineralogy, 110874, 110875
Bathysiphon, 291055
 beef-in-shale, 360865, 360866
 benthic foraminifers, 291055
 benthic foraminifers, changes,
 Holocene-Pleistocene, 960633
 Bermuda Rise
 basalt, 511122, 511204
 geochemistry, 511515, 511516, 511518
 Biscay, Bay of N, continental margin, 481038
 Biscay, Bay of, shale, black, 480846, 480847
 Biscay Plain, Eocene-Paleocene, 121189
 bivalve fragments, 291055
 Black Sea
 evolution, 42B1142
 sedimentation history, 42B0512
 sediments, 42B0374, 42B0385
 Blake Ridge, 760411
Bolivinopsis spectabilis, 291055
 boron, Miocene/Pliocene boundary, 47A0554
 bottom current, 291052
 erosion, 490862
 sedimentation, 490862
 boundary, 860562
 Brazil Basin
 fabric, 720519
 geochemistry, 720422, 720425
 sedimentation comparison, 721004
 bryozoan fragments, 300432
 bulk density, 860557
 burial depth, 860557
 porosity, 860557
 water content, 860557
 bulk mineralogy, 860552
 chlorite, 860552
 feldspar, 860552
 illite, 860552
 illite-smectite, 860552
 kaolinite, 860552
 palygorskite, 860552
 quartz, 860552
 silica, opaline, 860552
 zeolite, 860552
 burrow mottling, 291050, 291052
 diatom, mineralized, 291052
 glauconite, 291052
 micronodule, 291052
 modified beds, 291050
 pyritized material concentration, 291052
 silt, 291050, 291052, 291053
 stratiform, 291050
 stratigraphic variation, 291050
 burrows, 291050
 oblique elliptical, 291050
 calcite, 47A0579
 sandstone, 47A0579
 siltstone, 47A0579
 calciturbidites
 Atlantic Ocean, 500747
 carbonate, 500738
 calcium, 860605
 effect, 850815
 California, Gulf of, 650343, 650453,
 650460, 650463, 650465, 650467
 gulf mouth, 650363, 650406, 650410,
 650415, 650431
 mouth sediments, 650439
 postrifting, 640571, 640587, 640590
 Quaternary, 650460, 650471
 sediment distribution, 650471
 sedimentation rate, 650471
 Campbell Plateau, 291049
 crust, continental, 291049
 Campeche Bank, sediments, 100007, 100014
 Campeche Escarpment, sediments, 100025
 Cape Basin, 400537
 Cretaceous to Pliocene, 400488, 400494
 sedimentary features, 400537
 Cape Bojador
 continental margin, 47A0781
 lithologic classification, 500017
 Caravaca, Spain, Cretaceous/Tertiary
 boundary, 730758
 carbon, organic, turbidites, 870878
 carbon
 deep-sea sediments, 580745
 distribution, 390501
 carbon isotope
 faunas, 410960
 sediments, 410960
 carbon isotope, stable
 carbonate, 410947
 effect, 410944, 410945
 fluid movement, 410947
 pore water chemistry, 410947
 pressure solution, 410947
 carbonate, 220743, 47A0579, 960579
 diagenesis, 210505
 distribution, 390501
 interstitial water, 850815
 petrology, 540327
 carbonate cycle, 410973
 carbonate nodule, 680482
 Caribbean Sea, 150923
 sediments, 150929, 150938
 Caroline Abyssal Plain, chalk, 200066,
 200067, 200068
 cations, absorbed, 47B0687
 calcium carbonate, 47B0687
 potassium, 47B0687
 sodium, 47B0687
 cement, 400048, 401027, 401040
 Cenozoic, 780347, 901225
 chlorite, 780343
 composition, 860605
 diagenesis, 780345
 environmental indicators, 780345
 Eocene, 780345
 erosion, continental, 780345
 illite, 780343
 kaolinite, 780343
 Lesser Antilles, 780346
 metamorphism, 780345
 mineralogic evolution, 780344
 mineralogy, 780347
 Miocene, 780346
 ocean currents, 780345
 Oligocene, 780346
 Pacific Ocean SW, 901225
 Pliocene and Pleistocene, 780346
 smectite, 780343
 South America, 780346
 Cenozoic evolution, Barbados Ridge, 780330,
 780343
 Cenozoic sedimentation
 Bering Sea, 190891
 Pacific Ocean N, 190891
 Cenozoic sediments
 lithology, mineralogy, geochemistry,
 450326, 450330
 mineral composition, 42B0413
 chemical composition, metal, 571263
 chemical and mineral composition, 350467
 basalt, 350473
 chemistry, 190631, 370824, 370826, 860552,
 860555
 Atlantic Ocean NW, 650418
 green Fe-K-rich type, 370827
 K/Ar age, 550688
 major element, 860555
 oxides, 860555
 saponite, Mg-rich, 370827
 sediment chemistry, 650418
 trace elements, 860555
 vein, 370826
 vesicle, 370826
 chert, 210108, 291052, 320430, 320436
 breccia, 320439
 Cretaceous, 430438
 density, porosity, sonic velocity, 320439

- diagenesis, 170382
- formation, 320445
- geochemistry, 620712, 620713, 620720, 620724, 620728
- mineralogy, 320442
- oxygen isotope, 620749, 620756
- petrography, 320442
- petrology, 620712, 620713, 620720, 620724, 620728
- porcellanite, 320445
- siliceous sediments, 320443
- chlorite, 291053, 960580
- abundance, 291053
- classification, 780015
- clastic sediment, Cretaceous, 401029, 401030, 401034, 401040
- clay, authigenic, Mariana Islands, 600471
- clay, kaolinitic, 020418
- clay mineralogy, 750865
 - diagenetic history, 750865
 - gulf mouth, 650372
 - mixed layer, 750862, 750865
 - montmorillonite-illite, glauconitic, 650369
 - montmorillonite-illite-chlorite assemblage, 650368
- Orca Basin, 960711
 - organic material, 650372
- clay, nannofossil, glass, 300432
- clay, palygorskite sepiolite, barren, 020417
- clay, red, 020418
 - Miocene, 730520, 730524, 730526, 730527
- clay, siliceous, 271005
- clay, terrigenous, 291059, 291148
 - burrow mottling, 291149
- clay, zeolitic, 300432
- claystone, 47B0685
 - basalt, 550707, 550709
- claystone, siliceous, 271005
- climate, Africa NW, 47A0643
- clinoptilolite, Atlantic Ocean NW, 430464, 430469, 430470, 430471, 430472
- Cocos Plate
 - basalt, 660703
 - geochemistry, 660683, 660684
 - sediments, 670608
- compressional velocity anisotropy, 860560
- compressional-wave velocity, 860560
 - burial depth, 860561
 - horizontal, 860560
- cone-in-cone texture, 360865, 360866
- conglomerate, 580647
- consolidation, 310570, 310571, 510708
 - shear strength, 960799
 - testing, 960801
- contacts, 950560
- continental margin, shallow depth origin, 020418
- continental margin sedimentation, 280731
- continental margin sediments, 280738
 - turbidite, 280736
- continental shelf, onshore geology, 400967, 400973
- continental slope basins, 960706
- coral, 291055
- Coral Sea, Eocene, 300419
- Coral Sea E, geology, 300660, 300661
- Costa Rica Rift
 - alkali, 690490
 - alteration minerals, 690555
 - carbonate, 690462, 690468
- Costa Rica Rift Zone
 - basalt, 830225, 830228, 830238
 - stockwork-like zone, 830267
- Cretaceous black, 510721
- Cretaceous-Paleocene sequence
 - petrography, 47B0419
 - sedimentology, 47B0419
- Cretaceous/Tertiary boundary
 - lithology, 720950
 - mineralogy, 620851, 620852
 - paleoenvironmental history, 740687, 740688, 740689, 740690, 740691
- crust
 - alteration, 370825, 370826
 - basalt, 370826
 - fracture zone, 920307
- crust, oceanic, 830486, 830487
 - aging, 511567
- crystal content, 590603
- crystallite, 960580
- currents, Miocene, 901234
- Cyclammina*, 291055
- cycle description
 - accumulation rate, 750910
 - carbonate cycle, 750920
 - upwelling, 750917
- Daito Basin, 580676, 580684, 580971, 580987
 - origin, 580686, 580687, 580688, 580689
 - porosity, 580987
 - sedimentation, 580683
 - smectite, 580987
 - sonic velocity, 580987
 - water content, 580987
 - wet-bulk density, 580987
- Deccan Trap, 230506
- deep-sea trench, sedimentary facies, 670610
- deformation, mudstone, 280977, 280978
- Demerara Plain N, 040662
- density, 320961, 870838
- deposition, 250503, 291056, 360881, 710351, 710355, 710357, 960490
 - alteration, 710357
 - bottom water, 250502, 291056
 - calcareous sediment, 220767
 - carbon, organic, 291056
 - carbonate compensation depth, 291056
 - chalk, nannofossil, 250493, 250495
 - circulation, 291056
 - circulation pattern, 291059
 - clast, 960490
 - climate, 710357
 - climatic conditions, source area, 710356
 - cool water introduction, 291059
 - current, 280728
 - detrital sedimentation rates, 291059
 - distribution, 710351, 710352, 710353, 710354
 - erosion, 710357, 710358
 - fossil paucity, 291059
 - Lesser Antilles, 780304, 780307
 - manganese nodules, 291056
 - ooze, nannofossil, 250493, 250495
 - ooze, nannofossil foraminiferal, 291059
 - ooze, siliceous, 291059
 - oxygenated environment, 291056
 - planktonic microfossils absence, 291056
 - Portugal, 47B0377, 47B0381
 - postsedimentary, 710358
 - pyrite, 291056
 - stratification, primary, 291056
 - warm water introduction, 291059
- deposition, eolian, Pacific Ocean SE, 920336
- depositional history, Pleistocene, 960660
- detrital vs. diagenetic imprint, 860563
 - illite-smectite, 860564
 - palygorskite, 860564
- diagenesis, 020421, 860549, 860571, 870636
 - acoustic properties, 860549
 - carbonate, 210505
 - Cenozoic, 870636
 - clay minerals, 600467
 - electrical properties, 860549
 - Gulf of Mexico, 960584
 - Mesozoic, 271013, 271014
 - mineralogy, 860549
 - Miocene to present, 690358
 - Mississippi River, 960584
 - organic matter, 870877
 - Pigmy Basin, 960583
 - sediments, 750857, 750861
 - silica, 950505
 - slope sediments, 840573, 840576
- diagenesis, burial, ooze, carbonate, 790404
- diatoms, 010522, 010523, 300432
 - benthic foraminifers, 010522
- deposition, 010522
- North America, 010522
- stratigraphy, 010522
- turbidites, 010522
- dispersal mechanism, 300434
- dissolution
 - carbonate, 400988, 400990, 400998
 - nannofossil, 300433
- distribution, 560981, 960485
- dolomite, 020419
- East Mariana Basin
 - micromorphology, 890416, 890417, 890418
 - sedimentary history, 890656, 890667
- East Pacific Rise, sediments, 650425, 650426
- electrical conductivity, 860558
- electrical resistivity, 860552, 860558, 860559
 - burial depth, 860559
 - formation factor, 860559
 - horizontal, 860559
 - porosity, 860558
- Emperor Seamounts, 830605
 - mineralogy, 550463, 550464, 550466, 550468, 550470, 550471, 550472, 550473
 - petrology, 550511, 550516, 550522, 550572, 550573, 550574, 550576, 550577, 550578, 550579, 550580, 550581, 550582
- empirical correlation, discussion conclusion, tectonically disrupted, 870837
- England S, London, 800644
- Eocene, 580684, 580686
 - ash, glauconitic, 580686
 - ash, siliceous, 580686
 - chert, 580684
 - claystone, 580686
 - mudstone, 580686
 - ooze, siliceous, 580684
 - siliceous microfossils, 580686
- Eocene graded beds, 020418
- Eocene to Oligocene, 580684
 - chalk, nannofossil, 580684
- Eocene to Pleistocene, 580683
 - effects, 580683
 - effects of tectonics, 580683
 - volcanism, 580683
- eolian flux, 850564
- eolian supply, 860571
- euxinic sediment, Cenozoic organic sediments, 750852
- evolution, Cenozoic, 780343
- fabric, 720519
 - compaction, 720519
- Falkland Plateau E, sedimentation, 360880, 360884
- fan, submarine, Toyama Trough, 310490
- faults, fractures, sand-filled fracture, 870819

- faults (Cont.)
870819
fauna, 291054, 291055
faunal changes, Mississippi Fan, 960632
feldspar, 300432, 300434, 47A0579, 960579
feldspathic sediment, 200359
abyssal, 200359
ferromanganese sediment
iron-rich sediment, 190633, 190634
lithologies, 190630, 190631
volcanics, 190634
volcanics, iron-rich, 190633, 190634
ferruginous sediments, 160601
flora, 291054, 291055
Florida, Straits of, paleoenvironment, 770381, 770383
foraminifer tests, isoleucine, 370633, 42A0489
foraminifers, 300432
formation, 650675
Galapagos Fracture Zone, East Pacific Rise, 540400, 540404
Galapagos Islands, hydrothermal field, 540812
Galapagos Spreading Center, 540322
Galicia Bank, 47B0440
tectonics, 47B0666
Ganges Fan, 220825
gas hydrate, trench slope, 670607
Geisha Guyots, 200682
general synthesis, nearshore environment, 280934
genesis, 411087
geochemical history
Jurassic-Cretaceous, 710406
sedimentation, 710404, 710405, 710406, 710436, 710437
geochemistry, 47A0583, 47B0687, 540372, 620851, 660684, 810715, 950569
Cenozoic sediments, 42B0587
concretion, 810715
Cretaceous and Cenozoic sediments, 480708, 480711
high metal concentration, 660684
iridium, 950569, 950570
mineral, secondary, 450615
mineralogy, 620851
mud, 660684
Pacific Ocean, 620852
platinum, 950569
recrystallization, 810715
smectite, 540372
geologic setting, 840923
geological, geophysical setting, 390948
geophysical parameters, 860549
geophysical studies, 960427
geotechnical properties
Mississippi Fan, 960824
Pacific Ocean NW, 860723
geothermal measurements, discussion, sediment permeability, 901322
glacial sedimentation, 280763
glaciation
onset, 280758
Pliocene-Pleistocene, 120953
glass, basalt, 050531
glass, volcanic, 300434, 860572
Pacific Ocean NW, 200389
glassy, 050525
volcanic origin, 050529
glauconite, 020418, 291053
clay minerals, 291053
green, 291053
mica, 291053
mineralogy, 250427
potassium-argon age, 361071
siliceous microfossils, 291053
Goban Spur
continental slope, 800693
geochemistry, 801039
Quaternary sediments, 800683
grain size, 010325, 010326, 010333, 231127, 42B0427, 42B0433, 42B0435, 42B0445, 42B0449, 630965
Greenland Sea, 38S0216, 38S0217, 38S0221, 38S0225, 38S0248
basalt, 38S0241
clay minerals, 38S0232, 38S0233
geologic setting, 38S0193, 38S0197, 38S0205, 38S0210, 38S0214
regional conclusions, 38S0250, 38S0251
Voring Plateau, 38S0200
greensand, glauconite, 291053
Guadalupe Island, petrography, 630688
Guatemala
slope sediment, 840630
trench, 670520
upper slope, 840929
hematite, 010540
Hess Rise, 621039, 621045, 621046, 621049, 621056, 621058, 621071
basalt, 620561
iridium, 620847
post-Jurassic sedimentation, 620821
rocks, 620864
Hess Rise N
post-Jurassic, 620805, 620816, 620817
sedimentary sequences, 620759, 620760, 620761, 620762, 620763, 620764, 620765, 620766, 620767
Honshu NE, diagenesis, 561119
hydrate, high-porosity lithologies, 670592
hydrocarbon generation potential
Middle America Trench, 660545
organic facies, 640866
organically impoverished, 660545
hydrogen isotope, sediments, 700322
hydrothermal activity, crust, oceanic, 540314
Iberian Peninsula, 47B0440
Iceland Basin, Cenozoic sediments, 38S0075
igneous rocks, chemistry, 630733
illite, 220743, 960579
Indian Ocean, Mesozoic, 270481
Indian Ocean C, 240679, 240690
noncarbonate sediment, 220492, 220497
Indian Ocean E
abyssal plain sediment, 271007, 271017
grain size, 270517, 270518, 270519
lithology, 271002, 271008, 271010, 271014, 271015
Indian Ocean NE
Cretaceous, 220720, 220723, 220733, 220734, 220737, 220743, 220767
sediment history, 220723, 220763, 220764, 220767
Indian Ocean NW, grain size, 250417, 250422, 250423, 250446, 250447
Indian Ocean S, 291049
geologic history, 260914, 260930, 260932, 260941
Indian Ocean SW, iron-rich sediment, 250396
Indian Ocean W, 240658, 240672, 240675, 240678, 241049
basal metalliferous sediments, 241070
clay minerals, 241056
geochemistry, 250405, 250406
lithology, 250740
mineralogy, 130605
regional aspects, 250756, 250757
Somali Basin, 241049
terrigenous components, 240662
Indus Fan
sand, 230486
sedimentation, 230482, 230483
infauna, 291052
carbon, organic, 291052
inorganic chemistry, Pleistocene, 440580
inorganic geochemistry, bulk composition, 430675
inorganic geochemistry, sediments, rocks, 750951
Angola Basin, 750925
Hess Rise, 620688, 620693
Walvis Ridge, 750950
interpretation, 960484
interstitial water, 080864, 090845, 111004
diagenesis, 350422
major ions, 920424
interstitial water, geochemistry, diagenesis, 640691
interstitial water, mineralogical studies, 410907
interstitial water, organic geochemistry, California, Gulf of, 640934
intraslope basin, 960619
Holocene, Wisconsin, 960621
intraslope basin organic matter, Holocene, 960753
iron, 010540, 860605, 960580
iron-rich sediment, Pacific Ocean, 330835
isotopic composition, oxygen isotope, 370607
isotopic study, interstitial water, 590636
Israel, history, 42B1214
Iwo Jima Ridge, 580669, 580676
Jan Mayen Ridge
sandstone, quartzose, 38S0095
siltstone, phosphatic, 38S0095
Japan, source, 860576
Japan Current, source, 860576
Japan N, margin, 870638
Japan, Sea of, sedimentary structure, 310487
Japan Trench, 560981
chalk, 200011, 200013
clay minerals, 560987
geology, 870706
interstitial water, 870854
sedimentology, 870909
sediments, 271216, 271220, 271222, 271223, 271224, 271228, 271229, 271230, 271232, 571213, 571219, 571251, 571253, 571255, 870897
Jingu Seamount, volcanics, 550688
Jurassic, 710351, 710355, 710357
alteration, 710357
Atlantic Ocean SW, 710351
climate, 710357
climatic conditions, source area, 710356
distribution, 710351, 710352, 710353, 710354
erosion, 710357, 710358
postsedimentary, 710358
K, 860605
minerals, 960579
kaolinite, 220743, 291053, 960580
abundance, 291053
kaolinite-chlorite, 960579
Kyushu-Palau Ridge, 580669, 580676
source, 580965
Labrador Sea S, terrigenous sediment, 121164
laminae, parallel, 300433
lamination, 291050
burrow structure, 291050
discontinuous, 291050
lenticular, 291050
silt, 291050
limestone, Albian, 620932, 620933
Line Islands, tectonics, 330738

- lipid, diagenesis, 630771
 lithologies, major
 chalk, 901480
 ooze, calcareous, 901480
 lithology, 010129, 040023, 040043, 040081, 040097, 040098, 040130, 040150, 040151, 040218, 040246, 050170, 050204, 050310, 060043, 060044, 060172, 060197, 060224, 060225, 060247, 060248, 060249, 060295, 060559, 070029, 070056, 070324, 070612, 070727, 070729, 070823, 070825, 100007, 100049, 100091, 100093, 100117, 100118, 100119, 100121, 100125, 100167, 100168, 100171, 100189, 100297, 100314, 110141, 110318, 110352, 120048, 120264, 120410, 120447, 120766, 130121, 130149, 130266, 130390, 130490, 140053, 140054, 140090, 140139, 140183, 150021, 150172, 150307, 150368, 160023, 160027, 160235, 160236, 160269, 160305, 160368, 160369, 170106, 170266, 170288, 180016, 180020, 180099, 180100, 180102, 180172, 180236, 180288, 180289, 180378, 180379, 180450, 190023, 190292, 190329, 190374, 190375, 190417, 190418, 190466, 190467, 190556, 210021, 210035, 210106, 210107, 210108, 210202, 210372, 210374, 220016, 220038, 220039, 220041, 220086, 220196, 220215, 220271, 220326, 220327, 230120, 230170, 230215, 230387, 240199, 240200, 240251, 240252, 240284, 240285, 240329, 240394, 240395, 250028, 250029, 250030, 250031, 250032, 250071, 250072, 250092, 250093, 250145, 250184, 250193, 250194, 250243, 250265, 250266, 250293, 250294, 250484, 260026, 260027, 260078, 260159, 260160, 260161, 260235, 260237, 260283, 260284, 260299, 260329, 260331, 260363, 260364, 270016, 270019, 270091, 270093, 270132, 270133, 270143, 270197, 270198, 270199, 270282, 270283, 280021, 280022, 280083, 280084, 280123, 280125, 280155, 280156, 280182, 280219, 280221, 280339, 290195, 290230, 290274, 290275, 290367, 290368, 290369, 300030, 300044, 300071, 300134, 300137, 300140, 300141, 310029, 310030, 310050, 310052, 310133, 310173, 310176, 310280, 310320, 310354, 310355, 310404, 310405, 310410, 310443, 320047, 320048, 320197, 320239, 320298, 320299, 320318, 330042, 330044, 330045, 330167, 330169, 340025, 350030, 350067, 350131, 350160, 350161, 360020, 360031, 360032, 360033, 360091, 360145, 360148, 360214, 360260, 38S0013, 38S0014, 38S0015, 38S0016, 38S0018, 38S0021, 38S0026, 380027, 38S0028, 38S0029, 38S0111, 38S0114, 38S0115, 38S0116, 38S0117, 38S0118, 380119, 38S0119, 380120, 38S0120, 380161, 380163, 380168, 380170, 380172, 380173, 380391, 380453, 380455, 380597, 380598, 380599, 380656, 390032, 390051, 390052, 390053, 390054, 390105, 390149, 390239, 390241, 390333, 390334, 390336, 400047, 400048, 400049, 400195, 400199, 400205, 400362, 400363, 400364, 400366, 400367, 400368, 410026, 410028, 410030, 410170, 410171, 410172, 410174, 410188, 410237, 410239, 410426, 410427, 410428, 42B0034, 42B0035, 42A0037, 42B0037, 42A0067, 42A0068, 42B0124, 42B0125, 42B0130, 42B0134, 42B0137, 42B0143, 42B0144, 42B0294, 42B0296, 42A0308, 430037, 430038, 430040, 430041, 430043, 430044, 430115, 430117, 430159, 430160, 430161, 430163, 430164, 430165, 430201, 430204, 430206, 430209, 430210, 430216, 430330, 430331, 430333, 430334, 440030, 440031, 440032, 440160, 440171, 440204, 440342, 450140, 460019, 47A0027, 47A0029, 47A0030, 480132, 480175, 480176, 480177, 480180, 480221, 480222, 480225, 490029, 490105, 490237, 500040, 500041, 500042, 500043, 500044, 500127, 500128, 510042, 510043, 510044, 510046, 510047, 510360, 510361, 510362, 510363, 540756, 660683, 800939, 870836, 870837, 960476, 960478
 Aptian to Cenomanian, 140053
 ash, 140054
 basalt, 140139, 270094
 basalt, alkali, 190468
 basement, 110226
 bedding, 300140, 300141
 bedding, graded, 120410
 breccia, 120260, 130227
 burrow mottling, 300140
 burrows, 120410, 300140, 300141
 burrows, pyritized, 300138
 calcarenite, 140259 calcareous
 nannofossil, Pleistocene, 960478
 calcareous nannofossil, reworked
 Pliocene, 960478 calcite, 110353, 300137
 calcium carbonate, 300138 carbonate,
 140054 carbonate cycle, 300138 cement,
 130390 Cenozoic deposits, 47B0047
 Cenozoic units, 480048 chalk, 120411
 chalk, clay nannofossil, 300141
 chert, 140090, 140139, 140185, 170152, 170238
 chert, zeolitic, 170250
 chlorite, 140139, 300137, 300140, 300141
 clay, carbonaceous, 140090
 clay, dolomitic, 140185
 clay, green, 300140
 clay minerals, 110353, 300137, 300140, 960478
 clay, nannofossil, 120766, 300138, 300140
 clay, quartzose, 140023
 clay, radiolarian, 140139
 clay, red, 120764, 120765
 clay, terrigenous, 960478
 clay, zeolitic, 140185, 170106, 170264, 300140
 claystone, zeolitic, 170250
 conglomerate, 120410
 contact, sharp, 300137
 Cretaceous, 110225
 Cretaceous-Eocene, 110225
 diagenesis, 310198
 diatoms, 110353, 130390, 140139, 140183
 distal overbank, 960478
 dolomite, 110353
 dominant lithology, 190171
 Eocene, 120410, 250727
 Eocene to Quaternary, 140139
 evaporites, 130196, 130424, 130425
 feldspar, 110353, 140054, 140139, 140183, 300134, 300137, 300140, 960478
 foraminifers, 110353, 120410, 300134, 300137
 fossiliferous pyritiferous zeolitic, 100091
 geologic events, 210062, 210110, 210376
 glaciation, 120766
 glass, 140054
 glass, volcanic, 300134
 gradational boundaries, 300134
 graded cycle, 210372
 grading, 300138
 hematite, 140054
 ice rafting, 120766
 interbedding, 140054, 140139, 170106
 iron oxide, 140139
 iron-sulfide mottling, 960478
 kaolinite, 300137, 300140
 limestone, 130390, 170055, 170152, 190171
 Madagascar Plateau, 120410
 manganese, 140054, 170106
 marl, 130066
 marl, dolomitic, 130487, 130488
 marl, pyritic, 130487, 130488
 marl, zeolitic, 140297
 Marquesas Oceanic Formation, 080677
 Mesozoic units, 480049
 mica, 140054, 140139, 140183, 300134, 300137, 300140, 300141
 micronodule, 300141
 middle fan channel, 960478
 mineral, heavy, 110353, 140139, 300134, 300140
 mineral, opaque, 300140
 minor sediment types, 47A0028
 Miocene, 140053, 140183, 300140
 montmorillonite, 300137, 300140, 300141
 mud, 140183, 170106, 960478
 mud, calcareous, 140257, 140258, 140259
 mud, terrigenous, 960478
 mud, terrigenous black, 130369
 mudstone, 120260, 120410, 140023, 140139
 nannofossils, 140054, 140183, 300137
 nannoplankton, 110353
 Neocomian, 110109
 Oligocene, 300140
 ooze, 130262, 130267
 ooze, clay diatomaceous, 280052
 ooze, diatomaceous, 140164, 280052
 ooze, diatomaceous nannofossil, 280052
 ooze, foraminiferal, 130369, 130390
 ooze, foraminiferal nannofossil, 130195, 140220, 140257, 140258
 ooze, limestone, 120411
 ooze, marl, 130064, 130227
 ooze, nannofossil, 130102, 130122, 130338, 140054
 ooze, nannofossil foraminiferal, 300233
 ooze, siliceous, 140183
 oozes, 120683
 origin, 090060, 090410
 Paleocene, 120410
 Paleocene red sediments, 120167
 plagioclase, 300137, 300140
 plant debris, 110353, 300140
 plant fragments, 300137
 Pleistocene, 110317, 120766
 Pleistocene sediment, 110141
 Pliocene sediment, 120168
 Pliocene to Pleistocene sediments, 120168
 Pliocene-Pleistocene, 120261, 120265
 porcellanite, 170106
 potassium feldspar, 300137, 300140
 primary homogeneity, 960478
 pyrite, 130390, 140183, 300134, 300140
 pyroxene, 140139
 quartz, 110353, 130490, 140054, 140139, 140183, 300134, 300137, 300140, 960478
 Quaternary, 130490
 Quaternary-Tertiary, 110225
 radiolarians, 140139, 140183
 Reflector, 4, 120449
 sand, 130102, 130122, 130262, 130266, 130390, 140139
 sand, arkosic, 140185
 sand, subarkosic, 140224
 sand, turbidite, 130064, 130065
 sand-size material percent, 960478
 sandstone, 120410, 130064, 130065, 130066, 130390, 240128

lithology (Cont.)

- sandstone, quartzose, 140164
- sandstone, terrigenous, 130369
- sandstone, volcanic, 120365
- sapropel, 130266, 130267, 130338
- scouring, 300138
- sedimentary structure, 960478
- sedimentation, 350032
- sedimentation rate, 140054, 140139, 140183
- sedimentology, 100049
- Senonian-Albian, 140053
- shale, 130486
- silt, 130486, 140054, 140183, 300137, 960478
- silt, dolomitic, 140139
- silt, quartzose, 140139
- siltstone, zeolitic, 170106
- sponge spicules, 110353
- swelling, 870836
- terrigenous components, 120766
- terrigenous material, 300138
- terrigenous minerals, 130490
- terrigenous sedimentation, 300140
- Tertiary, 130490, 140139
- Tithonian-Neocomian, 110226
- turbidites, 120683, 120764, 120765
- turbidity current, 120766, 300138, 300140
- upper midfan channel, 960478
- varve, 42B0130
- veinlet, 140054
- volcanic sediment, 170055
- zeolite, 140054, 300140, 300141
- zeolite, radiolarian nannofossil, 170238
- Lofoten Islands, Pliocene-Pleistocene, 38S0072
- London, 810566, 950377
- England S, 800644
- Lord Howe Rise, 291049
- rhyolite, 210538
- lower channel-overbank deposit, 960509
- clast, 960509
- lower fan, organic matter, 960748
- lower fan overbank, 960433, 960557
- lueneburgite, Miocene sediments, 42A0662
- Madagascar Basin, volcanic sediment, 250520
- Madagascar Plateau, volcanic sediment, 250525
- magnesium, 860605, 960580
- magnetite, 300432
- major element, 270482, 270494, 860555
- major reflectors
- Reflector C, 870746
- Reflector E, 870746
- Malekula, mudstone, 300433
- manganese, 010540, 220737, 860605
- manganese nodule, 510771
- manganese oxide/magnesium, 47B0688, 47B0699
- Manihiki Plateau, spherule origin, 330880
- Marcus Island, archipelagic apron, 200053, 200054
- Mariana Trough, 600614
- Mascarene Basin, volcanic sediment, 250517
- matrix, 130121, 130196, 140258, 160504, 210202, 38S0111, 38S0114, 38S0116, 38S0117, 401029, 410240, 410428, 430330, 430333, 430334, 430336, 450140, 480179, 480180
- Mazagan Escarpment, 790511, 790520
- Mazagan Plateau, 790722
- Mediterranean Sea
- Alboran Sea, 130666
- Gorringe Ridge, 130666
- Hellenic Trough, 130668, 130669
- Ionian Basin, 130667
- Levantine Basin, 130668, 130669
- lithostratigraphy, 131032, 131033, 131038
- Mediterranean Basin, 130667
- Messinian, 130676, 130677, 130678, 130679, 130680, 130681, 130682, 130683
- Tyrrhenian Basin, 130667
- Mediterranean Sea E, history, 42B1214
- Meiji Guyot, K/Ar age, 550678, 550679, 550680
- Melanesian Basin, 610587, 610588, 610589
- genesis of minerals, 610590, 610592, 610593
- minerals, 610587
- Mellish Seamount, post-Jurassic
- sedimentation, 620833, 620834, 620835, 620841
- Mesozoic, Paleocene-Eocene, 710454
- metalliferous sediment, Nazca Plate, 340788
- Mexico, Gulf of, regional aspects, 010625, 010637
- mica, 291052, 47A0581, 960580
- biotite, 291052
- muscovite, 291052
- schistose, 291052
- micarb, 300434
- micronodule, 291053, 860572
- microstructure, 950531
- Mid-Labrador Sea Ridge, Pliocene, 121186
- Mid-Pacific Mountains, 200671
- Middle America Trench
- continental slope, 670592
- Costa Rica, 840553, 840558
- geotechnical properties, 660479
- magma, calc-alkaline, 660699
- transect, 670533
- middle fan, 960459
- organic matter, 960752
- middle fan channel, deposit, 960505
- middle fan overbank, 960508
- clast, 960509
- mineral assemblage, evolution, 600448
- mineral, chemical composition, sediments, mineral composition, 38S0031
- mineral composition, 180937
- ash, 050531
- basalt, alkali andesine, 180943
- basement, 110874, 110875
- ocean basin, 42A0509
- tholeiite, 180941
- mineral, diagenetic, 291053
- mineral, heavy, 300434, 360880, 47A0579
- Gascoyne Plain, 270524
- mineral, opaque, 860572
- mineral, secondary, 460304, 511185
- alteration, low-pressure, 370776
- basalt, 370834
- celadonite, 511185
- mica, 920508
- petrography, 920506
- protoceladonite, 511186
- saponite, 511185, 511186
- mineralization, iron oxide, 220471
- mineralogy, 210535, 291052, 350301, 350489, 360880, 38S0111, 38S0114, 38S0115, 38S0116, 38S0117, 38S0118, 38S0119, 411087, 550857, 650395, 860549, 860550, 860552, 760411
- acoustic properties, 860549
- ash, 38S0105
- Atlantic Ocean NW, 650418
- bulk mineralogy, 860552
- Cenozoic, 941089
- chlorite, 860552
- clay minerals, 860553
- Cretaceous and Cenozoic sediments, 480708, 480711
- electrical properties, 860549
- Fe oxyhydroxide, 860552
- feldspar, 860552
- Goban Spur, 801026, 801027
- illite, 860552
- illite-smectite, 860552
- kaolinite, 860552
- Mariana Trough, 600457
- Mexico, Gulf of, 960584
- mineral, secondary, 600718, 800942
- Mississippi River, 960584
- Pacific Ocean, 850795
- Pacific Ocean EC, 850782
- Pacific Plate, 600446
- palygorskite, 860552
- Pigmy Basin, 960583
- primary textures, 600717
- quartz, 860552
- Quaternary, 650391
- sediment, 680397, 680400, 680402
- sediment chemistry, 650418
- sediment history, 38S0120
- turbidites, 130714
- variability, 801022, 801023, 801026
- minor element, geochemistry, 360930, 360937, 42B0527
- Miocene, 300433, 580669
- intrusion, 580669
- mud, 580669
- volcanism, 580669
- Miocene to Pleistocene, 580671
- ash, 580671
- calcareous nannofossils, 580672
- chronological changes, significance, 580675
- climate change, 580675
- climate, continental, 580669
- geodynamic changes, 580675
- geographical changes, 580676
- mineralogical stratigraphy, 580670
- mud, 580670, 580671, 580672
- mudstone, 580671
- ooze, nannofossil, 580671
- zeolite, 580672
- Miocene-Pliocene, 300432
- Mississippi Fan
- consolidation, 960797
- depositional environment, 960434
- lithology, 960433
- middle fan, 960606
- sediment, 960432, 960519
- mixed layer clay, 960579
- montmorillonite, 220743, 291053, 960580
- Moroccan Basin, margin, 500805
- Morocco
- coast, 790395
- continental margin, 790498
- Mossbauer spectroscopy study, 950644
- Mozambique Ridge, volcanic sediment, 250529
- mud, 870913
- mud, green, 020418
- mud, radiolarian, 020418
- mud, terrigenous
- Indian Ocean W, 250456
- mud, 250455
- mud, green, 250455
- mudstone, 250455
- mudstone, green, 250455
- sediment classification, 250455
- mudflow, origin, 020418
- mudstone, petrology, 180903, 180910, 180911, 180912
- Nankai Trough
- consolidation, 870844
- geochemistry, 870646
- Japan Trench, 870866
- regional stratigraphy, 870917
- turbidite, 870913

- nannofloral analysis
 Albian cycle, 711059
 Aptian cycle, 711060
 nannofossil, 510737
 nannofossils, 300434, 860572
 nannoplankton, 291055
 Natal Basin, volcanic sediment, 250525, 250528
 Nazca Plate, South America, 340795, 340800
 Necker Ridge, 200678
 Neogene, 010585
 hematite, 010585
 New Jersey Transect, stratigraphy, 950767, 950772
 New Zealand
 associations, 901225
 tectonics, 901234
 NFLECT
 characteristics, 960554, 960556
 lithology, 960548, 960549
 Ninetyeast Ridge, 220824
 nitrogen, 800995, 800996
 deep-sea sediments, 580745
 North America, source, 020418
 Norwegian Basin, Pliocene-Pleistocene, 38S0072
 Norwegian Sea, 38S0216, 38S0217, 38S0221, 38S0225, 38S0248
 basalt, 38S0241
 clay minerals, 38S0232, 38S0233
 geologic setting, 38S0193, 38S0197, 38S0205, 38S0210, 38S0214
 Greenland Sea, 38S0261, 38S0269, 38S0272
 regional conclusions, 38S0250, 38S0251
 Voring Plateau, 38S0200
 $^{16}\text{O}/^{18}\text{O}$ ratio
 mineralogy, 350489, 350493, 350495, 350496
 Pacific Ocean SE, 350489
 ocean basin, petrography, 42A0509
 oldest sediment
 Miocene, 020423
 pre-Miocene, 020423
 Oligocene to Pleistocene, 580684
 chalk, nannofossil, 580684
 ooze, calcareous, 580684
 Oligocene to Pliocene, 580686
 mud, 580686
 ooze, calcareous, 220742
 illite, 220742
 kaolinite, 220742
 ooze, nannofossil, 271008
 quartz, 220742
 Tertiary to Cretaceous, 220742
 ooze, radiolarian, clast, 020418
 ooze, radiolarian diatom, 860571
 ooze, siliceous biogenic, transition, 620759
 Orca Basin, lithology, 960573
 organic facies origin
 Cocos Plate, 660544
 Miocene, 660544
 organic geochemistry, 380783, 630837
 black-colored sediments, depositional model, 800966
 diatom, 571296
 marine influence, 800963
 Porcupine Plain, 800956
 terrigenous influence, 800963
 Walvis Ridge, 750465
 organic matter
 deep-sea facies, 660541
 Miocene, 660541
 Tertiary-Albian, 711019
 organic sediments, origin, 660544
 origin
 formation *in situ*, 580674
 hydrothermal activity, 580674
 Pacific Ocean N, 620559
 origins, 580686
 Eocene, 580686
 Eocene to Oligocene, 580688
 Oligocene to Pleistocene, 580689
 Orphan Knoll, 121181
 overburden pressure, fabric formation, 720520
 oxidation potential, 300433
 oxygen isotope, 350489
 faunas, 410960
 geochemistry, 340337, 350510, 350512, 370617
 sediments, 410960, 700322
 oxygen isotope, stable
 carbonate, 410947
 effect, 410944, 410945
 fluid movement, 410947
 pore water chemistry, 410947
 pressure solution, 410947
 Pacific Ocean, 540327, 690358
 Antarctica, 350427
 bottom sediments, 571316
 guyots, 620773, 620775
 $^{16}\text{O}/^{18}\text{O}$ ratio, 350489
 Pacific Ocean C, paleoceanography, 850982
 Pacific Ocean E, 540327
 Pacific Ocean N, 050525, 170511, 620759
 Aleutian Plain, 190897
 alteration, 620559
 mineralization, contact, 190906
 ooze, siliceous biogenic, 620759
 origin, 620559
 plate movement, 190902
 sedimentation, 190908
 silt, 190908
 trace elements, 170511
 Pacific Ocean NC, 620564
 Pacific Ocean NE
 chalk, 200035
 cruise synthesis, 151086, 151090, 151103, 151104
 grain size, 050421, 050423, 050424
 lithology, 050574
 mudstone, 180903
 petrology, 180903
 Pliocene, 200035
 regional aspects, 050628
 Pacific Ocean NW, 200389, 200727, 860349, 860459, 860482, 860549, 860550, 860552, 860562, 860564, 860569, 860571, 860572, 860574, 860589, 860605, 860657, 860723, 860727
 accumulation rate, 860563
 acoustic properties, 860549, 860560, 860561
 acoustic property correlations, 860567
 age, 200727, 860563
 Al, 860605
 Atterberg limits, 860727
 Ba, 860605
 basement, 200047
 boundary, 860562
 bulk density, 860552, 860557, 860730
 bulk mineralogy, 860552
 calcium, 860605
 cementation, 860727, 860740, 860748
 Cenozoic, 860605
 chemistry, 860552, 860555, 860557
 clay minerals, 860572
 compressional velocity, 860730
 compressional velocity anisotropy, 860560
 compressional-wave velocity, 860560, 860561, 860703, 860715
 consolidation, 860718, 860737, 860746, 860749
 detrital vs. diagenetic imprint, 860563, 860564
 diachronous deposits, 200727
 diagenesis, 860549, 860571
 electrical conductivity, 860558
 electrical resistivity, 860552, 860558, 860559
 eolian flux, 860564
 eolian supply, 860571
 expansion index, 860741
 geochemical history, 620786, 620787, 620798, 620802
 geophysical parameters, 860549
 geotechnical properties, 860723
 glass, volcanic, 200389, 200391, 200395, 860572
 grain size, 060709, 060723, 200743, 860729, 860748
 iron, 860605
 K, 860605
 liquidity, 860727, 860730
 lithology, 200727
 magnesium, 860605
 major element, 860555
 manganese, 860605
 micronodule, 860572
 microstructure, 860727
 mineral, opaque, 860572
 mineralogy, 860550
 morphology, 860572
 nannofossils, 860572
 overburden stress, 860730, 860737, 860743
 overconsolidation, 860739, 860746
 palagonite, 860572
 paleomagnetic analysis, 860605
 paleomagnetic results, 860442
 permeability, 860718, 860743
 physical properties, 860549, 860555, 860701
 plasticity, 860727, 860730
 preconsolidation stress, 860737, 860741
 resistivity, 860565, 860568
 resistivity anisotropy, 860559
 resistivity correlations, 860565, 860566
 sand, 860572
 Shatskiy Rise, 860576
 shear strength, 860703, 860712, 860715, 860743, 860748
 shear wave, 860703, 860712, 860715
 silica, 860605
 silt, 860572
 sodium, 860605
 stratigraphy, 860571, 860572
 submarine barrier, 860571
 sulfur, 860605
 terrigenous input, 860564
 titanium, 860605
 trace elements, 860555
 underconsolidation, 860741
 void ratio, 860738, 860741, 860748
 volcanic contribution, 860571, 860577
 volcanogenic component, 860564
 water content, 860703, 860715, 860727, 860729, 860730
 Pacific Ocean SE
 eolian input, 920414, 920415
 grain size, 090779
 mineralogy, 920394
 trade winds, 920331
 Pacific Ocean SW
 associations, 901225
 Eastern Marginal Basin Province, 210904
 island arcs, 300691, 300693
 modern sediment distribution, 901438
 Pacific Plate, 210902, 210904
 paleoceanography, 901502

- Pacific Ocean SW (Cont.)
 unconformities, 210708
 Western Marginal Basin Province, 210903, 210904, 210905
- Pacific Ocean W, 071027, 071029
 equatorial, 071173
 mineralogy, 200325
 noncalcareous sediment, 070988, 070989
 volcanic rocks, 210481
- Pacific Plate
 Japan, 200022, 200027
 volcanic components, 210481
- palagonite, 860572
- paleoclimate, diachronous biogenic facies, 280910, 280911
- paleoenvironment, 580669
 Cretaceous, 47A0560
 Miocene to present, 580669
- paleomagnetic analysis, 860605
- palygorskite, 220731, 220743, 411087
 dolomite, diagenetic, 411087
 lithology, 411087
 palygorskite-sepiolite minerals, 411087
 quartz, 411087
 recrystallization, 411087
 silicate, magnesian, 411087
- palynological residue
 Guaymas Basin, 640739, 640743, 640744
 gulf mouth, 640731, 640738, 640739
- Panama Basin, physical properties, 160501, 160504
- paragenetic assemblages, Assemblages
 IIIB(-), 710428
- particle, origin, 901227
- Patton Escarpment, petrography, 630701
- Pb/Zr ratio, geochemical significance, 710403
- pebble characteristics, 280769
- pebbles, petrography, 801040
- pelagic components, distribution
 biogenous components, 250487
 terrigenous, hemihalmeic components, 250491
 volcanic components, 250491
- pelagic microfossils, 291055
 archaeomonads, 291055
 dinoflagellates, 291055
 nannofossils, 291055
 pollen, 291055
 Radiolaria, 291055
 silicoflagellates, 291055
 spores, 291055
- Pendragon Escarpment, enrichment, 801197
- permeability, diatom interaction, 870843
- petrographic description, 660711
 formation, 660711
- petrography, 540740
 breccia, 600583
 gabbro, 600582
 gabbro, olivine, 600582
- petrology, 740650, 960500, 960502
 bedding, graded, 960500
 burrows, 960500
 clast, 960500
 composition, 960501, 960502
 fracture, 960501
 graded parallel lamination, 960500
 gravels, 960494
 igneous rocks, 42A0509
 iron oxide, 540801
 laminae, offset, 960501
 load feature, 960500
 lower fan overbank, 960500
 middle fan channel, 960500
 middle fan overbank, 960500
 mineralogy, 38S0105
- Pacific Ocean NE, 180903
 sand, 960498, 960499
 sediment deformational structure, 960500
 sedimentary structure, 960500
 silt, 960500, 960501
 woody organic fragment, 960500
- Philippine Basin, genesis, 310859, 310863, 310870
- Philippine Sea, 870646
 sedimentary structure, 310487
 sedimentation, 580669, 580683
 West Mariana Basin, 600429
 West Mariana Ridge, 600430
- Philippine Sea N, paleoenvironment, 580669
- Philippine Sea NW, sedimentation, 580683
- Philippine Sea S, 590602
- phillipsite, Atlantic Ocean NW, 430464, 430469, 430470, 430471, 430472
- physical properties, 010579, 010580, 061160, 061246, 580987, 650675, 860549, 860552, 860555, 870829
 aggregate, 061134
 alkaline elements, 061162
 ash, 061218
 bulk density, 860552
 burrows, 061134
 carbonate, 061168
 clay, zeolitic, 061134
 compressional wave velocity, 47B0588, 47B0589
 continental source, 061132
 glass, volcanic, 061132
 illite, 061132
 kaolinite, 061132
 magnesium, 061160
 manganese oxide, 061164
 mineralogy, 061134
 montmorillonite, 061132
 nepheloid layer, 061132
 ooze, diatomaceous, 061134
- Pacific Ocean, 061135, 061136, 061137, 061138, 061139
- Pacific Ocean NW, 061139, 061160
 plagioclase, 061132
 porosity, 580987
 quartz, 061132
 radiolarians, 061133
 sedimentation rate, 061133
 shear strength, 680368, 680369
 silica, 061164
 siliceous sediments, 061173
 smectite, 580987
 sonic velocity, 580987, 870835
 sound velocity, 061248
 thermal conductivity, 061250
 titanium, 061160
 titanium oxide, 061164
 transport, 061132
 volcanic source, 061132
 water content, 580987
 wet-bulk density, 580987
 zeolite, 061134
- Pigmy Basin, 960711
 foraminifers, 960657
 lithology, 960566, 960570
 sediment, 960577
 seismic/lithologic facies, comparison, 960570
- planktonic foraminifers, 291055
- plant organic matter, 380820
 carbon, organic, 380815
- Plantagenet Formation, Atlantic Ocean NW, 770731
- Pleistocene, 300432
- pollen, spores, Pigmy Basin, 960644
- polymetallic crusts, diagenesis, 800826
- porosity, 320961
 dewatering, partial, 920539
 preliminary organic analyses, 100625, 160575, 160585, 170561
 pyrite, 010540, 291053
 aggregate, 291053
 framoid, 291053
 pseudomorphs, 291053
 pyrite, microcrystalline, ooze, nannofossil, 260606
 quartz, 010540, 220743, 300432, 47A0579, 960580
 rare earth elements, 590653
 geochemistry, 600737
 interarc basin, 590667
 ooze, 700319
 Pacific Ocean N, 850798, 920401
 trace elements, 590662, 590663, 590664, 590666
 tuff, 590654, 590658, 590659
- red beds, 38S0272
 sedimentary structure, 38S0261
 turbidites, 38S0269
 red pelagic, 860571
- Red Sea, sediment history, 230858, 230860
- reflection horizon, Horizon A, 040671
- regional problems
 acoustic stratigraphy, 061303
 carbonate, 061302, 061303
 chert, 061304
 regional sedimentation, 920599
 diagenesis, 920599
 hydrothermal origin, 920599
 regional seismic grid, borehole data
 extrapolation
 Campanian sequence, 950775
 deposition, 950802
 depositional history, 950798
 Maestrichtian (sequence II) depositional history, 950782
 Oligocene depositional history, 950797
- resistivity
 acoustic properties, 560568
 physical properties, 860565
 resistivity correlations
 clay/quartz ratio, 860566
 porosity, 860565
 salinities, 860565
 water content, 860565
- Reykjanes Ridge E, 121186
- rhodochrosite, 020419
- rhyolite, mineralogy, 210535
- Rio Grande Gap, fabric, 720524
- Rio Grande Rise, 720519
 Cretaceous/Tertiary boundary, 721014
 Mesozoic, 721015
 sediment, 720428
 subsidence, 720968, 720971
 Rio Grande Rise N, regional setting, 250690, 250695
- Rivera Plate, petrography, 630690
- Rock-Eval#pyrolysis, 870880
- Rockall Plateau
 concretion, fossil polymetallic, 810705, 810706
 sedimentation, 810681
 Tertiary deposits, 810670, 810677, 810680
- Ross Sea, 291049
 basement, 280866
- RSO fraction
 calcareous nannofossil zones, 920347
 chemistry, 920347
 rutile, 010540
 sand, 860572
 lower fan channel, 960512, 960513, 960515
 Pacific Ocean NW, 310508, 310510, 310511

- sand-silt-clay distribution, 291052
 Santos Plateau
 origin, 390936
 Walvis Ridge, 390402
 sapropel
 Cretaceous, 620898
 petrography, 130714
 Scan IV survey, 060681
 sediment basin, geology, 47A0764
 sediment chemistry, 350427, 430432
 sediment composition, carbonate, 960481
 sediment geochemistry
 nondepositional environment, 550461
 ooze, siliceous calcareous, 550457
 sediment history, 200611, 280785
 sediment texture, 960481
 sedimentary cycles, 740650
 sedimentary facies, 670608
 sedimentary sequence, 200727, 200729
 lithology, 200725, 200727
 sedimentary structure, 020418, 220737,
 220738, 220739, 960520, 960528, 960530
 ash, 220739
 bedding, composite, 960521
 bedding, parallel, 960530
 biogenic component, absence, 960530
 bottom current, 960530
 Brazil Basin, 390409
 chalk, 220739
 contact, sharp, 220737
 cross-lamination, 220737
 foraminifers, 220737, 960528
 grading vertical, 960528
 grain orientation, 960530
 hematite, 220739
 laminae, sorting, 960528
 lamination, 220737
 lamination, parallel, 960530
 mud, 960528, 960530
 planar stratification, 960528
 sedimentation rate, 960530
 silt, 960528
 sorting, 960530
 structure, 960530
 turbidite, 960530
 turbidity current, 960530
 turbidity current, low-density, 960530
 zeolite, 220739
 sedimentation, 920355
 Cenozoic, 870636
 geochemical aspects, 710428, 710430
 paleoenvironment, 580683, 580686
 Philippine Sea, 580669, 580683
 Shatskiy Rise, 860576
 tectonics, 47B0666
 sedimentation rate, 020421
 organic matter, 760788
 sedimentology, 020415, 340779, 340783,
 960502
 clay, red, 020415
 physical properties, 100712
 sedimentation rate, 340789
 terrigenous sediment, 020415
 sepiolite
 lithology, 411087
 palygorskite, 411087
 palygorskite-sepiolite minerals, 411087
 silicate, magnesian, 411087
 shale, Aptian-Barremian, 711019
 shale, black, Cretaceous, 410869
 Shatskiy Rise, 830605, 860571
 stratigraphy, 860577
 submarine barrier, 860576
 shear strength, 361059
 Shikoku Basin, 580670, 580671, 580672,
 580971
 Miocene, 580707
 Miocene to Pleistocene, 580675, 580676
 origin, 580674
 paleoenvironment, 580669
 Pliocene, 580707
 porosity, 580987
 sedimentation, 580669
 smectite, 580987
 sonic velocity, 580987
 water content, 580987
 silica, 860605, 960580
 diagenesis, 170382, 410881, 410883, 801091
 mineralogy, 140728, 140737
 silica, opaline, transformation, 480760
 siliceous foraminifers, 291055
 siliceous microfossils, 020418
 siliceous sediment, 500725
 silicification, 291054
 sill, mineral composition, 180939
 silt, 291052, 300434, 860572
 laminae, 960433
 silt, quartzose, 020418
 silt, terrigenous, 291059, 291148
 burrow mottling, 291149
 siltstone, 291052
 site survey, Ceara Rise, 140382
 skeleton condition, 291055
 agglutinating benthic foraminifers, 291055
 Bathysiphon, 291055
 slump-marginal fan deposit, 960509
 smectite, 960579
 sodium, 860605
 Sohm Plain, Cretaceous, 020413
 Somali Basin, volcanic sediment, 250519
 sonic velocity, 320962
 sorting, 291052
 sound velocity, elastic constants, 071157
 South Fiji Basin, history, 300630
 South Tasman Rise, 291049
 Southeast Pacific Basin
 evolution, geologic, 350731, 350738,
 350739
 sediment distribution, 350222
 Southern California Borderland, volcanic
 rocks, 630951
 Southern Ocean, 291049
 southwest regional unconformities, 210708
 sponge spicule, 291055
 sponge spicules, 010522, 300432
 stable isotope
 basalt, 350504
 silicate, 350498
 vein, 350504
 stratification, 960517
 sand, 960517
 stratigraphy, 860571, 950549, 950552, 950557
 alteration, 870639
 amphiboles, 870639
 chlorite, 870639
 climatic change, 870640
 conglomerate, 870639
 crystalline rock, 870639
 diagenesis, 870640
 effusion proximity, 870639
 erosion, 870639
 feldspar, 870639
 illite, 870639
 Japan, 870639, 870640
 Japan E, 870640
 Japan N, 870638
 kaolinite, 870639
 Mariana Trough, 600469
 metamorphic rock, 870639
 mineralogy, 870639
 Miocene, 870638
 mixed-layers, 870639
 mudstone, diatomaceous, 870640
 Neogene submarine morphology, 870640
 Oyashio landmass, 870639, 870640
 Pacific Ocean NW, 860571
 Pacific Plate, 600468
 Pacific Plate W, 600469
 quartz, 870639
 sandstone, 870639
 siltstone, 870639
 smectite, 870638
 turbidites, 870640
 vermiculite, 870639
 water mass changes, 870640
 stratigraphy and evolution, Porcupine
 Plain, 801183
 strontium, 710402
 manganese hydroxide, 710402
 submarine barrier, 860571
 subparallel orientation, fossils, 670538
 sulfur, 860605
 synrift sediments
 Barremian, 800928
 Barremian-Hauterivian, 801175
 Tasman Sea C, 291049
 tectonic
 Paleocene, 430815
 Turonian-Maestrichtian, 430811
 tectonic history, Turonian-Maestrichtian,
 430811
 temperature, 650343
 terrigenous components, 810868
 terrigenous input, 860564
 terrigenous material, 390461
 terrigenous origin, 010540
 Tertiary, Paleocene, 801177
 Tethys N, margin, 440957
 tetrapyrrole, geochemistry, 630785, 630793
 thermal conductivity, 190654, 760720
 tholeiite
 geochemistry, 800946
 mineral composition, 180939, 180941
 mineralogy, 42A0509
 Ti/Zr ratio
 distribution, 710398
 geochemical significance, 710397
 titanium, 860605
 Pacific Ocean, 330835
 trace elements
 chert, 170512
 chert, zeolitic, 170513
 chromium, 170511, 170512, 170513
 clay, radiolarian, 170512
 clay, radiolarian zeolitic, 170513
 clay, zeolitic, 170511, 170512
 claystone, zeolitic, 170513
 clinoptilolite, 170512, 170513
 copper, 860555
 Cretaceous, 170512, 170513
 Cretaceous/Tertiary boundary, 720403
 cristobalite, 170511, 170513
 current, submarine, 170513
 dissolution, 170512
 distribution, 42A0493, 42A0504
 eolian contribution, 170513
 feldspar, 170513
 illite, 170512, 170513
 K-feldspar, 170512, 170513
 lead, 860555
 manganese, 170511, 170512, 170513
 montmorillonite, 170511, 170513
 nickel, 170511, 170512, 170513, 860555
 ooze, radiolarian, 170512, 170513
 Pacific Ocean N, 170511
 palagonite, 170512
 palygorskite, 170512, 170513
 palygorskite, authigenic, 170512

- trace elements (Cont.)
 phillipsite, 170511, 170512, 170513
 plagioclase, 170512, 170513
 quartz, 170512, 170513
 quartz/plagioclase/illite ratio, 170511
 quartz/plagioclase/illite/montmorillonite ratio, 170512
 silicate, magnesium, 170512
 strontium, 860555
 Tertiary, 170513
 titanium, 170511, 170512, 170513
 V, 170511, 170512, 170513, 270482, 270494, 860555
 volcanic material, 170512
 volcanic source, 170513
 zeolite, 170512
 zirconium, 860555
 transport, suspension, 291052
 turbidite, 670541
 mineral composition, 670540, 670541
 turbidite, mud, Pliocene, Quaternary, 640515
 turbidites, 250445, 300433, 430395, 430402, 500733, 500734, 500738, 890367
 clay minerals, 300433
 feldspar-rich, 300433
 glass, 300433
 laminite, 250444
 ooze, nannofossil, 300433
 sand, 250444
 turbidites, volcanic, 890370
 turbidity current, origin, 020418
 Tyrrhenian Rise, mineralogy, 130681
 unconformity, Miocene, 950557
 uplifting, New Guinea, 300434
 varve, 42B0435, 42B0437, 42B0449
 vermiculite, 960580
 volcanic components, 210481
 volcanic contribution, 860571
 volcanic influence, 860576
 volcanic rock
 ages, 55061, 550662
 petrology, 180941
 volcanics, 190634
 mineral composition, 180939, 180941, 180943
 mineralogy, 210535
 volcanism
 ash, 050531
 basalt, 050533
 influence, 750850
 mineral evolution, 600450
 Neogene, 47A0703
 sedimentation influence, 870636, 870638
 volcanogenic component, 860564
 Voring Plateau, mineral composition, 38S0031
 Wake Guyots, 200679
 Walvis Ridge, 751089
 alkanolic acid, 751092
 climatic, oceanographic evolution, 740679
 Cretaceous to Pliocene, 400488, 400494
 geologic evolution, 750530, 750531
 history, 740875
 transect, 740646
 water content, 511454
 predominance, 010339
 water, 010334
 West Mariana Basin, 590372
 metallogenesis, 590649, 590650
 Miocene, 580707
 Pliocene, 580707
 Wharton Basin, 220818
 X-ray mineralogy
 Cenozoic strata, 941089
 Rockall Rise, 480665
 youngest fan lobe, seismic characteristics, 960440, 960442, 960443
 zeolite, 220733, 300434
 Miocene to Paleogene, 220733
 zeolitic, 510737
 zirconium, geochemical significance, 710402
 Zn/Zr, geochemical significance, 710404
 see also clay mineralogy; clay minerals
 clay, allogenic
 petrology
 clay, 960501
 sand, 960500
 silt, 960501
 clay, ash-rich, 200336, 200338
 clay, ashy
 Aves Ridge, 780304
 Japan Trench, chalk, 200013
 lithology, 310029, 310030
 Pacific Plate, Japan, 200027
 Philippine Basin, genesis, 310857
 Philippine Sea
 Daito Basin, 600426
 Daito Ridge, 600426
 sedimentology
 geologic history, 340793
 sedimentation rate, 320789
 clay, authigenic
 analcite, 600470
 ash, altered, 600470
 ash, vitric, Miocene, 600471
 calcium, 600470
 calcium/Mg concentration cross-over, 600471
 carbon isotope, stable, oxygen isotope, 410940
 carbonate, diagenesis, 320526
 celadonite, 600470
 diagenesis, clay minerals, 600497
 Emperor Seamounts, mineralogy, 550466, 550469, 550471, 550473
 Hess Rise N, sedimentary sequences, 620766
 Iceland Basin, Cenozoic sediments, 38S0073
 K-feldspar, 600470
 magnesium, 600470
 Mariana Islands, forearc, 600470, 600471
 Mariana Trough, 600470, 600471
 montmorillonite, 600470
 oxidizing conditions, 600470
 oxygen isotope, stable, oxygen isotope, 410940
 petrology, sand, 960500
 plagioclase, feldspar, 600470
 pore water chemistry variation, 600470
 protoceladonite, 600470
 Rockall Plateau, concretion, fossil
 polycrystalline, 810701
 saponite, 600470
 smectite, 600470
 wairakite, 600470
 zeolite, 600470
 clay, biogenic
 Atlantic Ocean SW, basin, evolution, 360994
 Indus Fan, sedimentation, 230482
 lithology, 490104
 Lofoten Islands, Oligocene-Miocene, 38S0071
 Norwegian Basin, Oligocene-Miocene, 38S0071
 Pacific Ocean NE, cruise synthesis, 151091
 petroleum generating potential, organic matter, 640872
 clay, biosiliceous, 390432, 390438
 deposition, 950802
 clay, black, 440504
 Atlantic Ocean N
 petroleum generating potential, 480953
 western, 510897
 Atlantic Ocean NW
 geochemistry, 430633
 lithology, 110922, 110923, 110924
 regional aspects, 110957, 110967
 sedimentary evolution, 430795, 430796, 430797, 430801, 430811, 430815
 basalt, radiometric age, 430751
 Bermuda Rise, 430633
 geochemistry, 511516
 Campanian sequence, 950778
 Cape Basin, shale, black, 711029
 geochemistry, 430633, 430634, 430641
 cyclic sedimentation, 430641
 iron, 430639, 430640
 kerogen, 430634
 organic matter, 430635, 430637, 430638, 430639
 organic productivity, 430641
 sulfur, 430639, 430640
 Indian Ocean W, 241065
 lithology, 510363
 Cretaceous, 110109
 deposition, 430336
 organic matter, vertical distribution, 711011
 tectonic
 Barremian to Cenomanian, 430795, 430796, 430797, 430801
 Paleocene, 430815
 tectonic history
 Barremian to Cenomanian, 430795
 basement, 430795
 circum-global current, 430801
 composition, 430796
 deposition, 430801, 430811
 fracture valley, 430795
 clay, calcareous, 580706, 580707, 580708
 amino acid, acid hydrolysate, 680475
 Atlantic Ocean
 Cenozoic sediment, 140871
 Cenozoic sediments, 140797
 Cretaceous sediment, 140797
 Cretaceous sediments, 140871
 Atlantic Ocean C, Santos Plateau, 391106
 Atlantic Ocean NW, microfacies, 440482, 440483, 440489
 Atlantic Ocean S, Santos Plateau, 391106
 Biscay, Bay of, shale, black, 480839, 480842, 480843, 480844, 480848
 Black Sea, sediments, 42B0383
 Campeche Escarpment, sediments, 100036
 chert, Cretaceous, 430438
 East Pacific Rise, 540061
 clay minerals, 540311
 geochemistry, Cenozoic sediments, 42B0545, 42B0551
 Holocene, 960812
 Line Islands, 090058
 lithology, 040098, 040129, 040130, 060197, 060540, 120048, 150021, 150218, 150279, 150302, 150368, 150408, 160235, 160236, 190024, 400047, 400192, 42A0034, 430041, 430163, 430336, 440030, 440397, 450140, 450269, 490025, 500126
 benthic foraminifers, 120048
 carbonate, 120048
 foraminifers, 120048
 marl, zeolitic, 140297
 nannoplankton, 120048
 major element, geochemistry, 42B0528
 Mexico, Gulf of, Quaternary nannofossil biostratigraphy, 960601
 minor element, geochemistry, 42B0528
 Mississippi Fan, mud, calcareous, 770451
 mud, calcareous, organic matter, 770451
 mud, terrigenous, organic geochemistry, 400566
 ooze, 540311
 organic geochemistry, 800949
 Pacific Ocean NE, cruise synthesis, 151090

- Panama Basin, physical properties, 160503, 160504, 160505
- Philippine Sea W, 600429
- Pigmy Basin, lithology, 960567
- pollen, spores, 960643
- Holocene, 960643
- porcellanite, Eocene, 430438
- regional seismic grid, borehole data extrapolation
- Campanian sequence, 950775
- chalk, siliceous nannofossil, 950791
- depositional history, 950788
- Eocene depositional history, 950797
- Oligocene depositional history, 950797
- sandstone, 320542, 320543
- foraminifer tests, 320543
- sandstone, calcareous turbiditic, volcanic, 320544
- sedimentation, Rockall Rise, 480690
- shale, organic geochemistry, 400566
- Shikoku Basin
- Miocene, 580706, 580707
- Pleistocene, 580708
- Pliocene, 580707
- West Mariana Basin
- Miocene, 580706, 580707
- Pleistocene, 580708
- Pliocene, 580707
- X-ray mineralogy, Biscay, Bay of, 480649
- zeolite, clinoptilolite, 801089
- clay, calcic, lithology, chert, 210108
- clay, calcite, lithology, 190417
- clay, carbonaceous
- Atlantic Ocean
- Cenozoic sediment, 140871
- Cretaceous sediments, 140871
- Atlantic Ocean N, Mediterranean Sea, 110815
- Atlantic Ocean SW, basin, evolution, 360999
- beef-in-shale, 360867
- cone-in-cone texture, 360867
- lithology, 110141, 130490, 140090, 140297, 140298, 150302
- Aptian to Cenomanian, 140297
- burrow mottling, 140298
- burrows, 140297
- Cenomanian to Turonian, 140090
- chert, 140090
- clay, 140090
- clay, quartzose, 140297
- claystone, quartzose, 140297
- Cretaceous, 110225
- Cretaceous-Eocene, 110225
- intercalations, 140090
- lamination, 140090
- marl, coquina, 140297
- marl ooze, 140090
- marlstone, 140297
- marlstone, quartzose, 140297, 140298
- mudstone, 140090, 140297
- pyrite, 140090
- radiolarians, 140298
- sedimentation rate, 140298
- sedimentation trends, 140298
- shell limestone, 140297, 140298
- Pacific Ocean NE, cruise synthesis, 151085
- palygorskite, 411097
- sepiolite, 411097
- sepiolite, 411097
- palygorskite, 411097
- clay, carbonate
- Atlantic Ocean NW, sedimentation, 440977
- Indian Ocean NE, sediment history, 220723
- lithology, 190417, 230171
- strontium, 710402
- zirconium, distribution, 710402
- clay, carbonate-free
- Atlantic Ocean C, basin, 511505
- lithology
- calcarene, 140259
- mud, calcareous, 140259
- mud, terrigenous, sediment classification, 250455
- clay, carbonate-free red, Venezuelan Basin, 040666
- clay, celadonic
- basalt, alteration, 920512
- K/Ar age, celadonite, 920511
- mineral, secondary, 920507, 920508
- elemental composition, 920510, 920511
- clay, clastic, 38S0045, 38S0051
- clay, cristobalite, Indian Ocean E, grain size, 270520
- clay, crystallized, mineralogy, Pacific Plate, 600446
- clay, detrital
- Atlantic Ocean SE, paleoenvironmental evolution, 740677
- Cenozoic sediments, lithology, mineralogy, geochemistry, 450330
- chemical and mineral composition, mineralogy, 350465
- Hess Rise N, sedimentary sequences, 620763, 620765, 620767
- mineralogy, 38S0138, 38S0139
- Pacific Ocean SW, Western Marginal Basin Province, 210904
- Rockall Plateau, sediments, 810815
- clay, diatom
- Atlantic Ocean SW, basin, evolution, 360996
- Black Sea, evolution, 42B1147
- California, continental margin, 630757
- Cenozoic sedimentation
- Bering Sea, 190889
- Pacific Ocean N, 190889
- chemical composition, metal, 571259
- clay minerals, Pacific Ocean NW, 200336
- deposition, current, 280728
- general synthesis, lithology, 280925
- glaciation
- detritus, 360857
- onset, 280758
- hydrothermal activity, Guaymas Basin, 641160
- island arc, structure, 190799
- Japan Trench, geology, 870704
- lipid, Quaternary, 630763
- lithology, 060172, 190280, 190329, 190375, 190417, 190418, 190466, 190556, 280155, 280182, 280221, 280338, 280370, 280371, 280372, 280373, 310280, 310405, 310443, 350067, 350131, 360031, 360212, 42B0137, 42B0138
- clay, 120261
- dominant lithology, 190170, 190220
- foraminifer-rich, 180378
- Miocene sediments, 190222
- quartz, 360261
- Meiji Guyot, K/Ar age, 550677
- Mesozoic, Quaternary, 710457
- Pacific Ocean, bottom sediments, 571313
- Pacific Ocean N, ooze, diatomaceous, 190911
- Pacific Plate, Japan, 200022
- sediment history, 280785
- tetrapyrrole, geochemistry, 630813, 630814, 630816, 640790
- clay, diatom radiolarian
- Indian Ocean S, geologic history, 260915
- Japan Trench, sediments, 271223
- lithology, 410170
- clay, diatomaceous sapropelic, 42B0486, 42B0487
- clay, dolomite, 42B0445, 42B0449
- clay, dolomitic
- Atlantic Ocean
- Cenozoic sediments, 140792, 140793
- Cretaceous sediment, 140792, 140793
- clay minerals, mineralogy, 140730
- lithology, 140185, 270016
- Mediterranean Ridge, mineralogy, 130683, 130684
- Mediterranean Sea, Messinian, 130680, 130683, 130686
- Pacific Ocean NE, regional aspects, 050624
- palynological residue, Guaymas Basin, 640743
- silica, mineralogy, 140730
- clay, Fe-K-rich
- basalt
- mineral, secondary, 511244
- mineralogy, 370827
- chemistry, 370827
- clay, Fe-Mg rich, basalt, mineral, secondary, 511244
- clay, Fe-Mn, lithology, 070730
- clay, Fe-rich
- factor analysis, sediment, Fe/Si ratio, 920368
- geochemistry, Guaymas Basin, 640708
- Mexico, Gulf of, regional aspects, 010637
- oldest sediment, 020424
- clay, ferruginous
- Atlantic Ocean S, Malvinas Outer Basin, 391109
- Caribbean Sea, sediments, 150936
- ferromanganese sediment, lithologies, 190630
- Indian Ocean NE
- Cretaceous, 220718
- sediment history, 220718
- Indian Ocean S, geologic history, 260927
- lithology, 160370, 210059, 260238, 260364, 260365, 270133, 310173, 340025
- Panama Basin, physical properties, 160504, 160506, 160507
- clay, foraminiferal
- Bauer Basin, structure, 340157
- Indian Ocean S, geologic history, 260919
- clay, foraminiferal nannofossil
- deposition, eolian, Pacific Ocean SE, 920337
- geologic setting, Miocene, 840923
- lithology, 100057, 100091, 310193
- clay, glacial, 120048
- lithology, 120048
- ice rafting, 120048
- Orphan Knoll, Pliocene-Pleistocene, 121181
- Pacific Ocean NE, regional aspects, 050623
- clay, glauconitic
- age, 810650
- Atlantic Ocean W, Brazil Basin, 040660
- Brazil Basin, 040660
- Greenland Sea, basalt, 38S0242
- iron, 810649
- lithology, 290274, 410427
- Norwegian Sea, basalt, 38S0242
- regional seismic grid, borehole data extrapolation
- Campanian sequence, 950775
- chalk, siliceous nannofossil, 950791
- Maestrichtian (sequence II) depositional history, 950779
- Miocene depositional history, 950799
- Oligocene depositional history, 950797
- clay, green, 560984, 700211, 810649
- alteration, products, 810737
- Atlantic Ocean NW, regional aspects, 110960
- Brazil Basin, 040659
- Caribbean Sea, sediments, 150938
- clay minerals
- Al, 700216
- celadonite, 700218
- clay minerals, K-bearing, 700216

- clay minerals, nontronitic, 700218
Galapagos Fracture Zone, basalt, 540415
Galapagos Hydrothermal Mounds, geochemistry, 700211
Galapagos Spreading center, 700211
Al, 700213, 700216
Fe-Mn oxide, 700213
hydrothermal mounds, 700211
magnesium, 700213
mineralogy, 700214, 700216
nontronite, ferroan, 700211, 700213
sedimentology, 700213
smectite, 700211, 700212
geochemistry, 700216, 700220, 810715
Fe-Mn oxide, 700216, 700218
Galapagos Hydrothermal Mounds, 700211
iron, 700216, 700218
K₂O, 700216
manganese, 700216, 700218
Rockall Plateau, 810737
SiO₂, 700216
hydrothermal deposits
assemblage, paragenic, 700252
Galapagos Spreading Center, 700236, 700238, 700239, 700241, 700242, 700244, 700247, 700249, 700250, 700252
Galapagos Spreading Center, 700248
manganese hydroxide, 700253
hydrothermal mineral, formation, 700253, 700254
lithology, 300140
burrow mottling, 300140
chlorite, 300140
clay, 300140
clay minerals, 300140
feldspar, 300140
mica, 300140
mineral, heavy, 300140
montmorillonite, 300140
plagioclase, 300140
plant debris, 300140
potassium feldspar, 300140
pyrite, 300140
terrigenous sedimentation, 300140
zeolite, 300140
major element, 700218, 700220
distribution, 700218
Galapagos Hydrothermal Mounds, 700218
mineral, secondary, 920508
petrography, 920506
mineralogical facies comparison, 810708
Al, 810708
biogenic material, 810708
iron, 810708
K₂O, 810708
Mg/Al ratio, 810708
nontronite, 810708
phyllite, 810708
potassium, 810708
smectite, 810708
mineralogy, 700215, 700216
calcite, 700216
flocculation, 700215
Galapagos Hydrothermal Mounds, 700211
halite, 700216
mica, 700215
peaks, 700214
potassium, 700215
smectite, 700215
mud, terrigenous, sediment classification, 250455
Rockall Plateau, concretion, fossil
polymetallic, 810704, 810705, 810706
sediment, 700333
chemical composition, 700272, 700273
hydrothermal mounds, 700277, 700280, 700281
trace elements, 700218, 700220
distribution, 700218
Galapagos Hydrothermal Mounds, 700218
geochemistry, 700220
clay, green nontronitic, Galapagos Islands, hydrothermal mounds, 700189, 700191, 700192, 700193, 700204, 700205, 700206, 700207, 770204
clay, gypsiferous
continental shelf, onshore geology, 400967
Mediterranean Sea, Messinian, 130681
clay, hyalopelitic
mineralogy, 38S0118
sediment history, 38S0120
sediment, lithology, 38S0118, 38S0120
clay, hydrothermal, interstitial water, 0908450026
clay, illitic
interstitial water, geochemistry, Baja California, 640680
palynological residue, gulf mouth, 640738, 640749
clay, K-bearing
chemistry, K/Ar age, 550688
Jingu Seamount, volcanics, 550688
K-feldspar, diagenetic, 330801
volcanic rocks, ages, 550665
clay, kaolinitic, 400967
Africa, 020418
detrital, eolian sources, 020418
North America, 020418
terrigenous origin, 020418
terrigenous sediment, 020415
clay, limonitic
Biscay Plain, 121189
Marcus Island, archipelagic apron, 200053
clay, magnesium
basalt, alteration, low-temperature, 511311
clay, palygorskite sepiolite, 020417
stable isotope, carbonate, 650383
clay, metalliferous
Bauer Basin, structure, 340157, 340159
sedimentology, sedimentation rate, 340789
clay, micaceous
deposition, 950802
Miocene depositional history, 950799
pebbles, petrography, 801040
clay mineralogy, 650368, 650371, 750845, 750852, 750853, 750862, 810683, 960711, 960733, 960738
Africa SW, continental margin, 400474, 400475
andesite-dacite, volcanism, 650372
Angola Basin, 750845
Al, 750847
attapulgit, 750846
basalt, 750847
CaCO₃, 750847
carbonate, 750847
CCD, 750847
chlorite, 750846, 750847
clay, 750846
climate, 750846, 750847
clinoptilolite, 750847
cristobalite, 750847
diagenesis, burial, 750845
feldspar, 750847
geochemistry, 750846
glauconite, 750847
glauconitization, 750847
illite, 750846, 750847
iron, 750846, 750847
kaolinite, 750846, 750847
lithology, 750846
manganese, 750846
MgO, 750847
mixed layer minerals, 750846
oxidizing currents, 750847
palygorskite, 750847
pedogenic detrital supply, 750847
quartz, 750847
relationship, 750846
silica, 750847
smectite, 750846, 750847
Sr/CaO ratio, 750847
strontium, 750847
aragonite, 960738
ash, 650372, 870634
Atlantic Ocean, 481091
Atlantic Ocean SE, paleoenvironmental evolution, 740664
attapulgit, 750862
biotite, 650372
Biscay, Bay of, 480703
calcite, 750862, 960738
carbonate, 750862, 750865
cement, 750866
derivation, 750866
carbonate, biogenic, preservation, 650372
chlorite, 750862, 750865, 960738
clastic component source area, 650371
clastic components, 650369
clay, 750865
gulf mouth, 650372
mixed layer, 750862, 750865
organic material, 650372
clay minerals, 750862, 960738
assemblage, 650368
authigenesis, 750866
distribution, 750862
clay, terrigenous, 650369
Cocos Plate, sediments, 670608
colloidal organic material, 650372
compaction, 750866
Cretaceous/Tertiary boundary, paleoenvironmental history, 740685, 740688
deposition, models, 960738, 960739
diagenesis, sediments, 750857
diagenetic history, 750864
aragonite, 750864
calcite, 750865
carbonate, 750865
clay, 750865
Eh/pH, 750865
glauconite, 750865
Mn/Fe ratio, 750865
turbidite, carbonate, 750865
diatoms, 750865
dolomite, 750862, 960738
dolomitization, 750866
East Pacific Rise, sediments, 650377
feldspar, 750865, 960738
finer-grained facies, mineral abundances, 960738
geochemistry, Cretaceous and Cenozoic sediments, 480704
glass, acidic, 650372
gulf, surface-water temperature, 650372
horizontal gradient, 960738
illite, 750862, 750865, 960738
Indian Ocean W, mineralogy, 400541, 42A0362
inorganic geochemistry, 960733
interstitial water, 350423
intraslope basin sediment, inorganic geochemistry, 960733
Japan Trench, sediments, 870633
kaolinite, 750862, 750865, 960738
lower fan, mineral abundances, 960738
major element, 960733
mineralogy, 38S0135

mineralogy (Cont.)

- Cretaceous and Cenozoic sediments, 480704
 minor element, 960733
 Mississippi Fan
 inorganic chemistry, 960733
 interstitial water, 960711
 mineralogy, 960738
 sediment, 960432
 mud, Quaternary, 870634
 mud, diatomaceous, 870634
 mudstone, 870634
 Pleistocene-Pliocene, 870634
 mudstone, diatomaceous, Pliocene-Miocene, 870634
 Orca Basin, 960733
 clay, 960711
 diagenesis, 960711
 interstitial water, 960711
 methane, 960777
 sedimentation rate, 960711
 transport, advective, 960711
 transport, diffusive, 960711
 orthoclase, 750862
 orthoclase/plagioclase ratio, 750862, 750865
 Pacific Ocean NW, 860549
 Pigmy Basin, 960711, 960733
 plagioclase, 750862, 960738
 postdepositional changes, 750866
 pyrite, 750862
 hydrothermal origin, 650372
 pyrite, authigenic, 650372
 quartz, 750865, 960738
 quartz/feldspar ratio, 750862, 750865
 Quaternary sediments, 650369
 Quaternary turbiditic sediments, 870633
 redeposited glauconitic material, 650371
 Rockall Plateau, 480703
 Tertiary deposits, 810681
 sand
 grading, 870634
 mineral abundances, 960738
 sand, vitric, 870634
 sandstone, volcanic, devitrification, 750866
 sediment homogeneity, 650371
 sediment mineralogy, 960738
 sediment-basalt contact, 650372
 sedimentation regime, 650371
 Shikoku Basin, hemipelagite, 870633
 silicification, 750866
 silt, 870634
 mineral abundances, 960738
 silt-sand-clay, 960738
 smectite, 750862, 750865, 960738
 origin, 750863
 stratigraphic evolution
 Africa, 750863
 Benguela Current, 750864
 biotite, 750863
 calciturbidites, 750864
 CCD, 750864
 chlorite, 750863
 feldspar, 750863
 illite, 750863
 kaolinite, 750864
 microcline, 750863
 Q/F ratio, 750863
 sandstone, feldspathic, 750863
 smectite, 750863
 turbidite, 750863, 750864
 turbidite, carbonate, 750864
 Walvis Ridge, 750863
 weathering, continental, 750863
 zircon, 750863
 subsidence, tectonics, 750853
 terrigenous material, source stability, 650371, 750865
 trace elements, 960733
 turbidite, 650369
 petrology control factor, 750862
 post-Albian, 750865
 turbidity current, 650371, 750862
 volcanics, 750865
 Walvis Ridge, 740680, 750845
 abundance fluctuations, 750850
 chlorite, 750850
 climate, 750850
 climatic, oceanographic evolution, 740680
 composition homogeneity, 750850
 feldspar, 750850
 illite, 750850
 kaolinite, 750850
 mixed layers, 750850
 paleoenvironmental evolution, 740663
 palygorskite, 750850
 quartz, 750850
 sediments, 750845
 smectite, 750850
 wood fragment abundance, 650372
 clay minerals, 010554, 060843, 140727,
 150923, 200335, 220729, 220731, 280747,
 38S0009, 38S0015, 38S0017, 38S0018,
 38S0021, 38S0026, 38S0028, 390399,
 390429, 411087, 42A0447, 42A0448,
 42A0449, 42A0452, 47A0595, 47B0686,
 47A0699, 490443, 500715, 500717, 500720,
 510721, 510731, 511265, 560941, 560944,
 560946, 560949, 560950, 560954, 560957,
 560962, 560963, 560979, 560984, 560986,
 560989, 560990, 580992, 590597, 590598,
 590599, 590600, 590601, 590602, 670515,
 670518, 670520, 680384, 680388, 680390,
 680394, 700225, 710377, 810683, 810685,
 810687, 810688, 810689, 810692, 860572,
 860574, 870634, 901444, 901445
 abyssal sedimentation, 590600
 acoustic properties, Pacific Ocean NW, 860549
 Aden, Gulf of, 241056
 Africa, shield, 500720
 Africa SW, continental margin, 400471
 Albian to Cenomanian, 500716
 Albian-Cenomanian, 500716
 Alboran Basin, 130670
 Alboran Basin W, alteration, diagenetic, 130670, 130671
 alteration
 mineralogy, 370776, 370797, 370801,
 540775, 540776
 products, 810733, 810740
 remnant arc debris, 590737
 alteration, low-temperature, 180937
 basalt, 490709, 490712
 mineralogy, 370795, 370801, 490710
 Angola Basin
 clay mineralogy, 750846
 geochemistry, 750846, 751100
 geologic evolution, 750522
 petrochemistry, 751101
 Antarctic Bottom Water, 390403
 turbidity, 390402
 Antarctica, 720986
 continental rise, 350479
 glaciation, 291041
 apatite, 38S0016
 Aptian, 500716
 Arabian Sea, sediment history, 230506,
 230508, 230509, 230510, 230512, 230516
 ash, 38S0016, 38S0026, 680384, 680388
 ash, vitric, 680388
 clinoptilolite, 680388
 devitrified, 901445
 distribution, 660692
 feldspar, alkali, 680388
 phillipsite, 680388
 ash, tuff, 38S0014, 38S0015
 Asia, 580992
 Atlantic continental margin, mineralogy, 121141
 Atlantic continental margin NW, evolution, 440951
 Atlantic Ocean
 Cenozoic sediments, 140809
 Cretaceous sediment, 140809
 Atlantic Ocean N, 140727
 clay, 481091, 481092, 481094, 481095
 mineralogy, 140727
 origin, 140727
 western, 510731
 Atlantic Ocean NE, 410087, 411087, 810689, 941089
 evolution, 411221, 411234
 margin, 500717
 Atlantic Ocean NW, 510721, 510731
 lithology, 110914, 110919, 110923,
 110934, 110936
 microfacies, 440480
 regional aspects, 110960
 Atlantic Ocean S, 390395
 Argentine Basin, 391121
 Malvinas Outer Basin, 391110
 Paleogene, 720983
 Sierra Leone Rise, 391121
 Atlantic Ocean SE
 Cretaceous, 740771, 740773, 740780
 paleoenvironment, 740663
 paleoenvironmental evolution, 740664, 740665
 Atlantic Ocean SW
 Mesozoic, 710377
 paleoenvironment, 710317, 710319, 710320,
 710321, 710328, 710329, 710331, 710336,
 710337, 710339, 710340, 710341
 stratigraphy, 720383
 Atlantic Ocean W, 931245
 attapulgitic, 500715, 500716, 500720
 authigenic hydrothermal sediment, 680390, 680394
 authigenic minerals, 560987
 alteration, 600463
 authigenic volcanic sediment, 680384, 680394
 Baja California, terrigenous deposit, 630611
 Baja California Seamount Province
 basalt, 630716, 630717, 630718
 petrography, 630689
 Barbados Ridge, 780603
 barite, 680390
 basal reflections, 200335, 200336
 chlorite, 200335, 200340
 clinoptilolite, 200336, 200337
 illite, 200335, 200336, 200341
 kaolinite, 200335, 200336, 200339
 mica, hydrous, 200336, 200338
 montmorillonite, 200335, 200336, 200338,
 200339, 200340
 overlap, 200335
 silica, 200336
 basalt, 280748, 38S0009
 alteration, 370798
 alteration, low-pressure, 370776
 alteration, low-temperature, 511300,
 511301, 511305, 511306, 511307
 Barbados Ridge, 780394, 780396, 780398
 Beacon Group, 280748
 dilution, 280748
 erosion, 280748
 petrochemistry, 630727
 pyroxene, 590696, 590699, 590700
 basalt, altered, geochemistry, 580810

- basaltic terrane, 810687
 Bauer Basin, sediment, 850793
 beidellite, 220731
 Bellingshausen Basin, 350479
 Bellingshausen Plain, 350479
 Bermuda Rise
 basalt, 511201, 511202, 511203, 511204, 511205, 511211, 511265
 mineral, secondary, 511258, 511262
 oxygen, 511177, 511178
 Berriasian, 500716
 biostratigraphy, 42A1140
 Biscay, Bay of, 480703
 Black Sea
 interstitial water, 42B0649
 sediments, 42B0375
 Blake Basin, 760429, 760433, 760437, 760772
 sediments, 760429, 760433, 760437
 stratigraphy, 760437
 Brazil Basin
 Recent-Eocene sedimentation, 721001
 stratigraphy, 720383
 breccia, volcanic, Neogene, 630646, 630647, 630649, 630650, 630652
 burrow mottling, silt, 291053
 calcite, 670515, 670523
 California, Gulf of, gulf mouth, 650399, 650406, 650410
 California S, terrigenous deposit, 630611
 Canary Islands, 47A0595
 carbon, geochemistry, 380798
 carbon isotope, stable, vein filling, 410938
 carbon, organic, 42A0459
 diagenesis, 670610
 carbonaceous detritus, 38S0013
 carbonate, 42A1211, 560981
 sediments, 320893, 320896
 carbonate mineral, stable isotopes, 550653
 carbonate, secondary, vein, 580905, 580906
 celadonite
 Al, 511269
 calcium, 511269
 hydromica, 511269
 iron, 511269
 magnesium, 511269
 potassium, 511269
 protoceladonite, 511271
 sodium, 511271
 V, 511269, 511271
 Cenozoic, 500715, 500717, 710377, 710380, 710382, 710383, 710385, 710387, 931023
 Atlantic Ocean SW, 710377
 sediment history, 710385, 710386, 710387
 sedimentary environment, 710379
 smectite, 710377
 stratigraphy, 590597
 Cenozoic environment
 Japan Trench, 870633
 seismic coherence, 870633
 Cenozoic sediments
 Atlantic Ocean SW, 710377
 lithology, mineralogy, geochemistry, 450323, 450326, 450327, 450330
 Pacific Ocean N, 620537
 Chagos-Laccadive Plateau, 241056
 Chatham Rise, Quaternary, 901431
 chemical analysis
 alteration, 960695
 chlorite, 960695
 fan, submarine, 960695
 gulf coast sediments, 960695
 illite, 960695
 kaolinite, 960695
 slumping, 960695
 smectite, 960695
 trace elements, 960695
 chemistry, 650416
 assemblage, 650416
 chemistry, petrography, 550687
 chert
 mineralogy, 320443
 Pacific Ocean E, 160611
 petrography, 320443
 China, source, 580997
 chlorite, 060844, 220730, 220731, 38S0018, 38S0021, 38S0028, 38S0037, 47B0687, 500716, 500717, 590598, 590600, 670515, 810687, 860572, 901445
 abundance, 220731
 source, 590600, 590602
 chlorite-montmorillonite, 560981
 chlorite/kaolinite ratio, 560957, 560962
 circulation, oceanic, 590597
 circulation patterns, 810692
 clastic material, 38S0017
 clay, 291053, 300432, 300434, 38S0013, 38S0014, 38S0015, 38S0016, 38S0018, 38S0021, 38S0026, 38S0028, 38S0029, 500715, 500720, 860572, 901445, 960579, 960580
 authigenic origin, 560987
 glauconite, 291053
 mineralogy, 860553
 $^{16}\text{O}/^{18}\text{O}$ ratio, 350493, 350495
 clay, green, 700216
 Al, 700216
 celadonite, 700218
 clay mineralogy, Orca Basin, 960711
 claystone, 500716
 climate, 390399
 climatic factors, 500717, 500720
 clinoptilolite, 38S0009, 500716
 Colombian Basin, isotope stratigraphy, 680447
 continental rise vs. east coast, Cretaceous, 930985
 continental source, 810687
 Costa Rica Rift
 alteration minerals, 690556, 690557, 690558
 basalt, 690498, 690512, 690514, 690515, 690524, 690525, 690526, 690527, 690574
 chalk, 690406
 stockwork-like zone, 830277
 Costa Rica Rift Zone
 basalt, 830222, 830224, 830230, 830233, 830234, 830235, 830237, 830257, 830283, 830284
 distribution, 830238
 stockwork-like zone, 830265, 830268, 830269, 830273, 830274
 Cretaceous, 47A0595, 500715, 500717
 continental rise vs. east coast, 930985
 cyclic sedimentation, 770364
 diagenesis, 47A0596
 mudstone, 47A0595, 47A0596
 organic matter, 47A0596
 Cretaceous and Cenozoic
 Biscay, Bay of, 480703, 480704, 480705, 480707, 480708, 480709, 480711, 480716, 480718, 480719, 480720
 Rockall Rise, 480703, 480704, 480705, 480707, 480708, 480709, 480711, 480716, 480718, 480719, 480720
 Cretaceous-Holocene sediments, 560985
 Cretaceous/Tertiary boundary
 mineralogy, 620851
 paleoenvironmental history, 740687
 cristobalite, 500715, 500716
 crust, oceanic, seawater interaction, 511169
 crystallinity index, 680384
 crystallization, 38S0029
 currents, 901231, 901235
 Eocene-Oligocene, 901231
 Miocene, 901234
 Miocene-Pleistocene, 901234, 901235
 New Zealand, 901235
 Daito Basin, 580993
 origins, 580993
 sources, 580993
 Daito Ridge, 580993
 origins, 580993
 sources, 580993
 deep-sea trench, sedimentary facies, 670610
 deposition, 810689
 chalk, nannofossil, 250493
 Lesser Antilles, 780316
 models, 960739
 ooze, nannofossil, 250493
 origin, 600448
 diagenesis, 560963, 560979, 560993, 600467, 960584
 calcium concentration, 600467
 Cenozoic history, 600467
 clay, authigenic, 600497
 exchangeable cation data, 960584
 Japan Trench, 560979
 magnesium, 600467
 Mariana Trough, 600467
 Pacific Plate W, 600467
 sediment source, 600467
 slope sediments, 840571, 840573, 840578, 840579, 840582, 840586, 840588, 840589
 variations, 960584
 diagenesis, burial, pelite, 230424, 230425, 230426, 230427
 diagenesis, low-temperature, transformations, 350479
 distribution, 490443, 560981
 amorphous phase, 560983, 560984
 ash, vitric, 560985
 Atlantic Ocean S, 390395
 carbonate, 560983, 560984
 chlorite, 560983, 560984
 chlorite-montmorillonite, 560983, 560984
 clinoptilolite, 560984
 dioctahedral minerals, 560983
 Fe-montmorillonite, 560984
 feldspar, 560983, 560984
 illite, 560981, 560984
 illite-montmorillonite, 560981, 560984
 kaolinite, 560983, 560984
 montmorillonite, 560984
 palygorskite, 560984
 palygorskite-sepiolite minerals, 560984
 quartz, 560983, 560984
 dolerite, 630712, 630720
 aggregate, 630713
 crystallization, 630713, 630714
 distribution, 630721
 fillings, 630713
 formation, 630713
 isolation types, 630713
 reflection, 630722
 replacement, 630714
 secondary, 630716
 smectitic composition, 630722
 dolomite, 500717
 isotope geochemistry, 42A0542
 dolomite, diagenetic, mud, anoxic diatomaceous, 640559
 dolosparite, petrography, 800901
 East Mariana Basin, mineralogy, 890414
 East Pacific Rise, 540307, 540310, 540311, 650380
 basalt, 540405
 boron, 920379
 calcareous, 540312

- East Pacific Rise (Cont.)
 clay, calcareous, 540311
 ooze, calcareous, 540310
 ooze, foraminiferal nannofossil, 540310, 540311, 540312
 ooze, nannofossil, 540312
 ooze, siliceous, 540310
 ooze, siliceous nannofossil, 540311
 phillipsite, 540310
 sediments, 650377
 sulfur, 920379
 Edoras Bank, 810683
 Emperor Seamounts
 mineralogy, 550463, 550465, 550466
 petrology, 550509, 550516, 550582
 environment, 42A0447, 42A0448, 42A0449, 42A0452
 carbon, organic, 42A0459
 degradation, 42A0461, 42A0462
 sapropel, 42A0459, 42A0462
 Eocene, 500716
 Eocene-Oligocene, 901445
 Eocene-Pleistocene, 38S0009
 euxinic sediment
 Cenozoic organic sediments, 750852
 shale, black, 750852
 evolution, stratigraphic, 580992
 Falkland Plateau, 710377
 fan, submarine, Cretaceous, 931079
 Fe₂O₃ content, 560987
 Fe-montmorillonite, 560979
 feldspar, 560981, 860572
 FeO content, 560987
 fleecy pedogenic particles, 901444
 Florida, Straits of, paleoenvironment, 770388
 foraminifers, 38S0017
 gabbro, phase chemistry, 370841, 370844
 Galapagos Rise, crust, oceanic, 540310
 Galapagos Spreading Center, 540307, 540313
 crust, oceanic, 540312, 540313
 hydrothermal deposits, 540339
 ooze, foraminiferal nannofossil, 540313
 ooze, siliceous, 540313
 garnet, 38S0016
 gas hydrate, trench slope, 670605, 670608
 gas, natural, zonation, 110797
 genesis, 411087
 genetic relationships, 540313
 geochemical partitioning
 cobalt, 650428
 copper, 650427
 magnesium, 650428
 zinc, 650428
 geochemistry, 720430, 720438, 810740
 Cenozoic sediments, 42B0587
 Cretaceous and Cenozoic sediments, 480708
 Hatton Drift, 810733
 Hatton Ridge, 810740
 major oxides, 540359
 mathematical treatment, 500702
 mineralogy, 620851
 ooze, foraminiferal nannofossil, 540375
 glaciation, 810687
 glass, 220731, 511271
 heterogeneity, 630736
 glass, volcanic, 901445
 glauconite, 38S0015, 38S0017, 810689
 Goban Spur
 evolution, 801208
 silicified sediment, 801081
 Greenland Sea, 38S0222, 38S0231, 38S0232, 38S0233, 38S0235
 ash, 38S0231
 basalt, 38S0241
 breccia, 38S0233
 calcareous sediments, 38S0235
 chlorite, 38S0231, 38S0232, 38S0233, 38S0235
 clay, 38S0232, 38S0233
 conglomerate, 38S0233
 Eocene, 38S0231, 38S0232
 gravity flow, 38S0231
 illite, 38S0231, 38S0232, 38S0235
 interbedding, 38S0232
 kaolinite, 38S0231, 38S0232, 38S0233, 38S0235
 mica, 38S0232, 38S0233, 38S0235
 Miocene, 38S0231
 Miocene to Pleistocene, 38S0235
 montmorillonite, 38S0231, 38S0232, 38S0233, 38S0235
 mud, 38S0231, 38S0232, 38S0233, 38S0235
 mud, diatomaceous, 38S0231
 mud, terrigenous, 38S0231, 38S0233, 38S0235
 mudstone, 38S0231, 38S0233, 38S0235
 mudstone, terrigenous, 38S0233, 38S0235
 Oligocene, 38S0235
 Oligocene to Miocene, 38S0235
 ooze, calcareous, 38S0231
 ooze, diatomaceous, 38S0231
 plagioclase, 38S0232, 38S0235
 quartz, 38S0232, 38S0235
 sand, 38S0231
 zeolite, 38S0233
 Guadalupe Island, alteration, 630714, 630716
 Guatemala
 slope sediment, 840628
 trench, 670515, 670518, 670520, 670522
 Guaymas Basin, metamorphism, 641129
 halite, chemistry, 42A0614
 Hatton Drift, 810683
 Hauterivian, 500716
 heavy metals, Cenozoic sediments, 450349
 Hess Rise, 621046
 post-Jurassic sedimentation, 620819
 pyrite-marcasite, 620861
 Hess Rise N, sedimentary sequences, 620759, 620763, 620765
 hornblende, 38S0016
 hydrate, high-porosity lithologies, 670592
 hydrocarbon, low molecular weight, 711035
 hydrocarbon, extractable, organic
 petrology, 630820, 630824
 hydromica, 38S0028
 hydrothermal activity, petrology, 641129
 hydrothermal alteration, 650419
 sediments, 650420
 hydrothermal deposits, origin, 540418
 hydrothermal mounds
 chlorite, 700227
 composition, 700225, 700228
 Galapagos, 700225, 700226, 700228
 mica, 700226
 ice rafting, 38S0021, 38S0028, 810688
 Iceland Basin, Cenozoic sediments, 38S0074
 idiomorphic rhombohedrons, 500717
 igneous rocks, chemical composition, 590720
 illite, 060844, 38S0021, 47B0687, 500716, 500717, 560980, 590598, 590600, 590602, 810687, 860572, 901445
 illite-montmorillonite, 560979
 illite/smectite ratio, 560957
 Pleistocene, 560963
 ilmenite, 38S0016
 Indian Ocean E
 abyssal plain sediment, 271007, 271008
 grain size, 270520
 Indian Ocean NE, Cretaceous, 220729, 220731
 Indian Ocean S, geologic history, 260914
 Indian Ocean W
 Aden, Gulf of, 241056
 Chagos-Laccadive Plateau, 241056
 chlorite, 241058
 clay, 241056
 feldspar, 241056
 geochemistry, 250407
 kaolinite, 241058
 Mascarene Plateau, 241056
 mica-illite, 241058
 mineralogy, 411070
 montmorillonite, 241058
 palygorskite, 241058
 quartz, 241056
 regional aspects, 250755, 250758
 Somali Basin, 241056
 volcanic material, 241056
 volcanic sediment, 250515, 250517
 inorganic chemistry
 associations, 960738
 increase, 960738
 inorganic geochemistry, sediments, rocks, 750951
 Angola Basin, 750924
 Mid-Pacific Mountains W, 620688
 intensification, boundary current, 590601
 interbedding, 38S0017
 interstitial water
 Angola Basin, 750959
 diagenesis, 111004
 ion exchange reaction, 870869
 sediment relationship, 870870, 870871, 870872
 Walvis Ridge, 740703
 interstitial water, geochemistry
 Baja California, 640676
 Guaymas Basin, 640689
 intraslope basin, 960718
 Holocene, 960718
 isotopic composition, formation, 370608
 Israel, history, 42B1212
 Japan, 580992
 Japan Current, 580992
 Japan Trench, 560941, 560944, 560946, 560949, 560950, 560954, 560957, 560962, 560963, 560979, 560981, 560983, 560984, 560986, 560989, 560990, 870635
 amorphous phase, 560983, 560984
 ash, vitric, 560985
 authigenic origin, 560987, 560988
 carbonate, 560981, 560983, 560984
 Cenozoic environment, 870633
 chlorite, 560980, 560983, 560984, 870635
 chlorite-montmorillonite, 560979, 560983, 560984
 chlorite/kaolinite ratio, 560957, 560962
 clay, 560987
 clinoptilolite, 560984
 Cretaceous-Holocene sediments, 560985
 crystallinity, 870635
 diagenesis, 560963, 560979, 560993
 Fe₂O₃ content, 560987
 Fe-montmorillonite, 560979, 560984
 feldspar, 560981, 560983, 560984, 870635
 FeO content, 560987
 homogeneity, 870635
 illite, 560980, 560981, 560984, 870635
 illite-montmorillonite, 560979, 560981, 560984
 illite/smectite ratio, 560957, 560963
 interstitial water, 870853, 870868
 kaolinite, 560980, 560983, 560984, 870635
 MgO content, 560987
 microelements, 560987
 minerals, 870638
 Miocene sediment, 560985, 560990, 870635
 Miocene-Quaternary sediments, 870647

- Japan Trench (Cont.)
 mixed-layers, 870635
 montmorillonite, 560979
 mudstone, diatomaceous, 560990
 Na₂O, 560987
 opal, 870635
 origins, 560987
 paleographic aspects, 560979
 palygorskite, 560984
 palygorskite-sepiolite minerals, 560981, 560984
 passage bed, 560985, 560987, 560989
 Pliocene-Holocene sediments, 560985, 560987
 Pliocene-Miocene sediment, 870635
 Pliocene-Pleistocene sediments, 560984
 Pliocene-Pleistocene terrigenous sediments, 560990
 quartz, 560981, 560983, 560984, 870635
 sediment history, 560991, 560993
 siliceous rocks, 561137
 silt, 870635
 SiO₂ content, 560986
 smectite, 870635
 structure, 870635
 terrigenous origin, 560987
 upper rock mass, 560984
 zeolite, 560981
 Jingu Seamount, volcanics, 550687
 Jurassic, 500717
 kaolinite, 010543, 060844, 220730, 220731, 280747, 38S0018, 38S0021, 38S0028, 390429, 47B0687, 500716, 500717, 560980, 590598, 590600, 590602, 670515, 680390, 860572, 901445
 abundance, 220731
 Antarctica, 280747
 Miocene, 280747
 Pliocene-Quaternary, 280747
 terrigenous sediment, 280747
 lamination, 38S0015
 laths, 901444
 least-altered rocks, chemistry, 630736
 limestone, carbonaceous, Cretaceous, 800890
 lipid
 acyclic components, 610615
 humic acid, 571383
 lithologies, major
 chalk, 901480
 ooze, calcareous, 901480
 lithologies, minor, chalk, 901482
 lithology, 040066, 040246, 060059, 060070, 060145, 060146, 060173, 060196, 060197, 060198, 060224, 060225, 060247, 060296, 060350, 060351, 060390, 060449, 060450, 060493, 060495, 060541, 060558, 060587, 100025, 100030, 100051, 100126, 100261, 130121, 160305, 160369, 180016, 190467, 210060, 210372, 220016, 220038, 230170, 240251, 240252, 240285, 240329, 240330, 240472, 250184, 260159, 270282, 290048, 290196, 290369, 300030, 300073, 310029, 310050, 310051, 310052, 310138, 310173, 310354, 310443, 320022, 320080, 320083, 320162, 320164, 320165, 320238, 330045, 330109, 350067, 350068, 360020, 360032, 38S0021, 380036, 380161, 380162, 380163, 380164, 380168, 380170, 380172, 380173, 380176, 380177, 380178, 380528, 380530, 380580, 390107, 390147, 390149, 390150, 390235, 390241, 390376, 400042, 400043, 400047, 400192, 400195, 400196, 400198, 42B0034, 42B0037, 42B0124, 42B0125, 42B0130, 42B0133, 42B0137, 42B0138, 42A0155, 42A0181, 42A0182, 42A0226, 42A0229, 42A0231, 42A0233, 42A0234, 42A0235, 42A0237, 42A0238, 42B0294, 42B0296, 42B0298, 42A0308, 42A0327, 42A0328, 430201, 430204, 430205, 430208, 430210, 430211, 430212, 430330, 430333, 440075, 47A0026, 47A0027, 47A0029, 47A0030, 47B0035, 47B0037, 480079, 480132, 480135, 480175, 480178, 480179, 480219, 480222, 480225, 480226, 500126, 500128, 500140, 510042, 510043, 510044, 510045, 510047, 510360, 510361, 810685, 810688, 810689
 abundance, 870836
 Amazon Ridge, 390397
 anhydrite, 130153
 Argentine Basin, 390398
 ash, 130122, 130195
 basalt, 270134
 Brazil Basin, 390397, 390403, 721021
 Callovian (-Oxfordian), 110079
 Cenozoic units, 480044, 480047
 chalk, 120411
 chert, 170153
 clay, 110353, 300137, 300140, 960478
 clay, green, 300140
 clay, nannofossil, 120766
 clay, quartzose, 140023
 clay, red, 120682, 120683, 120765
 clay, zeolitic, 170020, 170264
 Cretaceous, 110109
 Eocene, 110013
 evaporites, 130150
 limestone, 140023, 170153
 Mesozoic deposits, 47B0051, 47B0052, 47B0053
 Mesozoic units, 480049
 Miocene, 110012
 mud, 960478
 mud, terrigenous black, 130369
 mudstone, 120259, 140023
 Neocomian-Tithonian, 110057
 Oligocene, 110012
 ooze, foraminiferal nannofossil, 140220
 ooze, limestone, 120411
 ooze, marl, 130064, 130423
 ooze, nannofossil, 300141
 Oxfordian-Kimmeridgian, 110057, 110079
 Pleistocene, 110012
 Pleistocene sediments, 110140
 Pliocene to Eocene, 110317
 Quaternary-Neogene, 110056, 110057
 Quaternary-Tertiary, 110225
 Recent, 110012
 sand, 130390
 sandstone, terrigenous, 130369
 Santos Plateau, 390398
 sapropel, 130195
 shale, 140023
 silt, 300137
 Tertiary, 110109
 turbidites, 120765
 lithology, Tertiary
 Eocene, 380763
 Miocene, 380767, 380771
 Pliocene, 380771
 lithostratigraphy, 42A1140, 810687, 810688
 chlorite, 810687
 continental source, 810687
 glaciation, 810687
 ice rafting, 810688
 illite, 810687
 quartz, 810687
 smectite, 810687
 Lord Howe Rise
 pale green laminae, 901157
 rhyolite, 210535
 Magdalena Bay
 dolerite, 630723
 sulfide, 630702
 magnetite, 38S0016
 manganese, 291084, 38S0029
 silica, 291084
 manganese oxide, 560987
 Manihiki Plateau, spherule origin, 330880
 marginal basins, 500720
 Mariana Islands, fore arc, 600652, 600653, 600743
 Mariana Trench, petrography, 600721
 Mariana Trough, basalt, 600650
 marl, nannofossil, 38S0021
 marl ooze, 680388, 680391
 Mascarene Plateau, 241056
 matrix, 060249
 Mazagan Escarpment, 790520, 790906
 Mazagan Plateau, 790390, 790395, 790498, 790499, 790500
 mechanisms of formation, 590600
 Mediterranean Ridge, 130731
 mineralogy, 130735, 130739
 Mediterranean Sea, 42A0389
 Messinian, 130680
 Mediterranean Sea E, history, 42B1212
 Meiji Guyot, K/Ar age, 550678
 Melanesian Basin, 610587, 610588, 610589
 genesis of minerals, 610590, 610592, 610593
 minerals, 610587
 Mendoza Rise, lithology, 920436
 Mesozoic, 710377, 710380, 710382, 710383, 710385, 710387
 sediment history, 710385, 710386, 710387
 sedimentary environment, 710379
 smectite, 710377
 Mesozoic, Cenozoic, 710377
 Mesozoic sediments
 Atlantic Ocean SW, 710377
 Pacific Ocean N, 620537
 Mexico, Gulf of, regional aspects, 010626
 mica, 010543
 mica-illite, 220730, 220731
 abundance, 220731
 microelements
 Ag, 560987
 chromium, 560987
 Co, 560987
 copper, 560987
 lead, 560987
 nickel, 560987
 tin, 560987
 vanadium, 560987
 zinc, 560987
 Mid-Atlantic Ridge, 490443
 basalt, 460304, 460305
 isotopes, 450543
 Mid-Pacific Mountains, 621081, 621084, 621092, 621098, 621100
 Mid-Pacific Mountains W, Aptian sediments, 620904, 620905, 620909
 Middle America Trench, transect, 670529, 670533, 670605, 670608, 670610
 mineral, chemical composition, 660713
 mineral, chemical composition, sediments, 38S0041
 mineral, diagenetic, silica minerals, diagenetic, 801085
 mineral, secondary, Guaymas Basin, 650644
 mineralogy, 130717, 130719, 411087, 440509, 540343, 540344, 550857, 650391, 810688, 850781, 960584
 abundant phases, 140728
 Al₂O₃, 140730
 amorphous constituents, 140728
 ash, altered, 140730

mineralogy (Cont.)

- assemblage, 650416
- Atlantic Ocean, 140728, 140729, 140730
- Atlantic Ocean N, 140727
- attapulgite, 600438
- basalt, 140730
- bentonite, 140730
- biotite, 140728
- CaO, 140730
- carbonate, 140728
- chert, 140728, 140730
- chlorite, 140729, 600438
- chlorite-montmorillonite, 140731
- clay, 140728
- clay, dolomitic, 140730
- clay, siliceous, 140730
- claystone, 440509
- clinoptilolite, 140730
- common phases, 140728
- Cretaceous and Cenozoic sediments, 480708
- crystallinity, 140728
- exchangeable cation data, 960584
- feldspar, 140728
- glass, 140730
- glass, devitrified, 140730
- Goban Spur, 801020, 801026, 801031, 801032
- graywacke, feldspar-rich, 140729
- halmyrolysis, 140730
- hectorite-saponite, 140730
- hydromuscovite, 140728
- hydrothermal origin, 540347
- illite, 140730, 600438
- instability, 540347
- interstratification, 140731
- iron oxide, 140728
- K₂O, 140730
- K-feldspar, authigenic, 140730
- kaolinite, 140728, 140729
- kaolinite-chlorite, 140729
- main constituent categories, 140728
- Mariana Trough, 600457
- marl ooze, 140728
- marl, red, 440510
- mica-illite, 140728
- montmorillonite, 140728, 140730
- mud, zeolitic, 140728
- muscovite, 140728
- Na₂O, 140730
- nontronite, 140730
- occurrence, 140728
- ooze, foraminiferal nannofossil, 540347
- ooze, nannofossil, 140730, 440510
- opal-CT, 140730
- origin, 140728
- palagonite, 140730
- palygorskite, 140730
- palygorskite-sepiolite, 140730
- Panama Basin, 540347
- pelagic sediments, 140728
- Pendragon Escarpment, 801021
- phases, 140728
- phyllosilicate minerals, 140730
- Porcupine Plain, 801021
- primary textures, 600710
- pumice, 140730
- pyrite, 140728
- pyroxene, 140730
- quartz, 140728
- random-orientation specimens, 140728
- sand, graywacke, 140729
- sand, terrigenous, 140728
- sanidine, 140730
- sepiolite, 140730
- sericite, 140728
- serpentine, 600438
- shale, carbonaceous, 140728
- sideromelane, 140730
- silicate, authigenic, 140731, 140732, 140733, 140734, 140736, 140737
- SiO₂, 140730
- smectite, 140730, 600438
- traces, 140728
- tuff, carbonate, 140729
- turbidites, 130714, 130717
- variability, 801021, 801022
- variations, 960584
- volcanic sources, 140730
- volcanogenic sediments, 140728, 440509
- zeolite, 140728, 140730
- Miocene, 47A0596, 500716
- sandstone, volcanoclastic, 47A0598, 47A0599, 47A0600
- Miocene sediment, 560985, 560990
- Miocene-Pleistocene, 47A0600, 47A0601, 630611, 630612
- alteration, 630619
- California, Gulf of, 630618
- chalk, 47A0600
- chlorite, 47A0601
- consolidation, 630619
- environmental peculiarities, 630611
- limestone, 47A0600
- off continental slope, 630616, 630618
- primary composition, 630619
- smectite, 630619
- smectite, authigenic, 630620
- Southern California Borderland, 630613, 630614, 630615
- Miocene-Pliocene, 901445
- Mississippi Fan, 960711, 960716, 960733
- reduction, 960716
- sediment, 960430, 960432
- mixed layer clay, 860572
- monsoon system, 590601
- montmorillonite, 38S0028, 390429, 390438, 47B0687, 560979, 010543, 220730, 280747, 280748, 38S0009, 38S0016, 38S0017, 38S0018, 38S0021, 38S0026
- ash, 280748
- Beacon Group, 280748
- Oligocene to Miocene, 280747
- Pliocene and Miocene, 280747
- pyroxene, 280748
- ultramafic/mafic intrusions source, 280748
- montmorillonite, volcanic, 38S0029
- montmorillonite-hydromica, 38S0014
- Moroccan Basin, 500715
- Morocco, margin, 500715
- morphology, 860572
- chlorite, 860572
- diatom debris, 860572
- illite, 860572
- kaolinite, 860572
- mixed layer clay, 860572
- palygorskite, 860572
- radiolarian debris, 860572
- siliceous debris, 860572
- smectite, 860572
- mud, 870913
- mud, diatomaceous, Guaymas Basin, 641192
- mud, terrigenous, 250456
- mudstone, petrology, 180904, 180906, 180907, 180910, 180911, 180912
- mudstone, diatomaceous, 560990
- Na₂O, 560987
- Nankai Trough, 870634, 870635
- amphiboles, 870634
- Cenozoic environment, 870633
- chlorite, 870634
- feldspar, 870634
- homogeneity, 870634
- illite, 870634
- interstitial water, 870866
- kaolinite, 870634
- mixed layer, 870634
- Pleistocene, 870635, 870636
- Pleistocene sediment, 870634
- Pleistocene-Pliocene sediment, 870634
- quartz, 870634
- smectite, 870634
- turbidite, 870913
- nannofloral analysis, Aptian cycle, 711060
- Nazca Plate, South America, 340795, 340797, 340798
- Neogene formations, paleogeography, 42A0912, 42A0914
- New Jersey Transect, 931023
- Cenozoic, 931023
- stratigraphy, 950767
- New Zealand
- Cenozoic changes, 901230, 901231
- tectonics, 901231, 901234, 901235
- Nile Fan, 130731
- mineralogy, 130735, 130739
- nitrogen, inorganic
- ammonia fixing, 800996
- ammonium, 800996
- nitrogen, organic
- ammonia fixing, 800996
- ammonium, 800996
- nontronite, clay, green, 700218
- North Carolina, continental rise, 931079
- Oligocene, 500717
- Oligocene and Pliocene, 38S0026
- ooze, radiolarian, 590598, 590600
- ooze, siliceous calcareous, 680390
- opal-CT, 860572
- Orca Basin, 960711
- organic geochemistry, specific organic geochemical changes, 960692
- organic matter, Aptian-Jurassic, 711019
- origin, 860572, 860574
- Atlantic Ocean N, 140727
- dolomite, ferroan, 42A0542
- sedimentation rate, 860576
- origins, 560987, 580673, 580992
- oxygen isotope, geochemistry, 350507
- oxygen isotope, stable, vein filling, 410938
- Pacific Ocean
- guyots, 620774
- sediments, 680392, 680394
- Pacific Ocean E, 540307, 540310, 540313, 680383, 850795
- Pacific Ocean EC, geologic history, 090928
- Pacific Ocean N
- Cenozoic sediments, 620537
- Mesozoic sediments, 620537
- mineralization, contact, 190906
- Pacific Ocean NE, cruise synthesis, 151090, 151091
- Pacific Ocean NW, 200335, 200336, 200337, 200338, 200339, 200341, 860552, 860572, 860726, 860748
- acoustic properties, 860549
- ash, 200338
- biotite, 200340, 200341
- calcite, 200336, 200339, 200341
- chalk, 200336, 200338
- chert, 200336, 200338
- chlorine, 200338
- chlorite, 200336, 200338, 200339, 200340, 860552, 860572
- clay, 200337, 860572
- clay, diatom, 200336
- clay, zeolitic, 200337, 200338
- clinoptilolite, 200336, 200338, 200340, 200341
- Cretaceous, 200336, 200337

- Pacific Ocean NW (Cont.)
 Cretaceous to Paleocene, 200338
 cristobalite, 200339, 200343
 diagenesis, burial, 200341, 200343
 Fe oxyhydroxide, 860552
 feldspar, 200336, 200339, 200340, 860552, 860572
 geochemical history, 620788
 illite, 200336, 200337, 200338, 200339, 200341, 860552, 860572
 interbedding, 200336, 200338
 kaolinite, 200336, 200337, 200338, 200339, 200340, 200341, 860552, 860572
 limestone, 200338
 marl, 200336
 mica, hydrous, 200339, 200340, 200341
 Miocene to Pleistocene, 200336
 Miocene to Quaternary, 200338
 mixed layer clay, 860572
 montmorillonite, 200336, 200337, 200338, 200339, 200340, 200341
 ooze, radiolarian, 200338
 opal-CT, 860572
 origin, 860574, 860576
 palygorskite, 200337, 200338, 200340, 200342, 200343, 860552, 860572
 phillipsite, 200339, 200340, 200341
 quartz, 200336, 200339, 200340, 200343, 860552, 860572
 Quaternary, 200337
 silica, 200336, 200337
 silica, opaline, 200341
 smectite, 860572
 tuff, 200338
 turbidites, 200338
 volcanism, 200341
 water molecules, 200341
 zeolite, 200339
 Pacific Ocean S, Tertiary, 291077, 291078
 Pacific Ocean SE, 350479, 350489
 hydrothermal sedimentation, 920606
 mineralogy, 920393
 Pacific Ocean SW
 Cenozoic, 901514
 Cenozoic paleoenvironment, 901225
 modern sediment distribution, 901438
 paleoceanography, 901507
 Pacific Ocean W, guyot, 200658
 palagonite, 511271
 Paleocene, 500716
 paleoenvironmental, Atlantic Ocean SW, 710317
 paleoenvironmental significance, Atlantic Ocean SW, 710317
 paleogeography, Japan Trench, 560979
 paleographic aspects, 560979
 palygorskite, 060844, 220730, 411099, 680384, 860572
 kaolinite, 411099
 montmorillonite, 411099
 palygorskite-sepiolite minerals, 560981
 Panama Basin, 540315
 sediments, 690386, 690392
 Panama, Isthmus of, emergence, 680392
 paragenetic assemblages, Assemblage IA(+), 710423
 particle, origin, 901226, 901230
 passage bed, 560985, 560989
 authigenic origin, 560987
 Patton Escarpment
 alteration, 630712, 630713
 petrography, 630687
 pebbles, petrography, 801041
 pelagic components, distribution, terrigenous, hemihyaline components, 250491
 Pendragon Escarpment, climatic results, 800742
 peridotite, phase chemistry, 370841, 370844
 petrology, 810796
 clay, 960501
 sand, 960497
 silt, 960501
 Siqueiros Fracture Zone, 540638
 Philippine Basin S, 590597
 sources, 590600, 590602
 Philippine Basin W, 590598
 stratigraphy, 590597
 Philippine Sea
 Daito Basin, 600419
 Daito Ridge, 600419
 lithology, 061171, 061173
 Mariana Trench, 600435
 Shikoku Basin, 600415
 stratigraphy, 590597, 600467
 West Mariana Basin, 600429
 Philippine Sea S, 590597, 590600, 590602, 590697, 600467
 chlorite, 590600, 590602
 illite, 590600, 590602
 kaolinite, 590600, 590602
 mechanisms of formation, 590600, 590602
 smectite, 590597, 590600, 590602
 sources, 590600
 stratigraphic history, 590600
 stratigraphy, 590597, 590697, 600467
 vermiculite, 590600, 590602
 phillipsite, 38S0014, 38S0016, 38S0027, 38S0029
 physical properties
 ooze, carbonate, 061171
 siliceous sediments, 061173
 Pigmy Basin, 960711
 interstitial water, 960711
 plagioclase, 38S0009
 Plantagenet Formation, 760763
 Pleistocene, 500716
 Pliocene, 47A0601, 500716
 Pliocene-Holocene sediments, 560985
 terrigenous origin, 560987
 Pliocene-Pleistocene, 500717
 Pliocene-Pleistocene sediments, 560984
 Pliocene-Pleistocene terrigenous sediments, 560990
 Pliocene-Quaternary, 901445
 diagenesis, 540314
 polymict breccia, clast, 600648
 porcellanite
 mineralogy, 320443
 petrography, 320443
 Porcupine Plain, Albian-Cenomanian, 800976
 pore water chemistry, 960692
 potash, chemistry, 42A0614
 preliminary organic analyses, 100636, 42B0723
 endothermic reactions, 42B0726
 Providence Channel NE, mineralogy, 100015
 pyrite, 38S0013, 38S0016
 pyrite, microcrystalline, ooze, nannofossil, 260606
 pyroclastics, 38S0017
 pyroxene, 38S0016
 quartz, 560981, 810687, 860572
 $^{16}\text{O}/^{18}\text{O}$ ratio, 350493, 350495
 rare earth elements
 sedimentation, 590667
 trace elements, 590663, 590664
 tuff, 590655, 590658, 590659
 residue, insoluble, fine-grained sediment, 670500
 Reykjanes Ridge, 490443
 Rio Grande Fracture Zone, geochemistry, 720429
 Rio Grande Rise
 mineralogy, 720996
 sediment, 720425
 sedimentation, 721017
 stratigraphy, 720383
 Rio Grande Rise E, carbonate, bulk, 720429
 Rivera Plate, alteration, 630720, 630721, 630722
 Rockall, magnetism, 480703
 Rockall Plateau
 sediments, 810811
 Tertiary deposits, 810669, 810670, 810673, 810674, 810676, 810680, 810681
 Rockall Rise, 810683, 941109, 941110, 941111, 941112, 941114
 Hatton Drift, 810683
 Ryukyu Islands, source, 580673
 sand, 38S0017
 sand, volcanic, 680388
 sand-silt-clay distribution, 38S0017
 sandstone, 500716
 petrology, 180919, 180920
 Santos Plateau, origin, 390936
 sapropel
 petrography, 130714, 130717, 130719
 sedimentology, 42A0447, 42A0448, 42A0449, 42A0452, 42A0459, 42A0461, 42A0462
 seaway opening, 810691
 sediment, 38S0055, 38S0062, 560941, 560944, 560946, 560949, 560950, 560954
 physical properties, 010580
 Pliocene-Quaternary, 540307
 sediment composition
 abundance, 960479
 aragonite, 960479
 calcite, 960479
 chlorite, 960479
 chlorite/kaolinite ratio, 960480
 dolomite, 960479
 feldspar, 960479
 illite, 960479
 kaolinite, 960479
 quartz, 960479
 regional variations, 960480
 smectite, 960479
 sediment geochemistry, smectite, 670605
 sediment history, 560991, 560993
 Oyashio landmass, 560991, 560993
 paleocurrent migration, 560993
 periodic current fluctuations, 560993
 plate movement, 560993
 terrigenous sedimentation, 560993
 sediment mineralogy, smectite, 670605
 sediment source, 680391
 diagenesis, 680392
 smectite, 680391, 680392
 sediment synthesis, 580992
 sediment-interstitial water interaction
 alkalinity, 571270
 silica, 571273
 sedimentary structure, 840950
 sedimentation rate, 901445
 sedimentology, Mexico, Gulf of, 100705
 Sediments
 Barbados Ridge, 780603
 Mazagan Escarpment, 790520, 790906
 Mazagan Plateau, 790390, 790395, 790498, 790499, 790500
 Messinian, 42A0389
 Pacific Ocean NW, 860726, 860748
 sedimentation, 710437
 sepiolite, 411099, 500715, 500716, 500720
 kaolinite, 411099
 montmorillonite, 411099
 serpentine, 060844

- shale
 Aptian-Barremian, 711018
 continental, 500717
 shale, black, Cretaceous, 750810
 shear strength, porosity, 870839
 Shikoku Basin, 580992
 evolution, stratigraphic, 580992
 origins, 580673, 580674, 580992
 sources, 580669, 580992
 silica
 diagenesis, 410893
 mineralogy, 140728, 140729, 140730, 140731
 siliceous microfossils, 38S0028
 siliceous organisms, 38S0017
 siliceous rock
 chert, 561137
 porcellanite, 561137
 silicified sediments, continental margin, 801084
 silt, mineralogy, 680384, 680388
 silt, calcareous, 38S0027
 silt, quartzose, 810687, 810688, 810689
 siltstone, 38S0017, 38S0026, 500716
 SiO₂ content, 560986
 Siqueiros Fracture Zone, 540307
 smectite, 060844, 500715, 500716, 500717, 590597, 590598, 590599, 670515, 680384, 680385, 680388, 680390, 810687, 860572, 901444
 Al, 511268
 calcium, 511268
 chemical composition, 511267
 hydromica, 511266
 iron, 511267, 511269
 magnesium, 511269
 mixed-layered minerals, 511268
 montmorillonite, 511266
 palagonite, 511266
 potassium, 511268
 recrystallization, 901445
 silica, 511268
 source, 590600, 590602
 titanium, 511269
 smectite, glycolated, 590598, 590599
 smectite, magnesian, 600777
 Somali Basin, 241056
 sources, 580992, 590600, 590602
 chlorite, 241058
 Indus River, 241058
 kaolinite, 241058
 mica-illite, 241058
 montmorillonite, 241058
 palygorskite, 241058
 Southeast Pacific Basin, evolution, geologic, 350730
 Sr isotope, 590720
 stable isotope, carbonate, 650384
 Strabo Trench, 130731
 stratigraphic history, 590600
 stratigraphy, 390395, 540310, 590597, 590598, 590599, 600467, 600469, 680390, 680391, 810685, 860572
 ash, 680390
 Atlantic Ocean S, 390395
 Atlantic Ocean SW, 720383, 720384, 720385, 720386, 720387, 720388
 Blake Basin, 760437
 Brazil Basin, 720383
 calc-alkaline, 680391
 Cenozoic, 590597
 chlorite, 600469, 860572
 diagenesis, 600467
 distribution, 390395
 facies, changes, 680391
 glass, volcanic, 860572
 hydrothermal alteration, 600469
 illite, 600469, 860572
 kaolinite, 600469, 860572
 nannofossils, 860572
 palygorskite, 860572
 Philippine Sea, 600467
 quartz, 860572
 Rio Grande Rise, 720383
 silica, biogenic, 860572
 smectite, 600469, 860572
 vermiculite, 600469
 zeolite, 860572
 structure, 540307
 surface water, connection, 810691
 synrift sediments
 Aptian, 801175
 Barremian, 800933, 800934
 Tasmania, Tertiary, 291077
 tephra, source, 901151
 terrigenous deposits
 Baja California, 630611
 California S, 630611
 terrigenous origin, 560987, 810688
 chlorite, 560987
 chlorite-montmorillonite, 560987
 feldspar, 560987
 illite, 560987
 illite-montmorillonite, 560987
 kaolinite, 560987
 quartz, 560987
 terrigenous sediment, dilution, 901445
 Tertiary, 291081, 291082
 Antarctica, 291082
 Australia/Antarctica mixed assemblages, 291082
 Circum-Antarctic Current, 291082
 crystallinity, 291081
 dissolution, 291077
 Tasmania, 291077, 291081
 volcanic activity, 291081
 Tethys N, margin, 440951
 thermohaline flow, Quaternary, 720989
 tholeiite
 geochemistry, 590682
 petrology, 590682
 Timor Trough
 ooze, foraminiferal, 271011
 ooze, nannofossil, 271011
 Tithonian, 500716
 trace elements, 450543
 Cretaceous/Tertiary boundary, 720403
 distribution, 42A0504
 insoluble residue relationship, 720399, 720402
 Paleocene-Coniacian sediment, 720402
 trachyte, Hess Rise, 620951, 620956
 transgressive sequence, 810689
 tuff, 38S0017, 38S0021, 38S0026, 38S0029
 Neogene, 630646, 630647, 630649, 630650, 630652
 tuffaceous sediments, 38S0017
 turbidites, 500715, 500720
 chert, 090041
 clay, 300433
 upper rock mass, 560985
 Valanginian, 500716
 vein, andesite, 180937
 vein structure, 840813
 vermiculite, 590598, 590600
 source, 590600, 590602
 volcanic rocks, 220731
 ages, 550665
 volcanic sediment, 330794
 illite, 330794
 K-feldspar, 330794
 K-smectite, 330794
 montmorillonite, 330794
 volcanoclastic components, 810689
 volcanics, Hess Rise, 620973
 volcanism
 clay, 870638
 influence, 750850
 Neogene, 47A0703
 volcanogenic sediments, 42A0389
 Walvis Ridge, 750845
 basalt, 740740
 climatic, oceanographic evolution, 740679
 West Mariana Basin, 590597, 590598
 abyssal sedimentation, 590600
 circulation, 590601
 intensification, 590601
 stratigraphy, 590598, 590599
 X-ray diffraction analysis, 510731
 chlorite, 510731
 clinoptilolite, 510731
 illite, 510735, 510736
 illite-montmorillonite-kaolinite, 510731
 palygorskite, 510732, 510735
 smectite-illite, 510731, 510732, 510735, 510736
 zeolite, 510731
 X-ray mineralogy, 400541, 510721
 chlorite, 400547
 illite, 400541
 kaolinite, 400541
 montmorillonite, 400541
 Rockall Rise, 480665
 zeolite, 500715, 560981
 phillipsite, 801089
 zeolite, authigenic, 38S0015
 zircon, 38S0016
 clay minerals, authigenic
 lithology, 250482
 Melanesian Basin, 610527
 clay minerals, detrital
 Atlantic Ocean, geochemistry, 47B0435
 chalk, calcite, 260593
 Costa Rica Rift, chalk, 690399
 East Pacific Rise, carbonate-free material, 920373
 garnet, metasomatic, 260593
 hydrothermal precipitate, aluminosilicate, 920377
 turbidites, mineral composition, 670540
 clay, montmorillonite, 020417
 Bermuda Rise, 020417
 Biscay, Bay of, shale, black, 480839
 diagenesis
 Mesozoic, 271014
 volcanic debris, 020417
 dolomite, 020419
 Iceland Basin, Cenozoic sediments, 38S0092
 kaolinite, 020417
 lithology, 330309
 Mexico, Gulf of, regional aspects, 010628
 Middle America Trench, Costa Rica, 840558
 Mississippi Fan, 960704
 ooze, calcareous, 020417
 ooze, calcareous biogenic, 020417
 oxygen isotope, geochemistry, 350509
 Pacific Ocean, guyots, 620774
 Pacific Ocean W, volcanic rocks, 210490
 palagonite, 020417
 palygorskite, 020417
 Panama Basin, sediments, 690392
 post-eruptive product, 020417
 sedimentology, volcanic sediments, 020415
 sepiolite, 020417
 volcanic components, composition of
 volcanic material, 210490
 volcanic origin, 020417
 clay, montmorillonite-illite, sapropel, Cretaceous, 620896

- clay, montmorillonitic, 190630, 190633, 38S0051, 38S0053, 38S0054
carbonate, Mn-Fe, 38S0051, 38S0054
loaves, 38S0051
- clay, nannofossil
Angola Basin, geologic evolution, 750518
Arabian Sea, sediment history, 230509
Atlantic Ocean N, sedimentation, 120928
Atlantic Ocean SE, paleoenvironmental evolution, 740673
Atlantic Ocean SW, basin, evolution, 361001, 361006
carbonate, diagenetic, isotopic survey, 630596
Caroline Abyssal Plain, chalk, 200069
clay, glass, 300432
deposition, eolian, Pacific Ocean SE, 920336
Falkland Plateau E, sedimentation, 360886
glass, volcanic, Miocene, 411061
Indian Ocean E
abyssal plain sediment, 271007, 271008
grain size, 270518, 270520
lithology, 271002, 271004
Indian Ocean NE
Cretaceous, 220718
sediment history, 220718
Indian Ocean S, geologic history, 260930
Indian Ocean W, 240675
deposition, 241066
regional aspects, 250753, 250754
Somali Basin, 241049
lithology, 100072, 100117, 120048, 120766, 150368, 160415, 210109, 210375, 220017, 230120, 230214, 240018, 240021, 240251, 240285, 240329, 250031, 250032, 250071, 250193, 250266, 260026, 260331, 270016, 270093, 270132, 280155, 290320, 310029, 310030, 310193, 330309, 410237, 410426, 410427, 430163, 440342, 510042, 510360
Aquitaine, 120766
breccia, 230302
Brittany, 120766
carbon, organic, 290320
carbonate, 120766
clay, 120766, 300138, 300140
clay minerals, 120766
distal, 240252
Eocene to Oligocene, 120167
feldspar, 120766
foraminifers, 120766
glass, volcanic, 120766
mass flow, 120766
mica, 120766
ooze, foraminiferal nannofossil, 140220
ooze, nannofossil, 310193
Paleocene red sediments, 120167
Pliocene to Pleistocene sediments, 120168
pyrite, 120766
quartz, 120766
radiolarians, 120766
sedimentology, 100009
shelf, 120766
silt, 300138, 300140
sponge spicules, 120766, 290320
terrigenous material, 120766
turbidity current, 120766
uplifting, 120778
mud, terrigenous, sediment classification, 250455
Pacific Ocean W, volcanic rocks, 210483
paleoenvironment, ooze, nannofossil, 630960
Philippines, genesis, 310875
reflection horizon, calcium carbonate compensation depth, 040672
regional sedimentation, 920599
siliceous sediment, silicified sediments, 500728
southwest regional unconformities, 210708
volcanic components, glass, 210483
clay, nannofossil micritic
Ba/Zr ratio, distribution, 710402
geochemical history, sedimentation, 710405
sediment accumulation, 710402
clay, nannofossil zeolitic
Atlantic Ocean SW, basin, evolution, 360996
Indian Ocean E, grain size, 270519
Indian Ocean SW, iron-rich sediment, 250396
lithology, 100121, 180236, 240329, 250193, 260027, 260028, 270091, 270282, 320238, 410171, 410428, 500128
Mascarene Basin, volcanic sediment, 250517
clay, nonbiogenic
Shikoku Basin
Miocene, 580702, 580707
Pleistocene, 580707
Pliocene, 580707
West Mariana Basin
Miocene, 580702, 580707
Pleistocene, 580707
Pliocene, 580707
clay, noncalcareous
geochemistry, Cenozoic sediments, 42B0556
organic geochemistry, Porcupine Plain, 800956
Pacific Ocean SW, Western Marginal Basin Province, 210905
regional seismic grid, borehole data extrapolation, Oligocene depositional history, 950798
regional summary, 020415
clay, nonfossiliferous
Arabian Sea, history, 231115, 231119
Atlantic Ocean NW, regional aspects, 110957
Cape Verde Basin, 020414
clay, palygorskite sepiolite, 020417
Indian Ocean S, geologic history, 260938
ooze, nannofossil foraminiferal, 020417
Pacific Ocean, guyots, 620774
Pacific Ocean N, ooze, diatomaceous, 190909
clay, nontronite
Galapagos Spreading Center, crust, oceanic, 700464, 700467
manganese oxide, 700308
sediment, oxygen isotope, 700306
clay, palygorskite
Indian Ocean NW, volcanic components, 241060
silicate, magnesian, 411100
clay, palygorskite sepiolite, 020417
sedimentology, volcanic sediments, 020415
silicate, magnesian, 411100
slumping, 020417
clay, phillipsite
lithology, 080047
Pacific Ocean NE, regional aspects, 050628
pelagic sediment, 090040
clay, pyritic
chert
geochemistry, 620712
oxygen isotope, 620749
lithology, 260138, 42B0137, 510045
clay, quartzose
lithology, 240252, 430037, 430040, 430201
benthic foraminifers, 140023
carbonate, 140023
clay, carbonaceous, 140297
clay minerals, 140023
Cretaceous, 140023
iron oxide, 140023
Maestrichtian to Eocene, 140023
marlstone, quartzose, 140297
mudstone, 140023
quartz, 140023
sand, 140023
sand, arkosic, 140023
clay, radiolarian
Atlantic continental margin, interstitial water chemistry, 170515
Atlantic Ocean C, basin, 511505, 511506
chert, Cretaceous, 430438
clay, trace elements, 170512
clinoptilolite, Atlantic Ocean NW, 430471
Indian Ocean E, lithology, 271010
Indian Ocean S, geologic history, 260915
lithology, 160234, 160305, 160307, 220016, 260138, 260160, 320020, 410237, 430160, 510043, 510363
clay, 140139
Clipperton Oceanic Formation, 090540
Pacific Ocean NE, regional aspects, 050623
Panama Basin, physical properties, 160504
Philippine Sea, West Mariana Basin, 600429
phillipsite, Atlantic Ocean NW, 430471
porcellanite, Eocene, 430438
water content, 511454
clay, radiolarian zeolitic
clay, trace elements, 170513
lithology, 160418
Panama Basin, physical properties, 160507
clay, red, 020418, 190635, 800827, 860571, 860581, 860605, 860657
accumulation rate, 040670
Angola Basin, geologic evolution, 750522
Arabian Sea, sediment history, 230517
Atlantic Ocean NW, sedimentary evolution, 430801
Atlantic Ocean S, Miocene, 730515
Atlantic Ocean W, Brazil Basin, 040659
authigenic, 730673
basement, 020418
Belem Ridge, Eocene-Oligocene, 040662
Brazil Basin, 040659, 040668
geochemistry, 720422
Miocene-Pleistocene, 040659
clastic sediment, Cretaceous, 401037
clay, 020418
cristobalite, 020418
deposition, 300438
dissolution, 730515
ooze, calcareous, 730515
Eocene-Cretaceous sediments, 020418
geochemical stratigraphy, 860605
geochemistry
Atlantic Ocean, 720431
Brazil Basin, 720429
carbonate, 390478
Recent occurrence marginal area, 720431
Greenland Sea, 38S0225
hematite, 020418
Hess Rise N
post-Jurassic, 620816, 620817
sedimentary sequences, 020760, 620766, 620767
isotopic study, 590631
lithology, 040023, 040129, 050017, 050204, 050205, 050275, 050310, 050353, 050369, 100118, 120695, 300030
altered, 120682, 120683
Aquitaine Basin, 120764
bedding, convolute, 120763
burrows, 120764
calcareous, 120763
calcareous sediment, 120763
carbonate, 120765
clay minerals, 120765
compaction, 120765
Eocene, 120764
foraminifers, 120763
glass, volcanic, 120764

- lithology (Cont.)
 grading, 120763
 hematite, 120765
 lamination, 120763
 limestone, 120763
 limonite, 120765
 load cast, 120763
 marl, 120763, 120764
 metamorphism, 120764
 nannofossils, 120764
 paleomagnetism, 380030, 380031, 380033, 380034
 pelagic sediment, 120763
 pyrite, 120764
 quartz, 120764
 recrystallization, 120763
 shelf deposits, 120764
 slickensides, 120764
 uplifting, 120778
 volcanism, 120766
 magnetic carriers, 730669
 Curie temperature, 730668
 NRM, 730669
 possible remanence transition, 730668
 magnetic stability, 730668
 Miocene, 730673
 Atlantic Ocean S, 730515
 dissolution, 730515, 730517, 730519, 730520, 730521, 730522, 730523, 730524, 730525, 730526, 730527, 730528
 Miocene facies correlation, 020418
 natural remanent magnetization, 730667
 New Jersey Transect, oceanic sediments, 950641
 Norwegian Sea, 38S0225
 Pacific Ocean N, 860051
 Pacific Ocean NE
 grain size, 050421, 050423, 050424
 lithology, 050604, 050605, 050608, 050613
 metal-rich basal sediments, 630672
 regional aspects, 050623, 050624, 050628, 050629, 050630, 050635
 Pacific Ocean NW, 860571, 860605, 860657
 aerosol, mineral, 860581
 geochemical stratigraphy, 860605
 Pacific Ocean W, guyot, 200657
 paleoenvironment, 47B0417
 phillipsite, 020418
 physical properties, 010580
 reflection horizon, calcium carbonate compensation depth, 040672
 regional problems, carbonate, 061302
 regional seismic grid, borehole data extrapolation, Campanian sequence, 950775
 rhodochrosite, 020418
 sand-silt-clay distribution, 010541
 Scan III survey, 060636
 sedimentology, clay, 020415
 sediments, 860657
 siderite, 020418
 smectite, 540307
 South Fiji Basin, geology, 300620
 tectonic, clay, black, 430801
 viscous remanent magnetization, 730668
 volcanic origin, 020418
 volcanic rocks, petrography, submergence, 200700
 clay, saponitic
 basalt, mineral chemistry, 550629
 Emperor Seamounts, petrology, 550511, 550516, 550522
 clay, sapropelic
 Black Sea
 evolution, 42B1147
 sediments, 42B0385, 42B0386
 clay, semilithified
 burrow mottling, silt, 291054
 clay, terrigenous, Campbell Plateau, 291147
 lithology, 260028, 310280, 320048
 Red Sea, sediment history, 230861
 silicification, 291054
 silt, terrigenous, Campbell Plateau, 291147
 clay, siliceous, 271004, 271005, 38S0045, 580706, 580707, 580708, 860657
 Atlantic Ocean
 Cenozoic sediment, 140871
 Cretaceous sediments, 140871
 burrow mottling, silt, 291054, 291055
 calcium carbonate, carbon, organic, 620869
 California, Gulf of, gulf mouth, 650409
 Caribbean Sea, sediments, 150932
 chemical composition, 271006
 SiO₂, 271006
 chert, 320429
 geochemistry, 620712
 oxygen isotope, 620749
 petrology, 620712
 chlorite, 271005
 clay
 silicification, 291054
 skeleton condition, 291055
 clay minerals, mineralogy, 140730
 clay, terrigenous, 291149
 cristobalite, 271004
 diagenesis, 271005
 East Pacific Rise, sediments, 540396
 feldspar, 271005
 fish remains, 271005
 Galapagos Spreading Center, sediment classification, 540322
 glaucinite, 271005
 Hess Rise N
 post-Jurassic, 620809, 620817
 sedimentary sequences, 620767
 Indian Ocean E, lithology, 271004
 induration, 271005
 kaolinite, 271005, 271006
 sorting, 271006
 laminae, 271005
 bedding, nodular, 271005
 calcareous, 271005
 lenticular, 271005
 lithification, 271005
 lithologies, major
 chalk, 901480
 ooze, calcareous, 901480
 lithology, 290227, 340085, 340113
 Eocene, 410187
 Oligocene to Miocene pelagic sediments, 120168
 manganese, Pleistocene or Miocene, 291084
 Mesozoic, 271004
 mica, 271005
 mineral, heavy, 271005
 clinopyroxene, 271005
 epidote, 271005
 garnet, 271005
 hornblende, 271005
 mineral, opaque, 271005
 sphene, 271005
 zircon, 271005
 minor element, geochemistry, 360931
 montmorillonite, 271005
 nannofossils, 271005
 Pacific Ocean NE
 metal-rich basal sediments, 630672
 regional aspects, 050626
 Pacific Ocean NW, 860657
 bulk density, 860712, 860715
 compressional wave velocity, 860712, 860715
 consolidation, 860715, 860718
 physical properties, 860701
 shear strength, 860712, 860715
 shear wave, 860712, 860715
 water content, 860712
 palygorskite, 271005
 porcellanite, 320429
 pyrite, 271005
 quartz, 271004
 quartz, cryptocrystalline, 271004
 radiolarians, 271005
 sedimentology, 340779
 sediments, 860657
 Shikoku Basin
 Miocene, 580706, 580707
 Pleistocene, 580708
 silica
 diagenesis, 801090
 mineralogy, 140730
 silt, 271005
 silt, terrigenous, 291149
 Sohm Plain, 020413
 sponge spicules, 271005
 West Mariana Basin
 Miocene, 580706, 580707
 Pleistocene, 580708
 clay, smectite
 Costa Rica, continental margin, 840923
 Emperor Seamounts, petrology, 550582
 clay, smectite-illite, mineralogy, mineral, secondary, 600711, 600718
 clay, terrigenous, 291049, 291059, 291060, 291062, 291147, 291148
 Africa E, coast, 250680
 alteration, products, 810739
 Arabian Sea, sediment history, 230508
 Atlantic Ocean N
 Mediterranean Sea, 110806
 sedimentation, 120909
 authigenic minerals, 291148
 glaucinite, 291148
 iron, 291148
 manganese nodules, 291148
 pyrite, 291148
 basement, accumulation, 291147
 bedding, graded, 291059
 Black Sea, evolution, 42B1141
 bottom current, 291149
 burrow mottling, 291059, 291060, 291148, 291149
 benthic foraminifers, 291149
 nannofossils, 291149
 neritic nannofossils, 291149
 stratigraphic variation, 291148
 turbidites, 291149
 calcium carbonate, 291060
 Campbell Island, 291147
 Campbell Plateau, 291147
 Campeche Escarpment, sediments, 100025
 carbon, organic, 291060, 291148
 carbonate, 291060
 chemistry, 650416
 chert, 291149
 chertification, 291149
 clay, 291059, 291148
 silicification, 291054
 clay mineralogy, 650369
 clay, siliceous, 291149
 continental landmass spread, 291062
 Cretaceous, 291049
 cristobalite, 291148
 currents, Miocene, 901233
 deposition, 291060
 chalk, nannofossil, 250494
 neritic nannofossils, 291060
 ooze, nannofossil, 250494
 reworked sediments, 291060

- deposition (Cont.)
 sedimentation rate, 291060
 shallow-water benthic organisms, 291060
 turbidites, 291060
 turbidity current, 291060
 detrital mineralogy, 291060
 detrital minerals, 291149
 diagenesis, aspects, 901488
 diatoms, 291148
 Eocene, 291049
 Eocene and Oligocene, 291049
 erosion, 291049
 Falkland Plateau E, sedimentation, 360889
 fauna/flora, 291148
 agglutinating foraminifers, 291148
 epibenthic, 291148
 infauna, 291148
 pelagic microfossils, 291148
 planktonic, 291148
 siliceous foraminifers, 291148
 Ganges Fan, 220825
 geochemistry
 Cenozoic sediments, 42B0545, 42B0551
 Hatton Ridge, 810739
 glauconite, 291060
 grading, reverse, 291059
 Greenland Sea, diapir, 38S0197
 Guatemala, trench, 670524
 hydrocarbon, C₁-C₇, 42B0673
 Indian Ocean NE, Cretaceous, 220742
 inorganic chemistry, 960738
 interstitial water, 650441
 Japan Trench, sediments, 571213
 laminated/nonlaminated sediments, organic
 geochemistry, 640921
 land-derived sediment, 291149
 lithology, 100051, 100075, 100171, 100262,
 100297, 100301, 100311, 130390, 150176,
 380598, 380663, 400073, 42B0138, 490025,
 490104, 510360
 clay, 960478
 mud, 960478
 ooze, foraminiferal, 130486
 Pliocene to Pleistocene sediments, 120168
 Lord Howe Rise C, Neogene evolution, 901448
 macrofossils, 291049
 major element, geochemistry, 42B0528,
 42B0536
 Mediterranean Ridge, mineralogy, 130735
 Mediterranean Sea, lithostratigraphy, 131026
 Mexico, Gulf of, regional aspects, 010628,
 100743
 microfossils, 291049
 micronodule, 291060
 Mid-Labrador Sea Ridge,
 Pliocene-Pleistocene, 121186
 middle fan, 960712
 mineral, diagenetic, 291148
 glauconite, 291148
 iron, 291148
 manganese nodules, 291148
 pyrite, 291148
 mineralogy, 650416
 minor element, geochemistry, 42B0528,
 42B0536
 Mirza Formation, 291062
 chert, 291062
 chert nodule, 291062
 sandstone, 291062
 siltstone, 291062
 Mossbauer spectroscopy study, 950645
 nannofossils, 291059, 291060
 Natal Basin, sand, 250727
 New Zealand, tectonics, 901233
 Nile Fan, mineralogy, 130735
 Norwegian Sea, diapir, 38S0197
 ocean basin evolution, 291049, 291147
 on-land equivalents, 291062
 cristobalite, 291062
 diatoms, 291063
 dissolution, 291062
 sponges, Amuri Limestone, 291062
 tridymite, 291062
 Whangai Formation, 291062
 ooze, siliceous, 291148, 291149
 organic sediment replacement sequence,
 291062
 biogenically rich overlying waters,
 291062
 circulation pattern, 291062
 sea floor spreading, 291062
 shallow topographic features, 291062
 Pacific Ocean N, ooze, diatomaceous, 190911
 Pacific Ocean SE, clay-sized minerals,
 350484
 Pacific Ocean SW, Western Marginal Basin
 Province, 210903, 210905
 Paleocene and Eocene, 291049
 paleoenvironment, 47B0417
 planktonic organism population, 291060
 plateau outer edge sediments, 291049
 pore water chemistry, depositional
 environment, 960694
 preliminary organic analyses, 170561
 pyrite, 291060
 quartz, 291060, 291149
 Quaternary sediments, sedimentology, 640929
 regional seismic grid, borehole data
 extrapolation, Campanian sequence, 950778
 rock fragments, 291060
 Rockall Plateau, sediments, 810813
 sea floor spreading, 291062
 Australia/Antarctica, 291062
 magnetic lineation, 291062
 spreading, 291062
 sediment geochemistry, ooze, siliceous
 calcareous, 550457
 siliceous biogenic sedimentation, 291062
 Campbell Plateau, 291062
 Lord Howe Rise, 291062
 South Tasman Rise, 291062
 Tasman Sea, 291062
 siliceous microfossils, 291148
 silt, 291059, 291148
 Somali Basin, sand, 250727
 Southeast Pacific Basin, sediment
 distribution, 350223
 sponge spicules, 291060
 Tasmania, 291148
 terrigenous sedimentation, 291062
 Campbell Plateau, 291062
 Lord Howe Rise, 291062
 South Tasman Rise, 291062
 Tasman Sea, 291062
 tetrapyrrole, geochemistry, 630816
 tridymite, 291148
 turbidites, 291060
 Walvis Ridge, geotechnical properties,
 751109
 Whangai Formation, 291062
 Woolshed Formation, 291062
 clay, tuffitic
 lithology, 260160
 mineralogy, 38S0116, 38S0117
 sediment history, 38S0119
 sediment, lithology, 38S0116, 38S0117,
 38S0119
 clay, variegated
 rare earth elements
 distribution, 590667
 tuff, 590659
 clay, vitric
 clinoptilolite, Atlantic Ocean NW, 430471
 lithology, 300180, 430164, 430165
 phillipsite, Atlantic Ocean NW, 430471
 clay, volcanic
 Atlantic Ocean
 Cenozoic sediments, 140864
 Cretaceous sediment, 140864
 Atlantic Ocean NW, regional aspects,
 110967, 110971
 chert
 formation, 320444, 320445
 porcellanite, 320444, 320445
 Emperor Seamounts, mineralogy, 550464
 glauconite, 220737
 Hess Rise N, post-Jurassic, 620806, 620807,
 620812, 620814, 620817
 Indian Ocean NE
 Cretaceous, 220723, 220737
 sediment history, 220723
 Indian Ocean W
 geochemistry, 250405
 regional aspects, 250757
 interstitial water, 350408
 lithology, 010570, 150022, 150218, 150368,
 150408, 220016, 220122, 220215, 250266,
 250484, 340114
 ash, altered, 170106
 Madagascar Plateau, volcanic sediment,
 250525
 Mexico, Gulf of, regional aspects, 010626
 pelagic components, distribution, Indian
 Ocean WC, 250490
 Philippine Basin, genesis, 310859
 porcellanite
 chert, 320444, 320445
 formation, 320444, 320445
 clay, zeolitic, 200337, 200338
 Africa NW, continental margin, 411124
 Atlantic continental margin, interstitial
 water chemistry, 170515
 Atlantic Ocean
 Cenozoic sediment, 140871
 Cenozoic sediment, 140793
 Cretaceous sediment, 140793, 140871
 Atlantic Ocean C, basin, 511505, 511506
 Atlantic Ocean N, grain size, 020307, 020308
 Atlantic Ocean NC, Mesozoic sequences,
 411006, 411007
 Atlantic Ocean NW, sedimentation, 440977,
 440978
 Atlantic Ocean SW, basin, evolution,
 360993, 360994, 361006, 361009
 Atlantic Ocean W, Venezuelan Basin, 040666
 Australia W, continental margin, 270581
 Baja California, tectonics, 641099
 Brazil Basin, sedimentation comparison,
 721005
 calcareous facies, Pleistocene-Pliocene
 ooze, 291151
 calcareous nannofossils, biostratigraphy,
 920258
 Cape Verde Basin, 020414
 Caribbean Sea, sediments, 150938
 Caroline Abyssal Plain, chalk, 200067
 chert, 300435, 320434
 carbonate, 300435
 Pacific Ocean E, 160611
 chlorophyll derivatives, 600499
 clay, 300432
 trace elements, 170511, 170512
 clay minerals, Pacific Ocean NW, 200337,
 200338
 clinoptilolite, Atlantic Ocean NW, 430471
 cristobalite, Miocene, 020418
 deposition, eolian, Pacific Ocean SE, 920336
 diagenesis, 920345, 920348

- East Mariana Basin, sedimentary history, 890654, 890657
- Falkland Plateau, sediments, 711001
- ferruginous sediments, 160602
- geochemistry, Jurassic sediments, 711001
- Indian Ocean E
- abyssal plain sediment, 271007
- grain size, 270517, 270518
- lithology, 271002, 271004, 271014
- Indian Ocean NE
- Cretaceous, 220718, 220720
- sediment history, 220718, 220720, 220724, 220767
- Indian Ocean S, geologic history, 260930
- Japan Trench, sediments, 271222, 571216
- limestone, stable isotope, 150795
- limestone, siliceous, 890390
- lithology, 040151, 060044, 060058, 060061, 060172, 060173, 060174, 060196, 060197, 060223, 060224, 060248, 060295, 060558, 060559, 090039, 120048, 130490, 140185, 140220, 140221, 160269, 160271, 160413, 160415, 160418, 170020, 170238, 170264, 180381, 220086, 260028, 260329, 260364, 270016, 270018, 270019, 270093, 290367, 300071, 310029, 310443, 320020, 320048, 320196, 320197, 320298, 330030, 340116, 360031, 360032, 360091, 360093, 360212, 380164, 410171, 430161, 430163, 430164, 440205, 510042, 510043, 510044, 510360, 510362
- apatite, 140185
- banding, 140220
- bedding, 140185
- biogenous material, lack of, 120048
- biotite, 140185, 140220, 140221
- burrow mottling, 140221
- calcite, 170020
- chert, 170238
- chert, porcelaneous, 170020
- chlorite, 140185, 140220, 140221
- clay, 140185, 170106, 170264, 300140
- clay minerals, 170020, 170264
- clinoptilolite, 170020
- coccoliths, 170020
- contact, gradational, 140185, 140220
- contact, sharp, 140185, 140220
- cristobalite, 170020
- dolomite, 170020
- feldspar, 140185, 140220, 170264
- fish debris, 170264
- foraminifers, 130490
- glass, 170020, 170264
- hornblende, 140185
- K-feldspar, 170020
- Maestrichtian, 140185
- manganese, 140221
- manganese nodules, 170238
- mica, 140221
- mica-illite, 170020
- micronodule, 170264
- mineral, heavy, 140185, 140220
- montmorillonite, 170020
- muscovite, 140185
- nannofossils, 120048, 170264
- ooze, chalk, 140296
- ooze, foraminiferal, 120048
- ooze, radiolarian, 170020, 170238
- palagonite, 170020, 170264
- palygorskite, 170020
- phillipsite, 170020, 170264
- porcellanite, 170106
- pyrite, 140185, 170238
- quartz, 140185, 140220, 170020
- radiolarians, 130490, 170020, 170238, 170264
- reflector, 170264
- rutile, 140185
- sand, 140185, 140221
- sand, arkosic, 140185
- sand, glauconitic, 120048
- Senonian to Tertiary, 130490
- serpentine, 140221
- silica, 140185
- siliceous spicules, 140185
- silicoflagellates, 170238
- silt, 140185
- spicules, 170238
- sponge spicules, 170020
- tephra, 140221
- topaz, 140185
- tourmaline, 140185
- zeolite, 140185, 140220, 140221, 170020
- zeolite, radiolarian nannofossil, 170238
- zircon, 140185
- low abyssal hills, Miocene, 020414
- manganese, 291084
- matrix, 060224
- Mesozoic, Barremian-Aptian, Neocomian, 710448
- metalliferous sediment, Nazca Plate, 340787
- mineralogy, 920345
- minor element, geochemistry, 360929, 360931
- ooze, nannofossil foraminiferal, Miocene, 020417
- organic chemistry, 711013
- organic matter, Tertiary-Albian, 711020
- Pacific Ocean, iron-rich sediment, 080831
- Pacific Ocean NE
- chalk, 200035
- Pliocene, 200035
- Pacific Ocean W, mineralogy, 200324
- Panama Basin, physical properties, 160503, 160505, 160506
- Philippine Sea, 061134
- phillipsite, Atlantic Ocean NW, 430471
- physical properties, clay, 061134
- porcellanite, chert, 320434
- preliminary organic analyses, 111014, 160575
- regional seismic grid, borehole data
- extrapolation, Campanian sequence, 950778
- sedimentary sequence, 200729
- lithology, 200725
- sedimentology
- geologic history, 340793
- sedimentation rate, 340789, 340790
- siderite, Miocene, 020419
- silica, diagenesis, 410881
- Sohm Plain, 020413
- South Fiji Basin, geology, 300620
- Venezuelan Basin, ooze, radiolarian, 040666
- volcanic sediment, Quaternary, 600455
- clay/quartz ratio
- Pacific Ocean NW, 860566
- resistivity correlations, 860566
- claystone, 38S0262, 390448, 47B0685, 510708, 950501, 950506
- Africa E, continental rise, 250519
- Africa NW, continental margin, 410967, 410970, 411126
- Al-Jadida, Cretaceous, 790115
- Angola Basin, 400537
- biostratigraphy, 750450
- Cretaceous, 750819, 751009, 751010, 751011, 751014, 751016, 751017, 751018, 751019
- Cretaceous sediments, 751052
- geochemistry, 750819
- geologic evolution, 750514
- lithology, 750847
- organic geochemistry, 750992
- origin, 750819
- Antarctica, geochemistry, 350405
- ³⁹Ar/⁴⁰Ar age, boulders, 571281
- Arabian Sea, history, 231122
- Atlantic continental margin NW, evolution, 440951, 440957
- Atlantic Ocean, margin, 481103
- Atlantic Ocean C, basin, 511505
- Atlantic Ocean N, sediments, 760429
- Atlantic Ocean NC, Mesozoic sequences, 410996, 411002, 411004, 411005, 411006, 411007
- Atlantic Ocean NE, evolution, 411215, 411225, 411227
- Atlantic Ocean NW
- Cretaceous, 440593
- microfacies, 440482, 440483
- sedimentation, 440976, 440977
- Atlantic Ocean SW, basin, evolution, 360994
- Atlantic Ocean W, 430417
- Australia W, continental margin, 270572, 270575, 270578
- authigenic minerals, 600462
- Barbados Ridge, 780603
- basalt, flow, 550707, 550709, 550710, 550857
- basalt, altered, geochemistry, 580826
- Bermuda Rise Formation, 760765
- Biscay, Bay of N, continental margin, 481039
- Biscay, Bay of, evolution, 480814, 480815
- black, 510737
- Blake Basin, 760766, 760769, 760772, 760775, 760777, 760778, 760899, 760926, 760930
- Cretaceous, 440593
- burrow mottling, silt, 291053
- Cape Basin, 400537
- Cape Hatteras, 950501
- carbonate, redeposited clastics, 760805, 760821
- carbonate, secondary, vein, 580908
- chemical composition, metal, 571259
- chert, 280751
- Pacific Ocean W, 070999
- clay, 47B0685
- Eocene, 580686
- greensand, 291053
- clay mineralogy, montmorillonite-illite, 650369
- clay minerals, 500716
- clinoptilolite, 950506
- Atlantic Ocean NW, 430473
- coalification, humic inclusions, 670602
- consolidation, 310571
- continental margin sediments, 280732, 280733, 280736
- burrow mottling, 280732, 280733
- carbon, organic, 280733
- lamination, 280732
- silt, 280733, 280736
- Cretaceous, 430417, 750819, 751009, 751010, 751011, 751014, 751016
- Al-Jadida, 790115
- Angola Basin, 750819
- Atlantic Ocean NW, 440593
- organic geochemistry, 440593, 440594, 440596, 440597, 751009
- Cretaceous sediments, 250736
- Cretaceous/Tertiary boundary, paleoenvironmental history, 740685
- Cyprus, Cretaceous, 561134
- deposition, 950775, 950789, 950797, 950802
- Goban Spur, 800868
- Portugal, 47B0373, 47B0389
- desposition, 950789
- diagenesis
- carbonate, 210504
- Mesozoic, 271014

- diagenesis (Cont.)
 siliceous sediments, 500725
 dolomite, diagenetic, mud, anoxic
 diatomaceous, 640556
 East Mariana Basin, 890390
 sedimentary history, 890657
 Falkland Plateau, sediments, 711001
 Falkland Plateau E, sedimentation, 360877,
 360880
 Florida, Straits of, paleoenvironment,
 770381
 gas hydrate, trench slope, 670607
 geochemistry
 Angola Basin, 750819
 Jurassic sediments, 711001
 glacial sedimentation, 280760
 glaciation, onset, 280758
 glauconite, potassium-argon age, 361071
 Greenland Sea, 38S0223
 basalt, 38S0241, 38S0242, 38S0243
 clast, 38S0224
 geologic setting, 38S0195, 38S0214
 Guatemala, continental slope, 670602
 Hatteras Formation, sediments, 760429,
 760446
 Hess Rise
 Albian sediment, 620939
 pyrite-marcasite, 620860
 Honshu NE, diagenesis, 561119
 hydrocarbon, C_1 - C_5 , Japan Trench, 571341
 hydrocarbon, C_1 - C_7 , volatile organic
 compounds, 571349
 hydrocarbon, C_1 - C_8
 Baja California, 630781
 Guaymas Basin, 640765
 hydrocarbon, C_2 - C_8 , 711043
 Iberian margin W, evolution, 47B0764
 Indian Ocean E
 abyssal plain sediment, 271017
 lithology, 271002, 271004, 271014
 Indian Ocean NE, Cretaceous, 220723
 Indian Ocean NW, grain size, 250423
 Indian Ocean W
 geochemistry, 250405
 lithology, 250739
 regional aspects, 250755, 250758
 inorganic chemistry, Cretaceous, 440581
 inorganic geochemistry
 bulk composition, 430675
 sediments, 430686, 430693
 inorganic geochemistry, sediments, rocks,
 Angola Basin, 750923
 interstitial water, Baja California, 630625
 iron-rich sediment, 330833
 goethite, 330835
 hydroxides, 330835
 illite, 330833
 montmorillonite, 330833
 oxides, 330835
 quartz, 330833
 silica, opaline, 330835
 Japan NE, offshore, 760429
 Jurassic sedimentation, 760835, 760842,
 760844
 bottom current, 760842
 Callovian geography, 760841
 carbonate compensation depth, 760842
 chemistry, 760839, 760844
 diagenesis, 760845
 fertility, surface waters, 760842
 marl, 760835, 760838, 760839, 760841,
 760842, 760843, 760844, 760845, 760846,
 760847
 marl, red, 760848, 760849, 760851, 760852
 mineralogy, 760835
 petrology, 760838
 radiolarite, 760842
 shale, black, 760843, 760845
 subsidence, 760842
 turbidite, 760845
 Jurassic-Cretaceous, carbonate, 790869,
 790879
 kaolinite, diagenesis, 271014
 Kyushu-Palau Ridge, source, 580965
 Line Islands, stratigraphy, 330849
 lithology, 040098, 040130, 070729, 080047,
 100168, 160023, 160027, 170288, 180172,
 180289, 190281, 190329, 190331, 190467,
 210201, 220039, 220041, 220272, 230297,
 230386, 230387, 250093, 250294, 270019,
 270133, 270134, 270282, 270283, 280183,
 280216, 280222, 280223, 280339, 280340,
 280372, 280373, 290230, 290231, 290368,
 310138, 310280, 310319, 310320, 310355,
 310411, 310443, 320083, 320298, 330030,
 330044, 330045, 330167, 350030, 350031,
 350067, 350068, 350069, 350160, 350161,
 360033, 360214, 360215, 380027, 380119,
 380453, 380525, 380528, 380530, 380598,
 380599, 380656, 390150, 390241, 400048,
 400363, 400367, 410171, 410174, 410239,
 410427, 410428, 430044, 430045, 430161,
 430166, 430205, 430206, 430207, 430210,
 430211, 430235, 430331, 430334, 440162,
 440167, 440169, 440170, 440171, 500043,
 500128, 500129, 510043, 510044, 510045,
 510046
 Barremian-Aptian, 410186
 chalk, nannofossil, 170250
 chert, nannofossil, 170250
 chert, zeolitic, 170250
 clay, red, 380031
 claystone, zeolitic, 170250
 consolidated deformed, 100169
 galls, 350067
 ice rafting, 280157
 igneous rocks, 330046
 major sediment types, 47A0030
 marl, zeolitic, 140296
 Mesozoic deposits, 47B0051, 47B0052
 minor sediment types, 47A0028
 Paleocene red sediments, 120166
 sedimentation, 350032
 shale, black, 480050
 Lord Howe Rise, rhyolite, 210538
 magnetostratigraphy, Cretaceous sediments,
 400460
 major reflectors, Reflector C, 870746
 Manihiki Plateau, 330883
 feldspar, 330883
 fish debris, 330883
 montmorillonite, 330883
 quartz, 330883
 Mazagan Escarpment, 790525, 790744, 790752,
 790776, 790779, 790802, 790808, 790903,
 790904, 790905
 Mazagan Plateau, 790395, 790397, 790498,
 790499, 790722, 790853
 Melanesian Basin
 Cretaceous volcanogenic sediments, 610539
 geological evaluation, 610851
 Mesozoic
 Cenomanian, 710449
 Santonian, 710449
 mineralogy
 clay minerals, 440509
 Mariana Islands, 600458
 Mariana Trench, 600443, 600458
 mineral, heavy, 440510
 minor element, geochemistry, 360929
 Moroccan Basin, mudstone, calcareous, 790744
 Mozambique Ridge, volcanic sediment, 250529
 Neogene sedimentation, lithology, 47A0608
 New Jersey Transect, 950807
 stratigraphy, 950770, 950771
 Nintoku Seamount, 550707
 basalt flows, 550707
 Norwegian Sea, 38S0223
 basalt, 38S0241, 38S0242, 38S0243
 clast, 38S0224
 geologic setting, 38S0195, 38S0214
 Greenland Sea, 38S0261, 38S0262, 38S0264,
 38S0268, 38S0269
 opal-CT, 950506
 organic geochemistry, 571296, 571298
 Cenomanian-Turonian black sediments,
 800964
 Cretaceous, 440593
 Porcupine Plain, 800956
 organic matter
 Aptian-Jurassic, 711018
 geochemistry, 640855
 Tertiary-Albian, 711019
 organic petrography, terrigenous organic
 matter, 800987
 origin
 Angola Basin, 750819
 Cretaceous, 430417, 430418
 oxygen isotope, geochemistry, 350510
 Pacific continental margin, geomorphology,
 350285
 Pacific Ocean N
 Bering Sea, 190909
 Meiji Guyot, 190900
 mineralization, contact, 190906
 ooze, diatomaceous, 190909, 190911
 Pacific Ocean NE
 chalk, 200037
 metal-rich basal sediments, 630672
 Pliocene, 200037
 Pacific Ocean SW
 diagenesis, 210504
 unconformities, 210713
 Pacific Ocean W, volcanic rocks, 210488
 paleoenvironment
 Cretaceous, 47A0559, 47A0560
 Hauterivian to Cenomanian, 47B0412,
 47B0414
 palygorskite, 411087, 411100
 palynodebris, Cretaceous, 47B0452
 palynological residue, 640752
 Guaymas Basin, 640743
 gulf mouth, 640731, 640735, 640742
 pyrite, 640739
 palynomorphs, Cretaceous, 47B0452
 Panama Basin, physical properties, 160501
 pebble characteristics, Ross Sea, 280772
 pelagic components, distribution, biogenous
 components, 250490
 petrology, sand, 960498
 phillipsite, Atlantic Ocean NW, 430473
 Plantagenet Formation, 760763, 760766
 sediments, 760429
 porcelanite, paleoenvironment, 630960
 red beds
 sedimentary structure, 38S0261, 38S0262,
 38S0264
 sedimentary structure, secondary, 38S0268
 turbidites, 38S0269
 Red Sea, sediment history, 230852, 230861
 Red Sea S, 231122
 Rio Grande Rise, sediment, 720428
 San Miguel Gap, 630802
 sand, glauconitic, greensand, 291152
 Santos Plateau, origin, 390936
 sedimentary structure, 220738
 chalk, 220739
 sedimentation rate, 950501

- sediments
 Atlantic Ocean N, 760429
 Blake Basin, 760429, 760472, 760473, 760481, 760483, 760488, 760489, 760671, 760672, 760673, 760680, 760685, 760687, 760688
 Hatteras Formation, 760429
 Plantagenet Formation, 760429
 sepiolite, 411100
 lithology, 411087
 palygorskite, 411087
 palygorskite-sepiolite minerals, 411087
 silicate, magnesian, 411087
 shale, Aptian-Barremian, 711018
 shale, black, thermal history, 711026
 siliceous sediment, 500725
 Cenomanian to Barremian, 500725
 silicification, 950506
 sonic velocity, 320962
 Southeast Pacific Basin, evolution, geologic, 350735
 southwest regional unconformities, 210708, 210713
 stable isotope, 350497, 350504
 stratigraphy, Miocene rocks, 630911
 stratigraphy and evolution composite, 801184
 Porcupine Plain, 801183
 synrift sediments, Barremian, 800930
 Tethys N, margin, 440951, 440957
 tetrapyrrole, geochemistry, 630793, 630801, 630802, 630809, 630815
 titanium, 330833
 oxides, 330835
 turbidites, 300424, 430396, 890367, 890368, 890369, 890375
 flysch, 250443
 volcanic components, 210488
 volcanic sediment, Oligocene-Eocene, 600455
 Walvis Ridge, Angola Basin, 750973, 750980
see also shale, black
 claystone, black
 Angola Basin, biostratigraphy, 750456
 Atlantic continental margin NW, evolution, 440955
 Atlantic Ocean N, Goban Spur, 801009
 Atlantic Ocean W, sediment chemistry, 511519
 Bermuda Rise, geochemistry, 511519, 511523
 Cretaceous sediments, 250736
 depositional history, 950775
 Galicia Bank, tectonics, 47B0667
 limestone, Jurassic-Cretaceous, 440463
 lithology, 430235
 organic matter, Porcupine Plain, 800970
 sedimentation, tectonics, 47B0667
 Tethys N, margin, 440955
see also shale, black
 claystone, calcareous
 acoustic properties, Africa NW, 790853
 Africa NW, continental margin, 790853
 Atlantic continental margin NW, evolution, 440949
 Atlantic Ocean NW, sedimentation, 440971, 440974
 Atlantic Ocean SW, basin, evolution, 361006
 Biscay, Bay of, evolution, 480811
 carbon isotope, stable, 410937
 clay minerals, Cretaceous and Cenozoic, 480705, 480711
 limestone, Jurassic-Cretaceous, 440463
 lipid, Miocene, 630763
 lithology, 190468, 410428, 430043, 430334, 430335, 440170
 Mesozoic deposits, 47B0052
 Magdalena Bay, sulfide chemistry, 630679
 Moroccan Basin, 790744
 Mozambique Ridge, volcanic sediment, 250529
 oxygen isotope, stable, 410937
 palynological residue, 640753
 sedimentation, rhythmic, oxidation-reduction cycle, 47B0728
 Tethys N, margin, 440949
 claystone, carbonaceous, 360889
 Atlantic Ocean, margin, 481103
 Atlantic Ocean NW, microfacies, 440488
 Atlantic Ocean S, Mesozoic, 751035
 Blake Basin, 760429
 geochemistry, 760429
 mineralogy, 760429
 euxinic conditions, 360884
 Falkland Plateau E, sedimentation, 360884, 360889
 geochemistry, Blake Basin, 760429
 lithology, 360212
 mineralogy, Blake Basin, 760429
 organic geochemistry, Goban Spur, 800961
 palygorskite, 411097
 sepiolite, 411097
 sediments, Blake Basin, 760429
 sepiolite, 411097
 palygorskite, 411097
see also shale, black
 claystone, diatomaceous
 alteration, diagenetic, organic matter, 571305
 chemical composition, metal, 571259, 571262
 gas, interstitial, geochemistry, 640783, 640784
 hydrocarbon, C₁-C₅
 Japan Trench, 571343
 midslope, 571343
 lithology, 280372, 310410, 310411
 major reflectors, Reflector G, 870746
 Pacific Ocean N, ooze, diatomaceous, 190911
 sand, Pacific Ocean NW, 310511
 sediment history, 280785
 claystone, dolomitic
 carbonate, diagenetic, isotopic survey, 630596, 630597
 interstitial water, Patton Escarpment, 630624
 organic geochemistry, 630837
 Red Sea, sediment history, 230852, 230860
 claystone, glauconitic, Pacific Ocean SW, Mesozoic regional evolution, 210902
 claystone, green
 Africa, continental margin NW, 410965
 Angola Basin, 751019
 biostratigraphy, 750450, 750455
 Cretaceous, 751010, 751017
 geologic evolution, 750513, 750514, 750515
 organic geochemistry, 750993
 claystone, metalliferous
 Eocene-Oligocene, 850798
 equatorial sediment bulge, 850974
 magnetostratigraphy, intensity, 850854
 major element, 850783
 mineralogy, Main Line Islands, 850795
 Pacific Ocean C, 850911
 trace elements, partitioning, 850796
 claystone, nannofossil
 Atlantic Ocean NC, Mesozoic sequences, 411004
 Atlantic Ocean NW, sedimentation, 440977
 Atlantic Ocean SW, basin, evolution, 360994
 carbonate, diagenetic, isotopic survey, 630597, 630601
 deposition, 950782, 950804
 Falkland Plateau, sediments, 711001
 geochemistry, Jurassic sediments, 711001
 lithology, 500128, 510363
 Mesozoic, Cenomanian, 710449
 New Jersey Transect, 950807
 stratigraphy, 950767
 Pacific Ocean SW, unconformities, 210708, 280713
 silica, diagenesis, 410881
 southwest regional unconformities, 210713
 turbidites, 430396
 claystone, organic
 Baja California, tectonics, 641099
 geochemistry, 931223
 California, Gulf of, 640698
 Cretaceous, 931223
 lithology, 360033, 510362
 North America, continental rise, 931223
 organic geochemistry, 640877
 palynological residue, gulf mouth, 640738
 claystone, pyritic
 Atlantic Ocean S, Santos Plateau, 391106
 Hess Rise, Albian sediment, 620939
 lithology, 510047
 claystone, quartzose
 Cape Bojador, continental margin, 47A0779
 deposition, Portugal, 47B0378
 lithology, 270283
 clay, carbonaceous, 140297
 major sediment types, 47A0030
 marlstone, quartzose, 140297
 minor sediment types, 47A0030
 paleoenvironment, Cretaceous, 47A0560
 claystone, radiolarian
 Atlantic Ocean C, basin, 511505
 Atlantic Ocean NW, microfacies, 440487
 Australia W, continental margin, 270575
 Campanian sequence, 950778
 deposition, 950789, 950798
 iron-rich sediment, 330833
 Japan Trench, sediments, 271226
 lithology, 230297, 440398, 510046
 New Jersey Transect, stratigraphy, 950770
 regional seismic grid, borehole data extrapolation, deposition, 950787
 titanium, 330833
 claystone, red
 Angola Basin
 biostratigraphy, 750450, 750455
 geologic evolution, 750513, 750514, 750515
 Atlantic Ocean NW, regional aspects, 110967
 claystone, basalt, 550707, 550709, 550710
 clinoptilolite, Atlantic Ocean NW, 430473
 deposition, Portugal, 47B0387
 Galicia Bank, tectonics, 47B0666
 inorganic geochemistry, 430686, 430693
 Al, 430688
 aluminum, 440507, 440508, 440509
 Angola Basin, 750933, 750934
 iron, 430687, 440505
 magnesium, 440508
 manganese, 430688, 440506
 potassium, 440508
 silica, 440508, 440509
 SiO₂, 430688
 titanium, 430687, 440506, 440509
 trace elements, 440508
 volcanogenic sequences, 430686
 lithology, basalt, 120680
 organic geochemistry, black-colored sediments, depositional model, 800966
 phillipsite, Atlantic Ocean NW, 430473
 sedimentation, acoustic stratigraphy, 47B0666
 claystone, red variegated, geochemistry, 440505
 claystone, sapropelic
 allochems, 360884
 Atlantic Ocean SW, basin, evolution, 360994, 360996

- beef-in-shale, 360865, 360866
 calcium carbonate, 360884
 carbon, organic, 360884
 cone-in-cone texture, 360865, 360866
 Falkland Plateau, basin, 711049
 Falkland Plateau E, sedimentation, 360884, 360886, 360888
 illite, 360884
 Mesozoic sediments, organic matter, 360941, 360944
 montmorillonite, 360844
 nannofossil, 360884
 ooze, nannofossil, 360884
 palynological residue, 640752
 gulf mouth, 640735, 640739
 rifting, 360884, 360886
 terrigenous input, 360886, 360889
 claystone, siliceous
 alteration, diagenetic, organic matter, 571305
 Atlantic Ocean NW, sedimentation, 440977
 Bermuda Rise, geochemistry, 511515
 California, continental margin, 630757
 chemical composition, 271006
 chlorite, 271005
 cristobalite, 271004
 diagenesis, 271005
 interstitial water, geochemistry, Baja California, 640676
 kaolinite, 271005, 271006
 laminae, 271005
 lithification, 271005
 lithology, 070029, 150022, 430333, 440398, 510363
 Mesozoic, 271004
 mica, 271005
 mineral, heavy
 clinopyroxene, 271005
 epidote, 271005
 garnet, 271005
 hornblende, 271005
 sphene, 271005
 zircon, 271005
 mineralogy, Mariana Trench, 600443
 montmorillonite, 271005
 palygorskite, 271005
 pyrite, 271005
 quartz, 271004
 claystone, volcanic
 Atlantic Ocean SE, paleoenvironmental evolution, 740672
 deposition
 chalk, nannofossil, 250496
 ooze, nannofossil, 250496
 East Mariana Basin, sedimentary history, 890666
 pelagic components, distribution
 Indian Ocean WC, 250491
 volcanic components, 250491
 claystone, zeolitic
 Atlantic Ocean S, Malvinas Outer Basin, 391111
 Atlantic Ocean SW, basin, evolution, 360994
 clay, trace elements, 170513
 diagenesis, Mesozoic, 271014
 East Mariana Basin, sedimentary history, 890657
 Falkland Plateau, sediments, 711001
 geochemistry, 390491
 Jurassic sediments, 711001
 lipid, geochemistry, 610627
 lithology, 220039, 220041, 320048, 350069, 360093, 360095, 430211, 500129, 510044
 clinoptilolite, 170250
 glass, 170250
 lamination, 170250
 manganese nodules, 170250
 Mesozoic deposits, 47B0051
 mudstone, 170250
 palagonite, 170250
 phillipsite, 170250
 plagioclase, 170250
 pyroxene, 170250
 rutile, 170250
 organic chemistry, 711013
 organic matter
 Tertiary-Albian, 711020
 vertical distribution, 711006
 stable isotope, silicate, 350498
 Cleveland, 931260
 climate, 411033, 42B0297, 42B0298, 42A0593, 430814, 47A0641, 47A0661, 47A0673, 47A0782, 480718, 480765, 480815, 500717, 500720, 810861, 950511
 abyssal plain, cyclic sedimentation, 801078
 Africa, 411033, 411042, 950511
 benthic/plankton ratio, 411041
 continental margin NW, 410983
 Miocene, 411033
 Pliocene-Pleistocene, 411033
 sea level, 411045
 volcanism, 411044, 411045
 Africa NW, 411033, 47A0641, 47A0644, 790502
 clay, 47A0643
 Angola Basin
 clay mineralogy, 750846, 750847
 geologic evolution, 750520
 Antarctica, 280919, 580689, 710391
 Arabian Sea N, sediment history, 230504
 Arkansas, 950511
 Atlantic Ocean
 geochemistry, 47B0440, 47B0441
 margin, 481099
 Atlantic Ocean N, 810861
 differences, 760477
 organic facies, 800969
 Pleistocene change, 800805
 Atlantic Ocean NE, 810861
 evolution, 411230, 411233, 411234
 Pleistocene change, 800805
 Pliocene-Pleistocene history, 810861
 stable isotope, 480475, 480478, 480482, 480483
 surface water, 800793
 Atlantic Ocean NW, sedimentary evolution, 430814
 Atlantic Ocean S
 Cretaceous, 720980, 720981
 Mesozoic, 751039
 Paleogene, 720983, 730737
 Pliocene, 730701
 Atlantic Ocean SC
 Paleogene oceanographic record, 730737, 730738, 730740, 730742, 730744, 730745, 730746
 Pliocene, 730701, 730702, 730703, 730704, 730709, 730710, 730713
 Atlantic Ocean SW
 basin, evolution, 361006
 Quaternary, 720871
 warming, 710319
 Atlantic Ocean W, planktonic foraminifers, 480446
 Australia, Neogene and Paleogene, 901437
 Biscay, Bay of
 evolution, 480815
 margin, 801137
 Black Sea, sediment, 42B0495
 Brazil Basin, 721021
¹³C, 42B0617
 California, offshore, 630960
 California, Gulf of, postrifting, 640572
 Cape Bojador, continental margin, 47A0801
 carbon isotope
 Miocene, 850768
 Neogene, 901402
 carbonate
 dissolution, 750853
¹⁸O, 42B0617
 Cariaco Basin, 960659
 Cenozoic deposits, 47B0049
 Chatham Rise, Quaternary, 901433
 chronostratigraphy, 960592
 circulation, oceanic, change, 131404
 clay
 deposition, 710357
 Eocene to Pleistocene, 580683
 Jurassic, 710357
 clay minerals, 390399
 Cretaceous and Cenozoic, 480708, 480718
 global cooling, 500717
 Colombian Basin, isotope stratigraphy, 680449
 continental shelf, onshore geology, 400971, 400972, 400973, 400974
 cooling, 280935, 280936, 291075, 901372
 cooling, high-latitude
 diatom paleoceanography, paleoclimatology, 850944
 diatom paleoclimatology, Miocene, 850935
 cooling, mid-latitude, Eastern Boundary Current, 850944
 Cretaceous and Cenozoic sediments, 480718
 Cretaceous/Tertiary boundary, 430814
 currents, Oligocene, 901231
 cycles, Oligocene-Miocene, 630959
 Daito Basin, 580683, 580688
 Daito Ridge, 580683, 580688
 desertification, Africa, 47A0802
 deterioration, 380457
 diagenesis, Miocene to present, 690375
 diatom paleoclimatology, global cooling, 850935
 eolian record, Cenozoic, 920337
 estimated temperatures, 800704
 euxinic sediment, Cenozoic organic sediments, 750852
 evaporites, Messinian, 42A0593
 evolution, 280937
 fluctuations, 721020
 glacial sedimentation, 280765
 global cooling, 850980
 global oceanographic disturbance, 801213
 global shift, 850979
 Goban Spur
 benthic foraminifers, 800726
 dinoflagellates, 800761
 evolution, 801206, 801210, 801212
 microfaunal, stable isotope evidence, 800817
 upper ridge, 800764
 upper slope, 801195
 Guaymas Basin, 640946, 640949
 palynology, 641230
 Guyana Basin, 140955, 140972
 ice, 660549
 ice rafting, 810861, 810867, 810870, 810871
 chronology, 860650
 Indian Ocean S, geologic history, 260937
 interglacial, 42B0125, 42B0130
 isotopes, Eocene, 901353
 Israel, history, 42B1217
 Jurassic-Cretaceous, carbonate, 790879
 lithology, 280088, 280922, 310419, 310448, 42B0144
 Lord Howe Rise, Neogene evolution, 901361
 Lord Howe Rise C, Neogene evolution, 901447, 901448, 901451, 901452

- Lord Howe Rise S, 901357
 Mediterranean Sea, Pliocene, 131412
 Mediterranean Sea E, history, 42B1217
 Mesozoic, 710452
 Mexico, Gulf of
 Quaternary nannofossil biostratigraphy, 960601
 regional aspects, 100737
 microfossils, calcareous, 810861
 mineral geochemistry, Atlantic Ocean N, 801019
 mineralogy
 Cretaceous and Cenozoic sediments, 480718
 crisis, 801043
 Goban Spur, 801027, 801032
 Miocene, Antarctica, 720986
 Miocene time series, statistical analysis, 850746
 Miocene to Pleistocene, 47A0641, 580669
 Africa NW, 47A0641
 Miocene-Pliocene isotope stratigraphy
 cooling, 901403
 maximum, 901403
 Mississippi Fan, Quaternary, 960601
 Nankai Trough, clay minerals, 870636
 nearshore environment, 280934
 Neogene, 411033, 411044
 Neogene oceanography, cooling, 901380
 Neogene and Paleogene
 Australia, 901437
 Pacific Ocean SW, 901437
 Neogene sediments, 411033
 New Jersey Transect, 950805
 New Zealand, tectonics, 901231
 Northern Hemisphere, glaciation, 720987, 720988
 ^{18}O , trends, 901374
 offshore environments, 280935
 oxygen, Paleogene, 710409
 oxygen isotope
 cooling, 850768
 Miocene, 901398
 Pliocene, 901399
 Pacific continental margin, geomorphology, 350279
 Pacific Ocean C
 equatorial sediment thickness, 850825
 paleoceanography, 850980, 850982
 Pacific Ocean EC, geologic history, 090928
 Pacific Ocean N, ooze, diatomaceous, 190909
 Pacific Ocean NW
 geochemical history, 620802
 ice rafting, 860650
 Pacific Ocean S, eolian sedimentation
 history, 920601
 Pacific Ocean SE
 convective fluid flow, 920419
 paleoceanography, 920597
 Pacific Ocean SW
 Cenozoic, 300681, 901493, 901513, 901514
 Neogene-Paleogene evolution, 901437
 paleoceanography, 901495, 901500, 901502, 901503, 901507, 901509, 901512
 Western Marginal Basin Province, 210904, 210905
 paleoceanography
 cooling, 850966
 Miocene events, 850767
 organe, 850959
 Pliocene, 720901
 purple (11-12 Ma or 8.5-9.5 Ma), 850964
 Reflector Lavender, 850962
 paleoenvironment
 California Current, 630960
 isotopic stage, 13, 800818
 Paleogene, Atlantic Ocean S, 730737
 Paleogene deterioration, 901357
 paleotemperature
 cold-water diatoms, 850964
 Thalassionema nitzschoides, 850939
 particle, origin, 901230
 pebbles, petrography, 801041
 Pendragon Escarpment, 801182
 climatic results, 800742
 Pleistocene fluctuations, 801197
 Philippine Sea, Paleogene-Neogene, 310848, 310852
 Pleistocene, 310320
 Pliocene
 Atlantic Ocean S, 720895, 730701
 water structure changes, 720907
 Pliocene-Pleistocene, 810861
 polar deterioration, 280939
 pollen, spores, change, 960646
 postrift sediments, Albion, 801175
 Quaternary
 Mississippi Fan, 960601
 Pleistocene, 801181
 Quaternary bioclimatic subdivisions, 800692
 Quaternary calcareous benthic foraminifers, regulation, 800745
 Quaternary isotopic record, ^{18}O , 680464
 Quaternary nannofossil biostratigraphy, interstadial warming, 960623
 Red Sea, geology, 230814
 Reflector Lavender, 850963
 reflectors, 850964
 Rio Grande Gap, Pliocene water change, 720907, 720908, 720909, 720913
 Rio Grande Rise, Quaternary, 720871, 720872, 720873, 720874, 720876, 720878, 720879
 Rockall Rise SW, structure, 481087
 Ross Sea, 710418
 secondary indicators, 721021
 sedimentary evolution, Cretaceous-Tertiary boundary, 430814
 seismic modeling, global cooling, 850968
 seismic stratigraphy, erosion, 901334
 Shikoku Basin, 580689
 clay minerals, 580673
 silicoplate, 950511
 smectite, origin, 580688
 South America, 950511
 South Tasman Rise, passage, 710417
 Southeast Pacific Basin, evolution, geologic, 350735, 350738, 350739
 Southern Ocean, 710391
 stable isotope analysis, surface water, 800800
 stratigraphy, post-Eocene stratigraphy, 481087
 stratigraphy and evolution
 composite, 801184, 801185
 Goban Spur, 801182
 Pendragon Escarpment, 801182, 801183
 Porcupine Plain, 801183, 801184
 synrift sediments, Barremian-Hauterivian, 801175
 Tertiary
 Miocene, 801180
 Oligocene, 801179
 Pliocene, 801180, 801181
 thermohaline flow, Quaternary, 720990
 transport, eolian, 270397
 unconformity, Pliocene-Pleistocene periods, 710465
 vermiculite, origin, 580673
 volcanic rocks, petrography, submergence, 200695
 Walvis Ridge, 750950
 clay mineralogy, 750850
 warm temperature, 630959
 weathering, chemical, 721021
see also glacial cycles; glaciation; ice
 climate change
 Atlantic Ocean, margin, 481105
 Atlantic Ocean NE
 evolution, 411233, 411241
 stable isotope, 480483, 480484
 biostratigraphy, Pliocene-Quaternary history, 42A1140
 Black Sea
 evolution, 42B1148
 sediment, 42B0489
 calcareous facies, Pleistocene-Pliocene ooze, 291151
 calcium carbonate, stable isotope, 850746
 Cape Basin, Cretaceous/Tertiary boundary, 730761
 carbonate
 paleoenvironment, 47A0673
 stratigraphy, 901214
 Cenozoic paleoceanography, Eocene/Oligocene boundary, 901493
 Challenger Plateau, Quaternary, 901422
 Chatham Rise, Quaternary, 901425
 chronostratigraphy
 glaciation, 42B0518, 42B0522
 paleomagnetism, 42B0518, 42B0519
 sedimentation rate, 42B0519
 steppe index, 42B0519, 42B0520
 clay, Miocene to Pleistocene, 580675
 continental shelf, onshore geology, 400973
 Cretaceous/Tertiary boundary, 730761
 global cooling, 730761
 deposition
 chalk, nannofossil, 250493, 250496
 ooze, nannofossil, 250493, 250496
 eolian record
 Pacific Ocean N, 920337
 Pacific Ocean S, 920337
 eolian sedimentation, glaciation, 860600
 glacial cycles, deep-sea environment, 800810
 Goban Spur, 801031
 Quaternary sediments, 800683
 upper ridge, 800764
 grain size, Miocene, 920342
 Guaymas Basin, palynology, 641231
 illite/smectite ratio, oscillations, 560939, 560963
 Indian Ocean E, lithology, 271015
 Jurassic-Cretaceous, carbonate, 790879
 lithology, 290201
 lithostratigraphy, Pliocene-Quaternary history, 42A1140
 Lord Howe Rise C, Neogene evolution, 901451
 Mazagan Plateau, 790392, 790393
 Mediterranean Sea, 131387
 Ionian Basin, 131294
 Tyrrhenian, 131294
 microfossil distribution, 641248
 Miocene time series, statistical analysis, 850746
 organic sediments, origin, 660545
 Pacific Ocean NE
 biostratigraphy, 180949
 paleoceanography, 180949
 Pacific Ocean NW
 eolian sedimentation, 860600
 quartz, 860586
 Pacific Ocean SW
 Cenozoic paleoenvironment, 901225
 paleoceanography, 901513
 pebble characteristics, Antarctica, 280769
 quartz, accumulation rate, 860586
 Quaternary dinoflagellate cysts, water masses, 800765

- sediment reworking, 920604
 Shikoku Basin, clay, 580675
 southwest regional unconformities, 210701
 climate change, global
 carbonate
 oceanic response indicator, 850711
 stratigraphy, 901215
 stratigraphy, Colon Ridge, 680361, 680362
 climate cycles, 800818
 Cretaceous, cyclic sedimentation, 770367, 770369
 currents, Miocene-Pleistocene, 901235
 Falkland Plateau, shale, black, 711051
 Goban Spur, microfaunal, stable isotope evidence, 800817
 insoluble residue, Quaternary, 480765
 lithology, 180102
 Miocene, Antarctica, 720986
 New Zealand, tectonics, 901235
 Pacific Ocean EC, stratigraphy, 090941
 Pacific Ocean NE
 biostratigraphy, 180949
 paleoceanography, 180949
 sedimentation, Clipperton Oceanic Formation, 090941
 sedimentation rate, 800696
 climate, global
 Atlantic Ocean, margin, 481099, 481102, 481108
 Atlantic Ocean NE
 evolution, 411241
 stable isotope, 480477
 Atlantic Ocean S, hiatuses, 391104
 continental shelf, onshore geology, 400972
 glaciation, Pliocene, 850731
 Indian Ocean S, geologic history, 260936
 Lord Howe Rise, isotope stratigraphy, 901383
 Miocene, Messinian salinity crisis, 720986, 720987
¹⁸O, trends, 901372, 901375
 Pacific Ocean N, plate movement, 190902
 Pacific Ocean SW
 Cenozoic, 901514
 oxygen isotope, 901347
 paleoceanography, 901506
 sedimentation rate, Pliocene, 901380
 subsidence, deposition, 920301
 clinoamphibole, Rockall Plateau, Paleogene sediments, 810655
 clinonstatite
 boninite
 classification, 600697
 mineralogy, 600691
 crystal morphology, 600683
 Mariana Islands, fore arc, 600659
 Mariana Trench, boninite, 600731
 clinoptilolite, 340615, 390399, 560946, 560949, 560957, 561138, 670518
 Africa, continental margin NW, 410967
 Africa SW, continental margin, 400470, 400471, 400472, 400474
 Albian sediment
 geochemistry, 480860, 480868
 mineralogy, 480860, 480868
 Alboran Basin W, mineralogy, 130607
 alteration, 300485
 sandstone, volcanic, 300485
 Angola Basin, clay mineralogy, 750847
 Antarctica
 geochemistry, 350403, 350404, 350405
 mineralogy, 350748, 350749, 350750, 350751, 350752
 Argentine Basin, mineralogy, 361018, 361019, 361020, 361022, 361023, 361025, 361026, 361027, 361028
 Atlantic continental margin
 mineralogy, 010354, 050442, 050443, 070913, 070914, 070915, 080902, 080907, 080909, 090707, 090752, 090759, 090764, 090773, 100337, 100729, 100753, 100772, 100773, 100784, 110753, 110754, 110755, 110759, 110763, 110764, 110769, 110771, 110772, 110773, 110784, 121127, 121130, 121132, 121134, 121136
 Atlantic Ocean
 Cenozoic sediments, 140806
 Cretaceous sediment, 140806
 geochemistry, 47B0432, 47B0434
 mineralogy, 47B0432, 47B0434
 Atlantic Ocean N
 clay, 481091, 481094, 481095
 grain size, 020307, 020308
 mineralogy, 020329, 020330, 101136, 431020, 431021, 431022, 431023, 431025
 Atlantic Ocean NC, Mesozoic sequences, 411007
 Atlantic Ocean NW, 430463, 430464, 430474, 430646
 chemistry, 430463, 430478
 distribution, 430464, 430469, 430470, 430471, 430472, 430473, 430474
 as environmental indicators, 430463
 phillipsite, 430464
 processes of origin, 430474, 430475, 430476
 sedimentary evolution, 430793, 430796, 430811
 Atlantic Ocean S, mineralogy, 030509, 030510, 040325, 040326, 400547, 400548
 Atlantic Ocean SE
 Cretaceous, 740771, 740774, 740775, 740780
 paleoenvironmental evolution, 740666, 740670, 740673
 Atlantic Ocean W, mineralogy, 040326
 authigenic minerals, 600463
 authigenic origin, 560987
 basalt
 petrology, 330575
 pyroclastics, 260560
 basalt, oceanic
 Melanesian Basin, 610647, 610648, 610657
 mineral, secondary, 610648, 610649
 biogenic sediment, diagenesis, 300454, 300455, 300459
 Biscay, Bay of, Albian sediments, 480860, 480868
 Black Sea, sediments, 42B0375, 42B0382
 Blake Basin, 760772, 760776, 760779
 Brazil Basin
 geochemistry, 720425
 Recent-Eocene sedimentation, 721001
 zeolite, 721005, 721006
 breccia, volcanic, Neogene, 630654
 California, Gulf of, gulf mouth, 650399, 650407, 650409, 650410
 carbonate, diagenesis, 320522
 carbonate, diagenetic, isotopic survey, 630597
 Caribbean Sea, sediments, 150932, 150934, 150939, 150945
 chemical and mineral composition, 350467, 350469, 350471
 interstitial water chemistry, 350477
 mineralogy, 070965, 350465
 chemistry, 650418
 Atlantic Ocean NW, 430463
 chert
 formation, 320444
 geochemistry, 620715
 glass, volcanic, 320447
 mineralogy, 320443
 petrology, 620715
 porcellanite, 320444
 clastic sediment, Cretaceous, 401039, 401040
 clay
 ¹⁶O/¹⁸O ratio, 350489
 trace elements, 170512, 170513
 clay minerals, 38S0009, 500716
 ash, 680388
 authigenic origin, 560987
 basal reflections, 200336, 200337
 Cretaceous and Cenozoic, 480705, 480707
 distribution, 560984
 mineralogy, 140730, 140731, 140736, 140737
 Pacific Ocean NW, 200336, 200338, 200340, 200341
 silt, 680388
 stratigraphy, 720384
 clay, siliceous, diagenesis, 271006
 claystone, 950506
 claystone, siliceous, diagenesis, 271006
 Cretaceous/Tertiary boundary
 mineralogy, 620851
 paleoenvironmental history, 740687, 740690
 deep-sea trench, sedimentary facies, 670610
 deposition
 chalk, nannofossil, 250492
 ooze, nannofossil, 250492
 diagenesis, 020421
 Atlantic Ocean W, 020423
 carbonate, 210504
 Cenozoic, 271014
 Mesozoic, 271014
 mineral, 47A0741, 47A0745, 47A0746, 47A0747, 47A0750, 47A0751
 silica, 950505, 950510
 slope sediments, 840574, 840577, 840583, 840586, 840588, 840589
 distribution, 560984
 East Mariana Basin, sedimentary history, 890668
 East Pacific Rise, sediments, 650377
 Falkland Plateau E, sedimentation, 360886
 formation, 561139
 fossils, minerals, rare and unusual, 340615
 geochemistry, 620851
 mineralogy, 620851
 glauconite, mineralogy, 250427
 Guatemala
 slope sediment, 840631, 840931
 trench, 670515, 670518, 670520, 670522, 670524
 Hess Rise, pyrite-marcasite, 620857, 620859, 620861
 hydrothermal alteration, sediments, 650419, 650420
 Indian Ocean, mineralogy, 220694, 220695, 220696
 Indian Ocean C, 240690
 minerals, 240682
 noncarbonate sediment, 220492, 220495, 220497
 Indian Ocean E
 abyssal plain sediment, 271007
 lithology, 271010
 Indian Ocean NE, Cretaceous, 220734
 Indian Ocean NW, volcanic components, 241061
 Indian Ocean SW, iron-rich sediment, 250401
 Indian Ocean W
 basalt, 250549
 geochemistry, 250406, 250415
 interstitial water, 250369, 250370
 mineralogy, 060753, 060754, 060757, 060758, 130606, 130611, 140677, 140678, 140679, 150847, 150848, 150849, 150850, 160529, 160530, 160531, 181016, 181017, 181018, 240812, 240814, 250846, 250848,

- Indian Ocean W (Cont.)
 400548, 411066, 411074, 411075, 411084,
 411085, 42A0365, 42A0373, 42B0457,
 440516, 440519, 440521,
 regional aspects, 250758
 volcanic sediment, 250517
 zeolite, 241061
 interstitial water, 340625
 interstitial water chemistry, 240804,
 350418
 Japan Trench, 560946, 560949, 561138
 clay minerals, 560984, 560987
 geothermal gradient, 870674
 limestone, carbonaceous, Cretaceous, 800888
 lithology, 050275, 070056, 070328, 110228,
 150021, 150022, 150279, 150368, 150408,
 170288, 210107, 210108, 210202, 210336,
 210375, 230121, 230387, 250193, 250294,
 260159, 260237, 260299, 260329, 260331,
 260364, 280021, 280022, 290022, 290230,
 310029, 320197, 320239, 320316, 330030,
 330045, 330046, 330109, 330110, 330112,
 330167, 330309, 360031, 360032, 360033,
 360091, 360093, 38S0009, 390107, 410171,
 410329, 410428, 42A0233, 430042, 430044,
 430210, 430211, 430330, 430333, 480080,
 480133, 480135, 480179, 510043, 510044,
 510045
 ash, 260161
 chert, 170238
 chert, zeolitic, 170250
 clay, zeolitic, 170020
 claystone, zeolitic, 170250
 Cretaceous, 110225
 Eocene, 110013
 fluctuations, 721021
 formation, 721021
 limestone, 120053
 Mesozoic units, 480049
 ooze, calcareous, 170287
 ooze, nannofossil, 300141
 zeolite, radiolarian nannofossil, 170238
 Lord Howe Rise, rhyolite, 210535
 Madagascar Basin, volcanic sediment, 250520
 Madagascar Plateau, volcanic sediment,
 250524
 Manihiki Plateau
 deposition, 330888
 mineralogy, 330883
 Mediterranean Sea
 Gorringe Ridge, 130666
 mineralogy, 130607, 130666, 42A1164
 Mexico, Gulf of, mineralogy, 100337
 Mid-Pacific Mountains, 621084, 621092
 Mid-Pacific Mountains W, Aptian sediments,
 620908, 620915
 Middle America Trench, transect, 670530,
 670534, 670610
 mineral assemblage, evolution, 600448
 mineral, secondary, 210535
 basalt, 260560
 mineralogic facies comparison, zeolite,
 810708
 mineralogy, 210724, 210725, 210726, 210727,
 330541, 330542, 330543, 330544, 390428,
 390432, 390434, 390440, 650391, 650395,
 650418, 850781
 Atlantic Ocean, 140736
 Goban Spur, 801020
 Porcupine Plain, 801021
 minerals, chemical composition, 600461
 montmorillonite, Brazil Basin, 721003
 Moroccan Basin, continental margin, 500707,
 500708
 Mozambique Ridge, volcanic sediment, 250529
 Natal Basin, volcanic sediment, 250526
 needles, 47B0041
 Norwegian Sea, Greenland Sea, 38S0440
 ooze, calcareous, 271009
 ooze, nannofossil, 271008
 Pacific Ocean, mineralogy, 310885, 310886,
 310887, 310888, 310889, 310890, 310893
 Pacific Ocean C, mineralogy, 330541,
 330542, 330543, 330544
 Pacific Ocean NE, 151086, 151090
 Pacific Ocean NW, mineralogy, 320547,
 320549, 320550
 Pacific Ocean SE
 clay-sized minerals, 350481, 350484,
 350485
 mineralogy, 920393
 Pacific Ocean SW, diagenesis, 210505
 Pacific Ocean W, mineralogy, 200324
 Panama Basin, sediments, 690386, 690388,
 690392
 pelagic components, distribution, Indian
 Ocean WC, 250490
 petrology, igneous rocks, 260560
 Philippine Sea
 Daito Basin, 600424
 Daito Ridge, 600424
 Shikoku Basin, 600419
 West Mariana Ridge, 600430
 physical properties, clay, 061138, 061139
 porcellanite
 chert, 320444
 formation, 320444
 glass, volcanic, 320447
 mineralogy, 320443
 petrography, 320443
 pyroclastics, mineral, secondary, 260560
 quartz, $^{16}\text{O}/^{18}\text{O}$ ratio, 350489
 Red Sea
 evaporites, 230824, 230841
 sediment history, 230855, 230861
 rhyolite, mineral, secondary, 210535
 Rio Grande Rise
 Eocene sedimentation, 721007
 Mesozoic, 721015
 Rockall Plateau
 concretion, fossil polymetallic, 810707
 Tertiary deposits, 810670, 810673,
 810674, 810676, 810677, 810680
 San Jose Canyon, 840930
 sand, 060731
 Sanriku
 diagenesis, 561145, 561148
 silica, 561145, 561148
 sapropel, Cretaceous, 620896
 sediment, 560946, 560949
 sediment chemistry, 350432
 pore water vs sediment chemistry, 350432
 sedimentary sequence, lithology, 200727
 sedimentology, 340785
 sediments
 Blake Basin, 760442
 Blake Ridge, 760412, 760414, 760422
 Rockall Rise, 941112
 secan, lithology, 061138, 061139
 shale, black, Biscay, Bay of, 480889
 siderite, 020419
 silica
 diagenesis, 410888, 801095
 mineralogy, 140730, 140731, 140736, 140737
 silica minerals, diagenetic, 801085
 silica, opaline, transformation, 480757,
 480758, 480760
 silicate, authigenic, 010554
 silicified sediments, 801082
 abyssal plain, 801084
 continental margin, 801082
 Goban Spur W, 801084
 upper continental slope, 801082
 Southeast Pacific Basin, evolution,
 geologic, 350736
 stable isotope, silicate, 350501
 Tasman Sea, mineralogy, 300604, 300605,
 300606
 tectonic
 clay, 430811
 clay, black, 430796
 limestone, 430793
 trace elements, distribution, 42A0504
 tuff, Neogene, 630654
 turbidites, Guatemala, 840925
 volcanic sediment, Paleocene and Eocene,
 480776
 volcanics, mineral, secondary, 210535
 volcanism, pyroclastic, Paleogene, 810638
 X-ray diffraction analysis, 500707
 clay minerals, 510731
 X-ray mineralogy, 400548
 zeolite, 220734, 220737, 430463, 801089,
 810638
see also phillipsite
 clinoptilolite, authigenic
 clay minerals, mineralogy, 140733
 Cretaceous/Tertiary boundary, mineralogy,
 620851
 diagenesis, slope sediments, 840586
 geochemistry, 620851
 hydrothermal alteration, sediments, 650420
 mineralogy, 650395
 Sanriku, diagenesis, 561145, 561148, 561149
 silica, mineralogy, 140733
 clinoptilolite-heulandite
 alteration, 300486
 deposition, origin, 600449
 mineralogy
 Mariana Trench, 600443
 Mariana Trough, 600442
 Pacific Plate, 600446
 zeolite, 600438
 clinoptilolite/phillipsite ratio, 170378
 clinopyroxene, 190620, 340215, 340218,
 340615, 411107, 42A0509, 42A0516,
 42A0517, 450587, 450588, 460115, 460179,
 460259, 460271, 460280, 490621, 490622,
 511021, 511022, 511025, 511033, 670557,
 670558, 670559, 670561, 670562, 670569,
 690683, 820423, 820424, 820427
 Africa E, coast, 250681
 alteration
 products, 450615, 511274, 810738
 remnant arc debris, 590739
 alumina, 820525, 820526
 amphiboles, chemical studies, 150963
 ash
 mineral composition, 38S0102, 38S0106
 mineralogy, 38S0102, 38S0106
 ash flow, Walvis Ridge, 390527
 association, 820525
 Atlantic Ocean SE, Cretaceous, 740773,
 740779
 Azores, mantle, 370593, 370594
 Baja California Seamount Province,
 petrography, 630689
 basalt, 450430, 450432, 450465, 450469,
 450471, 670561, 830336
 alteration, 411107
 alteration, low-temperature, 511299
 Barbados Ridge, 780394, 780401, 780402
 basement, 460118
 Blake Basin, 760713, 760714
 California, Gulf of, 650580, 650584
 chemistry, 450458
 chromium, spinel, 450582
 cooling unit, 460262

- basalt (Cont.)
 Costa Rica Rift Zone, 830147, 830153, 830155, 830157, 830162, 830165, 830166, 830204, 830206, 830207, 830212
 Cretaceous, 511087
 detritus, 340618
 dike, 830180
 geochemistry, 350330, 350332, 350333, 460103, 460110, 490601, 490611, 490618, 490621, 490622, 590757, 590758, 590762, 590766, 590768, 590769, 590774, 590775, 590776, 590777, 590778, 590779, 590780, 590782, 590784, 590788, 920450
 glass, 370729, 510974, 510975, 540721, 650554
 K/Ar age, 390547
 major element, 510988, 511002, 511008, 511017
 Mid-Atlantic Ridge, 820424, 820426, 820427, 820428, 820429, 820430, 820431
 Middle America Trench, 670578
 midocean ridge, 820308, 820397, 820399, 820400, 820401, 820402, 820404, 820410, 820411, 820413, 820452, 820454
 mineral assemblage, 511224
 mineral chemistry, 460182, 550608, 550611, 550615, 550617, 550618, 550622, 550623, 550626, 550627, 550629, 550630, 550631, 550632, 550633
 mineral composition, 050533, 050534
 mineral, secondary, 340406, 511243
 mineralogy, 270552, 270553, 291103, 291104, 340218, 42A0516, 42A0517, 460151, 460260, 511101, 511102, 540695, 540698, 540700
 minor element, 490660, 490667
 Nicoya Complex, 670561
 petrochemistry, 630712
 petrography, 340218, 460151, 540695, 540698, 540700, 670578, 920468, 920469
 petrology, 160630, 340218, 350330, 350332, 350333, 390517, 390519, 390547, 450462, 450463, 450465, 450466, 450469, 450470, 450471, 460103, 460110, 460182, 540751, 540753, 580845, 580847, 580861, 580862, 590670, 590673, 590677, 590678
 pillow margins, 830179
 potassium-argon age, 340443
 pyroxene, 590694, 590698
 rare earth, 370582
 Santa Elena, 670561
 Santos Plateau, 390517
 sill-pillow complex, 610675, 610678
 trace elements, 510988
 vein, 42A0509, 42A0510
 vesicle, 42A0509, 42A0510
 basalt, alkali, 830157
 basalt, alkali olivine, mineralogy, 190620
 basalt, altered
 chemistry, 511320
 crystal morphology change, 600702
 geochemistry, 540673, 540687, 540689, 580791, 580792, 580798, 580809, 580826
 major element, 580877
 petrochemistry, 580791, 580792, 580798
 petrology, 540687, 540689
 trace elements, 580877
 basalt, aphyric, composition, 830131, 830138
 basalt, phyrlic, 650636
 bow tie, 650636
 calcium depletion, 650636
 chromium, 650636
 cooling, 650636
 crystallization, metastable, 650636
 phenocryst composition, 830132, 830138
 pigeonite, magnesian, 650636
 quench phases, 650641
 undercooling, 650636
 zoning, 650636
 basalt, sparsely phyrlic, 540618
 basalt, transitional, 540624
 ferrobasalt, tholeiitic, 540621
 Mid-Atlantic Ridge, 540630
 petrology, 540628, 540629
 basement
 Alboran Basin W, 130760
 basalt, 190620, 190621, 390517, 42A0509, 42A0510, 42A0516, 42A0517, 490611, 490618, 490621, 490622, 511101
 drilling difficulties, 600684
 fractionation, 690777
 geochemistry, 590746
 mineralogy, 270552, 270553
 petrology, 370700
 Bermuda Rise
 basalt, 511121, 511201
 crystallization, 511040, 511041, 511042, 511043, 511047
 oxygen, 511180
 trace elements, 511139
 Black Sea, evolution, 42B1147
 boninite
 crystallization, 600700
 geothermometry, 600695
 mineralogy, 600691
 boninite, nonglassy, crystallization, 600698
 Brazil Basin
 groundmass, 390517
 phenocryst, 390517, 390521
 breccia
 Alboran Basin W, 130760
 Rio Grande Rise, 390538, 390539
 breccia, volcanic, Rio Grande Rise, 390539
 calcic composition, 670561
 California, Gulf of
 basalt, 650530, 650532, 650534, 650643
 gulf mouth, 650401, 650407, 650415
 Cenozoic sediments, mineral composition, 42B0413, 42B0418, 42B0423
 chemistry
 chemistry, petrography, 550687
 Hess Rise, 620962
 chemistry, bulk, 630705
 Al, 630705
 titanium, 630705
 chrome, 820525
 clay, siliceous, mineral, heavy, 271005
 claystone, siliceous, mineral, heavy, 271005
 Cocos Plate, basalt, 660703
 comparisons, other volcanic provinces
 aseismic ridges, 540826
 MAR, 540826
 spreading ridge, 540826
 cooling unit
 mineral composition, 460260, 460263
 mineralogy, 511022, 511025, 511033
 Costa Rica Rift Zone
 basalt, 830219, 830220, 830221, 830230, 830232, 830236, 830250, 830254, 830257, 830284, 830307, 830308
 stockwork-like zone, 830268
 crust, oceanic, 670561
 Costa Rica Rift Zone, 830194
 crystal, 411107
 crystal fractionation, 690737
 crystallization, 270552, 270553, 460262
 Al, 540663
 augite, 540663, 540665
 augite, subcalcic, 540665
 basalt, 460259
 basalt, phyrlic, 450430, 450432
 basalt, porphyritic, 450465, 450469, 450471, 450569
 Brazil Basin, 390517
 chromium, 540663
 Fe-Ti oxide, 540663
 iron, 540663
 kinetics, 460278
 lunar lavas crystallographic control, 540665
 Mg/Fe ratio, 540663
 minor element, 540663
 olivine, 540663
 pigeonite, 540664, 540665
 plagioclase, 540663, 540665
 Santos Plateau, 390514, 390517
 textures, 540664
 zoning, 540663, 540665
 crystallization, fractional, 340224
 melting, partial, 370539, 370541
 Daito Ridge, sandstone, 580609
 diagenesis, slope sediments, 840575
 dispersal patterns, 350292
 East Pacific Rise
 basalt, 920463, 920471
 petrology, 540819
 Emperor Seamounts, petrology, 550511, 550516, 550522, 550533, 550572, 550573, 550574, 550576, 550577, 550578, 550579, 550580, 550583, 550584
 endiopsid, composition, 670559
 feldspar, 600705
 feldspathic sediment, mineral composition, 200360
 ferrobasalt, MAR, 540847
 ferrobasalt, oceanic, 540835
 ferromanganese sediment, 190630
 iron-rich sediment, 190634
 volcanics, iron-rich, 190634
 flow unit, mineralogy, 511025
 fossils, minerals, rare and unusual, 340615, 340618
 fractionation, 690775, 690777
 gabbro, phase chemistry, 370841
 Galapagos Spreading Center, basalt, 540755
 Geisha Guyots, 200682
 geochemical variation, 810799
 geochemistry, 370700, 540765
 augite, 650534
 calcium, 650534
 Cenozoic sediments, 42B0602
 endiopsid, 650534
 feldspar, 650535
 igneous rocks, 370748
 magma, 650535
 magnesium, 650534
 mineral chemistry, 160630
 mineral, secondary, 450615
 mineralogy, 340218
 petrology, 340215, 340218
 plagioclase, 650535
 Rockall Plateau, 810738
 glass
 chemical variation, 510978, 510984
 sulfide, 511070
 glass, volcanic, petrology, 870711
 groundmass, 42A0509, 42A0517
 Guadalupe Island, petrography, 630688
 Guatemala
 offshore sediment, 840619
 trench, 670515, 670518, 670519, 670520
 Guatemala Trench, basalt, 670568
 Hess Rise, 621042
 heterogeneity, 670568
 Horizon Tablemount, 200668
 hygromagmatophile (HYG) elements, 540727
 igneous rocks, 580659, 840948
 chemical composition, 590720

- igneous rocks (Cont.)
 chemistry, 630733
 geochemistry, 370654, 370655, 370660, 370672, 370674
 Indian Ocean, basalt, 220378
 Indian Ocean E
 abyssal plain sediment, 271007
 lithology, 271015
 Indian Ocean NW, grain size, 250417, 250418, 250422
 Indian Ocean W
 basalt, 250549, 250553
 regional aspects, 250753
 interstitial water, 350408
 Japan Trench, silt, 561005
 Jingu Seamount, volcanics, 550687
⁴⁰K/⁴⁰Ar age, Goban Spur, 800944
 lithologic, chemical stratigraphy, basalt, 510941, 510947, 510954
 lithology, 150218, 150279, 150333, 150408, 160370, 210018, 210021, 220016, 230121, 230297, 250071, 250266, 260332, 280126, 310053, 310138, 310139, 390149, 390240, 430045, 430205, 430330, 440032, 440033, 540756, 660731, 670557, 800939, 800940
 basalt, 120320, 170288, 270020, 270094, 270134, 670558
 basalt, olivine, 280052
 ground mass, 670557
 phenocrysts, 670557
 primary minerals, 670558
 turbidites, 120260
 Magdalena Bay, sulfide, 630702
 magma
 fractionation, 690775, 690777
 phenocryst, 370656, 370660, 370661, 370672, 370674
 magma chamber, 650624
 geochemistry, 650628
 magmatic affinity, 670561
 major element, 650561, 650570
 Mariana Islands, 600615
 fore arc, 600621, 600652, 600653, 600658
 Mariana Trench, 600621
 Mariana Trough, 600614
 basalt, 600650
 tholeiite, 600658
 Mediterranean Ridge, mineralogy, 130734, 130735
 Mediterranean Sea, lithostratigraphy, 131033
 Meiji Guyot, K/Ar age, 550679
 Melanesian Basin
 ash, 610634
 igneous complex, 890672
 melting, tholeiite, olivine, 450515
 melting, partial, experiments, 600732
 Mendoza Rise
 basalt, 920460, 920537
 characteristics, 920506
 lithology, 920436
 Mg/Fe ratio, 820525
 microphenocryst, 490618, 490622
 Mid-Atlantic Ridge, isotopes, 450548
 mineral, chemical composition, 660713
 mineral chemistry, 450469, 450471, 450588, 460182
 basalt, porphyritic, 450462, 450463, 450465, 450466, 450469, 450471
 cooling, 450470
 mineral composition, 340218, 38S0031
 basalt, 050533, 050534
 ocean basin, 42A0509, 42A0510, 42A0516, 42A0517
 sector zoning, 340218
 mineral, heavy
 Argo Plain, 270524
 characteristics, 350292
 Gascoyne Plain, 270524
 Indian Ocean S, 270523
 Timor Trough, 270524
 mineral, secondary
 basalt, 650646
 East Pacific Rise, 650648
 petrography, 920506
 mineralogy, 800941
 Al₂O₃, 540761, 660731
 Al, 540743, 540762
 ash, 38S0102, 38S0106
 augite, 540761
 basalt, 220422, 220423, 220425, 220427, 220428, 220429, 270552, 270553, 540761
 basalt, alkali, 660731
 calcium variation, 540761
 CaO, 540743, 660731
 chromium, 540743, 540762
 cobalt, 540762
 CoO, 540761
 cooling, 540762
 crystallization, 540743, 540761
 crystallization, cotectic, 540762
 diabase, 220416
 endiopsid-augite boundary plot, 800941
 Fe enrichment, 540743
 Fe/Mg ratio, 540761
 FeO, 540743, 540761, 800941
 ferroaugite, 540761, 540762
 ferrobasalt, 540761
 Fs, 540743
 Fs₁₅-Fs₂₀, 660731
 gabbro, olivine, 600587
 gabbro, spinel-bearing, 600587
 geochemistry, 600716
 glass, 540762
 iron, 540762
 iron-poor, 800941
 lithology, 810784
 magma, 670559, 670561
 magnesium, 540743
 manganese, 540762
 melt, 540762
 mesostasis, 540762
 metabasalt, 220419
 mineral, secondary, 600712, 600718
 minor element, 540743
 Na₂O, 540761
 phenocryst, 540761
 pigeonite, 540743, 540764
 plagioclase, 540761
 primary textures, 600710, 600717
 salite, 660731
 silica, 540743
 spinel, 800941
 temperature, 540762
 textural variations, 540764
 tholeiite, 540743
 TiO₂, 540761, 660731
 titanium, 540762
 undersaturated rock, 660731
 vanadium, 540762
 volatiles, 540762
 volcanics, 340606
 zoning, 540761
 minor element
 East Pacific Rise, 650603, 650608
 Tamayo Fracture Zone, 650603
 MORB, comparisons, 920468
 Na₂O, 820525
 Necker Ridge, 200678
 Nile Fan, mineralogy, 130734, 130735
 normative mineralogy, 370729
 nucleation, 830178
 nucleation rate, 830179, 830180
 ocean basin
 mineralogy, 42A0516, 42A0517
 petrography, 42A0509, 42A0510, 42A0516
 ore, deposit, 540804
 Pacific Ocean SE, basalt, 340215, 340218, 340246, 340248, 340381
 Patton Escarpment, petrography, 630687, 630701
 peridotite, phase chemistry, 370841
 peridotite, serpentinized, mineral chemistry, 450588
 Peter I Island, geology, 350349, 350352
 petrogenesis, modeling, 920443, 920445
 petrographic description, 660711
 petrography, 340216, 540598, 540738, 600581, 600731
 gabbro, 600582
 gabbro, olivine, 600581, 600582
 petrology, 540789
 East Pacific Rise, 540637
 fractionation, 540747
 igneous rocks, 38S0102, 38S0106, 42A0509, 42A0517
 mineralogy, 38S0102, 38S0106, 540800
 OCP Ridge, 540637
 Siqueiros Fracture Zone, 540637, 540638
 ultramafic rocks, 450588
 phase chemistry, petrology, 340246, 340248
 phenocryst, 050533, 050534, 270552, 490611, 490618, 490621, 490622, 511025, 540656, 830129
 Brazil Basin, 390517, 390521
 magma, 370655, 370656, 370660, 370661, 370672, 370674
 pillow lava, 511025
 Rio Grande Rise, 390539
 Santos Plateau, 390514, 390517
 pillow lava, mineralogy, 511022, 511025
 polymict breccia, clast, 600648
 Porcupine Plain, 801197
 rare earth elements, geochemistry, 600738, 600739
 Rio Grande Rise, 390537
 phenocryst, 390538, 390539
 Rio Grande Rise N, regional setting, 250689, 250691, 250692, 250697
 Rivera Plate, petrography, 630690
 Rockall Plateau, Paleogene sediments, 810653
 sand
 mineral, heavy, 180878
 Pacific Ocean NW, 310508
 sand, turbidite, mineralogy, 050536
 sandstone, 580609
 Santos Plateau, phenocryst, 390514, 390517
 serpentinite, 820525
 Shikoku Basin, basalt, 580895
 sill, mineralogy, 270552, 270553
 silt, mineral, heavy, 561005
 Siqueiros Fracture Zone, basalt, 540717, 540718
 spherule, 460271, 460280
⁸⁶Sr/⁸⁷Sr ratio, rare earth elements, 511139
 Sr isotope, 590720
 Suiko Seamount, trace elements, 550561, 550563, 550566
 sulfide, chemistry, 630680
 sulfur, silicate, 511070
 sulfur isotope, pyrite, 340381
 tectonite, ultramafic, mineral chemistry, 450588
 tektite, 950565
 terrigenous minerals, mineralogy, 250436, 250437
 texture, 820525
 tholeiite, 600705
 genesis, 920447

- tholeiite (Cont.)
 geochemistry, 590689
 magmatism, 540711
 mineralogy, 190620, 42A0509, 42A0510
 petrology, 590689
 tholeiite, depleted, geochemistry, 810784
 TiO_2 , 820525
 trace elements, 370582, 650566, 650570
 calcium, 450548
 chromium, 450548
 Co, 450548
 Cretaceous, 511087
 East Pacific Rise, 650603, 650608
 europium, 450548
 geochemistry, 370574, 650624, 650628
 iron, 450548
 rare earth elements, 450548
 samarium, 450548
 scandium, 450548
 Tamayo Fracture Zone, 650603
 tuff, Walvis Ridge, 390527
 turbidites, volcanoclastic, 430407
 ultramafic rocks, mineral chemistry, 450588
 uranium, distribution, 370553, 370555
 volcanic rocks, 580645
 ages, 550661
 volcanoclastics, volcanoclastic matter, 550504
 volcanics
 mineralogy, 190620, 190621
 Pacific Ocean C, 291103, 291104
 petrology, 190620, 190621
 volcanism
 basalt, 050533, 050534
 Caribbean Sea, 340606
 Madagascar, 250532
 Mascarene Basin, 250536
 Neogene, 47A0710
 Wake Guyots, 200678, 200679
 Walvis Ridge, 390526
 basalt, 740741
 tuff, 390526, 390527
 whole rock chemistry, 370725
 zoning, 450582
see also pyroxene
 clinopyroxene, augitic
 alteration, products, 450615
 Emperor Seamounts, petrology, 550511
 geochemistry, mineral, secondary, 450615
 clinopyroxene, calcic
 basalt
 chemistry, 460118, 460124
 crystallization, 820472
 mineral chemistry, 550630
 petrology, 460118, 460124
 Ti, 820472
 basement, volcanic, mineral chemistry, 460118
 geochemistry, magma, 540641
 magma, evolution, 540645
 Meiji Guyot, K/Ar age, 550679
 melting, tholeiite, olivine, 450513, 450516
 Mid-Atlantic Ridge, 540631
 mineral chemistry, basalt, 460118
 mineral, primary, pyroxene, 810786
 Necker Ridge, 200678
 Peter I Island, geology, 350354
 phenocryst
 clinopyroxene, 540656
 water influence, phenocryst compositions, 540661
 pyroxene, basalt, 460118
 clinopyroxene, calcium-poor
 basalt, mineral chemistry, 550631
 basalt, sparsely phyrlic, Mid-Atlantic Ridge, 540631
 mineral, primary, pyroxene, 810786
 clinopyroxene, dendritic
 East Pacific Rise, lithology, 920438
 Guadalupe Island, petrography, 630688
 Siqueiros Fracture Zone
 basalt, 540607
 basalt, porphyritic, 540611
 clinopyroxene, diopsidic
 glass, volcanic
 Mariana Trough, 600494
 Tonga, 600494
 clinopyroxene, magnesite
 basalt, geochemistry, 540701
 geochemistry, 650535
 plagioclase, 650535
 mineralogy, magmatic, 670559
 clinopyroxene, plagioclase, basalt, phyrlic, Melanesian Basin, 610701, 610702
 clinopyroxene, plumose
 basalt, Costa Rica Rift Zone, 830166, 830171, 830175, 860168
 Brazil Basin
 Recent-Eocene sedimentation, 721001
 sedimentation comparison, 721004
 mineralogy
 Goban Spur, 801020, 801027
 Porcupine Plain, 801021
 variability, 801026
 Rio Grande Rise
 Eocene sedimentation, 721007
 Mesozoic, 721014
 mineralogy, 721016
 sedimentation, 721006, 721017
 clinopyroxene, titaniferous
 basalt, altered, geochemistry, 580792
 Patton Escarpment, petrography, 630701
 clinopyroxene-orthopyroxene pairs
 basalt, mineral chemistry, 550631, 550633
 melting, tholeiite, olivine, 450516
 clinopyroxene-plagioclase
 basalt, petrology, 590679
 Mariana Islands, fore arc, 600743
 Mendoza Rise, basalt, 920461
 clinozoisite
 Black Sea, sediments, 42B0378
 Mediterranean Sea, lithostratigraphy, 131033
 mineralogy, metabasalt, 600589
 polymict breccia, clast, 600648, 600649
 Rockall Plateau, Paleogene sediments, 810653, 810659
 Ross Sea, basement, 280864
 sand, mineral, heavy, 180880
 Valencia Trough, basalt, vesicular, 130767
 Voring Plateau, mineral composition, 38S0031
 Clipperton Block, 170017, 170047
 Clipperton Formation, East Pacific Rise, sediments, 540396
 Clipperton Fracture Zone, 050367, 050400, 160003, 160231, 160265, 160301, 160365, 160529, 160573, 160633, 160939, 330735, 330739, 330744, 340418, 340618, 540024, 540037, 840833, 850831
 Clarion Fracture Zone, abyssal hill, 160411
 equatorial sediment bulge, 850977
 Hess Rise, rocks, 620863
 Line Islands, tectonics, 330735, 330739
 Nicoya Complex, 840833
 Pacific Ocean C, equatorial sediment thickness, 850825
 Pacific Ocean E, tectonic and depositional history, 160939
 Pacific Ocean EC, geologic history, 090909, 090910, 090913
 Pacific Ocean NE, regional aspects, 050624
 Seabeam bathymetric surveys, Galapagos Fracture Zone, 850831
 seismic modeling, paleoceanography, conclusions, boundary, 850967
 seismic reflection, seismic section characteristics, 850950
 tectonic evolution, 160939
 Clipperton Oceanic Formation, 080018, 080021, 080022, 080035, 080039, 080063, 080137, 080288, 080462, 080537, 080623, 080831, 080902, 090010, 090045, 090058, 090212, 090215, 090320, 090408, 090452, 090490, 090540, 090759, 090764, 090928, 090933, 090940, 090945, 090950, 160942, 330849, 540109, 540140
 depositional history, 160942
 interbedding, 090940
 lamination, 090940
 Line Islands, stratigraphy, 330849
 lithology, 080063, 080137, 080288, 080462, 080537, 080623, 090045, 090054, 090212, 090320, 090408, 090452, 090540
 bedding, 080289, 080462, 080538
 burrow mottling, 080137, 080289, 090057
 burrows, 090057
 calcareous nannoplankton, 080289, 080538
 chalk, calcareous nannofossil, 090057
 chalk, nannofossil radiolarian, 090058
 clay, radiolarian, 090540
 contact, gradational, 090054, 090057
 contact, sharp, 080288, 080289, 080462, 080538, 080623, 090408, 090452, 090540
 diatoms, 080137, 080462, 080538, 090408
 fish remains, 080462
 foraminifers, 080289, 080462, 080538
 grading, 080289, 090212, 090540
 interbedding, 080538, 090045, 090212, 090452
 lamination, 090054, 090320, 090408
 Marquesas Oceanic Formation, 090057
 Miocene, 080064, 080137, 080289, 080462, 080538
 nannoplankton, 080064, 080137, 080462
 ooze, calcareous, 080064, 080137, 080288, 080462, 090320
 ooze, calcareous nannofossil, 090054, 090057, 090212, 090320, 090408, 090540
 ooze, calcareous radiolarian, 080538
 ooze, chalk, 090054, 090057, 090212
 ooze, clay nannofossil, 090054, 090212
 ooze, foraminiferal nannofossil, 080537, 080538, 080623
 ooze, nannofossil radiolarian, 080289, 090054, 090408, 090452
 ooze, radiolarian, 080063, 080137, 080538, 080623, 090320
 ooze, radiolarian diatomaceous, 090408
 ooze, radiolarian nannofossil, 080289, 080462, 080538
 ooze, siliceous, 080064, 080137, 080288
 Pliocene, 080137, 080289, 080462, 080538
 Pliocene to Miocene, 080623
 Quaternary, 080137, 080289, 080462, 080538
 radiolarians, 080289, 080462, 080537
 silicoflagellates, 080462
 sponge spicules, 080462
 unconformity, 080538
 natural gamma radiation, 090945
 Pacific Ocean E, tectonic and depositional history, 160942
 Pacific Ocean EC
 geologic history, 090928
 stratigraphy, 090940, 090941
 physical properties, measurements, 090945
 sedimentation
 climate cycles, 090941
 dissolution, 090941
 lamination, 090940

- sedimentation (Cont.)
 volcanic material, 090940
 Clipperton Ridge, 160939, 850790
 Pacific Ocean E, tectonic and depositional history, 160939
 Clipperton Trough, 340418
 closed system
 basalt
 fractionation, 690759
 geochemistry, 540768
 mineralogy, 540768
 basalt, altered, geochemistry, 580837
 basement
 basalt, 490628
 fractionation, 690759
 carbonate, secondary, vein, 580907, 580909, 580910
 crystal fractionation, Mid-Atlantic Ridge, 490628
 geochemistry
 crystallization, fractional, 540766
 magma, 540641
 magma, crystallization, fractional, 690759, 690760
 mineralogy, crystallization, fractional, 540766
 minor element
 East Pacific Rise, 650601, 650609, 650614
 Tamayo Fracture Zone, 650601
 trace elements
 East Pacific Rise, 650601, 650609, 650614
 fractionation, 690759
 Tamayo Fracture Zone, 650601
 CO₂
 alteration, aging, 511160
 Antarctica, geochemistry, 350404, 350405
 Atlantic continental margin, interstitial water chemistry, 100613, 111009, 160573, 170515
 Atlantic Ocean, margin, 481103, 481105
 Atlantic Ocean NE, evolution, 411227
 Atlantic Ocean SE, Cretaceous, 740776
 basalt
 chemical composition, 320565, 320568
 gas, 450647
 geochemistry, 260567
 intrusion, 580742
 major element, 510988
 mineral, secondary, 511245
 petrochemistry, 450479, 490735
 petrology, 320565, 320568
 trace elements, 510988
 Bauer Basin, basalt, 340239
 Bermuda Rise
 basalt, 511122, 511208
 oxygen, 511177
 sea floor, 511160
 bitumen, 450647
 geochemistry, 42B0690
 Black Sea
 interstitial water, 42B0649
 organic geochemistry, 42B0755
 sediments, 42B0387
 Blake Ridge, 760403
 carbon isotope, 760403
 ¹³C, origin, 870677
 Cape Bojador
 geochemistry, 500026
 hydrocarbon C, N C₇, 47A0533
 interstitial water, 47B0577
 carbon, 090797
 carbon, organic, stable isotopes, 711058
 carbonate, 090797
 origin, 870678
 stable isotope, 42A0651, 42A0652, 711058
 carbonate, diagenetic, isotopic survey, 630598, 630604, 630607
 carbonate mineral, stable isotopes, 550653, 550654, 550655
 Caribbean Sea
 interstitial water, 200865
 isotope, 200775
 release, 200851
 chemistry, 370367, 550685
 chert, oxygen isotope, 620749
 Costa Rica Rift
 basalt, 690478
 carbonate, 690466
 crust, oceanic, aging, 511571
 dacite, conglomerate, 571285, 571286, 571287
 deposition, bottom water, 250503
 diagenesis, slope sediments, 840584
 diatom paleoceanography, paleoclimatology, bottom water, 850944
 Falkland Plateau, basement, 360896, 360902
 gas, interstitial
 geochemistry, 640781, 640783, 640785, 640786, 640787
 stable isotopes, 640815, 640816
 gas, natural, zonation, 110791
 gas, organic, distribution, 490735
 generation, ¹⁸O, 870677
 geochemistry, 390477
 chemistry, 340218
 Hess Rise, post-Jurassic sedimentation, 620820
 Hess Rise N, post-Jurassic, 620806
 hydrocarbon, C₁-C₅, Japan Trench, 571336
 igneous rocks
 chemical composition, 590721
 geochemistry, 370653
 Indian Ocean SE, radiometric age, 260513
 interstitial water, 080868, 151069, 220662, 42A0562
 Caribbean Sea, 200865
 interstitial water chemistry, 350408, 350417
 interstitial water, chemistry, 640933
 interstitial water chemistry, 350477
 interstitial water, mineralogical studies, 410913
 isotope, interstitial water, 200775
 isotopic composition
 Messinian sediments, 42A0635, 42A0641
 strontium, 370607
 isotopic study
 hydrothermal alteration, 590638
 pre-equilibration, 590631
 Jingu Seamount, volcanics, 550685
 limestone
 Cretaceous, 620882
 stable isotope, 150802
 lipid, geology, 571384
 lithologic, chemical stratigraphy, 510940
 major element
 chemistry, 370651
 distribution, 500675
 geochemistry, 42B0527, 42B0530, 42B0536
 Mellish Seamount, post-Jurassic sedimentation, 620834
 Mesozoic sediments, organic matter, 360943
 Messinian sediments, 42A0641
 methane, carbon isotope, 42B0667
 Mexico, Gulf of, nonvolatile organic matter, 960748
 Middle America Trench, carbon isotope, 840693
 minor element, geochemistry, 42B0527, 42B0530, 42B0536
 Nazca Plate, basalt, 340239
¹⁸O, origin, 870677
 organic geochemistry, 640723, 640724, 640727
 kerogen, 630838
 oxygen isotope
 enrichment, 410962
 geochemistry, 370617
 oxygen isotope, stable, 410938
 carbon isotope, 410946
 Pacific Ocean, bottom sediments, 571313, 571316
 Pacific Ocean NW, geochemical history, 620786
 Pacific Ocean SE, basalt, 340218
 paleoceanography, budget, 850749
 paleotemperature, cold-water diatoms, 850941
 Panama Basin, sediments, 690391
 Philippine Sea, major element, 870645
 Quaternary sediments, 640925
 rare earth elements, trace elements, 590663
 Red Sea, geochemistry, 230993
 release, interstitial water, 200851
 rhyolite, conglomerate, 571285, 571286, 571287
 Rockall Plateau, 810813
 sediments, 810835
 Tertiary deposits, 810669
 safety, pollution-prevention program, hydrocarbon, 500856
 sedimentation rate, Pliocene, 901378
 Shikoku Basin, major element, 870645
 Sr isotope, alteration, 590721
 stable isotope, 350497
 carbonate, 350502, 650383, 650384
 stable isotope ratio, carbonate, 511155
 sulfur isotope, major element, 500675
 uranium, distribution, 370548
 Vigo Seamount, interstitial water, 47B0577
see also carbon dioxide
 Co, 540323, 540325
 abyssal plain, cyclic sedimentation, 801078
 accumulation rate, metal, 340580
 alteration, products, 810734, 810736
 alteration minerals, trace elements, 920496
 analysis, 920354, 920433
 Angola Basin, geochemistry, 750847
 Antarctica, Miocene-Pleistocene, 280797
 Assemblage IB(-), 710394
 Assemblage IIIB(-), 710396
 Atlantic Ocean
 geochemistry, 47B0434
 mineralogy, 47B0434
 Atlantic Ocean S, history, 740715, 740718, 740723, 740727
 Azores, mantle, 370592
 B, trace elements, 920491
 basalt, 240784, 670567
 alkali metal, 810759, 810767
 chemistry, 920472
 Costa Rica Rift Zone, 830201, 830205, 830206
 Cretaceous, 511087
 geochemistry, 430729, 430732, 430734, 490604, 590754
 Melanesian Basin, 610705, 610707
 Mid-Atlantic Ridge, 820440, 820442, 820444, 820445, 820446
 midocean ridge, 820449, 820450
 petrology, 160628, 220459, 220463
 rare earth, 370581, 370582, 380742
 sill-pillow complex, 610675
 yttrium, 370568
 basement
 geochemistry, 590743
 petrology, 370699
 Bermuda Rise, trace elements, 511137, 511138
 burrows, element distribution, 410933
 California, Gulf of, gulf mouth, 650404, 650407, 650410

- carbon, organic, geochemistry, 750828
 carbonate, petrology, 540327
 chemical composition, metal, 571263
 chemistry, 650419
 chert, geochemistry, 620728
 clay, trace elements, 860555
 clay minerals, microelements, 560987
 claystone, basalt, 550707
 Cocos Plate, geochemistry, 660684
 Cretaceous/Tertiary boundary, mineralogy, 620851
 crust, oceanic, Costa Rica Rift Zone, 830185
 crystallization, fractional, melting, partial, 370543
 diabase, trace elements, 240784
 East Pacific Rise, sediments, 650426
 euxinic sediment, shale, black, 750852
 Galapagos Fracture Zone, East Pacific Rise, 540402
 Galapagos Spreading Center, 540322, 540377
 sediment classification, 540322
 geochemical component grouping, 801074
 geochemical history
 Albian, 710406
 sedimentation, 710405
 geochemical partitioning, origin, 650428
 geochemistry, 370699, 390477, 390490, 620851, 640696, 660684
 accumulation rate, 340561
 andesite, 220463
 Bauer Basin, 340571
 California, Gulf of, 640696
 carbonate, 390484
 Cenozoic sediments, 42B0543, 42B0545, 42B0562, 42B0599
 differentiation, 220463
 Guaymas Basin, 640708
 Hatton Drift, 810734
 major oxides, 540359
 mathematical treatment, 500701
 mineral chemistry, 160628
 Rockall Plateau, 810736
 trace elements, 220459
 glass, chemical variation, 510977
 Goban Spur, evolution, 801209
 heavy metals, Cenozoic sediments, 450350
 Hess Rise
 post-Jurassic sedimentation, 620820, 620821
 pyrite-marcasite, 620855, 620859
 rocks, 620863, 620864
 Hess Rise N
 post-Jurassic, 620806, 620807
 sedimentary sequences, 620765
 hydrothermal deposits, origin, 540416
 Indian Ocean W
 basalt, 250543, 250548
 geochemistry, 250405
 regional aspects, 250758
 inorganic chemistry, 440579, 960738
 inorganic geochemistry, 801079
 trace elements, 430682
 inorganic geochemistry, sediments, rocks, 750951
 Angola Basin, 750924, 750929, 750933
 Hess Rise, 620689, 620693
 Mid-Pacific Mountains W, 620688
 Japan Trench
 clay minerals, 560987
 minor element, 870649
 sediments, 271223, 271224, 271226, 271228, 271230, 571213, 571251, 571253, 571255
 trace elements, 870649
 Li, trace elements, 920491
 major element
 geochemistry, 42B0533
 minor element, 500680
 manganese, 291083
 Manihiki Plateau, oceanic basalt
 resemblances, 330878
 mantle, upper, trace elements, 460247
 Melanesian Basin, ash, 610637
 Mellish Seamount, post-Jurassic
 sedimentation, 620834, 620835
 melting, partial, 460247
 metalliferous sediment, Eocene-Oligocene, 850799
 Mid-Atlantic Ridge
 basalt, 450494, 450495
 isotopes, 450545, 450547, 450548
 mineralogic facies comparison, manganese
 oxide, 810708
 mineralogy, 650419
 minor element, geochemistry, 42B0533
 Mounds, nontronite, 540384
 Mounds Hydrothermal Field
 chemistry, 540408
 origin, 540413
 Nankai Trough
 minor element, 870644
 trace elements, 870644
 Pacific Ocean E, sediments, 540319
 Pacific Ocean NE, metal-rich basal
 sediments, 630667, 630669, 630671, 630674
 Pacific Ocean NW
 clay, 860555
 geochemical history, 620786, 620787, 620800
 petrology, 430729, 430732, 740757
 New England Seamounts, 430734
 Porcupine Plain, 801197
 rare earth elements, trace elements, 590666
 Red Sea, geochemistry, 230977, 230981
 Rockall Plateau
 basalt, 810796
 concretion, fossil polymetallic, 810703, 810706
 sediment, hydrothermal mounds, 700281, 700282, 700284
 sediment chemistry, trace elements, 350451
 sediment geochemistry, 550457
⁸⁶Sr/⁸⁷Sr ratio, 511137
 rare earth elements, 511138
 Suiko Seamount, trace elements, 550561
 sulfide, 370875
 chemistry, 630679
 globules, 370875
 pyrite, 370880
 sulfur isotope, minor element, 500680
 tholeiite
 geochemistry, 590689
 petrology, 590689
 trace elements, 370581, 370582, 450545, 660731, 850785, 850789
 clinopyroxene, 450548
 Cretaceous, 511087
 distribution, 42A0505
 geochemistry, 370573
 hygromagmaphile elements, 670567
 iron, 850786
 magnetite, 370568, 450548
 manganese, 850786
 Ni/Co ratio, 370568
 olivine, 370568, 450548
 partitioning, 850796
 plagioclase, 450547
 varying origin, 370568
 Walvis Ridge, basalt, 740743, 740757
 West Mariana Basin, metallogenesis, 590651
see also cobalt
 Coahuila, 790653
 Texas, 670750
 coal, 790493
 Africa NW, continental margin, 790493
 alteration, diagenetic, organic matter, 571308
 Cape Bojador, lithologic classification, 500019
 carbonate, land formation sequence, 870677
 dolomite, 790493
 Gondwana, 790494
 Guatemala
 continental slope, 670601, 670602
 petrology, 670601
 hydrocarbon, extractable, organic
 petrology, 580759, 630825
 inertinite, Triassic, 790493
 kerogen, organic geochemistry, 640901
 laminated/nonlaminated sediments, organic
 geochemistry, 640922
 lenticle, 790493
 lipid, organic geochemistry, 640901
 lithology
 Orphan Knoll, 120051
 sandstone, 120045, 120047, 120049
 shale, 120045, 120047
 major element, geochemistry, 42B0533
 Mazagan Escarpment, 790493
 Mesozoic sediments, organic matter, 360943
 Middle America Trench
 petrology, 670595, 670601
 slope, 670601
 minor element, geochemistry, 42B0533
 Ninetyeast Ridge, Paleocene, 220485
 organic chemistry, 870888
 organic geochemistry, 571297, 571298
 Japan, 571298
 kerogen, 571297
 organic matter
 maturation, 500570
 petrology, 500568, 500569
 Orphan Knoll, 121181
 Pacific Ocean S, 290769
 Paleocene, petrology, 220485
 palynological residue, organic matter,
 maturation index, 640746, 640747
 petrology
 Middle America Trench, 670601
 organic matter, 670601
 Paleocene, 220485
 plant organic matter, 380821
 redeposition, 790494
 sediment-interstitial water interaction
 ankerite, secondary, 571270
 calcite, secondary, 571270
 shale, black, thermal history, 711021
 stratigraphy and evolution, Goban Spur, 801182
 tetrapyrrole, geochemistry, 630809, 630815
 transport, organic matter, 870882
 Triassic, Africa NW, 790493
 Vigo Seamount, shale, 47B0524
 vitrinite, reflectance, 790494
 coal basin, organic matter, geochemistry, 640860
 coal, bituminous
 coal, petrology, 220485
 Guatemala, continental slope, 670601
 tetrapyrrole, geochemistry, 630809
 coal field, Joban, 870570
 coal, humic
 petroleum generating potential, thermal
 maturity, 640874
 tetrapyrrole, geochemistry, 630809, 630815
 coal seam
 basalt, intrusion, 580741
 palynological residue, organic matter,

- palynological residue (Cont.)
 maturation index, 640746
 coalification
 Alpine foreland, Quaternary, 670602
 alteration, diagenetic, organic matter, 571308
 claystone, humic inclusions, 670602
 geotectonic position, 670602
 Germany NW, lignite, 670602
 Guatemala, continental slope, 670601, 670602
 humic particles, 670601
 hydrocarbon, extractable, organic petrology, 640851
 ice sheet, continental, high pressure, 670602
 laminated/nonlaminated sediments, organic geochemistry, 640922
 lignite, formation conditions, 670602
 Middle America Trench
 low temperature gradient, 670602
 Quaternary, 670602
 organic geochemistry, 640880
 California, Gulf of, 640879
 palynological residue, Guaymas Basin, 640750
 peat, 670602
 Quaternary/Tertiary boundary, increase, 670602
 reflectance, 670601, 670602
 thick overburden lack, 670602
 United States, Gulf Coast, 670602
 Coast Ranges
 California, 180526, 180534, 180951, 180964
 Oregon, 050536, 340381, 740727
 cobalt, 540738
 Angola Basin, petrochemistry, 751101
 Atlantic continental margin, interstitial water chemistry, 050516, 070883, 070884, 080853, 090841
 basalt, 830336
 chemistry, 260567, 540679
 basalt, altered
 geochemistry, 580792, 580802
 major element, 580875
 trace elements, 580875
 bulk-rock compositions, 540741
 burrows, element distribution, 410934
 Cretaceous/Tertiary boundary, 860537
 crust, oceanic, hygromagmatophile (HYG) elements, 650623
 Emperor Seamounts, mineralogy, 550469
 geochemical partitioning, 650427, 650428
 clay minerals, 650428
 partitioning pattern, 650427
 resistant detrital minerals, 650428
 geochemistry, Cenozoic sediments, 42B0589
 heavy metals, Cenozoic sediments, 450353
 Indian Ocean SE, sediments, 260542, 260547
 interstitial water, 060823
 mineralogy, clinopyroxene, 540762
 ore, deposit, 540803
 petrology, 540747
 rare earth elements, geochemistry, 600737
 sediment geochemistry, 550462
 laterite, 550461
 nondepositional environment, 550460, 550461
 sediments, Blake Ridge, 760420, 760421
 West Mariana Basin, metallogenesis, 590649
 see also Co
 Cobalt, Ontario, ore, deposit, 540804
 cobaltite, petrology, sulfide, 540801
 Cobb Mountain Event, 680424
 Nankai Trough, 870761
 Shikoku Basin, 870761
 Cobequid Bay, Atlantic Ocean N, Paleozoic, 801110
 Cobequid Mountains, 801109
 Cobh, 800012, 800254, 800357
 Coche Island, 150554
 cockscorn structure
 lithology, pyroxene, 330043
 mineral, heavy, Gascoyne Plain, 270524
 Cocoa Beach, 400746
 Cocos Basin. See Wharton Basin
 Cocos Fracture Zone, 660005
 Cocos Islands, 220003, 540737, 610771
 Christmas Island, 220822
 Cocos Plate, 160899, 160902, 160939, 540023, 540043, 540044, 540048, 540059, 540755, 540865, 660019, 660034, 660035, 660522, 660671, 660674, 660678, 660723, 660731, 660752, 660761, 660803, 660847, 660859, 670007, 670079, 670088, 670095, 670353, 670355, 670368, 670369, 670403, 670414, 670458, 670475, 670502, 670507, 670557, 670580, 670603, 670617, 670630, 670637, 670638, 670639, 670669, 670671, 670675, 670691, 670695, 670700, 670704, 670708, 670713, 670719, 670733, 670734, 670735, 670737, 670739, 670747, 670748, 670749, 670752, 670759, 670766, 670767, 670770, 670775, 670778, 670784, 670787, 670789, 670790, 680403, 680407, 840008, 840706, 840820, 840881, 840921, 840923, 840936, 840939, 840941, 840947, 840954, 850972, 870007, 920599
 active margin, convergent-extensional, 840912
 ash, distribution, 660693
 basalt, 660703, 660704, 660705, 660707
 Middle America Trench, 660703, 660711, 670577
 origin, 660708
 Caribbean Plate, 840941
 Central America
 continental margin, 840881
 western continental slope, 840921, 840936
 convergence rate, 840831
 crust, oceanic, 840832, 840866, 840869, 840870, 840912
 formation, 840891
 geochemistry
 Ba, 660684
 clay, 660683, 660684
 Co, 660684
 Cr, 660684
 Cu, 660683
 deposition, 660683
 Fe, 660683
 heavy minerals, 660683
 hydrothermal solution, 660683
 lanthanum, 660684
 lithium, 660684
 manganese, 660683
 metal, 660683
 nickel, 660684
 Pb, 660684
 phosphorus, 660683
 Sr, 660683
 Ti, 660683
 trace elements, 660683
 V, 660684
 volcanism, 660683
 Zu, 660684
 geologic, oceanographic setting, 850972
 geologic setting, 840923
 graben, 840912
 Guatemala
 continental margin, 670603
 Pacific margin sediments, 670595
 trench, 670515, 670519, 670520, 670522, 670524, 670525
 horst, 840912
 horst-and-graben structure, 840912
 hydrocarbon generation potential
 buried Miocene sediments, organic matter, 660545
 organic matter, 670595, 670598
 igneous rocks, basalt, 840948
 landward dipping, 840868
 lithology, 670479, 840912
 lithosphere, 670760
 major element, composition, 660731
 margin, 670525
 Mexico, magmatic episodes, 660728
 Middle America Trench, 840842, 840912
 bending, 840955
 horst and graben structure, 840951
 magma, calc-alkaline, 660699
 magnetic anomaly, 840955
 sedimentology, 670763
 subduction zone, 840843, 840955
 transect, 670529, 670608, 670609
 Nazca Plate, spreading center, 670670, 670672, 840891
 organic facies origin, clay, 660544
 organic matter
 carbon, organic, 670598
 deposits, 670595
 organic facies, 670598
 organic sediments, origin, 660544
 origin, Middle America Trench, 670595
 Pacific Ocean, 670497
 Pacific Ocean E
 basalt floor, 660707
 tectonic and depositional history, 160939
 Pacific Ocean NE, metal-rich basal sediments, 630669
 Pacific Plate
 boundary, 840891
 spreading center, 840879, 840892
 pelagic sediment reactions, 670610
 plate-interface zone, 840866, 840868
 pore pressure, 840913
 pore water, chemistry, 670603
 residue, insoluble, fine-grained sediment, 670504
 sediment source, 670507
 sedimentary facies, 670608
 sedimentation rate, 670609
 vertical stratigraphic succession, 670608
 sedimentary processes, 840560
 sedimentology, 670504, 670763
 sediments
 sedimentary facies, 670609
 velocity, 840866
 seismic velocity, 840866, 840868
 structure, 840941
 subduction, 840805, 840831, 840832, 840843, 840866, 840939
 subsidence, 840912
 tectonic evolution, 160939
 tectonic setting, formation, 920599
 tephra, spreading rate, 660693
 trace elements
 basalt, 660731
 lavas, 660732
 tholeiite, 660732
 turbidite, mineral composition, 670538, 670539, 670540
 velocity, 840866, 840868
 volcanics, 610557
 crust, oceanic, 670557
 see also basalt: Cocos Plate
 Cocos Ridge, 160019, 160049, 160053, 160151, 160473, 160481, 160610, 160622, 160664, 160671, 160899, 340381, 390965, 401046, 540315, 540509, 540616, 540826, 540827,

- 670675, 670733, 680246, 690747
chlorite, 540317
Cocos Plate, 670762, 670776, 840879
comparisons, other volcanic provinces
aseismic ridges, 540826
spreading ridge, 540826
crust, thermal history, 690471
East Pacific Rise, basement, 540827
Nazca Ridge, spreading center, 690217
Panama Basin, tectonics and sedimentation, 160899
smectite, authigenic, 540315
Cocos Seamount Chain, 220397, 220835
reflector, correlation with lithology, 220397
Cocos-Keeling Rise, 220003, 220013, 220365, 220492
geophysical measurements, 220365
see also Indian Ocean NE
Cocos-Nazca Ridge, 840891
Galapagos Spreading Center, basalt, 540755
Cogollo Group, 151100
Coiba Fracture Zone, 160019, 160053, 160151, 160473, 160481
Panama Basin, tectonics and sedimentation, 160899
Coiba Ridge, 160019, 160049, 160053, 160473, 160529, 160622, 160633, 160638, 160664, 160671, 160899, 340416, 540509, 680246
smectite, authigenic, 540316
coke
contact metamorphism, kerogen, 410824
palynological residue, organic matter, maturation index, 640746
tetrapyrrole, diagenetic, pigment, 410836, 410837
colianite, Mediterranean Sea E, history, 42B1212
Collector Anomaly, 801109
collinite, kerogen, 870898
collision
Arabian Sea, history, 231121
Atlantic Ocean NE, evolution, 411239, 411241
continental margin, structural evolution, 481050, 481051, 481058
Pacific Ocean EC, geologic history, 090924
Pacific Ocean SW, island arcs, 300693, 300698, 300702, 300703
paleomagnetic results, Honshu, 870780
Paratethys, paleogeography, 42A0985
Philippine Basin, genesis, 310857, 310863, 310868
Philippine Sea, Paleogene-Neogene, 310849
Philippines, genesis, 310874, 310875, 310876
sedimentary facies, sedimentation model, 870626
Shikoku Basin, Izu, 870762
South Georgia Ridge, 710281
Southeast Pacific Basin, evolution, geologic, 350738
tectonic history, Central America, 840956
Tethys, Mediterranean Sea, 42A0947
collision, oblique
Chatham Rise, seismic stratigraphy, 901325, 901327
seismic stratigraphy
North Mernoo Fault Zone, 901334
North Mernoo Slope, 901332
Collon Cura Formation, 360873
collophane, 540325
Biscay, Bay of, evolution, 480797
chert, geochemistry, 620725
lithology, 260285, 480080
collophane, amorphous, Pacific Ocean W, guyot, 200664, 200666
Colo Ridge, heat flow, 370358
Colombacci Formation, Messinian environments, Lago Mare, 42A1023
Colombacci limestone, lithology, 42A0231
Colombia, 110611, 150407, 150412, 150512, 151019, 151096, 151100, 151101, 151105, 430577, 480612, 660219, 660661, 660662, 670754, 690389, 690452, 780345
coast, 040598
geochemistry, volcanism, 840617
northern, 080040, 151046
Colombia Bank, 780094
Colombia-Panama Trench, 920220
Colombian Basin, 040010, 040215, 040665, 200805, 680037, 680245, 680269, 680391, 680394, 680397, 680419, 680445, 680448, 720859, 901511
amino acid, 680475
acid hydrolysate, 680475
sediments, 680475
Atlantic Ocean W, 680269
basalt, compressional wave velocities, 151013
Caribbean Sea W, 680015, 680016
dolerite, compressional wave velocities, 151013
isotope stratigraphy
age, 680451
Atlantic Ocean, 680445, 680447, 680452
¹³C, 680448, 680449, 680450
CaCO₃, 680449
carbon isotope, 680452
carbon shift, 680449, 680451
Caribbean Sea, 680452
CCD, 680450
Central America, 680452
circulation, abyssal, 680450
circulation, oceanic, 680452
climate, 680449
climatic variability increase, 680446
Messinian event, 680449
Miocene sea-level fall, 680449
Neogene transition, 680445
North Atlantic Deep Water, 680450
¹⁸O, 680446, 680447, 680452
ocean chemistry changes, 680450
organic matter oxidation increase, 680449
Pacific Ocean, 680447, 680452
Panama, 680449
Panama, Isthmus of, 680445, 680452
phosphate, increase, 680450
pre-carbon shift, 680449
salinity, 680451, 680452
sea level, 680450
tropical oceans, separation, 680445
upwelling, 680449
vertical isotope contrasts, 680450
water vapor influx, 680451
magnetostratigraphy, 680419, 680421, 680422, 680428
azimuthal orientation, 680429
magnetic polarity reversal, 680423
magnetic properties, 680420
sedimentation rate, 680428
sediment wave, 941238
sedimentation rate, calcareous biogenic productivity, 901485
stable isotope, stratigraphy, 680445
stratigraphy
carbon, organic, 380350, 380352, 680347, 680350, 680351
carbonate, 680356, 680357, 680360
Colon Ridge, 680360, 680361, 680362
Venezuelan Basin, 040665
Colombian Plain, 150495, 151081
Colombo, 240887
Ceylon, 220037
Colon Ridge, 370358, 430098, 430736, 430805, 430882, 460389, 610676, 680181, 680348, 700459
California, Gulf of, basalt, 650530
East Pacific Rise, contrasting setting, 540396
Galapagos Islands, 680246
heat flow, 370358
hydrothermal deposits, origin, 540415
interstitial water, chemistry, 680467, 680469, 680470, 680471, 680472, 680473, 680474
n flank, 680245, 680357
paleoceanography, 680445
stable isotope stratigraphy, 680445
stratigraphy
carbon, organic, 680347, 680353
carbonate, 380353, 680353, 680357, 680358
Colombian Basin, 680360, 680361, 680362
temperature, 460389
spreading, 460389
Colorado, 150818, 42B0755, 751476, 931260
hot spot, 820494
Colorado Basin, 390872, 640597
Colorado de Abangares, 840839
Colorado River, 270285, 640572, 640574, 640587, 640589, 641028, 641209, 641291, 650005
delta, 640577, 760785
Columbia River, 050590, 151000, 180006, 180097, 180171, 180213, 180218, 180537, 180584, 180803, 180877, 180903, 180913, 180964, 180980, 181016, 340619, 890508
lithology, 180103
Lord Howe Rise, isotope stratigraphy, 901385
mudstone, petrology, 180909, 180910
Pacific Ocean SW, paleoceanography, 901511
plateau, 050536, 050539, 340419
province, 890505, 890509
sand, mineral, heavy, 180878
turbidites, 490315
volcanism, 810913
Columbia Seamount, lithology, 390110
Columbretes, 130770, 131439, 131440
geological, geophysical setting, rifting, 42A0889
Colville Ridge, 300617, 300619, 300667
Lau Ridge, 300667
Pacific Ocean SW, regional evolution, 210900
South Fiji Basin, geology, 300617, 300619, 300624, 300625
see also Lau Ridge
comagmatism
basalt, 820426, 820429
Costa Rica Rift Zone, 830161
crust, oceanic, Costa Rica Rift Zone, 830197
Commander Islands, 190887
Comondu, volcanism, 630270
Comoro Abyssal Plain. *See* Comoro Plain
Comoro Islands, 250065, 250087, 250141, 250179, 250515
intrusives, volcanic pile, 411111
Somali Basin, volcanism, 250537
volcanism
archipelago formation, 250533
Khartala Volcano, 250533
see also Indian Ocean W
Comoro Plain, 250141, 250147, 250152
Indian Ocean W, regional aspects, 250755
lithology, regional implications, 250155
compaction, 040043, 040660, 120764, 150368, 170393, 180236, 180450, 180451, 180889, 200054, 270134, 350032, 390243, 42B0035, 430211, 47A0560, 47A0612, 47A0673, 480057, 490036, 500138, 500740, 720520, 720570, 720571, 751129, 941135, 950527,

- 950534
 Africa NW, continental margin, 411124, 411126
 anisotropy, pelitic deposits, 960816
 ash, 870710
 Atlantic Ocean
 Cenozoic sediments, 140844
 Cretaceous sediment, 140844
 Atlantic Ocean SW, basin, evolution, 361005
 Barbados Ridge, 780618
 biogenic sediment, diagenesis, 300454, 300472
 bitumen, 571332
 Black Sea, temperature, 42B1097
 calcareous sediment, Miocene, 330868
 carbon, geochemistry, 440615
 carbonate, 320891
 diagenesis, 170414, 170421, 170425
 fossil preservation, 170414, 170421, 170425
 lithification, 320905
 Pacific Ocean W, 070977
 paleoenvironment, 47A0673
 cementation, 41S0968
 chert
 breccia, 320439
 diagenesis, 170393
 geochemistry, 620724
 clay, fabric, 720519
 clay mineralogy, 750866
 clay, siliceous, diagenesis, 271005
 claystone, siliceous, diagenesis, 271005
 Colon Ridge, interstitial water, 680467
 consolidation, permeability, 960809
 Costa Rica Rift, chalk, 690403
 density, porosity, 850842
 deposition, 960490
 carbonate, 790888
 diagenesis, 960584
 mineral, 47A0748
 Miocene to present, 690376
 diagenesis, burial, chalk, 800853, 800857
 equatorial sediment bulge, 850976
 heat flow, 42B1097
 Indian Ocean W, diagenetic structures, 241068
 interstitial water, isotopic composition, 200902
 interstitial water, organic geochemistry, Guaymas Basin, 640936
 Kings Trough, sediments, 941147
 limestone, Caribbean Sea C, 150776
 lithology, 070078, 070478, 130160, 150021, 150022, 150302, 150376, 220046, 250031, 250147, 260364, 280221, 290201, 290368, 310330, 330044, 390147, 400234, 410030, 410031, 42A0068, 42A0182, 42A0328, 430211, 500138,
 Cenozoic deposits, 47B0049
 chert, 170152
 clay, 120261
 clay, red, 120765
 deposition, 440080
 limestone, 170055, 170152
 paleoenvironment, 490036
 physical properties, 360096, 390056, 390111, 390247, 390340, 480090, 480091, 480140, 480185, 480232
 sedimentation, 350032
 turbidites, 120765
 volcanic sediment, 170055
 magnetostratigraphy, 850856
 magnetic particle disorientation, 901297
 rock-magnetic stratigraphy, 960683
 stable postdepositional remanence, 901296
 Mexico, Gulf of, regional aspects, 010637
 Mexico S, continental margin, 660445
 Middle America Trench, compaction, gravitational, 670630, 670631
 mineralogy, 960584
 Minorca Rise, lithification, 42A0473, 42A0474
 Mississippi Fan
 accumulation rate, 960595
 consolidation, 960798
 deposition, 960811
 Neogene sedimentation, sediment evolution and sources, 47A0612
 Pacific Ocean SW, unconformities, 210701
 Pacific Ocean W, noncalcareous sediment, 070988
 packing geometry, 720524
 paleoenvironment, Cretaceous, 47A0560
 paleolatitudes, 730619
 palynological residue, Guaymas Basin, 640750
 petrology, sand, 960498
 Philippine Sea, paleomagnetism, 580765
 physical properties, 901243, 901244
 carbonate, 901243
 porcellanite, breccia, 320439
 pore space, shrinkage, 751129
 pore water, 430418, 680467
 pore water movement, sediments, 941147
 protolith zone, depth relationships, 870929
 Rio Grande Rise, subsidence, 720963, 720965, 720966, 720967, 720968, 720973, 720974
 sandstone, foraminiferal, phillipsite, 42A0478
 scatter, magnetic remanence direction changes, 901276
 sediment, pore space, shrinkage, 751129, 751132, 751133
 sediment accumulation, burial depth, 960599
 sediment composition, 751129
 sedimentation rate, 020419
 sediments, 720519, 720520
 Barbados Ridge, 780618
 Kings Trough, 941147
 Rio Grande Rise, 720570
 seismic reflections, migrating fluids, 660553
 Shikoku Basin, faulting, 870802
 silica, diagenesis, 170393
 silica, biogenic, 901274
 sonic velocity, anisotropy, 960816
 Southeast Pacific Basin, sediment distribution, 350204
 tetrapyrrole, pigment, 580737, 580738
 thermal conductivity, 850843
 turbidites, diagenesis, 250449
 Walvis Ridge, 751129
see also consolidation
 compaction, differential
 Biscay, Bay of N, continental margin, 481041
 chert
 geochemistry, 620724
 petrology, 620724
 depositional, 950774
 Isle of Wight, chalk, 941135
 protolith zone, 870930
 sediments, 941135
 Southeast Pacific Basin, sediment distribution, 350220
 subduction rate, sediment wedge, 870790
 volcanoclastics, Eocene, 720957
 compaction, gravitational, 720519
 consolidation, permeability, 870844
 deformation, dewatering, 870840
 Middle America Trench, 670617, 670620, 670621, 670622, 670626
 compaction, 670630, 670631
 compressibility, 670620
 Costa Rica, 840553
 decompaction analysis, 670635
 compaction water, hydrocarbon, low molecular weight, 711035
 Complex Point Series, 290021, 291147
 compression, 131011, 131018, 131019, 840939, 860725, 860748
 accretionary prism, 780569, 870953
 Atlantic Ocean N, paleogeography, 121173
 Atlantic Ocean NW, 110723
 basalt, 590793
 Biscay, Bay of N, continental margin, 481041
 Chatham Rise, seismic stratigraphy, 901327
 compressional faults, Goban Spur, 801209
 compressional tectonics, 131015
 Aegean subplate, 131017
 Benioff zone, 131017
 Hellenic Island Arc, 131017
 Hellenic Trough, 131015, 131017
 olistostrome, 131016
 tectonic melange, 131016
 tilting of trench strata, 131018
 underthrusting, 131017
 consolidation
 permeability, 870846
 testing, 960801
 continental margin, structural evolution, 481053, 481058, 481059
 Coral Sea E, geology, 300659
 currents, Miocene, 901234
 Emperor Seamounts, basalt, 550716
 Eurasian Plate, 47B0768
 evaporites, Miocene, 131239
 Galicia Bank, tectonics, 47B0675
 geophysical data, 840942
 Goban Spur, continental margin, 801138, 801162
 graphic correlation plots,
 Miocene-Quaternary, 850925
 Greenland, 38S0253
 Iberian margin W
 evolution, 47B0764, 47B0768, 47B0770
 tectonics and sedimentation, 47B0675
 Iberian Peninsula, plate, 47B0768
 Layer 2, crust, oceanic, 370990
 Lesser Antilles, 780569
 mechanical properties, sediments, 42B1115
 Mediterranean Sea W, basin genesis, 131011, 131012, 131015
 Middle America Trench, 840954
 Guatemala, 840954
 Nankai Trough
 heat flow, 870742
 kinks, 870806
 Neogene formations, paleogeography, 42A0920
 New Zealand, tectonics, 901234
 Pacific Ocean NE, regional aspects, 050636
 Pacific Ocean SE, lithosphere, 920524
 Pyrenees, Kings Trough, 941149
 regional structure, 801189
 Rio Grande Rise, 720537, 720539
 sedimentation, Cenozoic, 47B0675
 Southeast Pacific Basin, evolution,
 geologic, 350738
 tectonic history, 840956
 Tertiary, Oligocene, 801179
 Tohoku Arc, geology, 870716
 unconformities, 481041
 compression, coaxial, vein, structure, 870824
 compression, horizontal
 Mendoza Rise, basement, 920615
 Pacific Ocean SE, 920520, 920524
 maximum direction, 920520
 compression, intraplate

- basement, morphology, 801164
 mineralogy, Rockall Rise, 801033
 compression, ridge-push
 Pacific Ocean SE, East Pacific Rise, 920520
 Seabeam bathymetric surveys, East Pacific Rise, 850831
 compressional faults, Goban Spur, evolution, 801209
 compressive stress
 active margin, 840911, 840913
 Lesser Antilles, 780566
 Pacific Ocean SE, causes, 920524
 Concepcion Peninsula, 640239
 Conception Bank, 790894
 Conception Group, 120036
 concretion, 050059, 100197, 130155, 230040, 290368, 38S0266, 38S0270, 380453, 380656, 390241, 400048, 400049, 400195, 47B0054, 480651, 510772
 Angola Basin, bedding structure, 400536
 Cape Basin, sedimentary features, 400536
 carbonate, composition, 870677
 carbonate, diagenetic, isotopic survey, 630604
 Caribbean Sea, sedimentary structure, 150834
 Emperor Seamounts, mineralogy, 550474
 ferromanganese, 070990
 gas, natural, zonation, 110797
 geochemistry
 clay, 810715
 Fe-Mn, 810713
 iron, 810713
 Goban Spur, copper, native, 800851
 Guatemala, trench, 670522
 Hess Rise N, sedimentary sequences, 620762, 620766, 620767
 interstitial water, carbonate, Fe-rich, 870870
 Japan Trench, carbonate, 870669
 limestone, stable isotope, 150799
 lithology, 280156, 380598
 chert, 100197
 dolomite, 290368
 Mesozoic units, 480050
 physical properties, 130156
 manganese nodule, 510772
 mineralogy, 540346
 Mounds Hydrothermal Field, chemistry, 540408
 New Jersey Transect, stratigraphy, 950771
 Pacific Ocean
 bottom sediments, 571313, 571315, 571316
 guyots, 620775
 polymetallic crusts, diagenesis, 800830
 Rockall Plateau, concretion, fossil
 polymetallic, 810701, 810705
 siderite, 47A0566
 stable isotope, carbonate, 650383
 concretion, polymetallic
 alteration, products, 810739
 alteration, diagenetic, organic matter, 571305, 571306
³⁹Ar/⁴⁰Ar age, boulders, 571281
 Atlantic Ocean N, sedimentation, 120928
 Atlantic Ocean NC, Mesozoic sequences, 411004
 Atlantic Ocean NE, evolution, 411218
 Baja California, 640942
 bioclasts, 580632
 Bouma sequence, 580974
 Cape Bojador
 continental margin, 47A0780
 lithologic classification, 500019
 clast, 580643, 580644
 hydrothermal mineral, 580646
 limestone, 580646
 sandstone, hyaloclastic, 580646
 clast, lithic, 580631
 clay, 390150, 580647
 stratigraphy, 870639
 clay minerals, Cretaceous and Cenozoic, 480711
 clay, terrigenous, Campbell Island, 291147
 continental shelf, onshore geology, 400967, 400970
 dacite
 Japan Trench, 561285 - - - age, 561083
 sulfur/carbon isotope ratio, 571285, 571286, 571287, 571288
 Daito Basin, 580974
 Daito Ridge, 580629, 580643, 580647, 580659, 580974
 age, 580634
 clast, 580644
 petrography, 580629
 deposition, 300432, 580647, 950773
 debris flow, 300432, 300438, 580647
 mass flow, 300432, 300438
 slumping, 580647
 slurries, 300432
 turbidites, 580647
 detrital minerals, 580633
 Eocene, 300431
 evaporites
 Mediterranean Sea, 130701, 130705, 130706
 Red Sea, 230918
 fan, submarine, 300432
 formations drilled, exposed land, 42A0897, 42A0898
 geochemistry, 810713
 carbon, organic, 390488
 Hatton Drift, 810715
 Rockall Plateau, 810739
 Goban Spur
 continental margin, 801161
 evolution, 801203
 grading, reverse
 basal contact, 300431
 sand, 300431
 grain size, mud pebble, 010333
 Greenland Sea
 basalt, 38S0241, 38S0243
 clay minerals, 38S0233
 geologic setting, 38S0214
 igneous rocks, 580659
 petrography, 580659
 Philippine Sea, 580659
 interstitial water, geochemistry, Baja California, 640681
 island arc, source, 300432
 Israel, history, 42B1206, 42B1214
 Japan, Sea of, sedimentary structure, 310487
 Japan Trench
 geology, 870706, 870707
 rhyolite, 561285
 laumontite, 580648
 zeolite, 580648
 Line Islands, 330837
 lithology, 180216, 180379, 210037, 260237, 290275, 300032, 300073, 300075, 350162, 380178, 380530, 380531, 390150, 42B0141, 42A0235, 42A0327, 480180, 480226, 500042, 500128, 500129
 carbonate, 170289
 clay, 120410
 evaporites, 130196
 gravel, 140288
 gypsum, 130198, 42A0235
 limestone, 170055
 major sediment types, 47A0028
 Mesozoic deposits, 47B0051, 47B0052
 ooze, 130262
 petrography, 310030
 sand, 130262, 140288
 sedimentation, 350164
 shallow-water, 120447
 silt, 120047
 slumping, 42A0327
 volcanic sediment, 170055
 Malekula, rudite, 300431
 Mediterranean Sea, 110810
 lithostratigraphy, 131037
 Mediterranean Sea E, history, 42B1206, 42B1214
 microdolerite, clast, lithic, 580632
 nannofossils, 300431
 Neogene formations, paleogeography, 42A0908
 Neogene sedimentation, sediment evolution and sources, 47A0612
 Norwegian Sea
 basalt, 38S0241, 38S0243
 clay minerals, 38S0233
 geologic setting, 38S0214
 Greenland Sea, 38S0263, 38S0268, 38S0270
 organic geochemistry, metamorphic cobble, 640877
 Pacific Ocean SW, Mesozoic regional evolution, 210900
 palynological residue, gulf mouth, 640738, 640746, 640748
 palynomorphs, Cretaceous, 47B0452
 petrography, 580629, 580631, 580643
 Philippine Sea, 580629
 phenocrysts, clast, lithic, 580632
 Philippine Sea, 580643
 Daito Basin, 600425
 Daito Ridge, 600425
 petrography, 580629, 580643
 sedimentary structure, 310487
 Pigmy Basin, lithology, 960570
 proximal channel, 580643
 red beds
 sedimentary structure, 38S0263
 sedimentary structure, secondary, 38S0268
 turbidites, 38S0268, 38S0270
 rhyolite, sulfur/carbon isotope ratio, 571285, 571286, 571287, 571288
 Rio Grande Rise
 Eocene sedimentation, 721007
 Mesozoic, 721015
 Rio Grande Rise N, regional setting, 250691
 sandstone, dewatering pipe, 300431
 Santa Elena, 840839
 Santos Plateau, origin, 390936, 390940
 schist, hornblende, clast, lithic, 580633
 sediment-interstitial water interaction, salinity, 571269
 sedimentation, Rockall Rise, 480688
 silica, diagenesis, 410890
 siliceous sediment, alteration, mineralogical, 500727
 silt, terrigenous, Campbell Island, 291147
 siltstone, 300431
 slumping, 42A0327
 deposition, 580647
 sorting, 300431
 South Fiji Basin, geology, 300625
 Southern California Borderland, volcanic rocks, 630951
 southwest regional unconformities, sandstone, 210902
 turbidites
 channel deposits, 580647
 fan, submarine, 300430
 volcanoclastics, 550503
 volcanism, Neogene, 47A0707, 47A0712
 zeolitization, 580647
 conglomerate, acid, 571285, 571288
 conglomerate, andesitic

- phenocryst, 300407
vesicle, 300408
conglomerate, calcareous
basalt, mineral chemistry, 550607
volcanic rocks, ages, 550660
conglomerate, carbonate
deposition, 300440
lithology, Miocene, 440201
conglomerate, polymict
lithology, deposition, 480206
Rockall Rise SW, structure, 481075
conglomerate, tuffaceous
lithology, 210037, 480180
Philippine Sea, West Mariana Basin, 600429
conglomerate, volcanic, 300431, 330780
alteration, siltstone, vitric, 300483
Japan, Sea of, sedimentary structure, 310487
Japan Trench, 561075, 561077, 561078
age, 561079
magnetic properties, 561078
petrography, 561075
tectonic setting, 561078
lithology, 220122, 280022, 300071, 300072, 310030
Philippine Sea, sedimentary structure, 310487
seamounts, 330780
conglomerate, volcanoclastic
basalt, pyroxene, 590698
Cape Bojador, continental margin, 47A0780
lithology, major sediment types, 47A0028
Neogene sequence, 47A0603, 47A0606
conglomerate, acid, 571287
Congo River, 140729, 280939, 38S0845, 391066, 400034, 400365, 400387, 750657
Cocoa Beach, 400746
lithology, 400387
Congress Seamount, 430012, 430847, 430851
Coniacian/Santonian boundary
Long Normal Zone correlation, 720947
Magnetic Anomaly, 34, 720947
Marthasterites furcatus zone, 720946
Conrad Fracture Zone, 391065
consolidation, 210497, 310569, 310570, 310571, 310572, 840746, 840749, 840751, 840752, 840754, 860725, 860737, 870843, 930417, 960797, 960800
Atlantic Ocean NW, physical properties, 160499
Barbados Ridge, 780552, 780557
Bermuda Rise, physical properties, 110667
bromine, chlorine, 42B0635
clay, 310570, 310571, 510708
Pacific Ocean NW, 860718, 860737, 860746, 860749
clay minerals, Miocene-Pleistocene, 630619
clay, siliceous, Pacific Ocean NW, 860715, 860718
claystone, 310571
Costa Rica, continental margin, 840923
deep water sediments, 010582
marine sediments, 010582
deformed sediments, physical properties, 180897
degree of consolidation, 210497
diagenesis, 660518
diastrophism, 310572
diatomite, 310572
drilling-induced structures, 660531
geophysics
ooze, diatomaceous, 190713
undisturbed behavior, 190712
geotechnical properties
Mississippi Fan, 960824
Pigmy Basin, 960823, 960824
Guadalupe Island, 310569
Indian Ocean W, diagenetic structures, 241068
interstitial water, basement, 100620
intraslope basin, sediments, 960819
iodine, interstitial water, 42B0635
Japan, forearc, 870918
Japan Trench, 561201, 581201, 870843, 870844, 870845, 870846
disturbance, 870844
interstitial water, 870855
sediments, 870843
silt, diatomaceous, 870844
testing, 870844
lithology, 100171, 100262, 100314, 160058, 180174, 280232, 300178, 870836
diagenesis, 310198
physical properties, 180174
Middle America Trench, 840745, 840746, 840749, 840751, 840752, 840754
Costa Rica, 840554
geotechnical properties, 660477, 660483, 660484, 660485, 660487, 660490
mineralogy, 350301, 350305
Miocene, 310571
Mississippi Fan
clay, 960797
compaction, 960798
deposition, 960797
effective stress, 960797
erosion, 960797
mass movement, 960797
overburden stress, 960797
permeability, 960797
pore water pressure, 960797, 960798
sedimentation rate, 960797
shear strength, 960797
vertical effective stress, 960797
Nankai Trough, 310570, 870839, 870840, 870843, 870845
degassing, 870844
trench fill, 870844
ooze, carbonate, Pacific Ocean NW, 860718
ooze, diatomaceous, 310572
Pacific continental margin, geomorphology, 350285
Pacific Ocean N, physical properties, 190712, 190713
Pacific Ocean NW, 860718, 860725, 860737, 860746, 860749
Pacific Ocean SW, diagenesis, 210497
Pacific Ocean W, 310569
Panama Basin, physical properties, 160504, 160508
permeability, 960803, 960804, 960807
accumulation rate, 870844, 870845, 960808, 960809
alteration, 870846
cementation, 870844, 870845
compaction, 960809
compaction, gravitational, 870844
compression, 870846
consolidation rate, 960805
decoulement, 960809
degassing, 870846
equilibrium state, 960806, 960808
erosion, 870845, 870846
fan, submarine, 960807, 960809
interstitial water, rapid drainage, 870845
Japan Trench, 870846
laterally applied stresses, 870844
lithostatic pressure, 870845
loading, 960808
low permeabilities, 870844
mass movement, susceptibility, 960809
mass wasting, 870846
Mexico, Gulf of, 960806, 960807
Mississippi Fan, 960808
Nankai Trough, 870845, 870846
near-surface, 870845
"origin cohesion" sediment, 870845
overburden increases, 870846
pore water pressure, 870844
porosity, 960803, 960805, 960807, 960809
sedimentary overburden, 870844
sedimentation rate, 870846
shear strength, 960806
slope failure, 960809
slumping, 960809
soil compressibility, 960804
sorting, 960803
subsidence, 960808, 960809
tectonic stress, 870846
testing, 960805, 960806
turbidite, 870845
Philippine Basin W, 310570
Philippine Sea, 310569
physical and chemical properties, 140655
physical properties, 010580, 010583, 110711, 110712, 160508
back-pressured conditions, 960821
compressibility, 190713
disturbance, 680366, 680370
effective stress, 960821
excess pore-water pressure, 960822
gas, 960821
initial delay, 901244
measurements, 411200, 411210
overconsolidated sediments, 960821
Pacific Ocean NE, 160508
Panama Basin, 160508
permeability, 960823
Pliocene-Quaternary sediments, 640538
pore water pressure, 870835
porosity, density, 110712
preconsolidation stress, 960821
rebound characteristics, 960821
shear strength, 960821
sonic velocity, 110714
testing, 960821
underconsolidated sediment, 960821
vertical effective stress, 960821, 960822
void ratio, 960821
Pliocene to Recent, 310570
pore-water pressure, 870844
Rio Grande Rise, 720537
sand, diagenesis, 660518
sapropel, Cretaceous, 620898
sedimentation rate, 310570, 310571, 310572
sedimentology, physical properties, 100712, 100714, 100715
seismic coherence, 870843
shale, 310570
shear strength
Mississippi Fan, 960798, 960799, 960800
overburden stress, 960798
pore water pressures, 960798
Shikoku Island, 310570
slickensides, 310570
Southeast Pacific Basin, evolution, geologic, 350735
tectonic dewatering
Barbados, 870839
convergent margin, 870839
subduction, 870839
tectonic shear stress, 870839
testing, 870839, 870840
Washington, 870839
testing, 840745
argillaceous sediment transformation, 960801
axial strain-time relationships, 960800
cementation, 960801

- testing (Cont.)
 clay, 960801
 definition, 960801
 dessication, 960801
 effective overburden stress, 960802
 excess pore-water pressure, 960800, 960802
 geotechnical properties, 960803
 hydrostatic conditions/depth, 960802
 interparticle bonding, 960801
 loading, 960801
 normally consolidated sediment, 960802
 overburden pressure, 960801, 960802
 preconsolidation pressure, 960800, 960801
 rebound characteristics, 960801
 sedimentation rate, 960803
 shear strength, 960802
 underconsolidated sediment, 960802
 vertical effective stress, 960802
 void ratio, 960800
 tetrapyrrole, geochemistry, 640810
 underconsolidated, 310570, 310571, 310572
 underconsolidation, 310570, 310571, 310572
 vein, structure, 870823
 Walvis Ridge, geotechnical properties, 751117, 751118, 751120, 751123
 water content, 511454
 Yamato Basin, 310570
 Yamato Rise, 310571
see also overconsolidation;
 underconsolidation
 consolidation rate
 permeability, 960805
 sediment, physical properties, 010580
 consolidation, uniaxial, dewatering, 870840
 contact, 050369, 070729, 070823, 220272, 270134, 290218, 350066, 38S0261, 38S0272, 400463, 480225
 Angola Basin, geologic evolution, 750511
 Atlantic Ocean NE, evolution, 411220
 Atlantic Ocean NW, regional aspects, 110967
 Atlantic Ocean W, Brazil Basin, 040660
 Baja California SW, tectonics, 630958
 basalt, 38S0241
 chert, chert nodule, 300435
 claystone, basalt, 550709
 crust, oceanic, 650375
 East Pacific Rise, 650375
 East Pacific Rise, sediments, 650377, 650380, 650381
 eruptive, geochemistry, 640862
 Galapagos Islands, hydrothermal mounds, 700191, 770204
 Greenland Sea, basalt, 38S0241, 38S0242, 38S0243
 Hess Rise, pyrite-marcasite, 620859
 hydrocarbon, C₁-C₈, Guaymas Basin, 640769
 Indian Ocean W, tropical, 240637
 lithology, 050369, 070825, 220272, 350066
 basalt, 340116, 380208, 510363
 basement, 090455
 lower fan, mud, 960471
 Mediterranean Sea E, history, 42B1208
 Norwegian Sea
 basalt, 38S0241, 38S0242, 38S0243
 Greenland Sea, 38S0261, 38S0272
 Pacific Ocean EC, stratigraphy, 090937
 Pacific Ocean N
 Bering Sea, 190909
 mineralization, contact, 190906
 Pacific Ocean SW, Western Marginal Basin Province, 210900
 Philippine Basin, genesis, 310868
 red beds, 38S0272
 sedimentary structure, 38S0261
 regional summary, 020415
 seawater, 490035
 sedimentation, Line Islands, 090937
 South Fiji Basin, volcanic components, 210483
 Southeast Pacific Basin, evolution, geologic, 350734
 Venezuelan Basin, clay, zeolitic, 040666
 contact, burrowed, lithology, 510362
 contact, diffuse, lithology, 430041, 500040, 510044
 contact, dipping
 lithology, 120326
 sandstone, volcanic, 120365
 contact, erosional, 310484, 400195, 400199, 400202, 400203, 400205, 400206, 400995, 430210
 contact, gradational, 080538, 080539, 090054, 090057, 140185, 140220, 140258, 140259, 180378, 190466, 200011, 200071, 210059, 210375, 220038, 250029, 270198, 280052, 280218, 280865, 290231, 320298, 330109, 350161, 360091, 380163, 390150, 390162, 390240, 390336, 400043, 400203, 410028, 410171, 410239, 410427, 410973, 411131, 42A0231, 42A0239, 42A0328, 430037, 430043, 430044, 430161, 430163, 47B0048, 47B0051, 47B0054, 480175, 510363
 Africa NW, continental margin, 411131
 Caroline Abyssal Plain, chalk, 200071
 Japan Trench, chalk, 200011
 lithology
 calcarenite, 140259
 Cenozoic deposits, 47B0048
 chert, 140185
 clay, dolomitic, 140185
 clay, zeolitic, 140185, 140220
 Clipperton Oceanic Formation, 090054, 090057
 Line Islands, 080539, 090408
 Marquesas Oceanic Formation, 080538
 Mesozoic deposits, 47B0051, 47B0054
 mud, calcareous, 140258, 140259
 ooze, foraminiferal nannofossil, 140258
 ooze, micarb diatomaceous, 280052
 sand, arkosic, 140185
 Ross Sea, basement, 280865
 contact metamorphism, 110227
 Atlantic Ocean NE, evolution, 411220
 Cape Verde Basin, kerogen, 410821
 Cape Verde Terrace, kerogen, 410821
 Daito Ridge, 580637
 hydrothermal activity, Guaymas Basin, 641163
 kerogen, 410821, 410824
 alkane, 410821
 amorphous organic matter, 410821
 asphaltene, 410821
 burial, 410821, 410824
 Cape Verde Basin, 410821
 Cape Verde Terrace, 410821
 carbon, organic, 410821
 carbon preference index, 410821
 carbonate, 410821
 catagenesis, burial, 410824
 diabase, 410821
 hydrocarbon, 410821
 igneous activity, 410821
 intrusion, 410821
 maturation, 410824
 oil, 410821, 410824
 oil-like organic extract, 410821, 410824
 organic extract, 410822, 410824
 organic richness, 410821, 410822
 petroleum, 410821, 410824
 saturates, 410821
 shale, 410821
 shale, organic-rich, 410821
 thermal immaturity, 410824
 thermal maturation, 410821
 thermal variation, 410824
 vitrinite, 410821, 410824
 lithology, 110227
 phenocryst, water influence, phenocryst compositions, 540662
 sediment, kerogen, 410821
 sediments, 410821
 kerogen, 410821, 410824
 organic extract, 410824
 stable isotope, carbonate, 650384
 tetrapyrrole, diagenetic, pigment, 410835
 thermomagnetic curve, Curie temperature, 630749
 contact, sharp, 040081, 040246, 050016, 050109, 050170, 050310, 060588, 080047, 080137, 090038, 090039, 090537, 100091, 120365, 130149, 130422, 130713, 130718, 140865, 150022, 150408, 160156, 180018, 180099, 180100, 180172, 180236, 180378, 180379, 180409, 190417, 190418, 210018, 210021, 210036, 210037, 210705, 220038, 220196, 220327, 220738, 230120, 230215, 250031, 250092, 250093, 250193, 250196, 250265, 250266, 250294, 260331, 270198, 270285, 280021, 280052, 280215, 280217, 280218, 280220, 280370, 280372, 280864, 290046, 290231, 290318, 290367, 310133, 310204, 310411, 320083, 320196, 320217, 320318, 350067, 350161, 380120, 380163, 390032, 390150, 390239, 390241, 390333, 390336, 390376, 401029, 410028, 410171, 410239, 410240, 410427, 410973, 410993, 410998, 411000, 411129, 411131, 42B0035, 42A0036, 42A0068, 42A0156, 42A0229, 42A0231, 42A0233, 42A0327, 42A0328, 430037, 430041, 430043, 430044, 430045, 430204, 430331, 430335, 430336, 440202, 47B0035, 480048, 480080, 480175, 490104, 500040, 500126, 510043, 510044, 510045, 510046, 510361, 510362, 510363
 Africa, continental margin NW, 410973
 Africa NW, continental margin, 411129, 411131
 Atlantic Ocean NC, Mesozoic sequences, 410993
 Caroline Abyssal Plain, chalk, 200066, 200069, 200071
 chert, siltstone-carbonate cycle, 300436
 clastic sediment, Cretaceous, 401027, 401029
 Indian Ocean NE, Cretaceous, 220737
 Indian Ocean NW, grain size, 250423
 Indian Ocean W, volcanic sediment, 250517
 Japan Trench, chalk, 200011
 lithology
 basement, 110080
 breccia, 120260, 130227, 130228
 calcarenite, 140259
 Cenozoic deposits, 47B0048
 Cenozoic units, 480048
 chert, 140185
 clay, 300137
 clay, dolomitic, 140185
 clay, zeolitic, 140185, 140220
 Clipperton Oceanic Formation, 080288, 080289, 080462, 080538, 080623, 090408, 090452, 090540
 Eocene, 110013
 igneous rocks, 330046
 limestone, 170055
 Line Islands, 080139, 080140, 080539
 marl, dolomitic, 130487
 marl, pyritic, 130487
 Marquesas Oceanic Formation, 080064, 080139, 080462, 080623, 090408
 Mesozoic deposits, 47B0051, 47B0052,

- lithology (Cont.)
 47B0053
 Mesozoic units, 480049
 Miocene sediments, 190222
 mud, calcareous, 140258, 140259
 mud, terrigenous black, 130369
 ooze, 130262
 ooze, foraminiferal, 130424
 ooze, foraminiferal nannofossil, 140258
 ooze, marl, 130064, 130227, 130228
 ooze, nannofossil, 140259
 San Blas Oceanic Formation, 090490
 sand, 130262, 180450
 sand, arkosic, 140185
 sandstone, terrigenous, 130369
 sandstone, volcanic, 120365, 310197
 sedimentary structure, 47A0030
 sedimentation, 350031, 350032, 350131, 350164
 sedimentology, 100049
 shale, 130486
 silt, 130486, 180450, 300137
 siltstone, volcanic, 310197
 volcanic sediment, 170055
 mineralogy, 130714, 130717
 turbidites, 130714
 Pacific Ocean SW, unconformities, 210705
 Ross Sea, basement, 280864
 sapropel, petrography, 130714, 130717
 sediment reworking, 920601
 sedimentary structure
 clay, 220737
 Ganges Fan, 220739
 turbidites, 090041
 contact, transitional, 410172, 510043, 510044, 510045, 510046, 510363
 lithology, 510043, 510045, 510046
 mudstone, 510363
 Contessa, Italy, 730632
 Cretaceous/Tertiary boundary, 720951
 continent/ocean boundary
 Europe NW, continental margin, 801187
 Goban Spur
 continental margin, 801128, 801130, 801131, 801132, 801157
 evolution, 801203, 801204, 801212
 modeling, 801141
 magnetic models, 801142
 continental drift
 anoxia, organic richness, 801011
 Atlantic Ocean S, history, 740729
 Atlantic Ocean SW, basin, evolution, 360996
 Indian Ocean S, geologic history, 260936
 lithology, 290369
 Moroccan Basin, margin, 500809
 Pacific continental margin, geomorphology, 350287
 Pacific Ocean NE, cruise synthesis, 151105
 Pacific Ocean W, guyot, 200653
 Rio Grande Rise N, regional setting, 250699
 sea floor spreading, history, 250663
 see also convergence; subduction
 continental rift system, volcanism, Eocene-Oligocene, 901184
 contour current, 110947, 120260, 120322, 120397, 120398, 120399, 200057, 280157, 280159, 280185, 350032, 350131, 350140, 380179, 440205, 440483, 440489, 440490, 440493
 accumulation rate, 280930
 Atlantic Ocean NC, Mesozoic sequences, 411004
 Atlantic Ocean NW
 lithology, 110947
 microfacies, 440483, 440489, 440490, 440493
 regional aspects, 110970
 biostratigraphic record disturbance
 factors, reworked, displaced faunas, 800686
 California, Gulf of
 deposition, 650474
 sediment distribution, 650471
 continental margin sediments
 origin, 280736
 progradation, 280754
 traction, 280738
 currents, 480758
 deposition, current, 280729, 280730
 Goban Spur, evolution, 801209
 Iceland Basin, 121186
 Indian Ocean E, abyssal plain sediment, 271017
 Labrador Sea S, deep current-controlled sediment body, 121163
 lithology, 120321, 120397, 120398, 120399, 280157, 280159, 280185, 280922, 280925, 350140, 380179, 440205
 mudstone, 120260
 sedimentation, 350032, 350131
 lower continental rise hills, 440005, 440043
 Norfolk, 440023
 Marcus Island, archipelagic apron, 200057
 microfacies, sediments, 440489
 Blake Ridge, 440493
 sedimentary environments
 Blake Ridge, 440978
 Labrador Sea, 440976
 seismic stratigraphy
 Blake Escarpment, 440529
 bottom scour, mass movement, 901334
 silica, opaline, transformation, 480758
 Southeast Pacific Basin
 evolution, geologic, 350730, 350735, 350739
 sediment distribution, 350217
 southward flowing, 440520
 Tertiary, Eocene, 801179
 contourites, 130158, 130268, 130667, 130668, 130673, 130675, 130714, 130717, 131029, 131033, 131038, 131260, 131442, 310133, 350131, 350132, 400071, 401030, 410497, 47B0381, 480800, 480814, 810695, 810696, 810698, 941078
 Africa NW, sand, 410497
 Atlantic Ocean N, 810695
 Atlantic Ocean NE, Hatton Drift, 810695
 Balearic Islands, southern prolongation, 131442
 Biscay, Bay of, evolution, 480800, 480814
 Blake Basin, 760899, 760901
 Blake Ridge, 760939, 760941
 Blake Spur, 760901
 clastic sediment, Cretaceous, 401030
 deposition
 current, 280729
 Lesser Antilles, 780313
 Portugal, 47B0381
 Hatton Drift, 810695, 810698
 Atlantic Ocean NE, 810695
 bottom current, 810695, 810698
 circulation, 810695
 lamination, 810699
 sediment composition, 810696, 810698
 sedimentation, 810695
 transport, 810699
 lamination, 810696, 810699
 lithology, 130158, 130268, 310133
 sandstone, 400071
 sedimentation, 350032, 350131, 350132
 shale, 400071
 Mediterranean Sea
 Hellenic Trough, 130668
 Ionian Basin, 130668
 lithostratigraphy, 131029, 131033, 131038, 131039
 Mediterranean Basin, 130667
 Messinian, 130673, 130675
 Neogene, 131260
 Mexico S, continental, 660442
 mineralogy, turbidites, 130714, 130717
 Miocene-Pliocene, 810696
 Miocene-Recent, 810696
 mud, 810698
 mud, biogenic, 810696
 ooze, biogenic carbonate, 810696, 810698, 810699
 petrology, 740653
 Pliocene-Recent, 810698
 Rockall Rise, 810695
 sapropel, petrography, 130714, 130717
 sedimentary cycles, 740653
 sedimentology, 810698
 sediments, Blake Ridge, 760939, 760941
 Southeast Pacific Basin
 evolution, geologic, 350732, 350735
 sediment distribution, 350226
 convection
 basalt
 geochemistry, 920450
 glass, 600606
 petrology, 580861, 580865
 basalt, alkali, genesis, 920449
 California, Gulf of, 650343
 chloride, Pacific Ocean SE, 920550
 Colon Ridge, 680472
 interstitial water, 680474
 Costa Rica Rift, 680472, 690246, 690247, 690249
 alkali, 690487
 crust, oceanic, 690245
 formation pressure, 690250
 diagenesis, 920345, 920349
 East Pacific Rise, 540396
 Galapagos Spreading Center, 540377
 gas, interstitial, stable isotopes, 640816
 glass, basalt, 650479
 hyaloclastite, basalt, 650479
 interstitial water, 650441
 advection, 920612, 920613
 alteration, 920613
¹³C, 920613
 CaCO₃, 920613
 cooling, 920612
 East Pacific Rise, 920612
 fluid, 650446
 Galapagos Hydrothermal Mounds, 920612
 hydrothermal activity, 680467, 920612
 Mariana Islands, 920612
¹⁸O, 920613
 strontium, 920613
 mineralogy, 920345, 920349
 mixed isotope and radio chemical model, uranium, 700308
 Mounds, nontronite, 540384
 Philippine Sea, Paleogene-Neogene, 310842
 regional tectonics, swell push forces, 720961
 RSO fraction, 920347
 Shikoku Basin, basalt, 580895, 580900
 Suiko Seamount, trace elements, 550568
 thermohaline flow, Quaternary, 720990
 trace elements, mantle, upper, 920440
 convection, chemical, 680472
 Colon Ridge, interstitial water, 680472
 convective flux, 680472
 Costa Rica Rift, 680472
 diffusive flux, 680472

- convection, hydrothermal, 680467
 Colon Ridge, interstitial water, 680467
 ridge crest, 680467
 convection, thermal
 continental margin, structural evolution, 481050
 Costa Rica Rift, alkali, 690487
 mantle, 760905, 760906, 760925
 convection, thermohaline
 Atlantic Ocean S, Paleogene, 720985
 glacial cycles, deep-sea environment, 800813
 thermohaline flow, Quaternary, 720989, 720990, 720991
 convection, vertical, glacial cycles, deep-sea environment, 800813
 convergence, 780560
 American Plate, 780614
 Biscay, Bay of N, continental margin, 481025
 Caribbean Plate, 780025, 780593, 780614
 Central America, western continental slope, 840921
 conclusions, petrochemistry, 670584
 Coral Sea E, geology, 300661
 geologic structure, Pacific Plate, 870810
 geophysical data, 840942
 Goban Spur, continental margin, 801158, 801162
 Honshu, Izu, 870795
 intertropical zone, 780507
 Izu, Honshu, 870795
 Japan, continental margin, 560486
 Japan Trench
 geology, 870707
 sediments, 271233
 structural feature, 870809
 Lesser Antilles, 780086, 780549
 convergent margin, 780086
 subduction zone, 780614
 Lord Howe Rise, pale green laminae, 901154
 Lord Howe Rise S, 901352
 magma, parental, crust, oceanic, 670580, 670583
 margin, tectonics, 870809
 Mariana Islands, 780086
 Middle America Trench, 840879, 840892
 geotechnical properties, 660488, 660490, 660491
 Mindanao, Ryukyu, 600927
 Nankai Trough
 faults, fractures, 870805
 heat flow, 870739
 subduction rate, 870789
 Nazca Plate
 lithology, 340795
 South America, 340795, 340797, 340798, 340799, 340800, 340804
 New Hebrides, 780086
 Pacific Ocean, Nazca Plate, 340795
 Pacific Ocean NE, metal-rich basal sediments, 630669
 Pacific Ocean SW
 Cenozoic paleoenvironment, 901225
 island arcs, 300698, 300700, 300702, 300704
 Pacific Plate, 870810
 Philippine Basin, genesis, 310868
 Philippine Plate, 870789, 870795
 plate tectonics, crust, oceanic, 670580, 670584
 previous work, introduction, 840939
 rate, 870798
 regional structure, 801189
 relation to stresses, 780562
 sedimentation, geochemical aspects, 710430
 seismic reflection, seismic section characteristics, 850950
 Shikoku, subduction, 870798
 South America, Nazca Plate, 340804
 South America NE, Nazca Plate, 340795
 Southeast Pacific Basin, evolution, geologic, 350736, 350739
 subduction rate, 870790
 geologic constraint, 870795
 trench wedge geometry, 870791, 870794
 turbidite, mineral composition, 670537
 vein, structure, 870823
see also specific plates
 convergence rate, 870790
 Aleutian Trench, 870790
 Cocos Plate, 840831
 Japan Trench, 870810
 Middle America Trench, 840892
 Nankai Trough, 870780, 870789, 870791, 870794, 870795
 heat flow, 870739
 subduction rate, 870789
 Pacific Plate, 870810
 Philippine Plate, 870739
 Shikoku Basin, subduction, 870798
 subduction rate, geologic constraint, 870795
 tectonic plates, 870789, 870795
 convergent margin, 780322, 840911, 840913
 accretion, 780601, 840939
 Barbados Ridge, shortening rate, 780612
 consolidation, tectonic dewatering, 870839
 displacement field, 780562
 erosion, 780601
 Guatemala, 840925
 extension, 840911
 Japan, deformation, tectonic, 560569, 560570, 560574, 560576, 560577, 560578, 560579, 560580, 560581
 Japan Trench, 670728
 geologic setting, 870917
 sedimentology, 870909
 structural feature, 870809
 Lesser Antilles
 convergence, 780086
 subduction, 780086, 780094, 780096, 780097
 underthrusting, 780086
 Middle America Trench, 780367, 840955
 Barbados Ridge, 840955
 model, 840939
 offscraping, 780005
 sedimentation rate, 660445
 subduction, 780005, 780559, 780601
 pore water pressure, 780549
 tectonics, 780005, 780559, 780566, 780601
 volcanic activity, 780086
 Cook Fracture Zone, South Fiji Basin, geology, 300619
 Cook Inlet, 180968, 190019, 190569, 190897, 190900, 190908
 Pacific Ocean N
 Aleutian Plain, 190897
 plate movement, 190898, 190900
 sedimentation, 190908
 Cook Islands, 910272
 Cook Strait, 900655, 901325, 910209
 cooling, 450469, 710417, 860760
 alteration, temperature, 920499
 Angola Basin
 clay mineralogy, 750846, 750847
 geochemistry, 750846
 Antarctica, glaciation, 710417
 basalt, 450444, 450469
 basement, 460111
 crystallization, 920464, 920466, 920467, 920468
 geochemistry, 460111
 magma, 650549
 magnetic properties, 511401
 mineral chemistry, 550615
 mineral, opaque, 511436
 one-atmosphere phase relations, 450469
 oxidation, 920481
 petrography, 920468, 920469
 petrology, 450468, 450469, 450470, 450471, 460111, 540751, 580845, 580846, 580852, 590669
 basalt, altered, carbonate, 580913
 basalt, phyrlic, 650636, 650641
 clinopyroxene, 650636
 plagioclase, 650636
 basalt, sparsely phyrlic, 540618
 crystal morphologies, 540627
 discontinuity, 540618
 petrology, 540628
 basalt, vitric, plagioclase, 511063
 basement, 460111
 calcite, 920502
 basement, volcanic, 460111
 Bermuda Rise
 basalt, 511401, 511404
 basement, 511383, 511384
 boninite, crystallization, 600701
 boninite, nonglassy, 600698
 California, Gulf of, basalt, 650532, 650534, 650635
 crystal morphology, 600683
 crystallization
 basalt, phyrlic, 450444
 one-atmosphere phase relations, 450469
 dike, joints, 830493
 drilling, basement, 490835
 Emperor Seamounts
 basalt, 550732
 petrology, 550583
 euxinic sediment, Cenozoic organic sediments, 750852
 glass
 basalt, 340189
 chemical variation, 510977
 inclusions, 511063
 heat flow anomaly, lithosphere, 870742
 hyaloclastite, 210535
 hydrothermal deposits, origin, 540416, 540419
 igneous rocks, geochemistry, 370675
 increase, 710417
 isotopic temperatures, 710418
 joints, crust, oceanic, 830493
 magnetic oxides, petrology, 511427
 Mendoza Rise, lithology, 920436
 mineral chemistry, 450468, 450469, 450470, 450471
 clinopyroxene, 450470
 fan-spherulitic groundmass, 450470
 olivine, 450469
 plagioclase, 450469
 titanomagnetite, 450470
 mineral, opaque, petrology, 340359
 mineral, secondary, 540812
 mineralization, secondary, mineralogy, 540809
 mineralogy, clinopyroxene, 540762
 Mounds, nontronite, 540382
 OCP Ridge, basalt, 540811
 ore, deposit, 540803
 oxygen isotope, geochemistry, 370605
 palynological residue, dolerite, 640754
 petrography, 650635
 petrology, 540795
 Rockall Plateau, Tertiary deposits, 810681
 seismic stratigraphy, erosion, 901334
 Shikoku Basin, basalt, 580895, 580896
 Siqueiros Fracture Zone, basalt, porphyritic, 540611

- $^{86}\text{Sr}/^{87}\text{Sr}$ ratio, rapidly deposited massive flows, 920502
 synthetic seismogram, 920577
 temperature, 901318
 tetrapyrrole, diagenetic, pigment, 410836
 thermomagnetic curve, Curie temperature, 630749, 630750
 tholeiite, genesis, 920447
 cooling, aphyric, basalt, liquid variation, 650556
 cooling, conductive, 650353
 thermal conductivity, 650353
 cooling, lithospheric
 California, Gulf of, 650343
 convective versus thermal conductivity, 650343, 650351
 Galapagos Fracture Zone, hydrothermal activity, 540408
 cooling rind
 basalt, glass, 650554
 glass, chemistry, 370653
 igneous rocks, geochemistry, 370653, 370654, 370674
 cooling unit, 210535, 340189, 340190, 340194, 340196, 340240, 411107, 460227, 460259, 460260, 460293, 460299, 511021
 alteration, low-pressure, 460301
 alteration, low-temperature, mineral, transparent, 460301
 basalt, 411107, 460259, 460260, 511021
 alteration, 411107
 chemistry, 511021, 511022, 511025, 511033
 crystal morphology, 460261
 crystallization, 460262
 emplacement mode, 460261
 major oxide abundances, 511021
 mineralogy, 460151, 460260, 511021, 511022, 511025, 511033
 petrology, 340189, 340190, 460228, 580853, 580860
 pillow, 340190, 411107
 basement
 basalt, 460228
 drilling difficulties, 540594
 chemistry, 340240, 511021, 511025
 trace elements, 511033
 clinopyroxene
 basalt, 460262
 crystallization, 460259
 crystal morphology, 460261
 crystallization, 460259
 basalt, 460262
 pyroxene, 460263
 theory, 460262
 volatiles, 460263
 East Pacific Rise, sediments, 650377
 Emperor Seamounts, petrology, 550571
 emplacement mode, 460261
 flow
 basalt, 340190, 411107
 basalt, porphyritic, 340189
 fractionation, 340194, 340196
 major element, 460259, 460293
 chemical types, correlation, 650561
 major oxide abundances, 511021, 511033
 Mid-Atlantic Ridge, paleocolatitude, 490813, 490814
 mineral, 460301
 mineral composition, 460260
 clinopyroxene, 460260, 460263
 olivine, 460260
 plagioclase, 460260
 mineral, secondary
 East Pacific Rise, 650646
 Tamayo Fracture Zone, 650646
 mineral, transparent, petrography, 460301
 mineralogy
 calcite, 511022, 511025, 511033
 clinopyroxene, 511022, 511025, 511033
 glass, 511022, 511025, 511033
 olivine, 511022, 511025, 511033
 plagioclase, 511022, 511025, 511033
 smectite, 511021, 511025, 511033
 minor element, East Pacific Rise, 650610
 olivine
 basalt, 460259, 460262
 crystallization, 460259
 petrography, 460259, 511025
 alteration, 511022, 511025
 flow unit, 511022, 511025, 511033
 fractionation, 511033
 groundmass, 511025
 groundmass phases, 460259
 phenocryst, 511022, 511025
 pillow lava, 511021, 511022, 511025
 tholeiite, 460259
 vesicle, 511022
 petrology
 OCP Ridge, 540637
 Siqueiros Fracture Zone, 540637
 pillow lava, basalt, 411107
 plagioclase, 460260
 basalt, 460259, 460262
 crystallization, 460259
 rhyolite, 210535
 sequence, 340189
 Shikoku Basin, basalt, 580896
 trace elements, 460293
 chemistry, 511033
 East Pacific Rise, 650594, 650610
 Tamayo Fracture Zone, 650594
 volcanics, 210535
 cooling unit, magnetic, Mid-Atlantic Ridge, paleocolatitude, 490815
 Coos River, 050536
 copper, 060845, 540325, 670567
 alteration
 products, 511274, 810734
 remnant arc debris, 590737, 590739, 590740
 alteration minerals, trace elements, 920496, 920497
 analysis, 920354, 920433
 Angola Basin
 geochemistry, 750847
 petrochemistry, 751101
 Arabian Sea, history, 231123
 Assemblage IA(+), 710394
 Assemblage IIA(+), 710395
 Assemblage IIIA(+), 710395
 Atlantic continental margin
 interstitial water chemistry, 040427, 050516, 070883, 070884, 080853, 090841, 230953
 mineralogy, 100786
 Atlantic Ocean
 Cenozoic sediments, 140813
 Cretaceous sediment, 140813
 geochemistry, 47B0434
 mineralogy, 47B0434
 Atlantic Ocean NW, regional aspects, 110967
 B, trace elements, 920491
 basalt, 240784
 alkali metal, 810756, 810761
 chemical composition, 320567, 320568
 chemical variation, 340305
 chemistry, 540679, 540681, 540682, 920472, 920478
 mineral, opaque, 511435
 petrology, 160628, 220459, 220463, 320567, 320568
 rare earth, 370581, 370582
 basalt, altered
 chemistry, 511323, 511324
 geochemistry, 540671
 basement, geochemistry, 920480
 Bermuda Rise, basalt, 511206, 511211
 Blake Basin, 760443, 760446, 760775
 Blake Ridge, 760420, 760421
 burrows, element distribution, 410933, 410934
 California, Gulf of, gulf mouth, 650404, 650407, 650410, 650416
 carbon, 090798
 carbon, organic, geochemistry, 750828
 carbonate, 090798
 petrology, 540327
 Caribbean Sea, sediments, 150939
 chemical composition, metal, 571259, 571262, 571263, 571266
 chemistry, 340377, 650419
 chert
 geochemistry, 620728
 petrology, 620728
 chlorophyll, diagenesis, 571391, 571406
 clay, trace elements, 860555
 clay, green, trace elements, 700220
 clay minerals, microelements, 560987
 claystone, basalt, 550707
 Costa Rica Rift, chalk, 690403, 690404
 crystallization, fractional, melting, partial, 370539
 deposition, models, 750840
 diabase, trace elements, 240784
 diagenesis
 interstitial fluid, 270475
 Miocene to present, 690361
 East Pacific Rise, sediments, 650426
 Emperor Seamounts, mineralogy, 550469, 550472, 550473
 euxinic sediment, shale, black, 750852
 Falkland Plateau, basement, 360896
 ferromanganese sediment, sediment chemistry, 190631, 190634
 Galapagos Spreading Center, 540377
 normative composition, 540380
 sediment classification, 540322
 geochemical history, Jurassic-Cretaceous, 710406
 geochemical partitioning, 650427, 650428
 authigenic contribution, 650427
 geochemistry, 390477, 390490, 640696
 accumulation rate, 340561
 andesite, 220463
 Bauer Basin, 340571
 California, Gulf of, 640696
 Cenozoic sediments, 42B0543, 42B0545, 42B0551, 42B0590, 42B0599
 chemistry, 340218, 340220
 comparison, other rock types, 220463
 Hatton Drift, 810734
 major oxides, 540359
 mathematical treatment, 500701
 mineral chemistry, 160628
 origins, basal sediments, 340564
 trace elements, 220459
 geochemistry, partition, mud, manganese, 700298
 glass, chemical variation, 510977, 510980
 Greenland Sea, basalt, 38S0241
 heavy metals, Cenozoic sediments, 450350, 450353
 Hess Rise
 iridium, 620847
 post-Jurassic sedimentation, 620820, 620821
 pyrite-marcasite, 620855, 620859, 620860
 rocks, 620863, 620864
 Hess Rise N

- Hess Rise N (Cont.)
 post-Jurassic, 620806, 620807
 sedimentary sequences, 620765
 hydrothermal alteration, sediments, 650420
 hydrothermal deposits, origin, 540416, 540418, 540419
 hydrothermal vein, mineralogy, 340377
 igneous rocks, chemical composition, 590720
 Indian Ocean NE
 Cretaceous, 220723
 sediment history, 220723
 Indian Ocean SE, sediments, 260542, 260547
 Indian Ocean W
 geochemistry, 250405, 250415
 regional aspects, 250758
 inorganic chemistry, 440578
 inorganic geochemistry, sediments, rocks, 750951
 Angola Basin, 750924, 750929, 750933
 Hess Rise, 620689, 620692, 620693
 Mid-Pacific Mountains W, 620685
 Walvis Ridge, 750925, 750950
 interstitial water, 060823
 Japan Trench
 clay minerals, 560987
 minor element, 870649
 sediments, 271223, 271224, 271226, 271228, 271230, 571213, 571251, 571253, 571255
 trace elements, 870649
 K/Ar age, gneiss, 360925
 Li, trace elements, 920491
 lithology, 150021, 330169
 Oxfordian-Kimmeridgian, 110226
 major element
 geochemistry, 42B0531, 42B0532, 630694
 minor element, 500679
 manganese, 291084
 Manihiki Plateau
 brine, 330881
 calcite, 330881
 chloride complex, 330881
 deposition, hydrothermal, 330881
 oceanic basalt resemblances, 330878
 zeolite, 330881
 Mellish Seamount, post-Jurassic
 sedimentation, 620835
 melting, partial, 460247
 metalliferous sediment, Eocene-Oligocene, 850799
 mineralogic facies comparison, manganese oxide, 810708
 mineralogy, 650419
 sulfide, 540744
 minor element, geochemistry, 360930, 42B0531, 42B0532
 Mounds Hydrothermal Field, chemistry, 540408
 Nankai Trough
 minor element, 870644
 trace elements, 870644
 Norwegian Sea, basalt, 38S0241
 ooze, calcareous, pore water, 270475
 ore, deposit, 540804
 organic geochemistry, tetrapyrrole, 640820
 organic matter, 500586
 Pacific Ocean, guyots, 620773, 620775, 620776
 Pacific Ocean NE, 151090
 metal-rich basal sediments, 630667, 630669, 630671, 630674
 Pacific Ocean NW
 clay, 860555
 geochemical history, 620786, 620787, 620800
 Pacific Ocean SE, basalt, 340218, 340220
 petrology, geochemical variation, 740757
 polymict breccia, clast, 600648
 preliminary organic analyses, 111021
 pyrite, framboidal, framboid, 750876
 rare earth elements, trace elements, 590666
 Rb-Sr age, gneiss, 360925
 Red Sea, geochemistry, 230981, 230989, 230991, 230995
 Red Sea S, heavy metals, 231123
 Rockall Plateau
 basalt, 810796
 concretion, fossil polymetallic, 810703, 810706
 Ross Sea, diamict, 280789
 sediment, hydrothermal mounds, 700281, 700282, 700284
 sediment geochemistry, 550457, 550462
 laterite, 550461
 nondepositional environment, 550460, 550461
 trace elements, 350459
 sediment-interstitial water interaction, 571269
 ions, 571269
 shale, black, chemical composition, 410875
 Sr isotope, 590720
 sulfide, 370875
 globules, 370875
 pyrite, 370881
 sulfur isotope, minor element, 500679
 tetrapyrrole, geochemistry, 630787, 630794, 630798, 630799, 630802, 630809, 630813, 640790, 640798
 trace elements, 370581, 370582, 430682, 650564, 850785, 850789
 alteration, 670567
 distribution, 42A0504, 42A0506
 geochemistry, 630694
 iron, 850786
 manganese, 850786
 partitioning, 850796
 transition elements, 920495
 Walvis Ridge, basalt, 740743, 740757
 West Mariana Basin, metallogenesis, 590649, 590651
see also Cu
 copper, native, 38S0761, 800851
 alteration, remnant arc debris, 590737, 590739
 Angola Basin, 38S0761
 shale, 38S0761
 Atlantic continental margin, mineralogy, 110786
 Atlantic Ocean NW, lithology, 110916
 basalt
 chemistry, 920478
 geochemistry, 590780, 920450
 basalt, altered
 carbonate, 580913, 580914
 geochemistry, 580792, 580802, 580815
 petrochemistry, 580792, 580802
 basement, geochemistry, 920480
 Caribbean Sea, sediments, 150929
 geochemistry, 38S0761
 iron, 38S0761
 sulfur, 38S0761
 Goban Spur, 800851, 800852
 Mendoza Rise
 lithology, 920436
 petrology, 920613
 mineralogy
 basalt, 220429
 primary mineralogy, 600711
 non-basement-associated, 38S0761
 ooze, nannofossil, Tertiary, 800851
 origin
 acidic conditions, 38S0764
 basalt, 38S0764
 brines, hot, 38S0764
 magma, 38S0763
 marcasite, 38S0764
 organic concentration, 38S0764
 precipitants, 38S0764
 seawater, 38S0763
 petrology, 38S0761, 540794
 Philippine Sea
 Daito Basin, 600429
 Daito Ridge, 600429
 copper sulfide
 alteration, remnant arc debris, 590737
 basalt, geochemistry, 590780
 Hess Rise, pyrite-marcasite, 620859
 coprolites
 glauconite, 291093
 glaucony, Central America, 660424
 Copt Point, 260625, 260634
 Gault Section, 260635
 coquina
 Biscay, Bay of, shale, black, 480848
 Cape Bojador, lithologic classification, 500019
 Falkland Plateau E, sedimentation, 360886
 limestone, Jurassic, 790465
 lithology, 500041, 500042
 siliceous sediment, 500725
 coral
 Bahama Islands, geology, 110884
 burrow mottling, silt, 291055
 clay, 291055
 Demerara Plain N, Pleistocene, 040665
 Falkland Plateau E, sedimentation, 360881
 formations drilled, exposed land, 42A0897
 Indian Ocean C, biogenic components, 240682
 Indian Ocean W, 240656
 biogenic components, 240664, 241051
 shallow-water biogenic components, 240704
 Jan Mayen Ridge, limestone, foraminiferal, 38S0098
 Jurassic-Cretaceous, carbonate, 790866, 790868
 limestone, Jurassic, 790451
 lithologies, minor, sand, skeletal, 901481
 lithology, 060540, 100126, 230297, 320217, 330043, 360226, 390376, 430117, 440345, 480081
 reef, 320229
 Mediterranean Sea, 110817
 Ninetyeast Ridge, dolomite, 220479
 Pacific Ocean W, guyot, 200660
 pebbles, petrography, 801040
 provenance, 960545
 Rio Grande Rise N, regional setting, 250693
 sand, glauconitic, sandstone, 281151
 seamounts, ridges, volcanic origin, 330779
 synrift sediments, Barremian-Hauterivian, 801175
 coral bioherms
 deposition, carbonate, 790889
 Essaouira Basin, 790866
 Coral Sea, 290004, 290271, 290284, 290330, 291157, 291159, 291161, 291163, 291164, 291166, 300007, 300008, 300009, 300143, 300151, 300657, 300660, 300661, 300704, 361009, 38S0689, 900763, 900961, 901234, 901357
 Atlantic Ocean SW, basin, evolution, 361009
 Eocene, clay, 300419
 lithologies, minor, chalk, siliceous, 901482
 lithology, 290377
 breaks in sedimentary sequence, 300142
 Lord Howe Rise, pale green laminae, 901157
 mineralogy, 210723
 Pacific Ocean SW

- Pacific Ocean SW (Cont.)
 Cenozoic, 300679, 300680
 island arcs, 300693, 300696, 300700, 300703, 300704
 Mesozoic regional evolution, 210902
 Western Marginal Basin Province, 210903
 temperature gradient, deposition, 901357
- Coral Sea Abyssal Plain, 210369, 210381, 210495, 300647, 300648, 300649, 300650, 300657, 300660, 300661, 300696
- Coral Sea Basin, 210369, 210374, 210376, 210641, 300153, 300401, 300437, 300441, 300444, 300542, 300647, 300649, 300650, 300653, 300659, 300660, 300679
 biostratigraphy, Eocene-Oligocene
 unconformity, 210705
 carbon isotope, chalk, nannofossil, 300419
 chalk, nannofossil, Eocene, 300419
 deposition, 300441
 marginal basin, 300423, 300440
 diagenesis
 carbonate, 210505
 chalk, nannofossil, 300419
 Eocene-Oligocene unconformity, 210705, 300663
 geothermal measurements, 210455
 heat flow, 901322
 Indian Ocean S, geothermal measurements, 210455
 lithology, 210374
 events, 300143
 lithostratigraphy, Eocene-Oligocene
 unconformity, 210705
 oxygen isotope, chalk, nannofossil, 300419
 Pacific Ocean SW, 210897
 Cenozoic, 300667
 island arcs, 300693, 300696, 300704, 300705
 unconformities, 210705, 210706, 280705
 Western Marginal Basin Province, 210903, 210905
 sediments
 composition, 210705
 microfossils, 210705, 210706
 nannoflora, 210705, 210706
 seismic reflection, 210479
 correlation, 210479
 volcanic components, 210488
- Coral Sea E
 geology, 300653, 300659
 Australia, 300647
 bathymetry, physiography, 300648, 300649, 300650
 structural units, 300647
 tectonic history, 300660, 300661
 trending ridge NNE-SSW, 300647
- Corbieres, 150505
- cordierite, Falkland Plateau, basement, 360910
- cordierite-biotite-feldspar
 basement, Alboran Basin W, 130753
 hornfels, 130753
 Gorringer Ridge, 130753
- Cordillera, 120958
 Atlantic Ocean SW, basin, evolution, 361004
- Cordillera Basin, 140871
- Cordillera de Talamanca, 840533, 840534
- Cordillera de Venezuela, 47B0362
- Cordillera Merida, 151096
- Cordilleras, Colombia, 670754
- Corfu, 130224, 42A0933
 Messinian environments, Lago Mare, 42A1024, 42A1026
 Neogene basin, 42A0934
- Coriolis force
 Atlantic Ocean NE, evolution, 411230
 lithology, 310320
- Mississippi Fan, transport, 960435
- Pacific Ocean EC, geologic history, 090917
- Southeast Pacific Basin, sediment
 distribution, 350205
- Cormoran I well, 790654
- Cornbrash Formation, England, deposition, 760904
- Corner Rise, 430012, 430735
- Corner Seamounts, 430847, 430851, 820495
 sedimentary evolution, 430815
 Cretaceous-Tertiary boundary, 430815
- Corniola Formation, 110810, 110819
- Cornish-Rhenish Basin, regional tectonics,
 deformation, 801154
- Cornubian Basin, 801202
 Atlantic Ocean N, Paleozoic, 801109
- Cornubian granite, Goban Spur, continental
 margin, 801126
- Cornubian Platform, 800005, 801201
 Europe NW, continental margin, 801187
 geomagnetic patterns, 801191
 Goban Spur, evolution, 801206, 801213
 regional geology, regional structure, 801189
- Cornubian Ridge, Goban Spur, continental
 margin, 801124
- Cornwall, 481015, 481028, 481042, 800823, 801111, 801126, 801155, 801161, 801169, 801200, 801201
 Biscay, Bay of N, continental margin, 481028
 coast, 800489
 continental margin, structural evolution, 481042
 Goban Spur
 evolution, 801200
 submarine extension, 801169
- Cornwall granite
 Goban Spur
 continental margin, 801126
 evolution, 801201
 regional tectonics, deformation, 801155
- Coromandel Coast, tephra, source, 901166
- Coromandel Peninsula, 300630
 Pacific Ocean SW, island arcs, 300704
- South Fiji Basin
 geology, 300626
 history, 300630
- Coronado Bank, 660422, 660423
- Coroselle section, Mesozoic
 magnetobiostratigraphy, 720945
- corrensite
 Atlantic continental margin, mineralogy, 010354
 Atlantic Ocean W, mineralogy, 040326
 basalt, petrochemistry, 630727
 Blake Basin, 760439, 760440, 760446
 Costa Rica Rift Zone, basalt, 830228
 East Pacific Rise, sediments, 650380
 Indian Ocean W, mineralogy, 42A0373, 42A0376
 Magdalena Bay, dolerite, 630727
 Mazagan Plateau, 790501
- Corsica, 130466, 130491, 130595, 42A0059, 42A0403, 42A0953, 760871, 760885, 760887, 760888, 760891, 760893, 790524
 Mediterranean Sea, evaporites, 131221
 submarine canyons, 131221
 Tethys, Mediterranean Sea, 42A0947
 western margin, 131015
- Corsica Channel, Neogene formations,
 paleogeography, 42A0917
- Corsica-Sardinia block, 130597, 130775, 130780, 131440, 42A0889, 42A0945, 42A0961, 42A1047
 continental, margin, 42A0029
 geological, geophysical setting, rifting, 42A0889
- Tethys, Mediterranean Sea, 42A0945
- Cortes Bank, 630911
 rock stratigraphy, 630907
- Coruh River, 42B0499, 42B0608
- corundum
 California, Gulf of, gulf mouth, 650401
- Caribbean Sea, sediments, 150937
- Falkland Plateau, basement, 360897
- Guatemala, trench, 670515
- Costa Rica, 150994, 151100, 160903, 660841, 670028, 670351, 670369, 670671, 670688, 670739, 670753, 670762, 670773, 670775, 670791, 680394, 840022, 840026, 840363, 840419, 840533, 840537, 840538, 840578, 840616, 840641, 840644, 840651, 840652, 840667, 840669, 840680, 840727, 840831, 840833, 840846, 840857, 840912, 840928, 840939, 840951
 basement, slope, 840842
 clay minerals, stratigraphy, 680391
 coast, 670743, 840008, 840643
 coastal current, 840534
 continental margin, 840021, 840473, 840552, 840746, 840923
 reworked sediment, 840923, 840924
 continental slope, 840551, 840842
 basement, 840842
 crust, oceanic, 840842
 discontinuity, 840842
 lithology, 840845
 slope basement wedge, 840842, 840845
 tectonics, 840845
 crust, oceanic, slope, 840842
- diagenesis
 Middle America Trench, 840571
 slope sediments, 840571, 840573, 840574, 840576, 840577, 840579, 840582, 840583, 840588, 840589
 discontinuity, slope, 840842
 forearc basin, 840735
 geochemistry, volcanism, 840617
 geologic setting, Middle America Trench, 840923
- Guatemala
 Pacific coast, 840831
 slope sediment, 840931
- igneous rocks, ophiolite, 840948
- lithology, 150412
- margin, sedimentation, 840745, 840746
- Mariana Trench, boninite, 600731
- offshore, 840035, 840339, 840574
- Pacific coast, tectonic cross-section, 840831
- Panama, 040666
 pore water pressure, 840767
 regional geology, 840832
 sandstone, source, 840931
 sedimentation, Pacific coast, 840745, 840746
 slope, 840553, 840554, 840560, 840842, 840921
 slope basement wedge, offshore, 840842, 840845
 subduction, pore pressure, 840768
 subduction zone, 840033
 Venezuelan Basin, Panama, 040666
 see also Middle America Trench
- Costa Rica Ridge, 690534, 690547, 700473
 crust, oceanic, Mid-Atlantic Ridge, 830458
 Mid-Atlantic Ridge, crust, oceanic, 830458
- Costa Rica Rift, 540234, 540594, 540705, 540737, 540844, 540845, 600325, 600890, 690007, 690008, 690012, 690034, 690062, 690063, 690175, 690217, 690220, 690223, 690251, 690271, 690274, 690301, 690311, 690321, 690343, 690355, 690361, 690373, 690385, 690390, 690421, 690431, 690443, 690447, 690485, 690537, 690573, 690578,

- 690579, 690580, 690611, 690619, 690647, 690651, 690659, 690702, 690734, 690742, 690743, 690748, 690761, 690765, 690772, 690779, 690781, 690793, 690796, 690800, 690801, 690805, 690807, 690808, 690811, 690812, 690816, 690820, 690821, 690844, 690847, 690848, 690849, 690850, 690851, 690852, 690853, 690854, 690855, 690856, 700012, 700282, 700329, 700330, 700421, 700437, 700439, 700459, 780378, 780398, 780695, 780699, 780707, 780709, 780717, 780737, 780831, 780832, 780839, 780843, 810789, 810790, 830013, 830379, 830479, 830517, 830518, 830524, 870740, 890569, 910484, 920052, 920191, 920206, 920524, 920563
- aegirine-augite, 690593
- age-depth plot, 690437
- alkali, Sr isotope, 690487, 690488, 690489, 690490, 690491, 690492
- alteration, 690565, 690570
- basalt, 690497, 690565, 830331
- crust, oceanic, 830217, 830297, 830443
- Layer, 2, 690509
- mineral, 690551
- mineral composition, 690566, 690567, 690568, 690569
- near-vein zonation characteristics, 690565
- alteration, hydrothermal, anhydrite, 830283
- alteration minerals, chemistry, 690551, 690552, 690555, 690556, 690557, 690558, 690560
- alteration, thermal, 690446
- anhydrite, 690547
- basalt, hydrothermally altered, 830283
- origin, 690547
- ash, rhyolitic, 690451
- basalt, 690675, 690683, 690687, 690697, 690729
- age, 830276
- alteration, 690497, 690498, 690500, 690501, 690502, 690509, 690511, 690512, 690514, 690515, 690516, 690517, 690518, 690520, 690522, 690524, 690525, 690526, 690527, 690528, 690529, 690532, 690534, 830276, 830331
- basement, 690475, 690477, 690478, 690479, 690480, 690481, 690482, 690487, 830315
- density, 830367
- Galapagos Fracture Zone, 700437
- geochemistry, 690291, 690791, 830201
- hot water chemistry, 830315
- hydrogen isotope, 690637, 830289
- hydrothermal alteration, 830283
- K-feldspar, secondary, 690589
- K/Ar age, 830305
- lead isotope, 690643
- magnetic properties, 690705, 690711, 690721, 830331, 830347
- major element, 690775
- mechanical properties, 830371
- melting, multistage, 690729
- mineral, primary, 830289
- mineral, secondary, 690573, 690574, 690576, 690578, 690579, 830289
- oceanic, 690589
- oxygen isotope, 690637, 830289
- petrology, 830129
- physical properties, 690675, 690687
- seismic studies, 690683
- seismic velocities, 830367
- Sr isotope, 690643, 830289
- standards, 690861
- sulfide, 690607
- sulfur, 690629
- sulfur isotope, 690629
- trace elements, 690747, 690775
- basalt, hydrothermally altered
- anhydrite, 830249, 830283
- geochemistry, 830249
- basalt, oceanic, K-feldspar, 690589
- basement
- basalt, 690487
- dike, sheeted, 830162
- formation, 830129
- geochemistry, 830183
- lithostratigraphy, 830121
- mantle, 830129
- paleomagnetism, 690697
- topography, 830522
- basement, basalt
- hot water, 830315
- water geochemistry, 690475, 690487
- bathymetry, 830382
- biostratigraphy, 690311
- bioturbation effects, 690437
- bioturbation, intense, 690449
- bulk porosity, 830419
- burrows, 690449
- California, Gulf of, hydrocarbon, 690449
- carbon, 690449
- carbon isotope, 690439, 690440
- Pleistocene base, 690439
- carbon, organic, 690443, 690449
- carbonate
- elemental composition, 690461
- isotopic composition, 690461, 690462, 690463, 690465, 690466, 690468, 690470
- Sr isotope, 830297
- chalk
- geochemistry, 690395
- petrology, 690395
- silicification, 690395, 690396, 690397, 690398, 690399, 690402, 690403, 690404, 690405, 690406, 690407
- chalk, siliceous, Miocene, 690395
- chemical evolution, 830347
- chromium, spinel, 690805
- Colon Ridge, interstitial water, 680472
- convection, 690245, 690246, 690247, 690249
- formation pressure, 690250
- convection, chemical, 680472
- crust, alteration, 920563
- diagenesis, 690343
- different geothermal regimes, effects, 690443
- dike, chilled margins, 830165
- downhole flow, 830410, 830415
- elastic wave velocity
- basement, 920569
- crust, 920563
- electrical resistivity, 830359
- evolution, tectonic, 830347
- formation water, origin, 690492
- fracture, distribution, 690255
- Galapagos Fracture Zone, basalt, 700437
- gas, inert, 690651
- abundance, 830305
- geophysical data, 830379
- geophysical logging, 690281, 690282, 690290, 830444, 830530
- geothermal characteristics, 830397
- geothermal measurements, 690444, 830405
- geothermal phenomena, 690005
- glaciation, onset, 690440
- gravity, 830396
- Guaymas Basin, sediments, 690446
- heat flow, 690031, 830379, 830384, 830388, 830405, 830410
- high surface productivity, 690431
- hydrocarbon
- geothermal production, 690443
- migration, 690449
- temperature, 690443
- hydrocarbon, cracked, 690446
- hydrothermal activity, heat sources, 830275, 830277
- hydrothermal alteration
- basalt, 830249
- crust, oceanic, 830297
- hydrothermal circulation, 690448
- hydrothermal mounds, 700282
- hydrothermal sulfide, sulfur isotope, 690619
- intrusion, magmatic, 690446
- isotopic stages, 690437
- K/Ar age, basalt, 830305
- kerogen, 690449
- Layer 2
- basalt, 690585
- velocity structure, 830529
- Layer 2C, seismic velocity, 830367
- lead isotope, 700329
- lithology, 690343
- lithostratigraphy, 830443
- magma chamber, steady-state, 690811
- magmatism, 830276
- magnetic anomaly, 830381
- magnetic properties, 690705, 830339
- maximum temperatures, 690443
- melanite, 690593
- melting, multistage, basalt, 690729
- mineralogy, 690385
- Nankai Trough, heat flow, 870740
- oblique seismic experiment, 690301, 830517, 830852
- organic matter, 690443, 690446
- oxidation, 690449
- oxygen isotope, 690423, 690439
- bioturbation, 690437
- dissolution, 690437
- glacial extremes, 690437
- Pleistocene, 690431
- silica, 690423
- Pacific Ocean E
- crust, 540602
- ferrobasalt, 540844
- Padre Island, sediments, 690446
- petroleum
- hydrocarbon, 690443
- source rock, 690444
- petrology, 830339
- physical properties, 690659
- pillow margins, petrography, 830165
- plate stresses, 830513
- Pliocene record
- alteration, diagenetic, 690439
- Cape Bojador, 690439
- Gauss Chron, 690439
- glacial-interglacial cycle, 690439
- Panama Basin, 690439
- pore water, 690485
- elemental composition, 690461
- stable isotope, 690461
- potassium, 830305
- remanence, tectonic and chemical evolution, 830347
- reworking, biologic, 690449
- ridge push, 830513
- saponite, 690585
- sediment accumulation rate, 690437
- sediment composition, 690343
- sedimentation rate, 690431
- seismic velocity, fracture and void distribution, 690255, 690256, 690258, 690260, 690261
- seismicity, 830396
- silica, secondary, oxygen isotope, 690423
- siliceous rocks

- siliceous rocks (Cont.)
 cementation, 690423
 chemical composition, 690423
 continental margin comparison, 690426, 690427
 formation temperature, 690423, 690424, 690425, 690426, 690428
 limestone, 690423
 mineralogy, 690423
 Monterey Formation, 690424, 690428
 silicoflagellates, Cenozoic, 690321
 sonic velocity, 830359
 spreading center, magmatic activity, 830275, 830277
 spreading rate, 830381
 Sr isotope, 830297
 alkali, 690487
 stable isotope, Pleistocene, 690431
 stress orientation, 830511
 strontium isotope, sediment, 700330
 sulfide, mineralization, 830276, 830277
 sulfide, hydrothermal, sulfur isotope, 690619
 synthetic seismogram, physical properties, 920571
 tectonic rotation, 690702
 tectonic setting, 690220
 temperature, 830276, 830406, 830408, 830410, 830414, 830430, 830440
 temperature change, 690431
 temperature gradient, 830384
 thermal conductivity, 830384
 topography, 830382
 trace elements, basalt, 810788
 uranium, waters, 690485
 variation range, 690437
 void distribution, 690255
see also crust; crust, oceanic; stockwork-like zone
 Costa Rica Rift Zone, 830249, 830264, 830283, 830285, 830311
 alteration
 alteration, low-temperature, 830264
 relationships, 830239, 830240
 alteration, high-temperature, spreading axis, 830238, 830239
 alteration, low-temperature, 830239
 basalt
 actinolite, 830145, 830147, 830150, 830166
 age, 830289
 Al, 830147, 830151, 830157, 830162, 830202, 830250
 Al₂O₃, 830155, 830203
 albite, 830145, 830147, 830150, 830151, 830166
 alteration, 830144, 830150, 830151, 830153, 830155, 830161, 830162, 830165, 830166, 830217, 830219, 830220, 830221, 830222, 830223, 830224, 830225, 830226, 830228, 830230, 830232, 830233, 830234, 830235, 830236, 830237, 830238, 830239, 830240, 830249, 830250, 830252, 830253, 830254, 830257, 830258, 830259, 830260, 830261, 830262, 830283, 830284, 830285, 830286, 830307, 830308, 830309, 830310, 830311
 alteration, hydrothermal, 830283
 alteration, low-temperature, 830293
 amphiboles, 830147
 anhydrite, 830145
 anorthite, 830162
 Atlantic Ocean N, 830207
 augite, 830166
 calcite, 830145
 calcium, 830147, 830150, 830151, 830162, 830202, 830250
 CaO, 830153, 830155, 830203
 Ce, 830155
 chemical characteristics, 830249
 chemical composition, 830264
 chemical groups, 830161
 chlorite, 830147, 830150, 830151, 830166
 chondrites, 830207
 chrome spinel, 830155, 830166
 clinopyroxene, 830147, 830153, 830155, 830157, 830162, 830165, 830166, 830204, 830206, 830207, 830212
 CO₂, 830249
 Co, 830201, 830205, 830206
 color, 830250, 830283
 compatible elements, 830153, 830155, 830205, 830212
 Cr, 830153, 830155, 830162, 830201, 830205, 830206, 830212
 crystal fractionation, 830155
 crystallization, 830204
 crystallization, fractional, 830161, 830201, 830202
 dike, 830160, 830165, 830166, 830171, 830172, 830173, 830175, 830201, 830212
 dike, sheeted, 830151
 element remobilization, 830162
 emplacement, 830150
 epidote, 830145
 epistilbite, 830145, 830147
 Eu, 830201, 830209, 830210, 830212
 Fe, 830147, 830249
 Fe₂O₃, 830155, 830161
 feldspar, 830145, 830155
 FeO/MgO ratio, 830202
 FeTi-oxide, 830147
 flows, 830151, 830155
 follows greenschist-facies formation, 830258
 fractionation, 830206, 830207, 830208, 830209, 830210, 830211, 830212
 gas, inert, 830308, 830309, 830310, 830311
 geochemistry, 830165, 830201
 glass, 830145
 greenschist, 830250
 groundmass textures, 830166
 H isotope, 830289
 Hf, 830153, 830201, 830207
 high-temperature phases, 830145
 huminite-vitrinite, 830153, 830155, 830161
 hydration, 830249
 hygromagmaphile element, 830207, 830212
 ilmenite, 830150
 incompatible elements, 830155, 830161, 830162, 830207, 830212
 interaction with seawater, 830161
 intrusion, 830151, 830155, 830160
 K, 830249, 830307
 K₂O, 830150, 830155, 830161, 830264, 830307
 lanthanum, 830155, 830161, 830201, 830207, 830209
 laumontite, 830145, 830147, 830166
 LIL element, 830264
 liquidus temperature, 830153
 low-temperature phases, 830145
 LREE, 830153
 Lu, 830201
 magma, 830143, 830153, 830155, 830160, 830161, 830203, 830206, 830207, 830212
 magmatic evolution, 830140, 830143, 830162
 magmatophile elements, 830153, 830155, 830157, 830161
 magnesium, 830147, 830162, 830201, 830211, 830212, 830250
 magnetite, 830147, 830150, 830151
 major element, 830155, 830201
 major oxides, 830201
 manganese, 830155, 830294
 mantle, 830161, 830162, 830202, 830208, 830212
 massive units, 830151
 melting, 830161, 830202, 830210
 Mg/Fe ratio, 830162
 MgO, 830153, 830155, 830161, 830165, 830211, 830264
 midocean ridge, 830140, 830161, 830165
 mineral chemistry, 830131, 830140, 830141, 830142, 830143, 830155, 830157, 830161, 830162
 mineral, secondary, 830145
 mixing effects, 830155
 MnO, 830150, 830155
 Na₂O, 830153
 Na-Mg, 830157
 Nb/Ta ratio, 830207
 nickel, 830147, 830153, 830155, 830162, 830201, 830205, 830212
 niobium, 830153, 830155, 830161, 830201, 830207, 830209, 830210, 830212
¹⁶O/¹⁸O isotope ratio, 830289, 830292, 830293, 830294
 olivine, 830145, 830147, 830153, 830160, 830165, 830166, 830202, 830204, 830205, 830207, 830212
 oxidation halos, 830249
 oxygen, 830150
 P₂O₅, 830155, 830201, 830212, 830264
 peridotite, 830202, 830210
 petrographic groups, 830131
 phenocryst, 830155, 830160, 830161
 phosphorus, 830155
 phyllosilicate, 830145, 830147
 pillow lavas, 830151, 830155, 830201, 830212
 pillow margins, 830165, 830166, 830167, 830171, 860167, 860168
 pillow textures, 830166
 plagioclase, 830147, 830150, 830151, 830153, 830160, 830162, 830165, 830166, 830202, 830204, 830205, 830207, 830209, 830212
 porphyry, 830165
 prehnite, 830145
 primary phase replacement, incomplete, 830250
 pseudomorphs, 830145, 830147, 830150
 pyrite, 830145
 pyroxene, 830202, 830206
 quartz, 830145, 830147
 rare earth elements, 830165, 830201, 830208, 830209, 830210, 830211, 830212
 Rb, 830150, 830201, 830289
 recovery, 830261
 recrystallization, 830250
 refractory element enrichment, 830157
 replacement of primary phases, 830145
 S, 830249
 Sc, 830201, 830205, 830206
 scolecite, 830145
 seawater, oxygenated, 830249
 seawater-rock interaction, 830289, 830291
 Si, 830147
 Si/Al ratio, 830145
 silica, 830150
 SiO₂, 830155, 830201
 Sm, 830155
 smectite, 830145, 830147, 830150, 830151, 830165
 smectite-chlorite, 830250
 sphene, 830151
 spinel, 830157, 830160, 830202, 830212
 Sr, 830150, 830153, 830155, 830161,

Sr, (Cont.)

basalt, 830201, 830294
 Sr isotope ratio, 830289
 stockwork-like zone, 830291
 sulfide, 830147
 Ta, 830201, 830209, 830210, 830211, 830212
 talc, 830145, 830147, 830151, 830165
 Tb, 830201, 830207
 Tc, 830207
 texture, 830150
 Th, 830201, 830209, 830210, 830211, 830212
 Th/Hf ratio, 830208
 tholeiite, oceanic, 830205
 tholeiite, olivine, 830201
 Ti, 830155, 830157, 830161, 830162,
 830165, 830205, 830206
 TiO₂, 830153, 830155, 830161, 830201,
 830202, 830203, 830206, 830212, 830264
 titanomagnetite, 830150
 trace elements, 830155, 830161, 830201,
 830205, 830212
 trace elements, incompatible, 830165
 transition metals, 830207
 V, 830129, 830145, 830147, 830151,
 830153, 830155, 830162, 830165, 830201,
 830205, 830206, 830212, 830250, 830257
 variation with depth, 830258, 830259,
 830291, 830293
 wall rock, 830155, 830160, 830257
 xenocryst, 830160
 xenolith, 830160, 830162
 Y, 830153, 830155, 830161, 830201, 830207
 Yb, 830212
 zeolite, 830250
 zeolite mineral, 830145, 830147
 Zn, 830155
 Zr, 830201, 830207
 Zr/Hf ratio, 830207
 basalt-seawater interaction, ridge crest,
 830294
 basement
 geochemistry, 830183
 sediment interface, 830264
 carbonate, 830297
 Sr isotope ratio, 830300, 830301
 chemical fluxes, basalt, 830259, 830260,
 830261
 circulation, cessation, 830289
 clay minerals, distribution, 830238
 composition, 830235
 density gradient, stockwork, 830265
 deposition, vein mineral, 830201, 830297
 dike, sheeted, 830249
 electrical resistivity gradient, stockwork
 zone, 830265
 feldspar, 830221
 fracture, sealed, reopening, 830238, 830239
 greenschist, paragenesis, 830265
 heat flow, 830249, 830264, 830283, 830302
 hydrothermal alteration
 crust, oceanic, 830201, 830202, 830297
 solutions, 830301
 hydrothermal fluid, 830234, 830236, 830238
 low-temperature vents, 830238
 hydrothermal mineralization, 830275
 hydrothermal recharge area, 830285
 hydrothermal system, 830237
 evolution, 830293, 830294
 hydrous minerals, temperature of formation,
 830293
 layers penetrated, 830249
 lithostratigraphy, 830217, 830264
 magma, formation temperature, 830292
 major element, uniformity, 830308
 massive units, 830121, 830124, 830125,
 830126

mineral, primary
 preservation, 830289
 primary isotopic composition, 830289
 mineral, secondary
 deposition, 830283
 distribution, 830264
 formation, 830289, 830293
 stockwork zone, 830265
 petrology, 830217
 pillow layer thickness, 830249
 porosity, stockwork-like zone, 830265
 sediment age, 830264
 sediment cover, 830264
 sedimentation rate, 830260, 830297
 seismic velocity, stockwork zone, 830265
 spinel, 830160
 spreading center, magmatic activity, 830238
 spreading rate, ridge, 830297
 thermal gradient, 830289
 transition zone, 830249
 water/rock ratio, 830289, 830291, 830292,
 830293
 zeolite, paragenesis, 830265
see also crust; stockwork-like zone
 COT
 gravity anomaly, modeling, 801145
 magnetic models, positive anomaly, 801142
 Cote d'Azur, 130091, 131015
 Cotentin, Start Point, basement, 481015
 Coulman Island, 280890, 280896
 CPI
 alcohol, acyclic components, 660561
 alcohols, results, acyclic components,
 660562
 Angola Basin, Cretaceous, 751014, 751016
 Hess Rise, Albian sediment, 620939
 hydrocarbon, 220675
 hydrocarbon, aliphatic, acyclic components,
 660557
 hydrocarbon, extractable, organic
 petrology, 580759
 kerogen, 220675
 ketone, acyclic components, 660560
 limestone, Albian, 620923, 620924, 620925,
 620927, 620930
 lipid
 fatty acid, bound, 571381
 fatty acid, free, 571381
 geochemistry, 610627
 hydrocarbon, acyclic, 630763
 indication, 630768
 organic geochemistry, 640827
 Baja California, 640941
 Guaymas Basin, 640944, 640948, 640949
 organic matter, 500606
 petroleum, source bed, 240792
 Walvis Ridge, sediments, 751080
see also carbon preference index
 Cr
 abyssal plain, cyclic sedimentation, 801078
 alteration minerals, trace elements, 920496
 basalt
 Costa Rica Rift Zone, 830140, 830141,
 830143, 830153, 830155, 830157, 830162,
 830201, 830205, 830206, 830212
 Melanesian Basin, 610689, 610690, 610691,
 610705, 610706, 610707
 Mid-Atlantic Ridge, 820422, 820423,
 820424, 820425, 820426, 820428, 820429,
 820442, 820445, 820446
 midocean ridge, 820396, 820397, 820399,
 820404, 820408, 820409, 820410, 820411,
 820412, 820413, 820414, 820415, 820449,
 820450, 820454
 sill-pillow complex, 610675
 basalt, phyr, phenocryst composition,

830140
 basalt, phyr, phenocryst composition,
 830138
 bastite, 820524
 Brazil Basin, geochemistry, 720421, 720422
 Cocos Plate
 basalt, 660704
 geochemistry, 660684
 continental margin, inorganic geochemistry,
 801073
 crust, oceanic, Costa Rica Rift Zone,
 830185, 830187, 830197
 geochemical component grouping, 801077
 geochemistry, 660684, 720429
 Fe, 720430
 Ti, 720430
 hygromagmaphile element, 820467
 inorganic geochemistry, 801079
 mineral, chemical composition, 660713
 mineralogy, spinel, 660731
 Rio Grande Rise, sediment, 720425
 spinel, 820525, 820526
 trace elements, 660732
 Cretaceous/Tertiary boundary, 720403
 Goban Spur, 800943, 800944
see also chromium
 Cr ratio, basalt, Costa Rica Rift Zone, 830160
 Cr-Al spinel
 basalt, glass, 510974
 magma, evolution, 540645
 phenocryst
 OCP Ridge, 540656
 water influence, phenocryst compositions,
 540658
 Cr-diopside
 basalt, chemistry, 450452
 Melanesian Basin, ash, 610634
 Cr-spinel
 basalt
 mineral chemistry, 550608
 minor element, 490681
 Bermuda Rise, crystallization, 511040
 igneous rocks, geochemistry, 370660
 Melanesian Basin, ash, 610635, 610637,
 610639
 Cr/Al ratio, igneous rocks, 840948
 Cr/Cr + Al ratio, 450464, 550633
 basalt
 Costa Rica Rift Zone, 830155, 830160
 geochemistry, 590767
 petrology, 450469
 Melanesian Basin, ash, 610639
 mineral, chemical composition, 660713
 mineral chemistry, 450469
 mineralogy, 800940
 spinel, 800940
 orthopyroxene, 820525
 spinel, 830160
 Cr/(Cr + Ni) ratio, igneous rocks,
 geochemistry, 370672, 370675
 Cr/Mg ratio, igneous rocks, geochemistry,
 370675
 Cr/Ni ratio
 chemical composition, trace elements, 600461
 igneous rocks, geochemistry, 370656
 Cr/V ratio, chemical composition, trace
 elements, 600461
 Craie de Gulp, Mesozoic
 magnetobiostratigraphy, 720941
 Crater Lake, mudstone, petrology, 180909
 creep, 180413, 500045
 Central America, western continental slope,
 840935
 continental margin, structural evolution,
 481051
 Costa Rica, continental margin, 840923

- Guatemala, upper slope, 840928
lithology, 180413, 190330, 500044, 500045
deposition, 47A0034
Middle America Trench, Costa Rica, 840551, 840554, 840558
sediment, Oligocene-Quaternary, 840947
sedimentary processes, 840558, 840560
sedimentary structure, 840950
turbidites, deposition, 250453
crenulation
Japan Trench, structural feature, 870809
Nankai Trough, kinks, 870806
Crescent Karmutsen formations, Atlantic Ocean S, history, 740727
Cretaceous, Lower/Upper boundary, Angola Basin, 751217
Cretaceous normal magnetic polarity interval
magnetic models, crust, oceanic, 801141
regional tectonics, swell push forces, 720961
Rio Grande Rise
basement, volcanic, 720955
subsidence, 720974
Cretaceous Quiet Interval, 430866
Angola Basin, 751214, 751217
Atlantic Ocean NW, sea floor spreading, 430866
Iberian margin W, evolution, 47B0764, 47B0766
Rio Grande Rise, regional setting, 390957
Cretaceous Quiet Zone
Goban Spur, continental margin, 801132
postrift sediments
Albian, 801175
Santonian-Coniacian, 801176
synrift sediments, Barremian-Hauterivian, 801173
Cretaceous-Tertiary boundary
sedimentary evolution
Corner Seamounts, 430815
Cretaceous extinctions, 430814, 430815
Cretaceous/Tertiary boundary, 720949, 730633, 730657, 730755, 730759, 730760, 860441, 860448, 860533, 860671
accumulation rate, Cretaceous to Eocene, 740624
aluminum, 860537
Angola Basin, 751212, 751213
biostratigraphy, 750453, 750454
geologic evolution, 750524, 750526, 750527
asteroid theory, 720949
Atlantic Ocean E, basin, 361005
Atlantic Ocean NW, sedimentary evolution, 430812, 430813, 430814, 430815
Atlantic Ocean S, 730755
Cretaceous, 720981, 720982
hiatuses, 391103
magnetic anomaly, 391115
magnetostratigraphy, 730657
Malvinas Outer Basin, 391112
Sierra Leone Rise, 391122
Atlantic Ocean SW, 720949
basin, evolution, 361006
atmospheric effects, 730758
defoliation, 730759
extinction, mass, 730759
pollination, 730759
biogenic sediment, diagenesis, 300456, 300460
biostratigraphy and magnetostratigraphy, 730653
biotic extinctions, 860513
bioturbation, 730657
calcium carbonate, deposition, 860534, 860538
Cape Basin
carbon isotope, 730760
climate change, 730761
ground disturbance after impact, 730758
impact ejecta fallout, 730758
reduced fertility, 730760
temperature effects, 730758, 730759
terminal impact sites, 730755
Caravaca, Spain, clay, 730758
carbon isotope, 860524, 860525
¹³C, 720414, 720415
¹⁸O, 720412
Paleocene temperatures, 430710
carbonate, 720921
accumulation rate, 860522
Pacific Ocean NW, 860513
cerium, 860537
chondritic components, 860537
chondritic values, 860537, 860538
chromium, 860537
climate change, 730761
global cooling, 730761
Cobalt, 860537
Contessa, Italy, 720951
cyanide, 730759
dating, 220381, 220383
dissolution, sea floor, 730761
ejecta dust cloud, 730759
global blackout, 730760
environmental changes, 720951
extinctions, 860508, 860513, 860524, 860526, 860533
faunal successions, geochemical evidence, 860671
foraminifer/nannofossil ratios, 860526
geochemistry, 620851, 720949, 860513, 931057
Hess Rise, 620851
geophysical data, 840942
Goban Spur, evolution, 801208
green spherules, 931039
ground disturbances, 730758
Gubbio, 720951
heavy metals, 730759
Hess Rise
iridium, 620847, 620849
mineralogy, 620851, 620852
hiatuses, 621105
impact ejecta fallout, 730758
extraterrestrial components, 730758
iridium, 730758
sanidine, 730758
inclinations, 730658
Indian Ocean E, lithology, 271002
iridium, 720931, 720949, 720951
anomaly, 860513, 860524, 860533
distribution, 620847
Hess Rise, 620847
Pacific Ocean NW, 860533
iron, 860537
isotope records, 720921
large-body impact, 730755, 730756
lipid, 931211
geochemistry, 860671, 931211
lithology, 100198, 150368, 210279, 400198, 400203, 430112, 430115, 430118, 430131, 440078, 720949
accumulation rate, 400389
benthic foraminifers, 720950, 720951
Bottaccione, 721022
calcareous nannoplankton zonation, 720950
Cenozoic, 500073
clay, 720950
planktonic foraminifers, 720950
sandstone, 400072
shale, 400072
stratigraphy, 410042, 440105
magnesium, 860517
magnetostratigraphy, 730615, 730657
Atlantic Ocean S, 730657
magnetostratigraphy and biostratigraphy, 730653
manganese, 860517
mass extinctions, geochemical evidence, 860671
Mexico, Gulf of, regional aspects, 010634
Mid-Labrador Sea Ridge, 121186
nannofossil zones, 860515, 860520, 860522, 860526
natural remanent magnetization, 730657
New Jersey Transect, 950805
nickel, 860537
oxygen isotope
¹³C, 720414, 720415
¹⁸O, 720412
Paleocene temperatures, 430710
Pacific Ocean NW, 860671, 860799
carbonate, 860513
faunal successions, geochemical evidence, 860671
iridium, 860533
lipid, 860671
mass extinctions, geochemical evidence, 860671
paleoenvironmental history
Atlantic Ocean, 740691
basalt, 740685, 740687, 740688, 740691
calcium, 740687
Campanian-Maestrichtian, 740688
CCD, 740687
chalk, 740685
chert, 740685
chlorite, 740687, 740691
circulation, 740691
clay, 740687, 740691
clay mineralogy, 740685
clay minerals, 740687
claystone, 740685
clinoptilolite, 740687
continental planation, 740691
feldspar, 740687
goethite, 740687
illite, 740687, 740691
iron, 740687
iron oxide, 740687
kaolinite, 740687, 740691
limestone, 740685
Maestrichtian, 740688, 740689
Maestrichtian/Paleocene boundary, 740689, 740690
manganese, 740687
mudstone, 740685
opal-CT, 740687
oxidized bottom conditions, 740687
Paleocene, 740690, 740691
palygorskite, 740687, 740691
quartz, 740687
sea level, 740691
sepiolite, 740687
smectite, 740687, 740691
smectite, Fe-Al, 740691
smectite, volcanogenic, 740691
strontium, 740687
subsidence, 740687, 740691
tectonic quiescence, 740692
terrigenous influence, 740687
transgression environment, 740692
volcanic influence, 740691
volcaniclastic debris, 740685
Walvis Ridge, 740692
water mass exchange, 740691
Paleogene magnetobiostratigraphy, 720941
Cretaceous globotruncanoids, extinction, 720941

- Paleogene magnetobiostratigraphy (Cont.)
 Magnetic Anomaly, 29, 720941
Micula mura zone, top, 720941
 Stevns Klint, 720941
 paleomagnetism, 720949
 paleontology, 720949
 Pendragon Escarpment, unconformities, 801172
 petrology, 740658
 planktonic foraminifers
 carbon isotope, 860515, 860524
 nannofossil ratio, 860526
 polarity zones, 730657
 Porcupine Plain, unconformities, 801173
 possible large-body impact, 730755
 Soviet Union S, 730756
 pressure effects, 730758
 radiometric age, 730623
 rare earth elements, 860537
 reduced ocean fertility, 730760
 Rio Grande Rise, 720949
 boundary placement, foraminiferal
 assemblages, 721014
 iridium, 721014
 lithology, 721014
 sedimentary cycles, 740658
 sedimentary evolution, unconformities,
 430812
 sedimentation rate, 730658, 860522, 860537
 sedimentology, 720949
 Shatskiy Rise, 860448, 860503, 860799
 siderophile elements, 860537
 species extinctions, 430812
 spherules, green, 931039
 stable isotopes, 860513
 stratigraphy and evolution, Goban Spur,
 801182
 strontium, 860517, 860520
 supernova, 720949
 tantalum, 860537
 tectonic, Cretaceous extinction, 430814,
 430815
 temperature effects, 730758
 thermohaline flow, Quaternary, 720990
 trace elements, 860513, 860517
 CaCO₃, 720402
 clay, 720403
 Cretaceous-Tertiary transition zone,
 maximum values, 720403
 Gubbio, 720402
 oceanic paleoenvironment variations,
 720402
 upper continental slope, unconformities,
 801172
 Walvis Ridge, 740685
 biostratigraphy, 750453, 750454
 history, 740888
 transect, 740658
 water temperature, 860522, 860524, 860526
 Cretaceous/Tertiary boundary
 Hess Rise, post-Jurassic sedimentation,
 620831
 lithology, 120778
 reflection horizon, 120778
 Cretan Basin, 42A0004, 42A0321
 evaporites, Messinian, 42A0603, 42A0605
 lithostratigraphy, Mediterranean Sea,
 42A1139
 Messinian environments
 Lago Mare, 42A1025
 salinity crisis, 42A1027
 Crete, 130231, 130273, 130323, 130971,
 131029, 131063, 131117, 131203, 131209,
 131212, 131217, 131220, 131221, 131412,
 42A0441
 ebridians, Pleistocene, 42A0805
 ebridians, Pliocene, 42A0805
 environment, clay minerals, 42A0461
 Ethia, Crete, 131117
 Neogene formations, paleogeography, 42A0918
 sapropel, sedimentology, 42A0461
 silicoflagellates, Pleistocene, 42A0805
 silicoflagellates, Pliocene, 42A0805
 Crimea, 42B1043, 42B1077, 42B1079, 480446,
 110613, 200107, 260625, 260626, 270674,
 410590, 42B0359, 42B0360, 42B0373,
 42B0417
 Black Sea, evolution, 42B1141, 42B1147
 Paratethys, paleogeography, 42A0985
 slope, 42B0475, 42B1158
 Tethys, Mediterranean Sea, 42A0944, 42A0945
 Cristobal, Panama, 150495, 300649, 540008,
 540092
 cristobalite, 020418, 200338, 200343, 510735
 Africa NW, continental margin, 411126
 Alboran Basin W, mineralogy, 130607, 130667
 alteration, 300485
 sandstone, volcanic, 300485
 Angola Basin, clay mineralogy, 750847
 Arabian Sea, sediment history, 230514,
 230517
 Argentine Basin, mineralogy, 361019,
 361020, 361022, 361023, 361026, 361027
 Atlantic continental margin, mineralogy,
 010354, 070913, 080903, 090743, 090752,
 100073, 100337, 100729, 100754, 110754,
 110755, 110772, 110773, 110784, 110786,
 121132, 121136
 Atlantic Ocean
 geochemistry, 47B0432, 47B0434, 47B0437
 mineralogy, 47B0432, 47B0434, 47B0437
 Atlantic Ocean N
 clay, 481094, 481095
 mineralogy, 020329, 020330, 431025
 Atlantic Ocean NW, sedimentary evolution,
 430811
 Atlantic Ocean S, mineralogy, 030509,
 030510, 040325, 040326
 Atlantic Ocean SE, paleoenvironmental
 evolution, 740666
 Atlantic Ocean W, mineralogy, 040325, 040326
 basalt, 020418
 Bermuda Rise, geochemistry, 511519
 biogenic sediment, diagenesis, 300455,
 300456, 300459
 Brazil Basin, geochemistry, 720424
 burrow mottling, silt, 291054, 291055
 Cape Basin, Cretaceous to Pliocene, 400493
 carbonate, sediments, 320893
 Caribbean Sea, sediments, 150932
 Cenozoic sedimentation
 Bering Sea, 190893
 Pacific Ocean N, 190893
 chert, 020418, 280751, 320430
 Albian-Cenomanian, 010584
 diagenesis, 170382, 170383, 280752
 formation, 330858
 geochemistry, 620713
 Pacific Ocean E, 160611, 160612
 Pacific Ocean W, 070994, 071004
 petrology, 620713
 clay
 silicification, 291054
 skeleton condition, 291055
 trace elements, 170511, 170513
 clay minerals, 500715, 500716
 Cretaceous and Cenozoic, 480711
 mineralogy, 140731
 Pacific Ocean NW, 200339, 200343
 silt, 680388
 stratigraphy, 720387
 clay, red, 020418
 clay, siliceous, 271004
 diagenesis, 271005
 clay, terrigenous, 291148
 on-land equivalents, 291062
 clay, zeolitic, Miocene, 020418
 claystone, siliceous, 271004
 diagenesis, 271005
 crystallinity, 200343
 deposition
 chalk, nannofossil, 250497
 ooze, nannofossil, 250497
 diagenesis
 carbonate, 210504
 Mesozoic, 271013, 271014
 slope sediments, 840583
 dolomite, 020419
 FAMOUS area, mineralogy, 370900
 geochemistry, Cretaceous and Cenozoic
 sediments, 480716
 Guatemala, trench, 670515, 670520, 670523
 hematite, 020418
 Hess Rise N, sedimentary sequences, 620760,
 620766
 hydrothermal reactions, 020418
 Indian Ocean E
 abyssal plain sediment, 271007, 271008
 lithology, 271010, 271013, 271015
 Indian Ocean W
 interstitial water, 250370
 mineralogy, 060756, 060759, 140678,
 140679, 150847, 150848, 150849, 150850,
 160529, 160530, 160531, 170517, 181016,
 181017, 250846, 250847, 250848, 370896
 regional aspects, 250758
 interstitial water, interstitial water
 chemistry, 350420
 limestone-chert sequence, Pacific Ocean,
 080820
 lithology, 060044, 060174, 060248, 060350,
 070029, 070328, 070478, 070611, 070612,
 070825, 150022, 160156, 160370, 210109,
 210201, 210202, 210336, 210337, 210375,
 230040, 230121, 230297, 230387, 250196,
 250266, 250294, 260284, 260299, 260331,
 260364, 270018, 270019, 280216, 280222,
 290022, 290048, 290230, 310052, 310443,
 320083, 320164, 330030, 330045, 330112,
 330169, 350068, 360033, 430163, 430208,
 430210, 430211, 430333, 510047, 510361
 ash, 260161
 chalk, clay nannofossil, 300141
 chert, 170238
 clay, zeolitic, 170020
 Cretaceous, 110225
 Eocene, 110013
 isotropic, 160157
 Line Islands, 080289
 Neocomian-Tithonian, 110057
 Pliocene to Eocene, 110318
 zeolite, radiolarian nannofossil, 170238
 Lord Howe Rise, rhyolite, 210535
 Madagascar Plateau, volcanic sediment,
 250524
 manganese-dioxide concretion, 020418
 Mariana Trench, petrography, 600720
 matrix, 170383
 Mediterranean Sea, mineralogy, 130607
 Mid-Pacific Mountains W, Aptian sediments,
 620908
 mineral, secondary, 210535
 mineralogy, 210725, 210726, 210727, 330541,
 330542, 330543
 Cretaceous and Cenozoic sediments, 480716
 mineral, secondary, 600718
 primary textures, 600710
 Mozambique Ridge, volcanic sediment, 250529
 Natal Basin, volcanic sediment, 250526

- Ninetyeast Ridge, dolomite, 220482
organic geochemistry, marine influence, 800964
Pacific Ocean
guyots, 620775
mineralogy, 310886, 310895
Pacific Ocean C, mineralogy, 330541, 330542, 330543
Pacific Ocean N, ooze, diatomaceous, 190911
Pacific Ocean NE, cruise synthesis, 151086, 151101
Pacific Ocean NW, mineralogy, 320548, 320549, 320550
Pacific Ocean SE, clay-sized minerals, 350481, 350485
Pacific Ocean SW, diagenesis, 210504
Pacific Ocean W
mineralogy, 200324
volcanic rocks, 210490
palygorskite, 020418
Philippine Sea, lithology, 061138, 061171
physical properties
clay, 061138
ooze, carbonate, 061171
porcellanite, 320430
Red Sea
evaporites, 230823, 230830, 230835
geochemistry, 230977
regional summary, 020415
rhodochrosite, 020418
rhyolite, mineral, secondary, 210535
Rio Grande Rise, sedimentation, 721017
Rockall Rise, mineralogy, 101132
sapropel, Cretaceous, 620895
sediment, recrystallization, 210505
sediment-interstitial water interaction, silica, 571273
sedimentary sequence, lithology, 200727
sedimentology
Mexico, Gulf of, 100709
volcanic sediments, 020415
sepiolite, 020418
shaly sediments, pigmentation, 020418
siderite, 020418, 020419
silica
diagenesis, 170382, 170383, 410891
mineralogy, 140731
silicate, authigenic, 010554
silt, terrigenous, 291148
on-land equivalents, 291062
Tasman Sea, mineralogy, 300605, 300606
tectonic, clay, 430811
volcanic components, composition of
volcanic material, 210490
volcanics, mineral, secondary, 210535
volcanism, pyroclastic, Paleogene, 810638
Walvis Ridge, Cretaceous to Pliocene, 400493
cronstedtite, magnetic-mineralogical zonation, 350322, 350323
Crooked Island, Bahama Islands, geology, 110886
cross faults
Line Islands, tectonics, 330737
Rockall Rise SW, structure, 481082
stratigraphy, transform boundary development, 481082
Cross Trend Chain. *See* Line Islands
cross-bedding, 040098, 040222, 070056, 120320, 130152, 130155, 130338, 140025, 250093, 250243, 300043, 310203, 310280, 320316, 330045, 330046, 350161, 380178, 380391, 380453, 400048, 400205, 410428, 42B0036, 440202, 47A0029, 47A0030, 480135, 490235, 500044
Africa NW, continental margin, 411131
Angola Basin, shale, black, 400538
Atlantic Ocean
Cenozoic sediments, 140865
Cretaceous sediment, 140865
Atlantic Ocean N, sedimentation, 120912
Atlantic Ocean NC, Mesozoic sequences, 410996
Brazil Basin, Recent-Eocene sedimentation, 721001
Cape Basin, shale, black, 400538
Cape Bojador, continental margin, 47A0779, 47A0780
Caribbean Sea, sedimentary structure, 150833
clastic sediment, Cretaceous, 401027, 401029
dissolution, carbonate, 400989
East Mariana Basin, sedimentary history, 890667
evaporites, Messinian, 42A0582
Greenland Sea, geologic setting, 38S0205
Japan, Sea of, sedimentary structure, 310488
lithology
calcarene, 140258
evaporites, 130152
igneous rocks, 330046
limestone, 170055
marl, dolomitic, 130339
mud, calcareous, 140258
mudstone, 120259
ooze, dolomitic, 130339
ooze, nannofossil, 130338
sand, 180236, 400047, 440202
sandstone, 120045, 130155
sapropel, 130338
sedimentary structure, 47A0029, 47A0030
sedimentation, 350031
shale, 120045
silt, 300043
siltstone, calcareous, 320318
volcanic debris, 320298
volcanic sediment, 170055
Madagascar Plateau, volcanic sediment, 250524
magnetostratigraphy, Cretaceous sediments, 400463
Mediterranean Sea, Messinian, 130686
mineralogy, turbidites, 130714
Miocene depositional history, 950799
Norwegian Sea, geologic setting, 38S0205
paleoenvironment, Hauterivian to Cenomanian, 47B0404
Philippine Sea
lithology, 061219
sedimentary structure, 310488
physical properties, ash, 061219
sandstone
alteration, 320541
calcite, 320541
lamination, 320541
sapropel, petrography, 130714
sedimentary structure, mud, silt-laminated, 960528
sedimentation, Rockall Rise, 480688
turbidites
Pacific Ocean W, 071009
sedimentary structure, 250448
cross-bedding, festoon, 130159
cross-lamination, 100092, 100118, 100119, 120365, 130340, 130424, 180100, 210060, 210372, 210373, 220039, 220271, 220328, 230040, 230215, 230387, 280182, 330111, 330112, 330169, 400195, 42A0229, 42A0231, 42A0235, 42A0239, 430041, 430043, 430044, 430164, 430211, 440170, 47A0034, 47B0041, 47B0042, 47B0053, 47B0054, 480047, 480175, 480176, 480177, 480179, 480221, 500129
Alaska, Gulf of, turbidites, silt, 180848, 180853, 180861
Angola Basin, 400537
Atlantic Ocean N, sedimentation, 120909
Atlantic Ocean NW
microfacies, 440487
sedimentation, 440974
Biscay, Bay of, evolution, 480805
Cape Basin, 400537
carbonate, 580975
chert, sedimentary structure, 300436
continental margin sediments, 280736, 280738
silt, 280733
current ripples, 500129
Daito Basin, sandstone, 580973
Daito Ridge
carbonate, 580975
sandstone, 580973
deposition, 960490
evaporites, Messinian, 42A0577, 42A0597
feldspathic sediment
abyssal, 200359
sedimentary structure, 200359
Indian Ocean NE, Cretaceous, 220737
Indus Fan, sedimentation, 230474
Line Islands, 330837
lithology, 060588, 100092, 100118, 100119, 210373, 270093, 280182, 42A0067, 42B0144, 42A0236
Cenozoic deposits, 47B0046, 47B0047
Cenozoic units, 480047
current ripples, 500129
deposition, 47A0034
evaporites, 130424
marl, dolomitic, 130340
Mesozoic deposits, 47B0053, 47B0054
mudstone, 440170
ooze, dolomitic, 130340
sandstone, volcanic, 120365
Mississippi Fan, 960506
NFLECT, lithology, 960549
Ninetyeast Ridge, dolomite, 220478
Norwegian Sea, Greenland Sea, 38S0262, 38S0270
ooze, nannofossil, sand, foraminiferal, 300432
paleoenvironment, Cretaceous, 47A0560
red beds
sedimentary structure, 38S0262
turbidites, 38S0270
sandstone, 580973
sapropel, Mediterranean Sea E, 42A0429
sedimentary structure, 960521
bedding, ripple, 960521
clay, 220737
foreset bedding, 960521
mud, silt-laminated, 960521
ripple shapes, 960521
silt, 960521
sedimentology, 100701
Timor Trough, ooze, foraminiferal, 271011
transport, 230488
turbidites
parallel laminae interbed, 300430
sand, 300428
sedimentary structure, 250449, 300424
volcaniclastics, structure, 330875
Crotone Basin, 131266, 131406, 680333, 680334
Crough Islands, 580856
Crozet Basin, 241140, 250187, 250672, 260135, 260140, 260914
crust, oceanic, temperature, 830298
geophysical measurements, 260418
Indian Ocean S, geologic history, 260913, 260915, 260918, 260941
Indian Ocean W, regional aspects, 250747
sea floor spreading, history, 250664, 250672

- see also* Indian Ocean S; Indian Ocean W
 Crozet Islands, 220004, 220429
see also Indian Ocean NE
 Crozet Plateau, 250187, 250237, 250287
 Indian Ocean W, regional aspects, 250743
 sea floor spreading, history, 250664
 Cruiser Tablemount, 490407, 490408, 820494
 calcareous nannofossils, 490519, 490529
 planktonic foraminiferal biostratigraphy, 490465
 Cruse Formation, 040599
 crust, 411111, 460143, 481051, 490709, 511087, 610643, 650693
 abnormally thin, Philippine Sea S, 590041
 acoustic stratigraphy, 061304
 acoustic wave velocity, 450383
 age, 061301, 061302, 140955, 170911, 170913, 170915, 901321
 tectonic fabric, 730791
 alteration, 490709, 511087, 511092
 chemistry, 511563
 mineralogy, 370825, 370826, 511563
 alteration, low-temperature, 370825, 490709
 mineral, secondary, 370825
 Angola Basin
 age, 730791
 geologic evolution, 750522
 anisotropy, Ngendei seismic experiment, 910385
 Arabian Sea, sediment history, 230514
 Aruba Gap Plain, geology, 151047
 Atlantic continental margin NW, evolution, 440951, 440956
 Atlantic Ocean, 780086, 780377, 780602, 780603
 circulation, 720978
 Atlantic Ocean C, basin, 511501, 511502, 511505
 Atlantic Ocean N, geological and geophysical setting, 450026, 450028, 450029
 Atlantic Ocean NE, 800823
 diagenesis, 800823
 evolution, 411220
 Atlantic Ocean NW, sea floor spreading, 430869, 430870
 Atlantic Ocean S, 730791
 Malvinas Outer Basin, 391109
 Sierra Leone Rise, 391123
 Atlantic Ocean W, structure, 511540
 Aves Ridge, 780096
 Baja California S, anomalously, 630954
 Barbados, structure, 780030
 Barbados Ridge, 780572
 Barremian-Aptian, ⁸⁶Sr/⁸⁷Sr ratio, 620782
 basalt, 370825, 650698
 California, Gulf of, 650579
 carbonate, 370825
 chemistry, 540682
 clay, 370826
 construction, 650549
 Fe-Ti oxide, 550639
 geochemistry, 350329, 350332, 590783, 590786, 920449
 glass, 370825
 liquid variation, 650556
 Pacific Ocean, 910483
 palagonite, 370825
 petrology, 350329, 350332, 580868, 590679
 pyroxene, 590706
 Rb-Sr, 550695
 zeolite, 370825
 basalt, altered
 geochemistry, 540690, 580806, 580833, 580839
 major element, 580885, 580892
 petrology, 540690
 trace elements, 580885, 580892
 basalt, pillow, 650701
 basement
 age, 630921
 basalt, 430877
 calcite, 920502
 chemical and magnetic stratigraphy, 450658
 drilling difficulties, 540593, 540594
 geochemistry, 590743, 590746, 590747, 590751
 basement, oceanic, contacts, 411111
 Bauer Basin, structure, 340159, 340160
 Bermuda Rise
 crust, oceanic, 511591
 mineral, secondary, 511253
 oblique seismic experiment, 510675, 510689
 Biscay, Bay of, margin, 800426, 800427
 breccia, Line Islands, 330754
 calcite, deposition, 920299
 California, Gulf of
 accretion, 650739, 650742, 650743, 650749
 age, 630919
 basalt, 650527, 650559, 650560, 650661, 650664, 650667
 postrifting, 640588
 Cape Basin
 age, 730791
 shale, black, 711030
 carbonate, Jurassic, 790417, 790418, 790419
 carbonate, secondary, vein, 580905
 Caribbean Plate, 780049
 Caribbean Sea, 780030, 780086
 basin, 610705
 origin, 151105
 Chatham Rise, seismic stratigraphy, 901326
 chemical stratigraphy
 Atlantic Ocean, 450658
 Mid-Atlantic Ridge, 460429
 chlorophyll derivatives, formation, 600499
 Cocos Plate, basalt, 660703
 comparisons, other volcanic provinces, spreading rate, 540825
 continent/ocean boundary, 430869
 continental, 481051, 610643
 continental margin, thinning, 800427
 cooling, 850972
 Coral Sea E, geology, 300659
 Costa Rica Rift, 920563
 alkali, 690487, 690491, 690492
 alteration, 920563
 compressional wave velocity, 920563, 920564
 fracturing, 920563
 geophysical logging, 920563
 geothermal measurements, 690223
 heterogeneity, 920563
 model, 920563
 oceanic layers, 920563
 Pliocene record, 690439
 seismic refraction, 920563
 sonic velocity, 920563
 structural relationships, 920564
 structure, 830392
 Costa Rica Rift Zone, 830297
 age, 830249, 830264, 830283
 basalt, 830237, 830239, 830240, 830260, 830261
 crack density, 650319
 cruise objectives, Atlantic Ocean, 450005
 deposition, eolian, Pacific Ocean SE, 920336
 diagenesis
 age, 920345
 Atlantic Ocean NE, 800823
 fracture zone, 920345
 East Mariana Basin, sedimentary history, 890663
 East Pacific Rise, 080829
 magmatism, axial, 540839
 Pb isotope, 920391
 Sr isotope, 920391
 structure, 540028, 540029, 540030, 540031
 elastic wave velocity, Costa Rica Rift, 920563
 Emperor Seamounts, mineralogy, 550466, 550473
 emplacement mode, 160626
 emplacement of ultramafics, 820527
 Falkland Plateau, geologic framework, 710284
 FAMOUS area
 basalt, 490353
 fracture zones, 490357
 magnetic structure, 450658
 faulting, 820527
 ferrobasalt, MAR, 540847
 flux, 830261
 basalt, 830261
 hydrothermal alteration, 830261
 vein mineral, 830261
 fracture zone, 920307, 920308
 hydrothermal phases, 920307, 920308
 Miocene, 920308
 nonfracture zone compared, 820527
 sedimentation rate, 920307, 920308
 Galapagos Hydrothermal Mounds, sediments, 850791
 Galapagos Spreading Center, sediment classification, 540322
 Galapagos Spreading Center
 interstitial water, 540388
 Mounds Hydrothermal Field, 540377
 geophysical logging, 460407
 geothermal measurements, Costa Rica Rift, 690223
 glass, preservation, 830298
 Goban Spur, 800427
 continental margin, 801127, 801131
 evolution, 801212, 801213
 heat flow, 800426
 modeling, 801141
 Gondwana, dispersal, 260950
 Granada Trough, 780025
 gravity, models, 801143
 heat flow, 800426, 800427
 Hess Rise
 pyrite-marcasite, 620855
 rocks, 620863
 heterogeneity, 670568
 hyaloclastite, 210535
 ash, 650477
 hydrothermal activity, Neogene, 920616
 hydrothermal alteration, differences, 920505
 hydrothermal circulation, porosity, 690686, 690687
 hydrothermal deposits, origin, 540418
 hydrothermal mineralization, East Pacific Rise, 020421
 Iberian margin W, evolution, 47B0768
 igneous rocks
 chemical composition, 590719, 590725
 geochemistry, 600611
 Indian Ocean NE, sediment history, 220720, 220723
 Indian Ocean S, geologic history, 260919, 260930, 260932
 Indian Ocean W
 authigenic components, 240679
 regional aspects, 250753
 Somali Basin, 240721
 Indo-Australian Plate, 260418
 Iselin Plateau, 280920
 isochrons, 630920

- isochrons (Cont.)
 basement, 630921
 magnetic anomaly, 630921
 J-Anomaly Ridge, paleomagnetism, 450392
 Japan, 870752
 Japan Trench
 seismic refraction, 870751
 structure, 560463, 560464, 560465, 560467
 Labrador Sea S, structure, 121155
 lava, isotope geochemistry, 810778, 810779
 limestone, Jurassic, 790471
 Line Islands, tectonics, 330738, 330740, 330741
 lithology, 42B0297, 480080
 age, 170253, 170269, 220199, 260140, 430057
 physical properties, 170108
 sandstone, 400069
 shale, 400069
 Magdalena Fan, isochrons, 630923
 Magdalena Ridge, isochrons, 630923
 Magellan Rise, age, 170913
 magma, parental, convergence, 670580, 670583
 magmatism, 511088, 511092
 geochemical behavior, 511091
 mantle, 511091
 magnetic anomaly, 481051, 650697
 basement, 820024
 isochrons, 630921
 magnetic properties, 650727
 magnetic stratigraphy
 Atlantic Ocean, 450658
 Mid-Atlantic Ridge, 460429
 magnetic structure, 450658
 magnetism, 650717
 magnetization, 510031
 basalt, 650698
 basalt, pillow, 650701
 magnetic anomaly, 650697
 major element, 650561
 formation, 650560
 manganese, 291083
 Marcus Island, archipelagic apron, 200057
 Mariana Basin, history, 890377
 Mariana Trough, basalt, 600601
 Meiji Guyot, K/Ar age, 550677
 Mendoza Rise
 basalt, 920527, 920537
 basement, 920614, 920615
 East Pacific Rise, 920590, 920591, 920592
 petrology, 920613
 Mexico, Gulf of, regional aspects, 010640, 100738
 Mid-Atlantic Ridge, 450658
 age, 730791, 820421
 basalt, 540598
 faulting, 450658
 geophysical logging, 460407
 magnetics, 450128
 Middle America Trench, Central America, 840954
 mineral, secondary
 East Pacific Rise, 650646
 Tamayo Fracture Zone, 650646
 mineralogy
 age, 920345
 Atlantic Ocean N, 810784
 fracture zone, 920345
 Mn, hydrothermal, accumulation, 920586
 Morocco, continental margin, 500005
 Mounds, nontronite, 540384
 North Pond, 450028
 oceanic, 481051
 oldest sediment, formation, 020424
 Oligocene-Pleistocene sediments, 920295, 920395
 fracture zone SE, 920292, 920293
 hydrothermal activity, 920291
 spreading, 920291
 ore, deposit, 540803
 organic geochemistry, Pacific Plate, 571297
 Orphan Knoll, base modification, 121181
 oxides, 511087
 oxygen isotope, geochemistry, 370617
 Pacific continental margin, geomorphology, 350287
 Pacific Ocean, 320945, 430792, 590512
 age, 200731
 basalt, 910483
 Pacific Ocean C, geochemistry, 850781
 Pacific Ocean E, 540602
 age, 540602
 alteration, 540602
 basalt, 920435
 Costa Rica Rift, 540602
 crust, upper, 540602
 East Pacific Rise, 540602
 equatorial pelagic sediment belt, 540602
 fracturing, 540602
 heat flow, 540602
 penetration, 540592
 sediment accumulation rate, 540602
 Pacific Ocean NE
 cruise synthesis, 151105, 151107, 151108
 metal-rich basal sediments, 630667
 Pacific Ocean NW
 diachronous detrital deposits, 200736
 stratigraphy, 200731
 Pacific Ocean S, subsidence, 920299, 950299
 Pacific Ocean SE
 basement, 350271
 focal mechanism solution, 920524
 Pb isotope, 920399
 Sr isotope, 920400
 Pacific Ocean SW
 anisotropy, 910385
 Cenozoic, 300667
 island arcs, 300693, 300696, 300698, 300700, 300702, 300703, 300704
 Mesozoic, 910437
 Mesozoic regional evolution, 210902
 regional evolution, 210900
 Pacific Ocean W, guyot, 200653, 200657, 200660
 paleomagnetism, 650722
 age, 450392, 450393
 igneous rocks, 450392
 petrologic development model, 460143
 petrology, 280938
 Philippine Basin, genesis, 310859, 310863, 310868
 Philippine Sea, structure, 590368
 Philippine Sea S, abnormally thin, 590041
 Philippine Sea W, seismic refraction, 310611
 Philippines, genesis, 310876, 310878
 physical properties, shear velocity, 920542
 planktonic foraminifers, 920297
 plate tectonics, convergence, 670580, 670584
 polymetallic crusts, diagenesis, 800832
 porosity, 650319
 preservation, 920297
 young areas, 920297
 rare earth elements, 850798
 East Pacific Rise, 920403
 tuff, 590656, 590661
 Red Sea, geology, 230813, 230815, 230817, 230818
 regional heat flow, 920604
 regional problems, carbonate, 061303
 regional tectonics
 deformation, 801155
 thinning, 801153
 rifting
 Atlantic Ocean, 760891
 patterns, 481050
 Tethys, 760891
 Rio Grande Rise, regional setting, 390964, 390966
 Rockall Plateau, concretion, fossil polymetallic, 810702, 810703
 Rockall Plateau W, stratigraphy, 481063
 Rockall Rise SW, structure, 481078, 481079, 481082, 481083, 481086
 Santos Plateau, origin, 390929, 390942
 sea floor spreading, 020426
 seamount, volcano, 430877
 sediment
 chemical composition, 700269, 700271, 700274
 hydrothermal mounds, 700278
 sediment geochemistry
 ferromanganese, authigenic, 550462
 iron-manganese, 550457
 nondepositional environment, 550460
 shallow-water bethogenic detrital sediments, 550459
 sediment history, ridge crest, 200611, 200612
 sedimentation, formation rate, 920355
 seismic profiles, evolution, 350197
 seismic structure
 unconsolidated sedimentary layer, 870754
 wavespeed, 870754
 seismology, velocity, 650315
 seismostratigraphy, acoustic basement, 801120
 South Fiji Basin, history, 300629, 300630, 300631
 South Tasman Basin, borderland, 291139, 291140, 291142, 291143, 291144
 Southeast Pacific Basin
 evolution, geologic, 350725, 350738, 350740
 sediment distribution, 350197, 350200, 350203, 350219, 350220, 350222, 350223, 350225, 350226
 southwest regional unconformities
 massive uneven emplacement, 210900
 structure, 210900
 spreading
 Atlantic type, 820527
 hypothesis, 630922
 spreading rate, 920599
⁸⁶Sr/⁸⁷Sr ratio
 age, 920502
 permeability, 920502
 Sr isotope
 contamination, 590725
 geochemical evolution, 590719
 stratigraphy
 Paleocene-pre-Oligocene interval, 481078
 postrift subsidence, 481086
 sea floor spreading, 481083
 transform boundary development, 481079, 481082
 stratigraphy and evolution, composite, 801184
 structural evolution, tectonic history, 481063
 structure, 810903
 East Pacific Rise, 540024
 Japan Trench, 560463
 subduction, 660581
 Barbados Ridge, 780399, 780405
 dehydration, 780406
 subsidence
 nature, history, 920301, 920302
 Pacific Ocean S, 950299

- synthetic seismogram
 applicability, 920581
 bulk properties, 920571
 construction, 920573
 velocity, 920575
 Tasman Basin S, borderland, 291140
 Tethys, Mediterranean Sea, 42A0948
 Tethys N, margin, 440951, 440956
 thermal history
 basal sediments, temperature, 690472
 basement, 690471
 Carnegie Ridge, 690471
 Cocos Ridge, 690471
 depletion, 690472
 diagenesis, 690471
 diffusion profile, 690472
 heat flow, high, 690471
 recrystallization, 690472
 seawater flow rates, 690472
 sedimentation rate, 690471
 thinning, continental margin, 800427
 tholeiite, depleted, geochemistry, 810784
 topography, 650697
 trace elements, 511087
 Tres Marias, Mexico, isochrons, 630921
 Turonian, 730796
 velocity, 650315, 920579
 velocity bounds, Mesozoic, 910437
 velocity structure, 650319
 Venezuelan Basin, 151002
 Caribbean Sea, 040665
 volcanic rocks
 ages, 550659
 submergence, 200696, 200698
 volcanoclastics, 550503
 volcanics, fore arc, 600722
 volcanism, 430877
 volcano, 430878
 volcano, height, 430877
 Walvis Ridge
 age, 730791
 basalt, 740749, 740750
 wavespeed, 870752
 crust, continental, 810903, 810905
 Angola Basin, geologic evolution, 750511
 Arabian Sea, history, 231115, 231122
 ash, Middle America Trench, 660687
 Atlantic Ocean
 Fe, 801055
 manganese, 801055
 Atlantic Ocean N
 basement, 801103
 Mediterranean Sea, 110805
 Atlantic Ocean NE, evolution, 411220
 Atlantic Ocean SW, basin, evolution,
 360993, 360996, 361003
 Baja California S, 630954
 basalt, geochemistry, 590783
 basalt, altered
 major element, 580874, 580883, 580892
 trace elements, 580874, 580883, 580892
 basement, morphology, 801164
 Biscay, Bay of, thermal regime, 480289
 burrow mottling, silt, 291049
 California, Gulf of, 641057
 carbonate, Tethys, 801055
 Chatham Rise, seismic stratigraphy, 901325
 chemical composition, metal, 571259
 clay, Campbell Plateau, 291049
 continental margin, structural evolution,
 481047, 481048, 481050, 481051, 481052,
 481053, 481058, 481059
 continental shelf, onshore geology, 400967,
 400974
 Coral Sea E, geology, 300650, 300659, 300660
 crust, oceanic, contact, 370335, 370336
 East Pacific Rise, silicate, hydrothermal,
 920374
 Europe NW, continental margin, 801187
 Europe W, 800678
 geochemical variation, contamination, 810801
 geochemistry
 California, Gulf of, 640696
 chemical analyses, 640696
 Guaymas Basin, 640699
 geological, geophysical setting, rifting,
 42A0889
 Goban Spur
 continental margin, 801122, 801124,
 801125, 801126, 801127, 801128, 801132,
 801138
 evolution, 801201, 801204, 801213
 tholeiite, oceanic, 800939
 gravity, models, 801143
 Hercynian, 480292
 Hess Rise, rocks, 620865
 Iberian margin W, evolution, 47B0766,
 47B0768
 iron, 801069
 Japan Trench, 560494
 lava, isotope geochemistry, 810775, 810779
 magnesium, 801057
 Oligocene-Miocene, 801060
 major element, argillaceous sediments,
 580721
 manganese, 801061
 carbonate, 801064
 Mazagan Plateau, 790510
 Mesozoic evolution, 440949
 Tethys N, 440960
 Mesozoic variegated, red sediments,
 Atlantic Ocean NW, 440505
 Middle America Trench
 magma, calc-alkaline, 660699
 structural framework, 660781
 Moroccan Basin
 evolution, 500803
 margin, 500809, 500810
 New Zealand, 910271
 Pacific Ocean SW
 Cenozoic, 300667, 300679
 island arcs, 300696
 Red Sea, geology, 230818
 Red Sea S, 231122
 regional geology
 acoustic basement, 801192
 regional gravity, geomagnetic patterns,
 801191
 regional structure, 801189
 Rockall Rise SW, structure, 481065, 481079,
 481082, 481086
 Santos Plateau, origin, 390940, 390942
 seismic structure, 870754
 seismostratigraphy, acoustic basement,
 801120
 South Fiji Basin, geology, 300625, 300626
 stratigraphy
 postrift subsidence, 481086
 southern rifted margin, 481065
 transform boundary development, 481079,
 481082
 strontium
 carbonate, 801055
 interstitial waters, 801055
 subsidence, Falkland Plateau, 710287
 tholeiite, geochemistry, 590681
 trace elements, carbonate, 801070
 crust, ferromanganese
 Emperor Seamounts, mineralogy, 550464,
 550472
 Galapagos Spreading center, 540377
 Hess Rise N, sedimentary sequences, 620766
 mineral chemistry, basalt, porphyritic,
 450464
 peridotite, spinel, 370883, 370884
 tholeiite, geochemistry, 590690
 volcanoclastics, volcanoclastic matter,
 550503
 zoning
 chromite, 370884
 normal, 370883
 reverse, 370884
 crust, glass
 basalt, petrology, 160624
 California, Gulf of, basalt, 650528
 hyaloclastite, basalt, 650479
 crust, hyaloclastic, Lord Howe Rise,
 rhyolite, 210535
 crust, hydrothermal, Galapagos Spreading
 center, manganese, 540379
 crust, oceanic, 330915, 330917, 340433,
 340434, 380751, 411111, 460143, 511557,
 670538, 670540, 670561, 820421, 820472,
 820475, 830217, 830298, 830405, 830415,
 830434, 830445, 830447, 830451, 830460,
 830465, 830479, 830484, 830511, 830518,
 830524, 830525, 830530
 accretionary wedge, subduction, 870749
 acoustic basement, sediment boundary, 751192
 acoustic wave velocity, 450383, 450384
 compressional wave velocity, 450383
 density, 450384
 Mid-Atlantic Ridge E, 450383
 velocity, 450384, 450386
 actinolite, basalt, 670563
 age, 200523, 280920, 730791, 730795
 Angola Basin, 751217
 fabric, tectonic, 730791
 Indian Ocean NW, 230131
 ages, California, Gulf of, 630919
 aging
 geochemistry, 511563, 511564, 511566,
 511567, 511568, 511569, 511570, 511571,
 511572, 511573, 511574, 511576, 511577
 mineralogy, 511563, 511564, 511566,
 511567, 511568, 511569, 511570, 511571,
 511572, 511573, 511574, 511576, 511577
 Al-Jadida, continental margin, 790914
 alteration, 340344, 340434, 780405, 830217,
 920572
 Costa Rica Rift, 830443
 hydrothermal dating, 830297
 mineralogy, 830217
 minerals, 830438
 Pacific Ocean, 340433
 rate, 340433
 regulating factors, 340433
 temperature, 920499
 alteration, hydrothermal, 830249
 alteration, low-temperature, 340434
 Bermuda Rise, 511243
 alteration materials, 830298
 alteration minerals, 830438, 830479, 830486
 trace elements, 920495, 920496
 Angola Basin, geologic evolution, 750511,
 750518
 anisotropy, seismic, 830517, 830518,
 830524, 830527
 Arabian Sea
 history, 231115
 sediment history, 230518
 Archie's Law, 830422
 Atlantic Ocean
 basalt, 780401
 circulation, 720978
 manganese, 801055
 margin, 481101, 481102
 microfabric undeformed, 780538

- Atlantic Ocean (Cont.)
 seismic refraction, 450026
- Atlantic Ocean C, 500809, 780025, 780039, 780042, 780096, 780188, 780301, 780573
 basin, 511501, 511508, 511509
- Atlantic Ocean N, 110802, 780398
 aging, 490583
 paleogeography, 121171
- Atlantic Ocean NC, 820361
 Azores, 820497
 seawater downflow, 820361
 temperature, 820361
- Atlantic Ocean NE, evolution, 411215, 411219, 411220, 411223, 411229, 411237, 411239, 411243
- Atlantic Ocean NW, sedimentary evolution, 430794
- Atlantic Ocean S, 390941, 390942
 age, 730791
 evolution, 390941, 390943
 hiatuses, 391101
 Malvinas Outer Basin, 391108
 Rio Grande Rise, 391125, 391127
 Santos Plateau, 391108
 Walvis Seamount, 391128
- Atlantic Ocean SW, basin, evolution, 360993, 361002, 361003, 361004, 361006
- Atlantic Ocean W
 central, 500809
 Cretaceous, 511540
- Aves Ridge, 780096
- Azores, lead isotope, 820497
- B, trace elements, 920491
- Bahama Islands, geology, 110882
- Baja California, ages, 630919
- Baja California S, age, 630954
- Barbados Ridge, 780042
 alteration, 780399, 780405
 Atlantic Ocean, 780401
 basalt, 780401
 subduction, 780399, 780405
 trace elements, 780399
- basalt, 340393, 650549, 820471, 820493, 830129
 alteration, 450609
 Atlantic Ocean, 780401
 basement, 411111
 chemistry, 920471
 development model, 460143
 East Pacific Rise, 650549
 geochemical variation, short-term, 820485
 geochemistry, 590754, 590783, 590786, 590787
 LREE, 820487
 magnetic domain state, 370515
 magnetic properties, 340769, 340771
 massive flow, 830384, 830483, 830496, 830509
 Middle America Trench, 660703, 670577
 mineral, secondary, 340393, 340395, 340399, 340405, 340417, 340423
 mineralogy, 370825, 370827
 NRM, 760708
 petrography, 920459
 petrology, 460143, 580843
 Rb-Sr, 550702
- basalt, altered
 geochemistry, 580807
 major element, 580873, 580874, 580889, 580891
 trace elements, 580873, 580874, 580889, 580891
- basement
 calcite, 920502
 chemical and magnetic stratigraphy, 450658
 deepest penetration, 830217
 geochemistry, 590746, 590750
 morphology, 801164
 oldest dead ocean strata reached, 500005
 paleomagnetism, 370425, 370429, 370443
 seismic velocity, 370373, 370374, 370383, 370384
- bathymetry, 830522
- Bauer Basin, 340804
- Bermuda Rise
 aging, 511563
 alteration, 511243
 basalt, 160648, 160649, 340769, 511357, 511402, 511404, 511469, 511475
 basement, 510389, 511379
 composition, 511579, 511580
 crack distribution, 511479
 Cretaceous, 511579
 geophysical logging, 510709
 oblique seismic experiment, 510675, 510676, 510679, 510680
 physical state, 511579
- Bermuda Triangle, basalt, 511363, 511370, 511375
- beryllium-10, deposition, 860541
- BHTV records, 830511
- Biscay, Bay of N, continental margin, 481025
- Biscay, Bay of
 margin, 800426, 800427
 thermal regime, 480293
- Blake Basin
 age, 760919
 Magnetic Quiet Zone, 760705, 760709, 760914, 760939, 760941
- Blake Spur, 760901
- borehole breakout, horizontal stress, 830511, 830512
- borehole televiewer logging, 830445, 830447, 830480, 830484, 830488, 830509, 830512
 cross-correlations, 830491
 horizontal stress, 830511
 buffering theory, 760458
- bulk exchange rates, dissolved cations, 830301
- bulk porosity, 830419, 920572
- burial, dehydration, 830301
- Ca²⁺ concentration, interstitial water, 830298
- Calafia Fracture Zone, isochrons, 630922
- California, Gulf of, 650697
 ages, 630919
 geologic and tectonic history, 641282
- Guaymas Basin, 650616
- metamorphic rocks, 650375
- postrifting, 640577, 640588
- California S, ages, 630919
- carbonate
 Tethys, 801055
 vein, 830299, 830300
- carbonate, secondary, vein, 580907, 580910
- Caribbean Sea, 760903
- Ce, 820497
- celadonization, K, Fe-smectite, 540308
- Central America, subduction zone, 780405
- chemical composition, 830217
- chemical stratigraphy, Mid-Atlantic Ridge, 460429
- chemistry, 370825
 basalt, 370827
 seawater, 370825
- clay, 830486, 830487
- clinopyroxene, 670561
- Cocos Plate, 840832, 840866, 840869, 840870, 840912
- sediments, 670608
- Colon Ridge, interstitial water, 680467, 680473
- compressional and shear wave velocities, basalt, 160648
- compressional velocity, 830450
 water-filled cracks, 830486
- compressional wave velocity, 920572, 920573
- compressional-wave velocity, 830529, 830531
- porosity, 830532, 830534, 830537
- conclusions, Guatemala Trench, 670568
- conductive recovery model, layers, 830388, 830397
- contact, 411111, 650375
 East Pacific Rise, 650375
- continental margin, structural evolution, 481042, 481047, 481050, 481051, 481052, 481053, 481059
- continental shelf
 Guatemala, 840879, 840880, 840890
 onshore geology, 400967, 400974
- continental slope
 Guatemala, 840901
 Japan NE, 870749
- convection, Costa Rica Rift, 690245
 convective heat loss largest, 830298
- cooling, joints, 830493
- Coral Sea E, geology, 300650, 300653, 300659, 300660, 300661
- Costa Rica, continental slope, 840842
- Costa Rica Ridge, Mid-Atlantic Ridge, 830458
- Costa Rica Rift, 830405, 830443
 alteration, 830217, 830297, 830443
 basalt, 690482
 carbonate, 690461
 convection, 690245
 crust, 920563
 electrical resistivity, 690237, 690238, 690239, 690241, 830419
 fracturing, 830443
 geothermal measurements, 690223, 690224, 690225, 690227, 690228, 690230, 690232
 heat flow, 690031
 hydrothermal alteration, 830297
 in situ stresses, 830511
 lithostratigraphy, 830443
 magnetism, 690271, 690272, 690274, 690275, 690278
 permeability, 690245, 690246, 690247, 690249, 690250, 830429
 porosity, 830419, 830479
 ridge push, 830513
 seismic velocity, 690255
 stress regime, 830479
 structure, 830479
 sulfide, 830263
 underpressures, 690245
- Costa Rica Rift Zone, 830126, 830181
- actinolite, 830184
- Al₂O₃, 830186, 830196, 930192
- albite, 830184
- alteration, 830184, 830187, 930194
- alteration, chemical, 830196
- analcite, 830184
- anhydrite, 830184
- augite, 830184
- basalt, anomalous, 830185, 830186, 830187, 830196, 830197, 830198
- basalt, primitive, 830185
- calcite, 830184
- CaO, 830186, 830191, 830197
- celadonite-nonttronite, 830184
- chalcopyrite, 830185
- chlorite, 830184
- chrome spinel, 830184, 930194
- clinopyroxene, 830194
- CO₂, 830187, 830190, 930194
- Co, 830185

Costa Rica Rift Zone (Cont.)

- comagmatism, 830197
cooling, 830181, 830183
Cr, 830185, 830187, 830197
crust, 830162
crystal growth rates, 830181
Cu, 830185, 830190, 830195, 930194
density, 830185
dike, 830180, 830181, 830196
dike, sheeted, 830162, 830183, 830191, 930192, 930194
electrical resistivity, 830185
epidote, 830184
Fe₂O₃, 830185
Fe sulfide, 830195
ferrobasalt, 830185
fracturing, 830185
Ga, 830185
galena, 830185
glass, 830186
greenschist, 830184, 930194
halmyrolysis, 830187
hydrothermal alteration, 830201, 830202, 830297
hydrothermal fluid, 830190, 830195, 830196
hygromagmaphile element, 830187, 830196, 830197, 930192
iron, 830187, 830190, 830195, 930194
iron hydroxide, 830184
K, 830185, 830187, 830190, 830196, 930194
K₂O, 830186, 830197
lanthanum, 830196
laumontite, 830184
lava pile, 830196, 930192
Layer 2C, 2, 830162, 830181, 830185
magma, 830197
magma chamber, 830197
magnesium, 830137, 830138, 830140, 830141, 830153, 830155, 830161, 830185, 830186, 830192, 830196
major oxides, 830196
manganese, 830187, 830190, 830195, 930194
metasomatic fluids, 830198
Mg/Fe ratio, 830185
Na₂O, 830186, 830196, 830197, 930191, 930192
nickel, 830185, 830187, 830197
niobium, 830185
nucleation and growth, 830181
nucleation temperatures, 830181
olivine, 830184, 930194
oxides, 830185, 930191, 930192
P₂O₅, 830186, 830196, 830197, 930192
Pb, 830195
permeability, 830185
pillow margins, 830181
pillow rims, 830184
plagioclase, 830184, 930194
porosity, 830185
pyrite, 830184, 830185
quartz, 830184
rare earth elements, 830185, 830187, 930192
Rb, 830185
S, 830185, 830187, 830190, 830195, 930194
saponite, 830184
seismic velocity, 830185
SiO₂, 830186, 830196, 930192
sphalerite, 830185
sphere, 830184
Sr, 830185, 830196, 830197, 930192
stratigraphy, 830183
sulfide, 830190
temperature, 830183
texture, 830181, 830194
tholeiite, olivine, 830186, 830196
Ti, 830196
TiO₂, 830186, 830196, 930192
TiO₂ enrichment, 830186
trace elements, 830185
transition layer, 930192, 930194
transition zone, 830183, 830190
volcanic layer, 830183, 830184, 830185, 830187, 830190, 830191, 830196
weathering, 830184, 830187, 930194
Y, 830185, 830196, 830197, 930192
zeolite, 830184
Zn, 830185, 830187, 830190, 830195, 930194
Zn sulfide, 830195
Zr, 830185, 830196, 830197, 930192
cracks, 690681
Crozet Basin, temperature, 830298
cruise objectives, Kane Fracture Zone, 450005
crust, continental, contact, 370335, 370336
current models, 830165
deep-sea trench, sedimentary facies, 670609
deepest penetration, 830121, 830165
Demerara Plain N, formation, 040662
density, 830367, 830444, 830445, 830446
deposits, 660581
detrital sediment, origin, 670512
diffusive redistribution of elements, 830301
dike, 830444, 830468
acoustics, 830465
fracturing, 830447, 830455, 830465, 830469, 830472
impedance, 830465
permeability, 830473
seismic velocity, 830537
sonic velocity, 830447
venting, 830465
dike, sheeted, 830165
distinct zones, 830126
East Coast Magnetic Anomaly, Blake Spur, 760924, 760941
East Mariana Basin, sedimentary history, 890666
East Pacific Rise, 540059, 540081
Deep-Tow studies, 540059, 540060
geothermal processes, 540395
elastic wave velocity, compressional velocity, 920569
electrical resistivity, 830419, 830438
Costa Rica Rift, 690237, 830419
electron density, 830445
Esplandian Fracture Zone, isochrons, 630921
Europe NW, continental margin, 801187
evolution, 380751
FAMOUS area, seismic velocity, 370383, 370390
faulting, 690702
flow, 370358, 830165
fluid permeability, 690694
forearc basin, Guatemala, 840890
formation, 820519
fossils, siliceous, 670540
fractionation, 511557
liquid, 511557
fracture, 830438
fracture cyclicity, 830488
fracture density, 830486, 830487, 830488
fracture porosity, 830423
fracture spectrum, 830451
fracture zones, isochrons, 630921
fracturing, 830443, 830484, 830487, 830488, 830491, 830494, 830510
Costa Rica Rift, 830443
possible origins, 830510
gabbro, 830461
density, 830459, 830465
Galapagos Hydrothermal Mounds, 700459
Galapagos Islands, 700459
Galapagos Rise, clay minerals, 540310
Galapagos Spreading Center
basalt, 540773
clay minerals, 540312, 540313
young, 700459, 700461, 700464, 700467, 700468, 700469, 700471, 700472, 700473, 700474, 700475
gas, interstitial, geochemistry, 640783
geochemistry
California, Gulf of, 640696
Guaymas Basin, 640708
igneous rocks, 370748
geologic history, East Pacific Rise, 540059
geological, geophysical setting
Mid-Atlantic Ridge, 450023
seismic data, 390950
geophysical logging, 830441, 830443, 830447, 830450, 830479
Costa Rica Rift, 830443
cross-correlation, 830447
Layer, 2, 460401
Mid-Atlantic Ridge, 830448
Mid-Atlantic Ridge E, 460407
geothermal measurements, 830405
geothermal processes, 540395, 540396, 540413, 540418
East Pacific Rise, 540395
Galapagos Spreading Center, 540395
glass, unaltered, Pb isotope, 820498, 820499
Goban Spur
continental margin, 801130, 801131, 801132, 801162
evolution, 801203, 801212, 801213
tholeiite, oceanic, 800939
gravity, 830396
gravity anomaly, modeling, 801145
Guatemala
continental shelf, 840879, 840880, 840890
continental slope, 840842, 840857, 840859, 840901, 840906
offshore sediment, 840621
³He/⁴He ratio, helium, 870863
He isotope, variations, 820497
heat flow, 370348, 370358, 830379, 830384, 830388, 830405, 830410
Costa Rica Rift, 690031
geochemical fluxes, 830298
transport, 830289
heat flow patterns, 830379, 830384, 830388
heat transfer, 830440, 870741
high velocity zone, 920572
hydrological studies, 830436
hydrothermal activity
clay, 540314
K, Fe-smectite, 540314
hydrothermal alteration
Atlantic Ocean, 830297
celadonite, 830301
Costa Rica Rift, 830297
duration, 830298, 830301
global effects, 830297
seawater exchanges, 920505
zeolite, 830301
hydrothermal circulation, 370347, 370357, 370358, 690726, 830356, 830388, 830389, 830405, 830424, 830429, 830440, 830519, 870740
hydrothermal deposits, origin, 540416
hydrothermal fluid, "normal", 830298
hydroxyl-mineral content, 830444, 830446, 830461
hygromagmaphile (HYG) elements, depletion, 650623, 650624
Iberian margin W, evolution, 47B0764, 47B0766

- Iceland, plume, 490807
 impedance, 830463, 830472
 permeability changes, 830472
in situ stresses, 830511
 Indian Basin S, 280920
 Indian Ocean NE, Cretaceous, 220763, 220764
 Indian Ocean S, geologic history, 260910
 Indian Ocean W
 age/depth depth constancy, 240710
 regional aspects, 250743
 siliceous microfossils, 240700
 interstitial water, 650441
 iron, 801070
 iron-rich sediment, origin, 330836
 isotopic study, seismic layers, 590631
 Japan, Sea of, 310005
 Japan Trench, 560496, 870749
 seismic reflection, 870751
 seismic refraction, 870751, 870752, 870773
 seismic velocity, 870754
 subduction, 560463
⁴⁰K/⁴⁰Ar age, Goban Spur, 800945
 Kings Trough, 941151, 941153, 941154, 941257
 Kyushu-Palau Ridge, 590493
 lanthanum, 820497
 layers, 830388, 830397, 830529
 lead isotope, variations, 820497
 Lesser Antilles, 780006, 780025, 780042
 age, 780029
 morphology, 780027
 origin, 780025, 780027
 underthrusting, 780006, 780602
 Li, trace elements, 920491
 Line Islands, tectonics, 330740
 lipid, organic geochemistry, 640883
 lithology, 840804
 age, 210041
 Mid-Atlantic Ridge, 830458
 lithostratigraphic structure, 920572
 lithostratigraphy, 830443, 830479, 830524
 low-velocity layer, 920572
 magma, calc-alkaline
 bulk composition, 660701
 partial melting, 660702
 magma chamber, axial, formation, 540848
 magma, parental, convergence, 670580, 670583
 magma, primary, 511560
 magmatophile elements, 820497
 magnetic anomaly, 370336
 magnetic field, Costa Rica Rift, 690271
 magnetic models
 abyssal plain, 801141
 composition structure, 801142
 formation, 801142
 magnetic properties, 801142
 magnetic polarity reversal, 760914, 760939
 magnetic properties, 690711, 830217, 830356
 Layer, 2, 511363, 511370
 Pacific Ocean, 920528
 remanent magnetism, 511375
 magnetic stratigraphy, Mid-Atlantic Ridge, 460429
 magnetization profile, 510031
 major element, composition, 670558
 manganese, 801061
 carbonate, 801065
 mantle, source, 820475, 820497, 820499
 Maria Magdalena Rise, isochrons, 630921
 massive flows, 920572
 mechanical rebound, 830510
 dike, 830510
 Mendoza Rise
 basalt, 920537
 petrology, 920613
 metamorphic sediments, California, Gulf of, 650375
 Mexico, Gulf of, regional aspects, 010625
 Mid-Atlantic Ridge, 780027, 780839, 830460
 alteration, 511243, 511261
 basalt, 280876, 540598
 Costa Rica Ridge, 830458
 formation, 511359
 geophysical logging, 830458
 hydroxyl-mineral content, 830459, 830461
 lithology, 830458
 magnetic observations, 490807, 490808
 porosity, 830459
 temperature, 460389
 Mid-Atlantic Ridge E, age, 730539
 Mid-Pacific Mountains, 621074
 Middle America Trench, 840842, 840879
 age, 840951
 magma, calc-alkaline, 660699
 slope deposits, 670739
 structural framework, 660783
 mineral, magnetic, 830339
 mineral, secondary vein
 age, 830299, 830301
 deposition, 830299
 mineralogy, 330917, 650391, 830217
 actinolite, 670563
 minimum shale index, 830446
 models, temperature, 650354
 Montalvo Fracture Zone, isochrons, 630922
 Moroccan Basin
 evolution, 500803
 margin, 500809, 500814
 Nazca Plate, 920571
 neodymium, 820497
 niobium, 820497
 ¹⁸O, interstitial water, 830298
 oblique seismic experiment, 830517, 830852
 oceanic plateaus, 621073
 Oligocene-Quaternary biochronology, rotation, 850905
 ooze, foraminiferal nannofossil, 540312
 ooze, hydrothermal, green, 540312
 ooze, nannofossil foraminiferal, 540313
 organic geochemistry, Baja California, 640940
 oxygen isotope, geochemistry, 370617, 370618
 Pacific continental margin, geomorphology, 350285, 350286
 Pacific Ocean, 060011, 060012, 060557
 alteration, 340433
 composition, 160648
 plateaus, 620955, 620959, 621073
 Pacific Ocean E, tectonic and depositional history, 160938
 Pacific Ocean EC, permeability, 830429
 Pacific Ocean NE
 cruise synthesis, 460417, 460423
 regional aspects, 050635
 Pacific Ocean NW, basement, 200048
 Pacific Ocean SE
 geophysical measurements, 340175
 permeability, 920524
 Pacific Ocean SW
 Cenozoic, 300667, 300679
 island arcs, 300691, 300696, 300698, 300699, 300700
 regional evolution, 210900
 Western Marginal Basin Province, 210900
 Pacific Ocean W, guyot, 200653
 Pacific Plate
 margin, 840831
 stresses, 920519
 tectonics, 630951
 paleomagnetism, 690697
 igneous rocks, 450392
 Palmer Ridge, 941250, 941257
 palynological residue
 Guaymas Basin, 640751
 heat diffusion, 640754
 Pb isotope, variation, 820497, 820499
 permeability, 370358, 830419, 830423, 830429, 830434, 830472, 830473, 830486
 Costa Rica Rift, 690245, 830429
 geophysical logging, 830437, 830441
 heat transfer, 830440
 impedance, 830472
 Pacific Ocean EC, 830429
 porosity, 830438
 resistivity, 830438, 830440
 Peru-Chile Trench
 in situ stresses, 830511
 slab pull, 830513
 Peter I Island, geology, 350356
 petrologic development model, 460143
 petrology, 280920, 330917, 330918
 phenocryst redistribution, 511559
 Philippine Basin, genesis, 310859, 310862, 310868
 Philippine Sea S, petrology, 600896
 physical properties, 690687, 690693, 920599
 compressional velocity, 920542
 spreading ridge, 920542
 pillow lavas, 830165
 pillow size/depth, 920572
 plate tectonics, convergence, 670580, 670584
 plateaus, 621073
 Poisson's ratio, 830485, 830486, 830535
 porosity, 690685, 690686, 690687, 830367, 830412, 830419, 830423, 830438, 830444, 830445, 830446, 830473, 830485, 830519, 830532, 830534, 830537
 Costa Rica Rift, 830419, 830479
 fracture, 830419, 830423
 permeability, 830473
 seismic velocities, 830486
 porosity fracture, 830367
 power spectrum, 830451, 830465
 protokerogen, hydrothermal effects, 640905
 Pyrenean orogeny, 801153
 rare earth elements, 820497
 rate, 340433
 reactance, 830464
 Red Sea, 230913
 geology, 230817, 230818
 heat flow, 230913
 width and age, 230913
 reflectance, 920572
 regional geology
 acoustic basement, 801192
 regional gravity, geomagnetic patterns, 801191
 regional problems
 acoustic stratigraphy, 061303
 crust, 061301
 regional and secular variation, 511559
 regional summary, 220815
 regional tectonics, creation, 801153
 regulating factors, 340433
 remanence origin, 830347
 resistivity, 830444, 830485, 830532
 resistivity, electrical, 830419, 830444, 830486, 830488
 permeability, 830438, 830440
 porosity, 830532, 830785
 resonance, dike, sheeted, 830465
 Reykjanes Ridge, magnetic observations, 490807, 490808
 Rio Grande Gap, 720485
 Rio Grande Rise, 390957, 390964, 390966
 acoustic properties, 720577
 age, 390957, 390964, 390966
 Mesozoic, 721015
 regional setting, 390961

- Rivera Ridge, isochrons, 630921
 Rockall Plateau W, stratigraphy, 481062, 481063
 Rockall Rise, 810884, 810887, 810901, 810903
 Rockall Rise SW, structure, 481065, 481070, 481075, 481079, 481082, 481083, 481084
 Ross Sea, 280899, 280905
 salt, marginal layers, 390940
 sand, basaltic, origin, 460331, 460337
 Santos Plateau, 390929, 390943
 origin, 390929, 390940, 390944
 Sao Paulo Ridge, 390950
 sea floor spreading, history, 250663
 seamounts, ridges, volcanic origin, 330787
 seawater downflow, Atlantic Ocean NC, 820361
 seawater interaction
 circulation, 511169, 511170, 511171
 metal, alkali, 511169
 seawater alkali chemistry, crystal interactions, 511175
 second layer, 820470
 sediment, heat flow, 830388, 830405, 830415
 sediment composition, 920572
 seismic anisotropy, 830517, 830518, 830524, 830527
 seismic structure, 830217, 870754
 seismic velocity, 830367, 830394, 830397, 830424, 830438, 830441, 830517, 830519, 830521, 830525, 830529, 830532
 Costa Rica Rift, 690255
 layered structure, 830479, 830485
 porosity, 830486
 structure, 370390
 variations, 830397
 seismicity, 830396
 shear wave, 920572
 velocity, 830450, 830486, 830487, 830530, 830531, 830533, 830534
 Shikoku Basin, basalt, 580895, 580898, 580899
 Siqueiros Fracture Zone, 540081
 basalt, 540635
 Sm, 820497
 smectite, K, Fe
 celadonization, 540308
 glauconitization, 540308
 hydrothermal activity, 540308
 nontronite, 540308
 sonic velocity, 830444, 830447, 830480, 830485, 830486, 920571
 mineral, alteration, 830449
 resistivity, 830488
 South Fiji Basin, history, 300629, 300630
 Southeast Pacific Basin
 evolution, geologic, 350728
 sediment distribution, 350197, 350218, 350220
 southwest regional unconformities, New Guinea, 210900
 spreading rate, 760908
⁸⁶Sr/⁸⁷Sr ratio, alteration, 920502
 Sr isotope, variation, 820497
 Sr isotope ratio, 820499
 Stoneley energy, 830451, 830465
 stratigraphy
 acoustic basement, 481075
 magnetic anomaly, 481065, 481075
 northern rifted margin, 481065
 Reykjanes Ridge, 481070
 rifted continental margins, 481065
 rifting, 481075
 Rohan Seamount, 481065
 sea floor spreading, 481082, 481083, 481084
 shear demagnetization, 481065, 481075
 spreading, 481075
 transform boundary development, 481079
 transform fault, 481075
 triple point, 481070
 volcanism, 481075
 stress regime, 830496, 830510, 830513
 Costa Rica Rift, 830479
 strontium, carbonate, 801055
 structural evolution, tectonic history, 481062, 481063
 structural models, 830121, 830125, 830126
 structure, 830392, 830430, 830443, 830479, 830491, 830495, 830512, 830529, 830537
 Costa Rica Rift, 830479
 Japan Trench, 560463
 subduction, 560463, 870751
 Japan Trench, 560463, 870749, 870751, 870752, 870754
 subduction zone, Central America, 780405
 subhorizontal features, 830491
 subsidence, postrift, 801134
 sulfide, mineralization, 830263
 synthetic seismogram, density, 920571
 Tasman Basin S, borderland, 291143
 tectonic history, limestone, 430794
 tectonic rotation, 690702
 temperature
 Atlantic Ocean NC, 820361
 Mid-Atlantic Ridge, 460396
 Tethys, Mediterranean Sea, 42A0943, 42A0944
 thermal conductivity, 830486, 870741
 heat flow, 460389
 thermal contraction, 370358
 thermal recovery, 830388, 830405
 thermomagnetic properties, 690722
 tholeiite, 330915, 330917
 age, 330915, 330917
 genesis, 920449
 Ti, 820497
 titanium, origin, 330836
 trace elements, 820497
 carbonate, 801070
 transition zone, 830165
 Ulloa Fracture Zone, isochrons, 630922
 ultramafic rocks
 petrology, 450593
 physical properties, 370399
 underpressure, 830430
 Costa Rica Rift, 690245
 velocity, permeability, 920538
 velocity structure, 830529
 velocity-depth, 830521, 830524, 830525, 830532
 velocity-porosity, 830534, 830537
 Vema Fracture Zone, 390507
 basalt, 390507, 390509, 390511
 venting, 830465
 vicinity of active trench, mineralogy, 670561
 void spaces, rock, 920572
 voids, microcracks, 510676
 volcanic layer, 820509
 volcanic origin, 830444
 volcanic rocks, petrography
 Emperor Seamounts, 200700
 Mid-Pacific Mountains, 200691
 relative ages, 200691
 submergence, 200694, 200698
 volcanics, Cocos Plate, 670557
 width and age, evaporites, 230913
 Y, 820497
 Zr, 820497
 see also Layer
 crust, upper
 Bermuda Rise, oblique seismic experiment, 510676
 continental margin, structural evolution, 481045
 Goban Spur
 continental margin, 801122
 evolution, 801201
 Pacific Ocean E, crust, 540602
 Rockall Rise SW, structure, 481082
 stratigraphy, transform boundary development, 481082
 crystal fractionation, 42A0509, 42A0512, 42A0522, 460115, 460165, 490601, 490604, 490606, 490609, 490611, 490614, 490622, 690733, 690737
 basalt
 basement, 460124
 chemistry, 450459, 610675, 920473
 Costa Rica Rift Zone, 830155
 geochemistry, 490607, 490609, 490624, 490626, 490628, 490636, 550604
 glass, 540721
 isotope, 370599
 magma, 820513
 Mid-Atlantic Ridge, 820429, 820430, 820431
 midocean ridge, 820406, 820407, 820409, 820414, 820415, 820452, 820454, 820455
 petrochemistry, 450480
 petrology, 42A0512, 450468, 590675
 basalt, altered
 geochemistry, 540687, 580819
 major element, 580877, 580892
 petrology, 540687
 trace elements, 580877, 580892
 basalt, sparsely phryic
 discontinuity, 540624
 Mid-Atlantic Ridge, 540631
 petrology, 540628
 basement
 basalt, 42A0512, 42A0522, 490601, 490604, 490606, 490607, 490609, 490611, 490614, 490622, 490626, 490628
 chemical and magnetic stratigraphy, 450667, 450668
 chemistry, 600622
 geochemistry, 590747
 California, Gulf of, basalt, 650534, 650667
 clinopyroxene, 690737
 ferrobasalt, oceanic, 540835
 FAMOUS area, 540835
 Galapagos Fracture Zone, 540835
 Siqueiros Fracture Zone, 540835
 flow unit, 490601, 490604
 Galapagos Spreading Center, basalt, 540755
 geochemical variation, 810800
 geochemistry, 540765
 effect, 540764
 magma, 840618
 glass, 540709
 igneous rocks, geochemistry, 370678
 major element, 340243
 Mariana Islands, basement, 600615, 600619
 Mid-Atlantic Ridge
 basalt, 820421, 820423, 820424, 820425, 820427
 closed system, 490628
 open-system, 490636
 mineral chemistry, 450468
 mineralogy, 540765
 effect, 540764
 geochemistry, 600713, 600720
 ocean basin, petrology, 42A0512
 olivine, 460165, 690733, 690737
 petrology, 540747
 basement, 42A0512
 phenocryst, modes, sizes, 540654
 plagioclase, 460166, 490611
 rare earth, 370599
 Rockall Plateau, basalt, 810804

- Siqueiros Fracture Zone, basalt, 540717
 spinel, 690733, 690737
 Suiko Seamount, trace elements, 550561, 550565, 550567, 550568
 tholeiite
 geochemistry, 590685, 590687
 magmatism, 540711
 petrology, 42A0512, 590685, 590687
 volcanics
 fore arc, 600722
 sea floor, 540819
 Walvis Ridge, 390527
 basalt, 740743
 whole rock chemistry, 370725
 crystal nucleation
 basalt, sparsely phyrlic, 540618
 Mid-Atlantic Ridge, 540631
 chert
 diagenesis, 170398
 Pacific Ocean E, 160611
 silica, diagenesis, 170398
 crystallization, basalt, sparsely phyrlic, 540624
 crystallinity, 200343
 Alboran Basin W, clay minerals, 130670, 130671
 basalt, 540861
 basalt, altered, geochemistry, 540673
 basalt, sparsely phyrlic, tholeiite, aphyric
 olivine-poor, 540619
 basalt, tholeiitic, crystal morphology change, 600681
 boninite, crystal, 600681
 clay minerals
 Japan Trench, 870635
 Tertiary, 291081
 cristobalite, 200343
 diagenesis
 goethite, 920349
 slope sediments, 840588
 Galapagos Islands, hydrothermal field, 540812
 Indian Ocean C, noncarbonate sediment, 220497
 Mariana Trough, basalt, 600602
 mineralogy
 goethite, 920349
 mineral, secondary, 600718
 minerals, chemical composition, 600462
 petrology, East Pacific Rise, 540637
 quartz, 200343
 rare earth elements, geochemistry, 600739
 RSO fraction
 goethite, 920347
 index, 920347
 silica, opaline, transformation, 480758
 Siqueiros Fracture Zone, basalt, 540605
 smectite, 590598
 West Mariana Basin, smectite, 590599, 590602
 crystallinity index
 clay minerals, 680384
 diagenesis, goethite, 920349
 crystallite
 Cenozoic sediments, lithology, mineralogy, geochemistry, 450326
 chert, geochemistry, 620711
 clay, 960580
 Costa Rica Rift
 chalk, 690395, 690399
 siliceous rocks, 690424
 lithology, pyrite, 070056
 matrix, 070056
 pyrite, framboidal, 750878
 pyrite, microcrystalline, ooze, nannofossil, 260604
 sediment-interstitial water interaction, silica, 571273
 silica, diagenesis, 410890, 410891, 410893
 crystallization, 110873, 110874, 180935, 180936, 180938, 180940, 180942, 210523, 210524, 210530, 230870, 260481, 270551, 270552, 270553, 340263, 340270, 411103, 411107, 411113, 450423, 450426, 450437, 450461, 460215, 460227, 460235, 460259, 460271, 460283, 460341, 480760, 511493, 820487
 ash, 38S0102
 Atlantic continental margin, mineralogy, 110773
 Atlantic Ocean
 geochemistry, 47B0438
 mineralogy, 47B0438
 Atlantic Ocean W, 511039
 augite, 270553
 Baja California Seamount Province, basalt, 630716, 630718
 basalt, 110873, 110874, 110876, 411107, 411113, 460215, 460220, 460228, 460231, 460232, 460259, 460260, 460262, 820472, 820475
 California, Gulf of, 650580, 650581, 650586
 chemistry, 340194, 920478
 clinopyroxene, calcic, 820472
 cooling unit, 460262
 Costa Rica Rift Zone, 830160, 830204
 crystal morphology, 460260
 emplacement mode, 460260
 Fe-Ti oxide, 550649
 geochemistry, 590765, 590768, 590778
 geochronology, 411113, 411115, 411116
 glass, 600604, 820512
 history, 920464, 920465, 920466, 920467, 920468
 K/Ar age, 590729, 590730
 magma, 650549
 magnetite, 110873, 110874, 110876
 major element, 460259
 Melanesian Basin, 610697
 melting, 690737, 690740, 690743
 microphenocryst, 110875
 Middle America Trench, 670577, 670578
 midocean ridge, 820413, 820415, 820452
 mineral chemistry, 550608, 550615, 550617, 550623, 550627, 550631, 550632
 mineral composition, 460260
 mineral, opaque, 511433
 mineral, secondary, 340425
 mineralogy, 540695, 540701
 olivine, 411107, 460217, 460221
 petrochemistry, 450481
 petrography, 270552, 270553, 340216, 42A0516, 460259, 460279, 540695, 540701, 670577, 670578
 petrology, 160621, 160633, 160639, 180935, 180936, 180937, 180939, 180941, 180943, 260481, 340194, 340216, 390547, 450461, 450464, 450465, 450466, 450470, 450471, 540751, 540753, 580845, 580846, 580848, 580854, 580861, 590676, 590677
 phenocryst, 110874
 pillow, 411107, 460259, 460262, 460263, 460271, 460278, 460279, 460280
 plagioclase, 110873, 110874, 411107, 460217
 proportions, 460217
 pyroxene, 110873, 110874, 460263, 590696, 590699, 590700, 590701, 590702, 590705
 pyroxene-plagioclase, 110874, 110876
 Santos Plateau, 390514
 sea floor, 830204
 sill-pillow complex, 610677
 spinel, 460217
 theoretical factors, 460262
 volatiles, 460263
 basalt, alkali andesine, 180943
 crystal, 180943
 microlite, 180943
 microphenocryst, 180943
 basalt, alkalic, 830162
 basalt, altered
 crystal morphology change, 600702
 geochemistry, 540673, 580792, 580802
 petrochemistry, 580792, 580802
 basalt, aphyric, 450471
 olivine, 450469
 plagioclase, 450469
 basalt, augite-plagioclase, 450423, 450461, 450471
 glass, 450426
 olivine, 450426, 450461, 450469, 450471
 plagioclase, 450423, 450425, 450461, 450469, 450471
 sequence, 450426
 variolite, 450423
 basalt, oceanic, 610637
 oxygen fugacity, 610637
 petrochemistry, 610641, 610643
 temperature, 610637
 basalt, phyrlic, 450426, 450428, 450441, 650636
 An-rich plagioclase contamination, 650641
 clinopyroxene, 450430, 450432
 cooling, 450444
 eruption, 450444
 evolution, 450442
 magma chamber, 650641
 olivine, 450430, 450432, 450437, 650636, 650641
 phenocryst growth stages, 450434, 450444
 pillow, 460271, 460278, 460279, 460280
 plagioclase, 450428, 450435, 650637, 650638, 650639, 650641
 basalt, porphyritic, 450462, 450471
 clinopyroxene, 450465, 450469, 450471, 450569
 olivine, 450464, 450469, 450471
 plagioclase, 450463, 450469, 450471
 pyroxene, 450466
 spinel, 450463, 450464, 450469, 450471
 basalt, sparsely phyrlic
 crystal morphologies, 540624
 petrology, 540629
 basement, 110873, 110874, 110876
 basalt, 260481, 390509, 390514, 411103, 42A0516, 460227, 460228, 460231, 460232
 drilling difficulties, 600685, 600688
 geochemistry, 590747, 600654
 magnetite, 110873, 110874, 110876
 microphenocryst, 110875
 petrography, 270552, 270553, 600654
 petrology, 220416, 220418, 220422, 220423, 220425, 220427
 phenocryst, 110874
 plagioclase, 110873, 110874
 pyroxene, 110873, 110874
 pyroxene-plagioclase, 110874, 110876
 stratigraphy, 450668
 Bermuda Rise, mineral composition, 511039, 511040, 511041, 511042, 511043, 511044, 511045, 511046, 511047
 boninite
 geothermometry, 600695
 kinetic controls, 600698, 600700, 600701, 600702
 mineralogy, 600694
 boninite, nonglassy
 clinopyroxene, 600698

- boninite (Cont.)
 equilibrium temperature, 600698
 plagioclase, 600698
 zones, 600698
 Brazil Basin, basement, 390514, 390517, 390518
 bulk-rock compositions, 540639
 calcareous microfossil, composition differences, 850815
 California, Gulf of, basalt, 640649, 640656, 640657, 640658, 640660, 640662, 650530, 650534, 650635, 650664
 carbonate, Jurassic, 790417, 790419
 carbonate, diagenetic, isotopic survey, 630597
 chalk, calcite, hydrogarnet, 260598
 chemistry, K/Ar age, 550688
 chert, Pacific Ocean W, 070994, 070999
 clay minerals, 38S0029
 claystone, basalt, 550709
 clinopyroxene, 270552, 270553, 460262, 540663, 540664, 540665
 cooling unit, 460259
 pyroxene, 460263
 theory, 460262
 volatiles, 460263
 Costa Rica Rift, chalk, 690407
 crust, oceanic
 hygro-magmatophile (HYG) elements, 650623
 Vema Fracture Zone, 390509
 crystal, 180935, 180937, 180939
 crystal morphology, 600683
 boninite, 600706
 pyroxene, 600706
 temperature, 600684
 crystallization, fractional, melting, partial, 370545
 diabase, olivine, 411104
 diagenesis
 aspects, 901487
 Ita Mai Tai oolite, 200367
 mineral, 47A0751
 differentiation, gravitational, 340194
 basement, 260481
 chemistry, 340194
 dolerite, 450437, 540665
 clay minerals, 630713, 630714
 Cretaceous, 450437, 450439, 450441, 450519, 450520, 450521, 450522, 450523, 450525, 450529
 glomerocryst, 450441
 hyalobasalt, 630714
 megacryst, 450439
 phenocryst, 450439
 pigeonite, 540665
 dolomite, 230870
 petrography, 230870
 East Pacific Rise, basalt, 920463
 Emperor Seamounts
 petrology, 550534, 550571, 550577, 550580, 550581, 550582, 550583, 550584
 trace elements, 550587
 feldspar, crystals, 210524
 ferrobasalt, MAR, 540846, 540847
 flow
 basalt, 411107
 rhyolite, 210523, 210524, 210530
 gabbro, mineralogy, 600590
 gabbro-diabase, 411103
 garnet, metasomatic, hydrogarnet, 260598
 gas hydrate, 670591
 geochemistry, 160639, 650536
 basalt, 160621, 380720
 geologic setting, 160621
 late-stage, 160633
 magma, 540641
 manganese, 810715
 sequence, 650535
 zeolite, 810715
 geochronology, 411113
 eruption, 411116
 incremental heating, 411115, 411116
 glass, 210525
 basalt, 460271, 460274, 460278, 460280
 droplets, 460284, 460285
 glass, perlitic, 210524, 210525, 210530
 glassy groundmass, 210525
 glomerocryst, 180935
 Guadalupe Island, alteration, 630714
 Guatemala, trench, 670525
 Hess Rise N, sedimentary sequences, 620767
 hyaloclastite, 460342, 460343
 hydrothermal deposits, Galapagos Spreading Center, 700236
 hydrothermal sediment, composition, 920608
 igneous rocks, 840948
 Indian Ocean NE, Cretaceous, 220733
 interstitial water, isotopes, 130793
 isotopic composition, Messinian sediments, 42A0640, 42A0647
 Jingu Seamount, volcanics, 550688
 K/Ar age, celadonite, 920511
 kinetics theory, 460279
 lithology, 250266, 290230, 290231, 38S0029, 480179
 basalt, 270020
 evaporites, 130425
 Lord Howe Rise, rhyolite, 210525
 magma
 equilibrium, 820472
 evolution, 540645
 melting, 690737, 690740
 tholeiite, 460235, 460236
 magma, calc-alkaline, low-potassic phase, 660702
 magma chamber, olivine, 650624
 magnetic oxides, petrology, 511425
 magnetite, 110873, 110874, 110876, 270552, 270553
 manganese nodule, *in situ*, 510772
 mantle, upper, trace elements, 460251
 Mariana Islands, fore arc, 600659
 Mariana Trough
 gabbro, 600579
 tholeiite, 600658
 Mediterranean Ridge, sulfate mineral, 130793
 Mediterranean Sea, 110814
 Meiji Guyot, K/Ar age, 550680
 Melanesian Basin, ash, 610639
 melting, 820470
 tholeiite, olivine, 450514, 450515
 melting, partial, 460251
 experiments, 600732, 600733
 Mendoza Rise
 basalt, 920462
 lithology, 920438
 microfault plane, 511493
 microlite, 180935, 180937, 180939
 microphenocryst, 110875, 180935, 180937, 180939
 Mid-Atlantic Ridge, basalt, 450495, 450496, 450499, 460271
 Mid-Pacific Mountains W, Aptian sediments, 620908
 mineral chemistry, 450470, 450471
 basalt, aphyric, 450461
 basalt, porphyritic, 450464, 450465, 450466
 spinel, 630690
 mineral, secondary, elemental composition, 920511
 mineralogy, 540752
 clinopyroxene, 540743, 540761, 540762
 geochemistry, 600714, 600716, 600720
 olivine, 540760
 plagioclase, 800942
 primary mineralogy, 600711
 primary textures, 600717
 ocean basin, petrography, 42A0516
 olivine, 270552, 270553, 411107, 460235, 460262, 460271, 460273, 460274, 460280, 690737
 basalt, 460259, 460262
 chemical composition, 460236
 kinetics theory, 460278
 liquidus phase relations, 460235
 one-atmosphere phase relations, 450468, 450469
 cooling, 450469
 ore, deposit, 540803
 oxygen isotope, geochemistry, 370604
 Pacific Ocean SE, clay-sized minerals, 350484, 350487
 Patton Escarpment, alteration, 630713, 630714
 peridotite, spinel, 370887
 peridotite-gabbro-basalt, mineral analyses, 370849
 petrogenesis, modeling, 920441, 920442, 920443, 920444, 920445, 920446
 petrography
 gabbro, 600582
 gabbro, spinel-bearing, 600583
 temperature, 600732
 petrology, 180935, 180936, 180937, 180939, 180941, 180943, 38S0102, 540747, 540796
 igneous rocks, 270552, 270553, 38S0102
 magma, 540794
 Siqueiros Fracture Zone, 540638
 sulfide, 540801
 phenocryst, 110874, 180936, 180937, 180939
 clinopyroxene, 540656
 water influence, phenocryst compositions, 540657, 540662
 pillow lava
 age, 411113
 basalt, 411107
 plagioclase, 110873, 110874, 270552, 270553, 340216, 340266, 340270, 460235, 460271, 690737
 basalt, 460262
 chemical composition, 460236
 cooling unit, 460259
 kinetics theory, 460278
 liquidus phase relations, 460235
 sequence, 340199, 340200
 pyroxene, 110873, 110874, 270552, 270553, 340269
 pyroxene-plagioclase, 110874, 110876
 quartz, 210523, 210525
 crystals, 210524
 rhyolite, 210523, 210524, 210530
 Rio Grande Rise, sediment, 720428
 Rockall Plateau, concretion, fossil
 polycrystalline, 810704
 Santos Plateau, basalt, 390514, 390517, 390518
 sediment, 700337
 shear strength, porosity, 870839
 Shikoku Basin, basalt, 580895, 580898
 silica, diagenesis, 410894
 silica, opaline, transformation, 480760
 sill, petrography, 270552, 270553
 Siqueiros Fracture Zone
 basalt, 540607, 540652, 540718
 basalt, porphyritic, 540608, 540611, 540613, 540615
 smectite, 270552

- Southeast Pacific Basin, evolution, geologic, 350734
 spinel, 460217, 830160
 stable isotope, carbonate, 650382, 650383, 650384
 sulfate, interstitial water, 130793
 sulfide, 460271
 sulfur, basalt, 370561
 tetrapyrrole, diagenetic, pigment, 410836
 tholeiite, 180941, 411104, 460235
 chemistry, 260481
 crystal, 180941
 liquidus phase relations, 460235
 microphenocryst, 180941
 olivine, 460236
 plagioclase, 460236
 titanomagnetite, 600705
 titanomagnetite, 460271, 460274, 460280, 690720, 830339, 830345
 kinetics theory, 460278
 petrography, 340349
 trace elements
 ferromagnesian mineral, 660732
 geochemistry, 650624
 trachybasalt, 411104
 Valencia Trough, sulfate mineral, 130793
 Vema Fracture Zone, 390507
 olivine, 390507, 390509
 plagioclase, 390509
 vesicle, segregation, 460283
 volcanic rocks, ages, 550665, 550668
 volcanics, 210523, 210524, 210530
 petrology, 180935
 Walvis Ridge, 390527
 tuff, 390527
 X-ray diffraction analysis result, degree, 920492
 xenocrysts, 180937
 zeolite, 220733
 zoning, spinel, 370887
 crystallization, closed-system
 basalt, geochemistry, 920450
 California, Gulf of, basalt, 650663, 650664
 D/H ratio, mineral isotopes, 460253
 lithology, 100316
 Mid-Atlantic Ridge, basalt, 460253
 stable isotope, carbonate, 650384
 crystallization, cotectic
 basalt, petrology, 590676, 590679
 basalt, altered, crystal morphology change, 600702
 basalt, sparsely phryic
 crystal morphologies, 540624
 petrology, 540628
 tholeiite, aphyric olivine-poor, 540619
 major element, 650570
 mineralogy, clinopyroxene, 540762
 trace elements, 650570
 crystallization, eutectic, basalt, altered, crystal morphology change, 600702
 crystallization, fractional, 340224, 340293, 460115, 460283
 alteration, bulk chemical changes, 650649, 650651
 Atlantic Ocean, 370539, 450493
 melting, partial, 370539
 augite, 340224
 Azores, mantle, 370595
 basalt, 450493, 540063, 540065, 670567, 690770, 820471
 basement, 460124
 California, Gulf of, 640649
 chemistry, 450458, 460124, 460127
 Costa Rica Rift Zone, 830161, 830201, 830202
 geochemistry, 540768, 590775, 590776, 590777, 590779, 590783, 590784, 590786, 590794, 590795
 glass, 650554
 liquid variation, 650556
 mantle, 820489
 midocean ridge, 820417
 mineralogy, 540768
 petrography, 920469
 petrology, 460124, 460127, 540753, 580856, 580859, 580860, 580861, 580862
 pyroxene, 590702
 rare earth, 370581, 370582
 whole-rock fused bead data, 650555
 yttrium, 370567, 370568
 basalt, altered
 geochemistry, 540689, 540690, 540691, 580806, 580812, 580817, 580819, 580823, 580824, 580831, 580836, 580837
 major element, 580885
 petrology, 540689, 540690, 540691
 trace elements, 580885
 basalt, oceanic, 460283
 glass, 460283, 460284, 460286
 vesicle, 460283, 460284, 460286
 basement, 460124
 basement, volcanic, 460124
 bulk-rock compositions, 540639
 minor element, 540619, 540639
 California, Gulf of
 basalt, 640649, 650632
 Guaymas Basin, 650614, 650615
 magma, 650632
 clinopyroxene, 340224
 crust, oceanic, hygromagmatophile (HYG) elements, 650624
 Emperor Seamounts
 petrology, 550572
 trace elements, 550586
 FAMOUS area, basalt, 460124
 ferrobassalt, 820404
 gabbro, mineralogy, 600589, 600590
 geochemical variation, single magmatic parent, 810797
 geochemistry, 540640
 closed system, 540766
 magma, 540641
 glass, heterogeneity, 630736
 igneous rocks, geochemistry, 370653, 370654, 370656, 370664, 370675
 large ion lithophile elements (LIL)
 basalt, 340224
 depletion, 340224
 least-altered rocks, chemistry, 630736
 magma, 370654, 370656, 370675, 690759, 690761
 closed system, 690759, 690760
 evolution, 540645
 open-system, 690760
 major element, 650560, 650564, 650570
 characteristics, 920438
 mantle, upper, trace elements, 460247, 460248, 460249, 460250, 460251
 melting, tholeiite, olivine, 450516
 melting, partial
 Atlantic Ocean, 370539
 experiments, 600733
 first transition series elements, 370539, 370540, 370541, 370542, 370543, 370545, 370546
 mineral, secondary
 East Pacific Rise, 650647
 Tamayo Fracture Zone, 650647
 mineralogy, closed system, 540766
 minor element
 East Pacific Rise, 650601, 650602, 650609, 650614
 Tamayo Fracture Zone, 650601, 650602
 olivine, 340224
 petrogenesis, modeling, 920442, 920443, 920444
 petrology, effect, 740755
 plagioclase, 340224
 Suiko Seamount, trace elements, 550564
 tholeiite
 evolution, 630695
 genesis, 920447
 trace elements, 370581, 370582, 460247, 650566, 650570, 660732
 classification, 370567
 derived liquids, 810788
 East Pacific Rise, 650601, 650602, 650609, 650614
 geochemistry, 370574, 370575
 Goban Spur, 800943
 strontium, 370568
 Tamayo Fracture Zone, 650601, 650602
 uranium, distribution, 370547
 Walvis Ridge
 basalt, 740753, 740755
 history, 740884
 crystallization, high-pressure, basalt, mineral chemistry, 550631
 crystallization, liquid, trace elements, basalt, 660732
 crystallization, low-pressure
 basalt, geochemistry, 590778
 mineral, primary, olivine, 810786
 crystals, 180935, 180938, 180940, 180941, 180942, 210523, 210530, 270552, 291103, 291117
 andesite, 180936
 hypersthene, 180937
 plagioclase, 180937
 pyroxene, 180937
 apatite, 180943
 augite, 180943, 270552
 basalt
 chrome spinel, 690805, 690807
 mineralogy, 540700
 petrography, 540700
 petrology, 580857
 basalt, sparsely phryic
 glass, 540618
 olivine, 540618
 California, Gulf of, basalt, 650530
 chlorite, 291118
 dolerite, pyroxene, 630715
 East Pacific Rise, lithology, 920438
 feldspar, 210524, 210535
 glass, 180935
 augite, 180935
 olivine, 180935
 plagioclase, 180935
 Guadalupe Island, alteration, 630715
 lithology, basalt, 670558
 Mendoza Rise, lithology, 920438
 muscovite, 291118
 olivine, 180941, 270552
 Peter I Island, geology, 350347
 petrography, phenocryst, 540652
 petrology, chromium, 540801
 plagioclase, 180939, 180941, 180943, 270552
 pyroxene, 180939, 180941, 291104
 quartz, 210524, 291103
 Shikoku Basin, basalt, 580899
 Siqueiros Fracture Zone, basalt, porphyritic, 540608, 540611
 spherule, 210530
 Cu
 abyssal plain, inorganic geochemistry, 801074
 alteration minerals, trace elements, 920496

- Brazil Basin, geochemistry, 720421, 720422
 Cocos Plate, geochemistry, 660683
 continental margin, inorganic geochemistry, 801073
 Costa Rica Rift Zone
 basalt, 830258
 stockwork-like zone, 830271
 crust, oceanic, Costa Rica Rift Zone, 830185, 830190, 830195, 930194
 geochemical component grouping, 801074
 geochemistry, 660683, 720429, 720431
 Zn, 720430
 Goban Spur, evolution, 801209
 inorganic geochemistry, 801079
 Porcupine Plain, 801197
 Rio Grande Rise, sediment, 720425
 volcanics, 190634
see also copper
 Cu sulfide
 Costa Rica Rift Zone, 830195
 basalt, 830258
 Cu-Fe sulfide, Bermuda Rise, sulfur isotope, 511147
 Cu/Ni ratio
 Galapagos Spreading center, basal sediments, origin, 540382
 glass, sulfide, 511076
 Cuajiniquil, 840841
 Cuanza Basin, continental shelf, onshore geology, 400965, 400967, 400968, 400970, 400972, 400973, 400975
 Cuanza River, continental shelf, onshore geology, 400970
 Cuba, 010232, 100297, 110222, 110563, 110616, 110882, 150773, 440007, 440069, 440104, 440202, 440337, 440413, 720738, 730459, 760142, 760234, 760565, 760831, 760931, 770005, 770044, 770343, 770392, 770715, 770717, 770723, 770725, 770726, 770727, 770728, 770730, 770731, 770733, 770734, 780096, 790653, 920360, 950360
 barrier reef, 110893
 Blake Basin, 440202
 Great Abaco Canyon, 440203
 Blake Spur, 440007, 440337
 north rim, 440069, 440104
 Cretaceous foraminifers, Cretaceous reef complex, 440663
 diagenesis, evaporite province, 020422
 Jurassic, nannofossils, calcareous, 440767
 limestone, shallow water, 440413
 Moroccan Basin, margin, 500812
 north coast, 110884
 northern, 110883
 sedimentary environments, 440978
 volcanic activity, 770050
see also Bahama Islands
 Cuba N, 660419, 820581, 960288
 diapir, Punta Alegre, 790523
 Cuba Salt Basin, 010456, 100683
 Cuba-Bahama Evaporite Province, 020422
 Cubagua, 040597, 040598, 131349, 150554
 cubanite
 basalt, mineral, opaque, 511434, 511435
 Bermuda Rise, sulfur isotope, 511145
 Cuche Formation, 110570
 Cuchou Section
 Atlantic continental margin NW, evolution, 440955
 Mesozoic evolution, 440958
 Tethys N, margin, 440955
 Cuillin Hills, Isle of Skye, mineralogy, gabbro, olivine, 600586
 Cuisa fault, 151046
 Culiacan, 640574
 Cumana Formation, 040597, 040598, 040599
 cumulate
 Azores, mantle, 370594
 basalt, geochemistry, 590778, 590779
 basement, petrology, 370695, 370702
 gabbro, phase chemistry, 370844
 geochemistry
 igneous rocks, 370741, 370747, 370749
 mineralogical, geochemical relationships, 370702
 petrology chemistry, 370695
 igneous rocks, geochemistry, 370656, 370663, 370672, 370675, 370678
 Mariana Trough, 600614
 mineralogy, olivine, 540760
 peridotite, phase chemistry, 370844
 petrology, chromium, 540801
 cumulate, olivine
 basalt, geochemistry, 590774
 basement, petrology, 370703
 geochemistry
 FAMOUS area, 370703
 igneous rocks, 370736
 igneous rocks, geochemistry, 370660
 cumulate, plagioclase, 370844
 basement, petrology, 370696
 geochemistry, 370696
 igneous rocks, 370737, 370743
 igneous rocks, geochemistry, 370661, 370675
 cumulus
 basalt, geochemistry, 590772
 basalt, altered, geochemistry, 580810, 580817, 580822, 580824, 580831, 580833, 580836
 ferrobasalt, MAR, 540846
 ore, deposit, 540803
 petrography
 gabbro, amphibole, 600582
 layering, 600581
 petrology, 810796
 trace elements, geochemistry, 370575
 cumulus dunite, Siqueiros Fracture Zone, basalt, porphyritic, 540618
 Cumuruxatiba, 750472, 750475
 Cunene River, 400965, 400968, 750765, 750766
 continental shelf, onshore geology, 400965, 400967, 400968, 400970, 400971, 400973, 400975
 Curacao, 150034, 150973, 150994, 151002, 680017, 690034
 Curacao Ridge, 151058
 current, *see also* bottom current; boundary current; contour current
 current bedding, 110109, 110110, 110909, 110912
 Atlantic Ocean NC, Mesozoic sequences, 410993
 Atlantic Ocean NW, lithology, 110909, 110912
 limestone, 130339
 lithology, 110110
 Callovian (-) Oxfordian, 110079
 marl, dolomitic, 130339
 Neocomian, 110109
 ooze, dolomitic, 130339
 Oxfordian-Kimmeridgian, 110079
 sandstone, 130155
 current, deep-water, East Pacific Rise, sediments, 920371
 current, equatorial, 160050
 depositional paleoenvironment, 250499
 Hess Rise, post-Jurassic sedimentation, 620829
 lithology, 160050
 Pacific Ocean NW, geochemical history, 620801
 sedimentary evolution, Eocene, 430817
 current, geostrophic
 Atlantic Ocean NW, microfacies, 440489
 continental shelf, onshore geology, 400974
 Indian Ocean E, abyssal plain sediment, 271017
 lithology, ooze, marl, 130064
 current, high-energy, detrital to biogenic sediment trends, Eocene, 291075
 current lamination
 lithology
 basalt, 170059
 limestone, 170055
 volcanic sediment, 170055
 Mediterranean Sea, 110812
 current, low-energy, Atlantic Ocean NW, microfacies, 440491
 current ripples, 38S0225, 411131
 Africa NW, continental margin, 411131
 cross-lamination, 500129
 deposition, bottom water, 250500
 Greenland Sea, turbidites, 38S0225
 lamination, 130159, 42A0240, 47B0038, 47B0046, 47B0047, 47B0054
 lamination, convolute, 130155
 lithology, 410428, 410435
 Cenozoic deposits, 47B0046, 47B0047
 cross-lamination, 500129
 Norwegian Sea
 Greenland Sea, 38S0262
 turbidites, 38S0225
 red beds, sedimentary structure, 38S0262
 transport, bedding, graded, 230486
 current scouring
 Coral Sea E, geology, 300657
 deposition, bottom water, 250500
 Indian Ocean W
 lithology, 250740
 regional aspects, 250754
 Pacific Ocean SW, island arcs, 300693
 current shear, 47B0042, 47B0046
 current structures, 310198, 410435
 lithology, 410435
 Cenozoic deposits, 47B0046
 current system, global, Atlantic Ocean S, Paleogene, 720983
 current, thermohaline
 Al-Jadida, continental margin, 790916
 Atlantic Ocean, circulation, 720977
 Atlantic Ocean NE, climate, 800805
 Atlantic Ocean S
 Cretaceous, 720981
 hiatuses, 391099
 Paleogene, 720983, 720984, 720985
 Morocco, continental margin, 790916
 Northern Hemisphere, glaciation, 720988
 Quaternary, 720991
 current, tidal, 300238
 lithology, ooze, nannofossil foraminiferal, 300236
 ooze, calcareous, 300434
 current, traction
 glacial sedimentation, 280760, 280761, 280762, 280765
 lithology, 280216
 stratification, 960517
 turbidites, deposition, 250454
 current winnowing
 Atlantic Ocean
 Cenozoic sediments, 140798
 Cretaceous sediment, 140798
 carbonate, stratigraphy, 901214, 901215
 coarse fraction variation, 901211
 lithology, 270199, 360262, 410030, 410239, 510046, 510362
 sedimentary structure, 47A0029
 cutinite
 maceral, 870880

- Mazagan Escarpment, 790782
Cuvier Abyssal Plain. *See* Cuvier Plain
Cuvier Plain, 270279, 270292, 270339, 270341, 270380, 270561, 270582, 270585, 270707, 270983, 271001, 271050, 271051, 390905, 411002
Australia W, continental margin, 270581, 270582, 270583
basement, 270561
geophysical, 270339, 270341, 270380
mineral, heavy, 270524
actinolite, 270524
apatite, 270524
chlorite, 270524
epidote, 270524
garnet, 270524
hornblende, 270524
kyanite, 270524
monazite, 270524
nonopaques, 270525
opaques, 270524
pyroxene, 270524
sphene, 270524
tourmaline, 270524, 270525
zircon, 270524
plateaus, 390907
regional unconformity, 270561
sediments, age, 270561
seismic reflection, 270561
tectonics, geological and geophysical data, 271050
unconformity, regional, 270561
see also Indian Ocean E
Cuvier Plateau, 390907
cyanide, Cretaceous/Tertiary boundary, 730759
cyanobacterial crust
Jurassic-Cretaceous, carbonate, 790881
limestone, Jurassic, 790453
cycloalkane
hydrocarbon, 241165
low molecular weight, 711034
hydrocarbon, C₁-C₈
Baja California, 630781
Guaymas Basin, 640769
kerogen, 241165
Mexico, Gulf of, nonvolatile organic matter, 960748
preliminary organic analyses, 111016
Walvis Ridge, sediments, 751058
cyclohexane
Cape Bojador, hydrocarbon, extractable, 47A0515
carbon, geochemistry, 430654
carbon, organic, 220671
hydrocarbon
gasoline range, 220671
low molecular weight, 711034
hydrocarbon, C₁-C₇, volatile organic compounds, 571353
organic petrology, hydrocarbon, 47A0515
cyclopentane
hydrocarbon, 220675
hydrocarbon, C₁-C₈
Guaymas Basin, 640770
lithology change, 640778
kerogen, 220675
Cyprus
alteration, products, 810736
biostratigraphy
correlation, land sections, 42A1140
Mediterranean Sea, 42A1139
claystone, Cretaceous, 561134
evaporites, 42B1185
Mediterranean Sea, 42B1185
Miocene-Pliocene stratigraphy, 42B1186, 42B1188, 42B1189, 42B1191
Miocene-Pliocene tectonic history, 42B1192
paleontology, 42B1191, 42B1192
geochemistry, Rockall Plateau, 810736
geologic features, 42B1186
history, Miocene-Pliocene tectonic, 42B11920
Israel, history, 42B1210
lithostratigraphy
correlation, land sections, 42A1140
Mediterranean Sea, 42A1139
Mamonia Complex, 760875, 760876
massive units, 830124
Messinian environments, Lago Mare, 42A1019, 42A1020, 42A1021, 42A1022, 42A1023, 42A1024
Neogene formations, paleogeography, 42A0903, 42A0906, 42A0908, 42A0918, 42A0920, 42A0921
ophiolite, 830124, 830125, 830126
ore, deposit, 540802
Rio Grande Rise N, regional setting, 250697
Tethys, Mediterranean Sea, 42A0944
Cyprus Arc, 42A0005, 42A0411, 42A0903, 42A0906, 42A0969
deformation, tectonic, 42A1058
Neogene formations, paleogeography, 42A0903, 42A0906, 42A0920
structural history, 42A0969
tectonic history, 42A0903
Cyprus N
Neogene formations, 42A0903
paleogeography, 42A0908, 42A0910, 42A0912, 42A0913, 42A0921
structures, 42A0903
Cyrenaica, 131245, 131246, 131248
Mediterranean Sea, sea level, 131249
Mediterranean Sea E, history, 42B1217
platform, 131247
Czechoslovakia, 390657, 42B0910, 620782
Manin Group, 390658