

L

- La
minor element, geochemistry, 360934
see also lanthanum
- La Albueria, Spain, 131363
- La Desirade Fracture Zone, 780051
- La Desirade Island, 780083
- chert, 780089
- geologic structure, 780089
- origin, 780085, 780089
- trondhjemite, 780084, 780089, 780093
- La Guajira, 040597, 110611, 670754
- La Jolla, 930095, 930283
- fan valley, 130739
- La Libertad, 690034
- La Palma, 430853
- La Paz, 641085, 641107, 641287, 650375
- La Paz Fault System, 640035, 641090, 641292
- La Perouse Pinnacles, 550023
- volcanic rocks, ages, 550670, 550674
- La Pisso section
- Atlantic continental margin NW, evolution, 440956
- Tethys N, margin, 440956
- La Sabana, 040597
- La Soufrière, eruption, 780086
- La/Ce ratio
- Atlantic Ocean S, history, 740724
- basalt
- Costa Rica Rift Zone, 830155
 - FAMOUS area, 820427
 - Mid-Atlantic Ridge, 820427, 820428, 820430, 820431
- La/Eu ratio, basement, geochemistry, 590750
- La/Hf ratio
- basalt, midocean ridge, 820453
 - Suiko Seamount, trace elements, 550567
- La/Lu ratio, tholeiite, geochemistry, 590687
- La/Nb ratio
- basalt, Costa Rica Rift Zone, 830155
 - California, Gulf of, Guaymas Basin, 650619
- La/Sm ratio, 820484, 820490
- basalt, 820474, 820475
 - chemistry, 450457, 540679, 540681
 - Costa Rica Rift Zone, 830155
 - geochemistry, 430734, 460111, 490625, 550604
 - Mid-Atlantic Ridge, 820427, 820428, 820430, 820501
 - midocean ridge, 820417, 820418, 820452, 820453, 820454, 820457, 820459, 820460
 - petrology, 460111
 - rare earth, 370581, 370582
 - basalt, altered
 - major element, 580891
 - trace elements, 580891
 - basement, stratigraphy, 450668
 - California, Gulf of, Guaymas Basin, 650616, 650618
 - crust, oceanic, 820497
 - hygromagnaphile element, 820464, 820645
 - mantle, source, 820457
 - Mariana Islands, fore arc, 600735
 - Pacific Ocean SE, rare earth elements, 920386
 - petrology, New England Seamounts, 430734
 - rare earth, 460243
 - rare earth elements, 820487
 - trace elements, 370581, 370582, 460243
 - La/Sr ratio, basalt, midocean ridge, 820452
 - La/Ta ratio, 820471
 - basalt, 820475
 - Barbados Ridge, 780404
 - Costa Rica Rift Zone, 830207
 - Cretaceous, 511091, 511092
 - geochemistry, 690770, 690772
- midocean ridge, 820417, 820451, 820452, 820453
- basalt, altered
- major element, 580881, 580888, 580889
 - trace elements, 580881, 580888, 580889
 - basement, chemistry, 590746, 600623
 - California, Gulf of
 - basalt, 650632
 - Guaymas Basin, 650615, 650616, 650617, 650618
 - magma, 650632
 - Emperor Seamounts, trace elements, 550586, 550587
 - Galapagos Spreading center, basalt, 540725
 - geochemistry, 540765
 - hygromagnaphile element, 820463, 820467, 820645
 - basalt, 820469
 - mantle, 820468
 - models, 820467
 - variation, 820467
 - hygromagnatophile (HYG) elements, 540731, 540732
 - geochemistry, 650630
 - major element, mineralogy, 600665
 - mineralogy, 540765
 - minor element
 - East Pacific Rise, 650598, 650608, 650613
 - Tamayo Fracture Zone, 650598
 - trace elements, 810789
 - Cretaceous, 511091, 511092
 - East Pacific Rise, 650598, 650608, 650613
 - Goban Spur, 800944
 - Tamayo Fracture Zone, 650598

La/Tb ratio

 - ash, Nankai Trough, 870684
 - basalt, chemistry, 920476
 - basement, chemistry, 590744, 590749, 600622
 - Mariana Islands, fore arc, 600621
 - Mariana Trench, 600621
 - Mariana Trough, 600614
 - La/Th ratio, basalt, altered, 580887
 - La/Ti ratio
 - basalt, midocean ridge, 820452, 820453, 820455, 820456
 - hygromagnaphile element, 820464, 820465
 - mantle, source, 820457

La/Yb ratio

 - alteration, products, 810739
 - basalt
 - California, Gulf of, 650592
 - chemistry, 450457, 540681, 920476
 - Costa Rica Rift Zone, 830140
 - geochemistry, 460111
 - Mid-Atlantic Ridge, 820427, 820428, 820430
 - midocean ridge, 820450, 820451, 820452, 820453, 820454, 820457
 - petrology, 460111
 - California, Gulf of, Guaymas Basin, 650615, 650616, 650617
 - chemical composition, trace elements, 600461
 - geochemistry, Hatton Ridge, 810739
 - Japan Trench
 - minor element, 870649
 - trace elements, 870649
 - mantle, source, 820457
 - minor element, East Pacific Rise, 650613
 - Nankai Trough
 - Japan Trench, 870651
 - minor element, 870645
 - trace elements, 870645
 - rare earth elements
 - geochemistry, 600737, 600739, 600742
 - tuff, 590658, 590660, 590661
 - Suiko Seamount, trace elements, 550567
 - trace elements, 920439 - East Pacific Rise, 650613
 - La/Zr ratio, basalt, geochemistry, 590782, 590783
 - Labiadie Bank, 801201
 - Labrador, 120265, 120920, 120958, 430802, 47B0031, 47B0658
 - Atlantic Ocean, margins, 801111
 - Atlantic Ocean N
 - paleogeography, 121166, 121167, 121171
 - Paleozoic, 801107
 - basement, main features, 801111
 - fault, 801111
 - Greenland, 931389
 - continental plate, 121164
 - shelf, 801107, 801110 - Labrador Basin, 120033, 120161
 - Atlantic Ocean NE, stable isotope, 480482
 - lithology, 120267 - Labrador Current, 930322, 930525, 930528, 930679, 931413, 950810
 - glaciation, Pliocene-Pleistocene, 120956
 - New Jersey Transect, 950809
 - present-day hydrological framework, subpolar origin waters, 800793
 - Labrador Deep Water, 800808
 - Labrador Ridge, Newfoundland Ridge, 820494
 - Labrador Sea, 121181, 760447, 800506, 800529, 800726, 800808, 801201, 801210, 810033, 810505, 810613, 810884, 810885, 931358, 931359, 950562, 950810
 - Atlantic Ocean, margin, 481099, 481106
 - Atlantic Ocean N
 - basement, 801103
 - connection, 47B0097
 - paleogeography, 121166, 121171, 121177
 - Atlantic Ocean NE, stable isotope, 480477, 480483
 - Atlantic Ocean S, hiatuses, 391105
 - carbon, organic, ^{13}C , 101115, 101120, 121116
 - glacial cycles, deep-sea environment, 800813
 - Iberian margin W, evolution, 47B0768
 - interstitial water, 121193
 - isotopes, present hydrological features, faunal assemblages, 800808
 - lithology, 120169
 - Mesozoic and Tertiary evolution, Atlantic Ocean N, 121155
 - principal objectives achieved, summary, New Jersey Transect, 950810
 - Rockall Plateau W, stratigraphy, 481061, 481062
 - sedimentary environments, 440976
 - contour current, 440976
 - structural evolution
 - morphology, 481061
 - tectonic history, 481062 - water, 810036, 810507, 810512, 810696
 - see also* Mid-Labrador Sea Ridge
 - Labrador Sea C, Atlantic Ocean N
 - paleogeography, 121171, 121177, 121178 - Labrador Sea S, 120003, 120073, 120077, 120682, 120913, 120965, 120970, 120974, 121074, 121085, 121116, 121164, 121166, 121177, 121181, 121193, 131397, 131412, 140966, 170561, 190930, 290804, 340746, 380118, 38S0215, 380835, 381210, 391105, 430011, 430817, 430819, 47B0049, 47B0097, 47B0768, 480167, 480168, 480212, 480213, 480483, 481061, 481062, 481063, 481099, 481100, 490825
 - Atlantic Ocean, margin, 481102
 - Atlantic Ocean N
 - history, 121155
 - paleogeography, 121171
 - axis, 120255
 - basement

- basement (Cont.)
ridge, 120161
structure, 121155, 121157
bathymetry, 121155
carbon, organic, ^{13}C , 121116
crust, structure, 121155
deep current-controlled sediment body
bottom current, 121157
contour current, 121163
deep-water circulation, 121161
deposition, 121161
E-W fracture zones, 121163
gyre, 121161
magnetic anomaly, 121163
marginal channels, 121161
median valley ridges, 121163
moats, 121161
Norwegian Sea Overflow Water, 121161
Oligocene sediments, 121161, 121162
Paleocene sediments, 121161
sea floor age, 121161
sea floor spreading rate, 121161
sediment ridges, 121157
sedimentation rate, 121162
terrigenous sediment, 121157
Greenland, separation, 121155
interstitial water, 121193
magnetic anomaly, 121155, 121164, 121166
Newfoundland, 121155
rifts, 440976
Rockall Rise, 121155
sediment distribution, 121155
terrigenous sediment, 121164
two plates, 121155
- Labrador Shelf**
Atlantic Ocean, margins, 801111
Atlantic Ocean N, Paleozoic, 801107
Labrador-Biscay Fault, 47B0093
Iberian margin W, evolution, 47B0764
labradorite, 670520, 670562
alkaline feldspar ratio, 561008
basalt, 240784
California, Gulf of, 650581
Hess Rise, 620967
mineral chemistry, 550611
mineral composition, 050533
mineralogy, 270552, 270553, 540697, 540698
petrography, 540697, 540698
basalt, altered
geochemistry, 580807, 580808, 580811, 580818, 580823, 580825, 580828, 580830
major element, 580875, 580881, 580882, 580883
trace elements, 580875, 580881, 580882, 580883
basement
chemistry, 600623
mineralogy, 270552, 270553
petrology, 370699
bulk-rock compositions, minor element, 540640
California, Gulf of
Guaymas Basin, 650614
gulf mouth, 650415
chemistry, 650418
crust, oceanic, hygromagmatophile (HYG) elements, 650623
diabase, trace elements, 240784
diagenesis, slope sediments, 840573, 840582
geochemistry, 370699, 600624
fusion, partial, 540645
magma, 870698
Guatemala, trench, 670515, 670519, 670520
Horizon Tablemount, 200668
hygromagmatophile (HYG) elements, geochemistry, 650631
igneous rocks, chemical composition, 590720
K-feldspar, diagenetic, 330800
lithologies, minor, tephra, vitric, 901483
lithology, 160235, 280022
basalt, 140140, 270020
magma, 901164
Mariana Islands, fore arc, 600621, 600660
Mariana Trench, 600621
Mariana Trough, 600614
basalt, 600650
Mariana Trough W, 600487
tholeiite, 600658
Melanesian Basin, igneous complex, 890672
microlite, 670562
Mid-Pacific Mountains, 200671
mineral composition, basalt, 050533
mineral, secondary, feldspar, 511187
mineralogy, 540752, 650418
basalt, 270552, 270553
feldspar, 660725
microlite, 670562
plagioclase, 540743
minor element, East Pacific Rise, 650613
Pacific Ocean SE, basalt, 340381
petrology, 540747, 810796
igneous rocks, 42A0517
phenocryst, 050533
Philippine Sea, lithology, 061139
physical properties, clay, 061139
Shatskiy Plateau S, 200683
sill, mineralogy, 270552
Sr isotope, 590720
sulfur isotope, pyrite, 340381
tephra
Cenozoic, 901170
chemistry, 901164
trace elements, 650594
East Pacific Rise, 650596, 650613
Tamayo Fracture Zone, 650596
turbidites, Guatemala, 840925
volcanism, basalt, 050533, 050534
Wake Guyots, 200679
zoning, 050533
labradorite, calcic
feldspar, 600705
geochemistry, 160639
mineralogy, plagioclase, 540743
plagioclase, phenocryst, 810636
pyroxene, 600705
labradorite, sodic
basalt, mineral chemistry, 550611
magma, 901164
tephra, chemistry, 901164
labradorite-anorthite, Indian Ocean NW, volcanic components, 241061
labradorite-bytownite, Hess Rise N, post-Jurassic, 620815
Lac Mer, 42B1214
Mediterranean Sea E, history, 42B1218
Messinian environments, Lago Mare, 42A1017
Neogene formations, paleogeography, 42A0918
Lacaze-Duthiers Canyon, 131221
Laccadive Basin, 230504
Laccadive Islands, 230036, 230484, 230996
Arabian Sea, history, 231119
Chagos Archipelago, 230129
Chagos-Laccadive Plateau, 230527
see also Arabian Sea; Chagos Archipelago; Maldives
Laccadive-Chagos Ridge. *See* Chagos-Laccadive Plateau
Laccadive-Maldive Ridge
sand
sandy sediment barrier, 230484
terrigenous material, 230485
LAD. *See* last appearance datum
- Ladrones Islands, 660428
Laga Formation, 930910
Lago Fontana, 360873
Lago Mare, 42A0653
biostratigraphy, Messinian salinity crisis, 42A1140
carbon isotope, 42A0652
carbonate, stable isotope, 42A0652, 42A0653, 42A0654
lithostratigraphy, Messinian salinity crisis, 42A1140
Mediterranean Sea, Messinian salinity crisis, 42A0652, 42A0653, 42A0654
Messinian environments
invasion, 42A1031, 42A1032
Mediterranean Sea E, 42A1017, 42A1018, 42A1019, 42A1020, 42A1021, 42A1022, 42A1023, 42A1024, 42A1025, 42A1026
Messinian fossils, 42A1013
LaGorce Formation, 360925
Laguna Madre, 200365, 42A0586
Laguna Mormona, 42A0582
Lake Aral, 42B0487
Lake Atitlan, tephrochronology, volcanism, 680403
Lake Baikal, 790524
Lake Bizerte, 131248
Lake Bolsena, 110501, 110570, 110616, 110618, 120062, 120067, 120674, 120771, 121010, 131251, 140429, 210653, 240969, 270589, 370643, 38S0791, 38S0845, 400890, 410501, 410505, 410991, 42B0910, 42A1023, 430577, 430604, 47B0724, 480116, 480292, 480455, 480547, 480548, 480549, 480550, 480551, 480611, 480615, 481058, 630024, 630114, 630173, 630174, 630273, 630289, 630917, 630951, 630955, 630957, 640032, 760482, 760564, 760630, 760632, 760874, 760878, 770358, 950304, 950370
Albian series, 47B0293
Alps, 110617
Auvergne, 120959
continental shelf offshore, 120673
Dogger-Malm, 110645
Grau du Roi, 131252
Lyon, 131252
Messinian environments, Lago Mare, 42A1023
Paris, 121173, 121177
plate, 120778
Pont Labau, 120771, 121019
Saint-Vallier, 131252
south, 130776, 130780, 140429
Terres Noires Formation, 760877
Lake Bonneville, 42B0486, 42B0858
Lake Bracciano, 42A1023
Messinian environments, Lago Mare, 42A1023
Lake Chad, 42B0910
Messinian environments, Lago Mare, 42A1023
Lake Channing, 42B1039
Lake Constance, 42B0389
Lake Erie, 42B1039
Lake Haruna, insoluble organic matter, kerogen, 870892
Lake Kivu, 210909, 42B0513
pyrite, frambooidal, pyrite, 750879
Lake Magadi, 42A1017
Messinian environments, Lago Mare, 42A1018
Lake Maracaibo, basin, 660662
Lake Mead, 641291, 641293
Lake Nahuel Huapi, 360871, 360873
Lake Tanganyika, 790524
Lake Taupo, 901170
Lake Valencia, Venezuela, 840533, 840538
Lake Victoria, 130977, 130980
Lake of Walenstadt, 42B0130, 42B0131

- Lake Zurich, 42B0134, 42B0137, 42B0138, 42B0509, 42B0513, 42B1158, 720891
 Lakhish Formation, 42B1201
 Mediterranean Sea E, history, 42B1201, 42B1202, 42B1212
 Lalitha Pinnacle
 isotopic analysis results, Challenger Plateau, 901351
 lithologies, minor, turbidite, volcanic, 901483
 volcanic deposit, 901181, 901185
 volcanism, submarine, Eocene-Oligocene, 901182
 Lalla Oujja Formation
 age, 790867
 Oxfordian, 790866
 LaLuna Formation, 151100
 lamination
 abyssal plain, inorganic geochemistry, 801074
 Africa, continental margin NW, 410970
 Africa NW, continental margin, 411131
 Alaska, Gulf of, turbidite, silt, 180853
 Angola Basin, organic geochemistry, 750993
 Atlantic Ocean
 Cenozoic sediments, 140824, 140865, 140868
 Cretaceous sediment, 140824, 140865, 140868
 Atlantic Ocean N
 Mediterranean Sea, 110811, 110816, 110817
 sedimentation, 120909, 120912
 Atlantic Ocean NC, Mesozoic sequences, 410993, 410999
 Atlantic Ocean NW
 lithology, 110905, 110909, 110911, 110918, 110919, 110932
 microfacies, 440483, 440484, 440485
 sedimentary evolution, 430794, 430797
 sedimentation, 440978
 Balatino, 130488
 Biscay, Bay of, 480758
 Albian sediments, 480856
 evolution, 480795, 480797, 480798
 shale, black, 480844, 480848
 Black Sea, evolution, 42B1147
 Blake Basin, 760766
 Blake Ridge, continental rise, 110944
 burrow mottling, silt, 291050
 calcareous facies, 291151
 Cape Basin, Cretaceous to Pliocene, 400490
 Cape Bojador, continental margin, 47A0773
 carbonate
 carbon, organic, 711061
 diagenesis, 170412, 170414
 fossil preservation, 170412, 170414
 Pacific Ocean W, 070977
 Caribbean Sea, sedimentary structure, 150833
 Caroline Abyssal Plain, chalk, 200069, 200071
 chalk, nannofossil, 010521
 chert
 Albian-Cenomanian, 010584
 chert nodule, 300435
 geochemistry, 620721
 petrology, 620721
 clastic sediment, Cretaceous, 401029
 clay, 291050
 burrow structure, 291050
 discontinuous, 291050
 lenticular, 291050
 silt, 291050
 clay minerals, 38S0015
 Clipperton Oceanic Formation, 090940
 continental margin sediments
 claystone, 280732
 sand, 280733
 silt, 280733
 siltstone, 280736
 contourites, 810696, 810699
 Hatton Drift, 810699
 Cretaceous, cyclic sedimentation, 770343, 770355, 770356, 770359, 770360, 770365
 current ripples, 130159, 42A0240, 47B0038, 47B0046, 47B0047, 47B0054
 deposition, Portugal, 47B0383
 diagenesis, Miocene to present, 690345
 dipping, 120410
 dissolution, carbonate, 400989, 400994, 400995, 400996
 evaporites
 Mediterranean Sea, 130698, 130701, 130703
 Messinian, 42A0576, 42A0593, 42A0599, 42A0600
 Falkland Plateau E, sedimentation, 360880, 360881, 360884
 fan, transition, 960465
 Galicia Bank, tectonics, 47B0667
 Greenland Sea
 basalt, 38S0242
 turbidites, 38S0225
 hydrocarbon, extractable, organic petrology, 640837
 Indian Ocean NE, Cretaceous, 220729, 220737
 Indian Ocean W, deposition, 241068
 Indus Fan, sedimentation, 230474, 230475, 230482
 Japan Trench
 chalk, 200011
 siliceous rocks, 561134
 limestone, 510753, 510755
 dolomitization, 42A0621
 Hess Rise, 621044
 Jurassic-Cretaceous, 440463
 Mid-Pacific Mountains, 621091, 621094
 Line Islands, 330837
 oceanic formation, 090934
 volcanogenic constituents, 330837
 lithology
 anhydrite, 130153, 130154
 ash, 130194
 basalt, 140139
 basement, 110226
 breccia, 130227
 Callovian ()-Oxfordian, 110079
 Cenozoic deposits, 47B0046, 47B0047
 chalk, 120410
 chalk, foraminiferal nannofossil, 170152
 chalk, nannofossil, 170250
 chalk, radiolarian nannofossil, 170152
 chert, 140090, 140139, 170152
 chert, nannofossil, 170250
 chert, zeolitic, 170250
 clay, 120261
 clay, carbonaceous, 140090
 clay, red, 120763
 claystone, zeolitic, 170250
 Clipperton Oceanic Formation, 090054, 090320, 090408
 Cretaceous, 110109
 current, 480175
 Eocene, 110013
 evaporites, 130152, 130196, 130425
 limestone, 140023, 170055, 170152
 Line Islands, 080140, 090058, 090408
 marl, 130030, 130066, 140297
 marl, dolomitic, 130487, 130488
 marl, nannofossil, 140023, 140090
 marl ooze, 130064
 marl, pyritic, 130487, 130488
 marl, zeolitic, 140297
 Marquesas Oceanic Formation, 090213, 090320
 Mesozoic deposits, 47B0051, 47B0052, 47B0053
 Mesozoic units, 480049
 mud, silt-laminated, 960478
 mud, terrigenous black, 130369
 mudstone, 120259, 140139, 510363
 Oligocene to Miocene pelagic sediments, 120168
 ooze, 130262
 ooze, chalk, 140090
 ooze, limestone, 120410
 ooze, marl, 130227
 ooze, nannofossil, 130102
 Oxfordian-Kimmeridgian, 110079
 Paleocene red sediments, 120167
 paleoenvironment, 490035, 490037, 490114
 Pleistocene sediments, 110140
 San Blas Oceanic Formation, 090540
 sand, 130102, 130262, 190221
 sand, turbidite, 130065
 sandstone, 120045, 130065, 130066
 sandstone, terrigenous, 130369
 sandstone, volcanic, 310197
 sapropel, 130194
 sedimentation, 350032, 350131
 sedimentology, 100049
 shale, 120045, 140023
 shallow-water conditions, 240395
 silt, 190221
 silt, dolomitic, 140139
 siltstone, volcanic, 310197
 Tithonian-Neocomian, 110226
 turbidites, 120763
 volcanic sediment, 170055
 volcanogenic sediment, 170267
 magnetostratigraphy, Cretaceous sediments, 400463
 manganese nodule, 160605
 Manihiki Plateau, limestone, 330882
 Marcus Island, archipelagic apron, 200055
 Mediterranean Sea
 lithostratigraphy, 131021, 131026, 131037
 Messinian, 130676, 130678, 130679, 130680, 130683
 Neogene, 131257
 Mid-Pacific Mountains W, Aptian sediments, 620903, 620914
 Middle America Trench, Costa Rica, 840553
 mineralogy, 38S0117, 38S0118
 Mississippi Fan, 960509
 depositional environment, 960434
 silt, 960469
 mud, 870916
 mudstone, black, cycles, 430414
 mudstone, green, cycles, 430414
 Nankai Trough, turbidites, 870916
 Neogene sedimentation
 lithology, 47A0607
 sediment evolution and sources, 47A0612
 NFLECT, lithology, 960549
 Norwegian Sea
 basalt, 38S0242
 Greenland Sea, 38S0262
 turbidites, 38S0225
 ooids, 890401
 organic geochemistry
 Baja California, 640940
 Cenomanian-Turonian black sediments, 800964
 Guaymas Basin, 640946, 640947, 640948
 organic matter
 geochemistry, 640855
 Goban Spur, 800974
 slope, 660543
 slope facies, 660543
 Pacific Ocean EC, stratigraphy, 090934,

- Pacific Ocean EC (Cont.)
090939, 090940
Pacific Ocean NE
chalk, 200037
Pliocene, 200037
Pacific Ocean SW, unconformities, 210701, 210715
paleoenvironment
Cretaceous, 47A0564
Hauterivian to Cenomanian, 47B0412
pebbles, petrography, 801039, 801040
Philippine Sea, sedimentary structure, 310474, 310487
Pygmy Basin, lithology, 960566
Porcupine Plain, Albian-Cenomanian, 800977
red beds, sedimentary structure, 38S0262
Red Sea, sediment history, 230858
Rio Grande Rise
limestone, flaser, 721012
Recent-Eocene sedimentation, 721006
Rockall Bank, 480758
San Blas Oceanic Formation, 090939
sand, 010564
lower fan channel, 960513
sandstone
bedding, parallel, 320541
cross-bedding, 320541
sandstone, foraminiferal, phillipsite, 42A0478
sapropel, Cretaceous, 620892
Sea of Japan, sedimentary structure, 310474, 310487
sediment
lithology, 38S0117, 38S0118
physical properties, 010576
sedimentary structure, 960530
chalk, 220739
clay, 220737
Ganges Fan, 220739
mud, silt-laminated, 960525
silt, 960530
sedimentation
Biscay, Bay of, 480679, 480862
Clipperton Oceanic Formation, 090940
Line Islands, 090934
Rockall Rise, 480688
San Blas Oceanic Formation, 090939
tectonics, 47B0667
sedimentology, horizontal, 100701
sediments, Blake Basin, 760766
shale, black
Biscay, Bay of, 480894
Cretaceous, 750810
silica, opaline, transformation, 480758
siliceous rock, bedding and structures, 561134
siltstone, 320542
carbonate, 320542
carbonate, micritic, 320542
foraminifer tests, 320542
mineral, opaque, 320542
phillipsite, 320542
smectite, 320542
volcanic detritus, 320542
slump-marginal fan deposit, 960509
Southeast Pacific Basin, sediment distribution, 350205, 350218
stromatolite, coccoid, blue-green algae, 42A0665
tectonic
clay, black, 430797
limestone, 430794
Timor Trough, ooze, foraminiferal, 271011
trace fossils, 150813
burrows, 150816
transport, bedding, graded, 230486
turbidites, 890367, 890368
calcarenite, 750786
Pacific Ocean W, 071009
varve, patterns, 42B0502
volcanic sediment, lithostratigraphy, 901176
Walvis Ridge, Cretaceous to Pliocene, 400490
lamination, contorted, 42A0240
lithology, 210037, 220039, 480222
lamination, convolute, 120259, 47B0054
current ripples, 130155
lithology, 250093, 310280, 500129
Mesozoic deposits, 47B0054
lamination, current
Atlantic Ocean N, Mediterranean Sea, 110818
lithology, 330045
lamination, diagenetic, 47B0054
lamination, festoon, lithology, sandstone, 130155
lamination, fine, carbonate, redeposited clastics, 760823
lamination, horizontal, lithology, Cenozoic units, 480047, 480048
lamination, inclined, 410428
lamination, lenticular
Alaska, Gulf of, turbidite, silt, 180855
continental margin sediments, silt, 280736
lithology, 070056, 220271, 260238, 270283, 310355, 410172, 480221
paleoenvironment, Cretaceous, 47A0560
sedimentation, Rockall Rise, 480690
lamination, microcross, 47B0038, 47B0046, 47B0047
lamination, oblique
Mediterranean Sea, lithostratigraphy, 131026
sapropel, Mediterranean Sea E, 42A0429
lamination, parallel, 130425, 42A0239, 42A0240, 47A0034, 47B0038, 47B0041, 47B0042, 47B0053, 47B0054
acoustic facies, sedimentology, 960471
Alaska, Gulf of, turbidite, silt, 180848, 180861
dobrites, sedimentary structure, 310499
fan, submarine, Toyama Trough, 310490
Indus Fan, sedimentation, 230475
lithology, 250093, 280216, 310280, 310355, 330111, 380599, 42A0235, 42A0236, 480221, 480222, 500045, 500126, 500129, 510046
deposition, 47A0034
Mesozoic deposits, 47B0053, 47B0054
sandstone, 130155
lower channel-overbank deposit, 960509
Mediterranean Ridge, mineralogy, 130739
Mediterranean Sea, Messinian, 130690
Mississippi Fan, 960508
deposit, 960505
Nile Fan, mineralogy, 130739
Norwegian Sea, Greenland Sea, 38S0262
paleoenvironment, Cretaceous, 47A0560
red beds, sedimentary structure, 38S0262
sedimentary structure, 960521
clay, 960530
grain orientation, 960521
mud, 960530
mud, silt-laminated, 960521
silt, 960521
turbidites, sedimentary structure, 250448
lamination, planar
lithology, 480221, 480222
Nankai Trough, faults, fractures, 870805
sedimentary structure
mud, silt-laminated, 960525
sand, 960524
silt, 960524
lamination, pseudoparallel
Norwegian Sea, Greenland Sea, 38S0263, 38S0269
red beds
sedimentary structure, 38S0263
turbidites, 38S0269
lamination, stromatolitic, 130681, 131213
blue-green algae, 42A0665, 42A0666
lithology, 130159, 130161
Mediterranean Sea, Messinian, 130681
lamination, wavy
lithology, 480222
limestone, 320083
Mesozoic deposits, 47B0053, 47B0054
Mediterranean Sea, Messinian, 130689
laminites, 010570, 100009, 100017, 100049, 100072, 100092, 100706, 100711
deposition rate, 010576
evaporites, Mediterranean Sea, 130699, 130700, 130701, 130702, 130703, 130705
grain size, 010325
interbed association, 010576
lithology, 100089, 100091, 100093, 100096, 100117, 100118, 100119, 100121, 100126, 100261, 100297, 100301
sedimentology, 100009, 100049
mud, 010570
mud, terrigenous, sediment classification, 250455
sedimentology
abyssal plain terrigenous sediment, 100699
Mexico, Gulf of, 100706
physical properties, 100712
silt, 010570
turbidites, 250444
laminites, anhydrite
evaporites, Mediterranean Sea, 130669, 130698, 130699, 130700
lithology, 100092
laminites, terrigenous clastic
lithology, 100314
sedimentology, Mexico, Gulf of, 100711
Lamont Guyot, 200655, 550681
volcanic rocks, petrography, Wake Guyots, 200679
lamprophyre
Arabian Sea, history, 231122
Atlantic Ocean SW, basin, evolution, 360996
lithology, 230387
Lamu, 250087, 250103
Lamu Basin, Rio Grande Rise N, regional setting, 250694, 250698
Lamu Embayment
Africa E, coast, 250680
Rio Grande Rise N, regional setting, 250693, 250694
land bridge
Eurasia, Greenland, 381221
tectonics, 381213
Faroe-Iceland Ridge, 381220
Norwegian Sea, 381213, 381239
sea floor spreading, 381239
Lands End, 481015, 800012
Languedoc, grabens, 42A0958
Lansdowne Bank, 900115, 900124, 900763, 901321, 901339, 901341, 901481
geothermal measurements, 901317, 901321, 901322, 901323
lithologies, minor, sand, skeletal, 901481
magnetostratigraphy, 901277
Neogene sequence evolution, erosion, 901339
sedimentation rate, calcareous biogenic productivity, 901485
seismic character, detrital sediments, 901341
seismic stratigraphy, 901339, 901341
slope, 900773
lanthanide

- Atlantic Ocean S, history, 740713, 740721, 740724, 740726, 740728
Emperor Seamounts, mineralogy, 550470
rare earth elements
trace elements, 590661, 590662, 590663, 590664, 590665, 590666
tuff, 590656
lanthanide, heavy
rare earth elements, 590667
trace elements, 590663, 590664
lanthanide, light
rare earth elements, 590667
tuff, 590655
lanthanite, hygromagnaphile element, 820460
lanthanum, 820041, 820470, 820471, 820484
alteration, products, 450618
analyses, 920433
ash, 870684
hygromagnaphile (HYG) elements, 840684
Assemblage IIA(+) , 710395
Assemblage IIIA(+) , 710395
Atlantic Ocean S, history, 740715, 740718, 740721, 740722, 740723, 740726
basalt
Barbados Ridge, 780404
chemistry, 450447, 450459
Costa Rica Rift Zone, 830140, 830141, 830155, 830161, 830201, 830207, 830209
Cretaceous, 511087, 511092
geochemistry, 490625, 590754, 590761, 590776, 590781, 590783
Melanesian Basin, 610690, 610691, 610705
Mid-Atlantic Ridge, 820422, 820444, 820445, 820446
midocean ridge, 820396, 820408, 820417, 820449, 820450, 820452, 820453, 820455
minor element, 490682
petrology, 590676
basement, geochemistry, 590743, 590745, 590747, 590748, 590750, 590751
Bauer Basin, basalt, 340239, 340240, 340243
Bermuda Rise, rare earth elements, 511115, 511116
Blake Basin, 760775
Cocos Plate, geochemistry, 660684
Costa Rica Rift Zone, basalt, 830252
crust, oceanic, 820497
Costa Rica Rift Zone, 830196
East Pacific Rise, phosphorus, 920378
Falkland Plateau, basement, 360896
geochemical history
Albian, 710406
Jurassic-Cretaceous, 710406
sedimentation, 710405
geochemistry, 660684
basalt, altered, 450618
Cenozoic sediments, 42B0543, 42B0599
magma, 870699
major oxides, 540371
Hess Rise, rocks, 620864
hygromagnaphile element, 820468
Indian Ocean SE, sediments, 260548, 260549
inorganic geochemistry, 750951
Angola Basin, 750924
Hess Rise, 620692
metabasalt, enrichment, 830252
Mid-Atlantic Ridge, isotopes, 450545
minor element, geochemistry, 360930, 360932, 360937
Mounds, nontronite, 540384
Mounds Hydrothermal Field, origin, 540413
Nankai Trough
Japan Trench, 870651
minor element, 870644
trace elements, 870644
Nazca Plate, basalt, 340239, 340240, 340243
rare earth, 460243
rare earth elements, 850797, 920401
Suiko Seamount, trace elements, 550561, 550563, 550567
trace elements, 450545, 460243, 660732, 810788, 850785, 850789
basalt, 810790
Cretaceous, 511087, 511092
geochemistry, 370573, 370574, 370575
Goban Spur, 800944
iron, 850786
manganese, 850786
partitioning, 850797
Thulean Volcanic Province, 810793
trace elements, incompatible, 820487
see also La
Lanzarote, 790377
Lapatza Formation, Neogene formations, paleogeography, 42A0908, 42A0919
lapilli
clay minerals, Cretaceous and Cenozoic, 480711
Indian Ocean S, geologic history, 260919
Japan Trench, chalk, 200011
lithology, 260160, 260161, 380161, 430165, 480176, 480177, 480180
tuff, 220122, 310194
Lord Howe Rise, rhyolite, 210523, 210530
Manihiki Plateau, spherules, 330880
Southern California Borderland, volcanic rocks, 630951
lapilli tuff
carbonate, diagenetic, isotopic survey, 630596
lithology, 210523
mineral composition, 210524
organic geochemistry, kerogen, 630851
snowflake texture, 210524
lapilli tuff, vitric
basalt, pyroclastics, 260554, 260557, 260559
hygromagnaphile (HYG) elements, fractionation, 540731
petrology, igneous rocks, 260554, 260557, 260559
Lapithos Formation, 42B1186
Lara, 151100
Laramide Orogeny, lithology, 100316
large ion lithophile elements (LIL), 340191, 340194, 340221, 340224, 42A0519, 42A0521
basalt
alteration, 690755
geochemistry, 690799, 690801
glass, 600608
ocean ridge, 340221, 340224, 340225
petrogenesis, 42A0521
petrology, 580863
basalt, altered, geochemistry, 580839
basalt, oceanic, 42A0519, 42A0521
basement
alteration, 690755
basalt, 42A0521
California, Gulf of, Guaymas Basin, 650618
crystallization, fractional, depletion, 340224
mineralogy, geochemistry, 600712
minor element
East Pacific Rise, 650597, 650608, 650613
Tamayo Fracture Zone, 650597
ocean basin, petrogenesis, 42A0521
petrogenesis, basement, 42A0521
petrology, 540747
Shikoku Basin, basalt, 580898
tholeite
depletion, 340191
mineralogy, 340194
trace elements, 650594
basement, 42A0519
classification, 690751, 690755
East Pacific Rise, 650597, 650608, 650613
Tamayo Fracture Zone, 650597
volcanics, fore arc, 600721
see also LIL elements
Las Palmas, 490407, 780661, 790028, 790893
geophysical measurements, 450055
magnetic measurements, 790044
Las Palmas Formation, 840839, 840840, 840841, 840846
Rio Potero Grande, 840840
Las Villas, 770044
Lassiter Coast, 330511, 350379
Lataquia, Neogene formations, paleogeography, 42A0906
laterite, 38S0285
deposition
chalk, nannofossil, 250492
ooze, nannofossil, 250492
Emperor Seamounts, petrology, 550582
Falkland Plateau, basement, 360909
lithology, 390337
Norwegian Sea, Greenland Sea, 38S0285
red beds, sediment history, 38S0285
Red Sea, geology, 230816
sediment geochemistry, 550457, 550461
Hawaiian Islands, 550461
lateritization, 550461
leaching, 550461
oxidizing environment, 550461
trace elements, 550461
Latinum-Abruzzi carbonate platform, Ombrone River, Sabino Basin, 790888
Lattimo Formation, 760874
Lau Basin, 25018, 050107, 050203, 050255, 050275, 050298, 050310, 050353, 050368, 050411, 080046, 080061, 080137, 080286, 080460, 080536, 080621, 080675, 090021, 090043, 090209, 090212, 090317, 090403, 090449, 090487, 090537, 090615, 110009, 110075, 110105, 110135, 110219, 110313, 110351, 110357, 120041, 120165, 120258, 120316, 120326, 120364, 120404, 120676, 120760, 130022, 130048, 130094, 130113, 130138, 130176, 130221, 130247, 130249, 130359, 130385, 130408, 130470, 130471, 140049, 140085, 140135, 140157, 140179, 140217, 140249, 140283, 150020, 150170, 150218, 150279, 150302, 150333, 150368, 160022, 160056, 160153, 160233, 160270, 160304, 160367, 160413, 170017, 170047, 170103, 170145, 170235, 170247, 170263, 170283, 180021, 180022, 180042, 180103, 180175, 180218, 180241, 180242, 180296, 180383, 180384, 180413, 180456, 180457, 180505, 190020, 190021, 190094, 190170, 190218, 190219, 190280, 190281, 190292, 190326, 190328, 190372, 190373, 190414, 190415, 190464, 190555, 190556, 200010, 200019, 200033, 200045, 200051, 200065, 200087, 200097, 210018, 210035, 210059, 210104, 210198, 210272, 210334, 210370, 210897, 210900, 220013, 220038, 220086, 220120, 220195, 220268, 220325, 230118, 230169, 230212, 230292, 230384, 230540, 230596, 230602, 230678, 230755, 230809, 240018, 240128, 240197, 240198, 240250, 240283, 240284, 240328, 240329, 240392, 240471, 250027, 250067, 250089, 250143, 250189, 250239, 250261, 250289, 260023, 260077, 260135, 260155, 260235, 260283, 260297, 260327, 260359, 270016, 270089, 270132, 270194, 270281, 280020, 280050, 280082, 280122, 280153, 280179, 280213, 280214, 280336, 280370, 290021, 290028,

- 290046, 290122, 290192, 290226, 290272, 290280, 290292, 290318, 290366, 290403, 300005, 300007, 300617, 300623, 300630, 300632, 300667, 300704, 330026, 330038, 330039, 330106, 330107, 330162, 330302, 340021, 340022, 340083, 340084, 340113, 350029, 350066, 350128, 350158, 360019, 360030, 360089, 360143, 360210, 360259, 370022, 370201, 370240, 370290, 380025, 380026, 380118, 380154, 380155, 380156, 380157, 380158, 380159, 380389, 380451, 380452, 380522, 380523, 380524, 380595, 380596, 390029, 390047, 390102, 390143, 390233, 390331, 390374, 400039, 400040, 400189, 400190, 400360, 400361, 400362, 410025, 410168, 410236, 410329, 410424, 42A0305, 42A0306, 42A0322, 42A0032, 42A0062, 42A0064, 42A0152, 42A0178, 42A0222, 42A0224, 430034, 430099, 430108, 430156, 430197, 430326, 440028, 440070, 440157, 440337, 440395, 440396, 450006, 450132, 450266, 460018, 47A0023, 47B0031, 47A0021, 480040, 480075, 480126, 480169, 480217, 480666, 490023, 490102, 490161, 490228, 490311, 490340, 490391, 490408, 510030, 510353, 580806, 580873, 580898, 580936, 590753, 590808, 600448, 600494, 600602, 600604, 600618, 600619, 901452
basalt, 590334
glass, 600604
petrology, 580863
basalt, altered
major element, 580873
trace elements, 580873
basin genesis, 310857
deposition, origin, 600448
glass, volcanic
Mariana Trough, 600494
Tonga, 600494
lithology, 210021
age, 210024
Lord Howe Rise C, Neogene evolution, 901452
Mariana Islands, basement, 600618
Mariana Trough, basalt, 600602
Pacific Ocean SW, 210897
Cenozoic, 300667
Eastern Marginal Basin Province, 210897, 210904
island arcs, 300691, 300703, 300704
Miocene opening, 210906
regional evolution, 210900
sediment pond, 210897
Pacific Ocean W, volcanic rocks, 210488
Philippine Basin, genesis, 310857
physical properties, 210023
bulk density, 210023
Shikoku Basin, basalt, 580898
South Fiji Basin
geology, 300617, 300623, 300624, 300625, 300626
history, 300630, 300632
southwest regional unconformities, Miocene, 210897
volcanic components, 210481, 210488
augite, 210481
glass, volcanic, 210481
ooze, biogenic, 210481
paleoceanography, 210481
plagioclase, 210481
Lau Group, 300005
Pacific Ocean SW, regional evolution, 210900
South Fiji Basin, geology, 300624
Lau Ridge, 151001, 210003, 210005, 210017, 210057, 210646, 210653, 210724, 210897, 210900, 300005, 300007, 300008, 300027, 300028, 300620, 300623, 300627, 300629, 300630, 300667, 300702, 610541
Colville Ridge, 210897, 210900, 300617, 300624, 300625, 300667
deposition, 300438
lithology, 210021, 300045
geologic events, 210061
Pacific Ocean SW, 210897 Cenozoic, 300667
Colville Ridge, 210897
island arcs, 300691, 300702
regional evolution, 210900
Pacific Ocean W, volcanic rocks, 210488
ridges, Colville Ridge, 210897, 210900
South Fiji Basin
geology, 300617, 300619, 300620, 300623, 300624, 300625, 300627, 300628
history, 300629, 300630
Tonga Ridge, 210061, 300625, 300630, 300702
volcanic components, 210488
laumontite
basalt, 830336
Costa Rica Rift Zone, 830145, 830147, 830166
chemical and mineral composition, 350471, 350472, 350473
Si/Al ratio, 350472
conglomerate, 580648
Costa Rica Rift, stockwork-like zone, 830277
Costa Rica Rift Zone
basalt, 830220, 830221, 830222, 830223, 830232, 830233, 830234, 830236, 830237, 830239, 830250, 830257, 830284, 830285, 830286, 830307
stockwork-like zone, 830266, 830267, 830268, 830269, 830274
crust, oceanic, Costa Rica Rift Zone, 830184
mineral, secondary, 670551
Laupata, Rio Grande Rise N, regional setting, 250690
Laupo-Rotoud ignimbrites, Pacific Ocean EC, geologic history, 090921
Laurasia, 120077, 151077, 510904, 760887
Atlantic Ocean N, Paleozoic, 801108, 801109, 801111
Tethys, Mediterranean Sea, 42A0943
Laurel Formation, 950775
Laurentian Channel, 430038, 430039, 430474
lithology, 430038, 430101
Laurentian Cone, 430102
Laurentian Ice Sheet, North America, 131228
Laurentian outcrops, basement, main features, 801111
Laurentide, carbonate, isotope
chronostratigraphy, 960675
Lavoisier Channel, Pacific continental margin, geomorphology, 350283
Lawsville Ridge, Pacific Ocean W, volcanic rocks, 210488
Layer 2, 830298
alteration, basalt, 690509
Atlantic Ocean, magnetic history, 370987
basalt
Costa Rica Rift, 690585
magnetic domain state, 370515
magnetic properties, 511402
petrology, 590679
physical properties, 511464, 511465
basement
chemical and magnetic stratigraphy, 450657, 450658
geochemistry, 590746, 590747, 590751
magnetic properties, 370489, 370494, 370495, 370496, 370497, 370498
paleomagnetism, 370425, 370429, 370443
seismic velocity, 370373, 370374, 370383, 370384
Bermuda Rise
basalt, 511357, 511402, 511404
crust, oceanic, 511488, 511489
geophysical logging, 510711
oblique seismic experiment, 510675, 510679, 510681, 510682, 510683, 510685
Bermuda Triangle, basalt, 511363, 511370
bulk magnetic intensity, titanomagnetite, 830298
compressional and shear wave velocities, seismic refraction, 270446
Costa Rica Rift
alteration, 690509
basalt, 690585, 830367
velocity structure, 830529
crust, oceanic, 340763, 370987, 370989, 370996, 450658, 460401, 510005, 820509
acoustic wave velocity, 450386
alteration, 340766, 340767
basalt, 370992, 370993, 370995
compressional wave velocity, 160648
FAMOUS area, 370995
geochemistry, 340763, 340764, 340765
geology, 920571
geophysical logging, 460401
hydrothermal alteration, 510006
hydrothermal circulation, 370992
Layer, 3, 510005
lithology, 370987, 370988
magnetic properties, 340767, 340768, 370991
petrology, 340763, 340764, 340765
physical properties, 340768
radiometric age, 340763
structure, 370990
FAMOUS area, basement, 370429, 370443
geophysical logging, crust, oceanic, 460401
Goban Spur, continental margin, 801132
lead isotope, basalt, 490721
magnetic history, Atlantic Ocean, 370987
magnetic properties, crust, oceanic, 511363, 511370
Mid-Atlantic Ridge, structure and origin, 450011
Philippine Basin W, 590751
Philippine Sea, 310611
Philippine Sea W, seismic refraction, 310611
Philippines, West Mariana Basin, 590751
physical properties, 511464, 511465
layer, 511464
seismic refraction, 511464
velocity, 511464
plutonic rock, Philippine Sea, 310609
seismic response, structure, 920581
seismic structure, 870754
absence, 870754
subduction, 870754
transitional nature, 870754
seismic velocity, crust, oceanic, 370390
seismostratigraphy, acoustic basement, 801120
velocity structure, Costa Rica Rift, 830529
volcanics, elastic wave velocities, 310609
West Mariana Basin, 590751
Layer 2/3 boundary, seismic structure, 870754
Layer 2A
Bermuda Rise, oblique seismic experiment, 510687
Costa Rica Rift Zone, crust, oceanic, 830181
crust, oceanic, 830129, 830151, 830165
Costa Rica Rift Zone, 830185
elastic wave velocity, 950563
Mid-Atlantic Ridge, temperature, 460389
thermal conductivity, heat flow, 460389

- Layer 2B
 Costa Rica Rift, basalt, 830367
 Costa Rica Rift Zone
 crust, oceanic, 830181, 830185
 stockwork-like zone, 830265
- Layer 2C
 basement, Costa Rica Rift, 830162
 Costa Rica Rift, basalt, 830367
 Costa Rica Rift Zone, stockwork-like zone, 830265
 crust, oceanic, 830129, 830151, 830165
 Costa Rica Rift Zone, 830162, 830185
 seismic velocity, Costa Rica Rift, 830367
- Layer 3
 basement, seismic velocity, 370374, 370384, 370385, 370835
 Bermuda Rise, oblique seismic experiment, 510675, 510680, 510681, 510682, 510683, 510689
 FAMOUS area, seismic velocity, 370384
 Japan Trench, 870754
- Layer 2, crust, oceanic, 510005
 Philippine Sea, 310612
 Philippine Sea W, seismic refraction, 310612
 plutonic rock, Philippine Sea, 310609
 seismic structure, 870754
 seismic velocity, crust, oceanic, 370390
 volcanics, elastic wave velocities, 310609
- Layer 4
 Biscay Plain, 121189
 Philippine Sea, 310612
- Layer B, crust, oceanic, 830129
 Layer C, crust, oceanic, 830129
 Laysan, 550674
 Lazarevsky flysch trough, 42B0469
 Lazio, 680333
 Le Castella, 100649, 131266
 Calabria, 131006, 131349
 Italy, Sicily, 100492, 160718, 180577
 Le Constant Bank, 240606
 Le Danois Bank, 790653
 Le Lavandon Canyon, 130692
 lead, 230943
 basalt, 240781
 Nazca Plate, 340341
 Blake Basin, 760774
 clay minerals, microelements, 560987
 diabase, trace elements, 240781
 diagenesis, Miocene to present, 690361
 Emperor Seamounts, mineralogy, 550469, 550470
 geochemical partitioning, 650428
 acetic acid-soluble phase, 650428
 Indian Ocean SE, sediments, 260542, 260547
 Japan Trench
 clay minerals, 560987
 sediments, 271225
 lead isotope, 370613
 Manihiki Plateau, oceanic basalt
 resemblances, 330878
 Pacific Ocean NW, clay, 860555
 pyrite, frambooidal, frambooid, 750876
 Red Sea, 230943
 geochemistry, 230981
 strontium isotope, 370613
see also PB
 lead isotope, 310601, 310602, 310603, 310604, 340341, 340343, 340346, 370613, 370614, 370615, 490721, 700325
 Aden, Gulf of, 700325
 andesite, pyroxene, 310602
 ash, 700329
 Atlantic Ocean N, 700325, 700328
 Atlantic Ocean NC
 Azores, 820497
 crust, oceanic, 820497
- Atlantis II Deep, 230943
 Azores, crust, oceanic, 820497
 basalt, 340341, 340343, 340346, 370613, 370614, 490721, 490722, 490723, 700326, 700328
 composition, 690643
 Layer, 2, 490721
 origins, 310603
 basalt, alkali, 340343
 Bauer Basin, 700328
 calcite, 340343
 carbonate, 340343
 composition, metalliferous sediments, 950391
 Costa Rica Rift, 700329
 basalt, 690643
 crust, oceanic, variations, 820497
 diabase, 340346
 discharge, rate, 700328
 Discovery Deep, 230945
 East Pacific Rise, composition, 950391
 Easter Island, 700328
 FAMOUS area, basalt, 490721, 490722, 490724
 Fe-Mn, 340345
 Galapagos Hydrothermal Mounds, 700328
 metalliferous sediments, 700325
 HNO₃, 340343
 hydrothermal circulation, 700330
 leaching, 700325, 700328
 Iceland, basalt, 490721
 igneous rocks
 Mid-Atlantic Ridge, 370613
 Pacific Ocean W, 310601
 Indian Ocean, 700325
 iron, 340343
 isotopic composition, 370613
 Layer 2, crust, oceanic, 340764
 manganese, 340343
 manganese oxide crust, 700325, 700327, 700328
 metalliferous sediment, composition, 950391
 Mid-Atlantic Ridge
 basalt, 490721, 490722, 490723
 igneous rock, 370613
 mud, manganese-iron-oxide, 700328
 Nazca Plate, basalt, 340341
 nitrate, 370613
 nontronite, 700327, 700328
 ocean islands, 370615
 olivine, 340346
 ooze, foraminiferal nannofossil, 700327, 700328
 Pacific Ocean, basalt, 340341
 Pacific Ocean E, 700325, 700328
 Pacific Ocean SE, hydrothermal sedimentation, 920605
 Pacific Ocean W, igneous rock, 310601
²⁰⁴Pb/²⁰⁶Pb ratio, 340343, 370615
 peridotite, 370613
 petrology, 310605
 Philippine Sea, Paleogene-Neogene, 310601
 Red Sea, 230943, 700325
 uranium, 230943, 230945
 Red Sea S, 230945
 Reykjanes Ridge, basalt, 490721
 sediment, 700325, 700330
 metalliferous, 700325, 700330
 sediments, 340341
⁸⁶Sr/⁸⁷Sr ratio, 310602, 370615
 Sr, radiogenic, 370614
 strontium, ⁸⁶Sr/⁸⁷Sr ratio, 370613
 Th/U ratio, 340346
 tholeiite, 340343, 340346
 thorium, 310602, 340341, 340343, 340346
 Atlantis II Deep, 230943
 Discovery Deep, 230945
 Red Sea, 230945
- Union Seamount, 700328
 uranium, 310602, 340341, 340343, 340346
 lead oxide
 lower continental rise hills, organic analyses, 101021
 preliminary organic analyses, 111021
 Providence Channel NE, organic analyses, 101021
 lead, radiogenic
 geochemistry, 600624
 strontium isotope, 370614
 Learmonth Formation, 271050
 Lebanon
 coastline, 130971, 131115, 400654, 42B1195, 430577
 coast, 130739
 Mediterranean Sea E, history, 42B1199, 42B1216
 Lebombo
 Indian Ocean W, regional aspects, 250757
 Rio Grande Rise N, regional setting, 250689, 250691
 Lebombo Range, 250549, 250689
 Africa SE, volcanism, 250532
 Leewin-Naturaliste Block, 280828
 Lefkara Formation, 42A0908
 paleogeography, 42A0915, 42A0921
 Lefkara Group, 42B1186
 Lefkas Island, 130224
 Leggett Well, 930700
 Lengua Formation, 040592, 110545
 lepidolite, terrigenous minerals, mineralogy, 250437
 Leppe Basin, 120959
 leptynites, cordierite, basement, Alboran Basin W, 130759
 Les Saintes, 780083, 780090
 Lesser Antilles, 040665, 120974, 140345, 150018, 150217, 150224, 150282, 150769, 150963, 150971, 150974, 151096, 151099, 151101, 430817, 440492, 600587, 600588, 600590, 780005, 780006, 780023, 780025, 780027, 780029, 780030, 780083, 780084, 780086, 780090, 780094, 780095, 780096, 780097, 780250, 780303, 780321, 780322, 780345, 780347, 780360, 780362, 780367, 780603, 870910
 accretionary complex, 780023, 780029, 780035, 780036, 780042, 780046, 780049, 780084, 780603
 acoustic basement, 780040
 basement, 780049, 780055
 bathymetry, 780063
 bedding orientation, 780535
 decollement, 780031, 780053, 780054, 780070, 780535, 780538, 780544, 780607
 deformation, 780030, 780036, 780039, 780046, 780049, 780054, 780055, 780063, 780079, 780081, 780535, 780603
 diapir, mud, 780031
 elevation, 780035
 geophysical setting, 780039
 gravity anomaly, 780030, 780050
 magnetic anomaly, 780050
 mesoscopic structures, 780535
 origin, 780601
 provinces, 780030
 seismic reflection, 780030
 seismostratigraphy, 780039, 780053
 slope, 780053, 780054
 structural variability, 780603
 tectonic setting, 780602
 thrust fault, 780535, 780537, 780542
 underthrusting, 780036
 variations in structure, 780035
 vein structure, 780542

- accretionary prism, 780573
 cohesive strength, 780574
 compressive mechanics, 780569
 deformation, 780566
 fault angles, 780574
 forearc, 780110
 heat flow, 780597
 shear stress, 780574
 taper, 780573, 780578
 tectonics, 780573
 thermal gradient, 780597
 wedge strength, 780573
 accumulation rate, 780357
 active margin, 780086
 andesite, 780093
 ash, 780369
 air-fall, 780369
 magmatism, explosive, 780194
 backarc, 780025
 basalt
 alteration, 780377, 780383
 geochemistry, 590792
 basement, 780042, 780049
 acoustic, 780040
 age, 780094
 topography, 780042, 780046, 780049, 780055
 basin, 780031, 780603
 bathymetry, 780030, 780320
 bedding orientation, 780535
 Benioff Zone, 780025
 calcium, interstitial water, 780381, 780383
 Caribbean Sea, volcanic activity, 150974
 Cenozoic radiolarians, subduction, 780447
 chert, 780089
 clay, Cenozoic, 780346
 compressive stress, 780566
 convergence, 780086, 780549
 subduction zone, 780614
 convergent margin
 subduction, 780086, 780094, 780096, 780097
 underthrusting, 780086
 crust, oceanic, 780006, 780025, 780042
 age, 780029
 morphology, 780027
 origin, 780025, 780027
 underthrusting, 780006, 780602
 deformation, 780006, 780569, 780578
 framework, 870939
 deposition, 780303, 780304, 780315
 acoustic facies mapping, 780316
 calcareous biogenic material, 780321
 carbonate, 780304
 carbonate compensation depth, 780316
 clay, 780304, 780307
 clay minerals, 780316
 island arc, 780301
 island arc source, 780317
 mud, calcareous, 780313
 oceanic currents, 780317
 oceanic ridges, 780320
 ooze, calcareous, 780308, 780309
 other margins, 780322
 physiographic setting, 780301
 regional winds, 780321
 sea level, 780320
 sediment source, 780303, 780317
 silt, calcareous, 780313
 slope angle, 780320
 terrigenous sediment, 780321
 turbidite, 780321
 wedge, 780320
 wind patterns, 780316
 diapir, mud, 780034
 diapirism, 780034
 Dominica fault, 780094
 earthquake activity, 780086, 780094
 fault zones, 780031
 faulting, 780006, 780049, 780050, 780566, 780573
 forearc complex, 780535, 780537, 780542
 folding, 780006
 forearc, 780006, 780023, 780029, 780035, 780037, 780302, 780316, 780317, 780377, 780411, 780428, 780602, 780619
 structure, 780023
 forearc basin, 780025, 780031, 780036, 780602
 fracture zone, 780027, 780049, 780050
 gabbro, mineralogy, 600590
 geologic history, 780603
 granite, 780095
 granodiorite, Aves Ridge, 780095
 gravity anomaly, 780027, 780030, 780094
 accretionary complex, 780050
 Horizon A, 020424
 igneous rocks, 780095
 inner arc, 780083, 780085, 780089
 interoceanic arc, 780471
 interstitial water
 alkalinity, 780381
 alteration, 780383
 calcium, 780381, 780383
 magnesium, 780381, 780383
 oxygen isotope, 780382, 780383
 potassium, 780382
 strontium isotope, 780381, 780383
 intra-arc depression, 780090
 island arc, 040007, 040215, 040590, 600585, 780039, 780130, 780188, 780301, 780318, 780330, 780366, 780370, 780374, 780393, 780401, 780559, 780566, 780569, 870939
 accumulation rate, 780357
 ash, 780194, 780369
 deposition, 780301
 platform, 780313, 780320
 sediment distribution, 780301
 structure, 780083
 tholeiite, 590792
 volcanic activity, 780303, 780535, 780602
 volcanism, explosive, 780236
 volcano, 780085
 Kick'em Jenny, submarine volcanic edifice, 780094
 limestone, 780086, 780088, 780095
 lithification, 780036
 lithology, 150218, 150224, 780027, 780036, 780093, 780095, 780537, 780538
 lithostratigraphy, 780377
 magmatic activity, 780096, 780099, 780618
 magnesium, interstitial water, 780381, 780383
 magnetic activity, 780099
 magnetic anomaly, 780027, 780095
 accretionary complex, 780050
 margin, 780549
 microfabric, 780538, 780539
 microfossils, 780316
 mineralogy
 gabbro, 600587
 gabbro, amphibole, 600588
 gabbro, olivine, 600587
 Miocene, 780093, 780537, 780538
 morphology, 780065
 mudstone, forearc complex, 780539
 offscraping, subduction zone, 780005
 outer arc, 780083, 780086
 overthrusting, 780566, 780573
 oxygen isotope, interstitial water, 780382, 780383
 phyllosilicate, forearc complex, 780539, 780544
 plate tectonics, 780025, 780086, 780096, 780097
 Pliocene, 780538
 Pliocene-Pleistocene, volcanic activity, 150974
 regional location, 780006
 ridges, 780027, 780035, 780049, 780050, 780054
 rifting, 780090
 sea floor morphology, 780027
 sediment distribution, island arc, 780301
 sediments, 780042, 780054
 accretion, 780569
 compression, 780569
 deformation, 780566, 780569
 forearc complex, 780027, 780030, 780036, 780535, 780538, 780542
 lithology, 780093, 780095
 lithostratigraphy, 780377
 Miocene, 780093
 physical properties, 780549
 seismic reflection, 780008, 780042
 seismic velocities, 780053
 volcanic material, 780381, 780382
 volcanogenic, 780099
 seismic reflection, 780008, 780030, 780031
 spreading, backarc, 780091, 780096
 strontium isotope, interstitial water, 780381, 780382
 structure
 forearc, 780023
 island arc, 780083
 subduction, 840767
 Cenozoic radiolarians, 780447
 polarity, 780096
 subduction zone, 780005, 780025, 780027, 780086, 780096, 780549, 780566
 convergence, 780614
 deformation, 780006, 780566, 780569, 780601
 offscraping, 780005, 780549, 780601, 780611
 shortening rate, 780614
 subduction rate, 780569
 underthrusting, 780005, 780006, 780603, 780614
 submarine banks, 780086, 780088
 submarine valley network, 780065
 tectonic setting, 780602
 tectonics, 780005
 thrust fault, 780566, 780573
 forearc complex, 780535, 780537, 780542
 transform fault, 780027
 troughs, 780027, 780035
 tuff, pyroclastic, 780099
 underthrusting, 780034, 780036, 780086
 forearc complex, 780034, 780036
 vein structure, 780542
 forearc complex, 780542
 volcanic activity, 780086, 780094, 780099
 Pliocene-Pleistocene, 040003, 040010, 040424, 040592, 150974
 volcanic arc, 780006, 780025
 geodynamic evolution, 780083
 volcanic matter, 780381, 780382
 volcanic rocks, 780099
 volcanism, 780025, 780618
 Caribbean Sea, 150974
 volcanism, explosive, 780369
 island arc, 780236
 volcanism, submarine, 780094
 volcano, 780085
 Wadati-Benioff zone, 780096, 780569
 segmentation, 780086
 wedge, 780006
 Lesser Antilles Ridge, 780084, 780085, 780092, 780099

- slopes, 780093
 topography, 780091
Lesser Antilles Trough, 780031
 sedimentation, 780006
Lesser Sundra Islands. *See* Sunda Isles
 leucogranite, Ross Sea, basement, 280865,
 280866
leucoxene
 alteration
 mineralogy, 370781
 remnant arc debris, 590739
Cenozoic sediments, mineral composition,
 42B0418
East Mariana Basin, sedimentary history,
 890668, 890669
 lithology, 400048, 410170
 mineral, secondary, 370778
 alteration, low-pressure, 370781
 petrology, sand, 960499
Levant
 Algeria, continental shelf, 42B1183
 coast, 130158, 42A0906
 fault system, 42B1195
 Mediterranean Sea E, history, 42B1218
 Neogene formations, paleogeography,
 42A0903, 42A0904, 42A0906, 42A0921
 plate, 42B1195, 42B1218
Levant Abyssal Plain, 42B1216
 Mediterranean Sea E, history, 42B1216
Levant Salt Lake, 42B1195
 Mediterranean Sea E, history, 42B1216
Levantine Basin, 130005, 130225, 130253,
 130323, 130341, 130383, 130429, 130668,
 130739, 130744, 131002, 131046, 131266,
 131413, 170561, 42A0003, 42A0395,
 42A1024, 42A1092
biostratigraphy
 heat flow, 42A1140
 Mediterranean Sea, 42A1139
 calcium carbonate, 130669
 chlorite, 130669
 clay, 130669
 kaolinite, 130669
lithostratigraphy
 heat flow, 42A1140
 Mediterranean Sea, 42A1139
 Mediterranean Sea E, history, 42B1199,
 42B1201, 42B1204, 42B1210, 42B1216,
 42B1217, 42B1218, 42B1219, 42B1220
Messinian environments
 Lago Mare, 42A1024, 42A1025
 Messinian fossils, 42A1017
 salinity crisis, 42A1027
 mica, 130669
 montmorillonite, 130669
 Nile Fan, 130669
 Tethys, Mediterranean Sea, 42A0945,
 42A0947, 42A0948
 turbidites, 130668, 130669
Levantine Sea, 130355
 Paratethys, paleogeography, 42A0986
herzolite, 820417, 820527
 basalt
 basement, 240767
 California, Gulf of, 650581
 fracture zone, 540718
 midocean ridge, 820417, 820452
 petrology, 590676, 590679
 basement, chemical and magnetic
 stratigraphy, 450671
 boninite, geothermometry, 600697
 Melanesian Basin, ash, 610634
 ophiolite, Middle America Trench, 840791,
 840804
 plutonic rock, petrochemistry, 370684
 Siqueiros Fracture Zone, basalt, 540718
 uranium, distribution, 370552
herzolite, plagioclase
 basalt
 California, Gulf of, 650584, 650586
 fracture zone, 540718
 igneous rocks, geochemistry, 370675, 370678
 melting, tholeiite, olivine, 450516
Li
 alteration, basalt, 370563
 alteration minerals, trace elements,
 920495, 920496
 Atlantic continental margin, interstitial
 water chemistry, 100613, 160891, 230953
 Atlantic Ocean, geochemistry, 47B0434,
 47B0435
B, trace elements, 920491
 basalt
 alkali metal, 810755, 810760, 810761
 chemical variation, 340305, 340307
 petrology, 220459, 220461, 220463
 basement, petrology, 370695, 370701
 chemical composition, metal, 571259, 571262
Costa Rica Rift
 basalt, 690477
 carbonate, 690463
 crust, oceanic, aging, 511574
 diagenesis, interstitial fluid, 270473
 geochemical history, sedimentation, 710405
 geochemistry, 370695, 370701
 alteration, 220461
 andesite, 220463
 Cenozoic sediments, 42B0543, 42B0545,
 42B0551, 42B0557, 42B0563, 42B0597,
 42B0599
 chemistry, 220459, 340218
 Cretaceous and Cenozoic sediments, 480708
 mathematical treatment, 500701
 trace elements, 220459
 glass, chemical variation, 510979, 510982
Hess Rise, rocks, 620864
inorganic geochemistry
 Hess Rise, 620692
 Walvis Ridge, 750925
 interstitial water, 610603
 inorganic constituents, 071753
 sediment relationship, 870872
 interstitial water chemistry
 diagenesis, 640691
 Guaymas Basin, 640684
 hydrothermal alteration, 640692
Japan Trench
 interstitial water, 870868
 sediments, 571251, 571253, 571254, 571255
 major element, minor element, 500681
 mineralogy, Cretaceous and Cenozoic
 sediments, 480708
 Nankai Trough, interstitial water, 870866
 ooze, calcareous, pore water, 270473
 Pacific Ocean SE, basalt, 340218
 polymict breccia, clast, 600648
 rare earth, 460243
Rb, Brazil Basin, 720422
Red Sea
 geochemistry, 230989
 interstitial water, 230956
Rockall Plateau, basalt, 810796
 serpentinite, 370563
 sulfur isotope, minor element, 500681
 trace elements, 460243, 920491
see also lithium
Li/Al ratio
 Japan Trench, interstitial water, 870868
 Nankai Trough, interstitial water, 870866
Li/calcium ratio, Pacific Ocean SE,
 paleoceanography, 920598
Li/chlorine ratio, Atlantic continental
 margin, interstitial water chemistry,
 100613
Liberia, 410023
Libya, 130668, 150512, 230876, 800050,
 950262, 950468
 channel system, Tertiary, 131244
 coast, 131223
 Mediterranean Sea, sea level, 131244,
 131245, 131246, 131247, 131248, 131249,
 131250
Lichi Formation, Philippine Sea,
 Paleogene-Neogene, 310849
lignite, 360877
 Atlantic Ocean SW, basin, evolution, 360996
 coal, petrology, 670601
 coalification
 formation conditions, 670602
 Germany NW, 670602
 peat, 670602
 contact metamorphism, kerogen, 410824
 continental shelf, onshore geology, 400965,
 400970
 Falkland Plateau E, sedimentation, 360877,
 360880
Guatemala
 continental slope, 670602
 trench, 670518
Indian Ocean NE
 Cretaceous, 220723, 220745
 volcanic sediment, 220745
 isotopic study, hydrothermal alteration,
 590638
 kerogen, 410824
 laminated/nonlaminated sediments, organic
 geochemistry, 640922
 lithology, 220122, 360215, 480177
 mud, 960478
 lower fan, 960763
Mississippi Fan
 organic matter, 960758
 sediment, 960432
 organic chemistry, preservation, 870888
 organic geochemistry, 571296, 640718, 640880
 Cabo San Lucas, 640879
 gulf mouth, 640879
 organic matter, 670601, 960763
 geochemistry, 640860
 maturation, 500570
 petroleum generating potential, sediments,
 42B0732
 regional summary, 220818
 Ninetyeast Ridge, 220824
 sedimentary structure
 mud, silt-laminated, 960525
 sand, 960524
 silt, 960524
 volcanism, Madagascar, 250533
Ligurian Canyon, 130491, 130597, 131221
 ophiolite, 42A0946
 Tethys, Mediterranean Sea, 42A0945, 42A0946
Ligurian Plain, 130673, 42A0962
Ligurian Sea, 42A0938, 760888, 760889
 basin, 500809
 Moroccan Basin, margin, 500809, 500815
 Tethys, 760890, 760893, 760894
 drifting, 760885
 rifting, 760885
Ligurian Trough, Mediterranean Sea,
 evaporites, 131221
Liguride nappes, 110805
LIL element, 540063, 550604, 820460, 890471
 Azores, mantle, 370591
 basalt
 chemical variation, 340303, 340305, 340306
 chemistry, 450457
 geochemistry, 340283, 340284, 340285,

- basalt (Cont.)
 340286, 550601, 550603, 550604, 550605
 major element, 510996, 510999
 Mid-Atlantic Ridge, 820501
 midocean ridge, 610697, 820449
 Rb-Sr, 550704
 trace elements, 510996, 510999
 basement, petrology, 370695, 370696,
 370700, 370702
 Costa Rica Rift Zone, basalt, 830264
 depletion, 820483, 820491
 geochemistry, 370696, 370700
 mineralogical, geochemical relationships,
 370702
 petrology chemistry, 370695
 glass, chemical variation, 510982
 hot spot, 610697
 igneous rocks, geochemistry, 370657,
 370660, 370661, 370672, 370674, 370675,
 370678
 Japan, forearc, 870919
 Japan Trench
 minor element, 870647
 trace elements, 870647
 Nankai Trough, Japan Trench, 870651
 Pacific Ocean, basalt, 340283
see also hygromagnaphile elements
 Lim Fjord, 38S0043
 Limagne, 42A0958
 Liman Current, Pleistocene, Pliocene
 foraminifers, 310695
 limburgite
 Africa SE, volcanism, 250532
 Rio Grande Rise N, regional setting, 250689
 volcanic rocks, petrography, 200691
 Wake Guyots, 200678, 200679, 200682,
 200687, 200691
 lime
 basalt, petrology, 580854
 Caribbean Sea, sediments, 150934, 150939
 cement, 140164
 Hess Rise, post-Jurassic sedimentation,
 620821
 lithology
 ooze, diatomaceous, 140164
 sandstone, quartzose, 140164
 Limerick, 810043
 limestone, 040066, 040098, 060022, 060045,
 060224, 060295, 060297, 060298, 060299,
 060352, 060540, 060541, 070053, 070056,
 070328, 070478, 090039, 100007, 100008,
 100126, 100259, 100261, 100265, 100313,
 100314, 110016, 110109, 120047, 130121,
 130243, 130265, 130341, 131236, 150022,
 150279, 150333, 150368, 170053, 170266,
 180100, 180216, 180236, 190281, 190292,
 190329, 190375, 190417, 190418, 190466,
 200071, 200098, 210060, 220042, 230040,
 230171, 240406, 240472, 250031, 250243,
 250294, 260331, 280218, 280223, 300180,
 300181, 310319, 320022, 320083, 320318,
 320545, 330044, 330045, 330111, 330167,
 330308, 330309, 360032, 360214, 360881,
 360884, 360886, 370242, 380164, 380166,
 380453, 380530, 380656, 390147, 390239,
 390241, 390376, 400197, 400203, 400204,
 400206, 400207, 400363, 400364, 410172,
 410428, 42A0068, 42A0156, 42A0182,
 42A0231, 430043, 430101, 430115, 430210,
 430211, 430335, 440079, 440162, 440167,
 440169, 440170, 440342, 440343, 440345,
 47B0683, 480080, 480081, 480133, 480137,
 480175, 480179, 480221, 480225, 480226,
 490163, 490233, 490357, 490393, 500043,
 500044, 500127, 500131, 510045, 510047,
 510363, 510755, 510758, 510761, 510762,
 510764, 510765, 751243
 400364, 400995, 410172, 41S0963, 41S0964,
 41S0965, 41S0966,, 430335, 440463, 510753
 acoustic properties, Pacific Ocean N, 620999
 Africa E, coast, 250682
 Africa NW, continental margin, 410970,
 410972, 410974, 411126, 790449, 790837
 Africa SW, continental margin, 400474
 Al-Jadida, carbonate platform, 790449
 Albian, lipid, 620923, 620924, 620925,
 620926, 620927, 620928, 620929, 620930,
 620931, 620932, 620933, 620934, 620935
 algae, 320537, 320538
 Algeria, continental shelf, 42B1182, 42B1183
 Alps, 110614, 110616
 alteration, products, 511274, 511275
 Angola Basin
 Cretaceous, 751010
 geologic evolution, 750518
 lithology, 750847
 nodular, 400526
 anhydrite, compressional wave velocities,
 130596
 Antigua Formation, ice sheet, 780088
 Apennines S, 100645, 110805, 110813,
 110817, 130982, 131115, 42A0944, 42A0945
 central, 110806, 110811
 Aptian and Albian
 magnetic fabric, 620977
 paleomagnetism, 620983
 Arabian Sea, sediment history, 230506
 aragonite, 320537
 relict, 510760
 ash, 320545
 Atlantic continental margin NE, evolution,
 440951
 Atlantic continental margin NW, evolution,
 440951, 440955, 440956, 440957, 440958
 Atlantic Ocean
 Cenozoic sediment, 140791, 140842,
 140844, 140845, 140871
 Cretaceous, 750820
 Cretaceous sediment, 140791, 140842,
 140844, 140845, 140871
 margin, 481102, 481104
 Atlantic Ocean C, basin, 511506
 Atlantic Ocean N
 eastern, 480921
 Mediterranean Sea, 110806, 110810,
 110811, 110812, 110813, 110817, 110818,
 110820
 paleogeography, 121177
 Atlantic Ocean NC, 820543
 Mesozoic sequences, 410992, 410993,
 410998, 410999, 411002, 411004, 411007,
 460973
 Atlantic Ocean NE, evolution, 411221,
 411222, 411223, 411225, 411234, 411239,
 411243
 Atlantic Ocean NW
 lithology, 110903, 110909, 110911,
 110918, 110919, 110920, 110921, 110944
 microfacies, 440483, 440487, 440489
 regional aspects, 110954, 110956, 110967,
 110971
 sedimentary evolution, 430791, 430793,
 430794, 430795, 430797, 430806
 sedimentation, 440971, 440974, 440977,
 440978
 Atlantic Ocean S, 720821
 magnetic anomaly, 391113
 Mesozoic, 751039
 Rio Grande Rise, 391127
 Santos Plateau, 391108
 Atlantic Ocean SE
 paleoenvironmental evolution, 740665,
 740666
 sedimentary evolution, 400999
 Atlantic Ocean W
 Demerara Plain, 040662
 reflection horizon, 040672
 augite, 320545
 Australia W, continental margin, 270575
 azimuthal distribution, Aptian and Albian,
 620978
 Bahama Islands, geology, 110877, 110882,
 110884, 110885, 110887, 110888, 110889,
 110895
 barite, authigenic, barite, 410915
 Barremian-Aptian, 130263
 basalt, 170055, 320537, 320545, 490165
 geochemistry, 490611
 magnetism, 41S0955, 41S0995, 41S0996,
 41S0997, 41S0998
 midocean ridge, 820409
 basalt, altered, geochemistry, 580809
 basement, 370045, 370292
 bedding, 170055, 190171
 bedding, graded, 170152
 beef-in-shale, 360866
 recrystallization, 360865
 benthic foraminifers, 170053, 320538
 Bermuda Rise
 Cretaceous, 511429
 paleomagnetic directions, 511429, 511430
 bioclastic skeletal debris, 170053
 biogenic sediment, diagenesis, 300454,
 300456, 300460, 300461, 300470
 Biscay, Bay of, shale, black, 480843
 Black Sea, interstitial water, 42B0641,
 42B0643
 Blake Basin, 760733, 760741, 760742,
 760771, 760775, 760926, 760930
 Blake Spur, 440069, 440413
 bottom current, 170152
 breccia, 130228, 170152, 490237
 basalt, 42A0541
 Toarcian, 790677
 bryozoan fragments, 320537
 bryozoans, 170053
 burrow mottling, 370030
 burrows, 170055, 170059, 170152
 CaCO₃, 931263
 calcareous nannofossils, 140023
 calcisphaerulids, 510761
 calcite, 140023, 170055, 170152, 170153,
 170288, 510754, 510755, 510758, 510759,
 510760, 510764, 510765
 calcite, ferroan, 41S0964, 41S0966
 calcite, sparry, 170055
 calciturbidites, 500733
 carbonate, 500738
 calcium carbonate, 190171
 carbon, organic, 620869, 620872
 Callovian ()-Oxfordian, 110079
 Campanian, 110014
 Campeche Bank
 biostratigraphy, 100679, 100681
 sediments, 100007
 Cantabria Knoll, Paleocene, 121189
 Cape Basin
 Cretaceous to Pliocene, 400491, 400493
 nodular, 400526
 shale, black, 711028
 Cape Bojador, continental margin, 47A0773,
 47A0780, 47A0781, 47A0807, 47A0808,
 47A0809
 Caraquito Formation, Venezuela N, 790653
 carbon isotope, foraminifers, 170591, 170600
 carbon, organic, 931263
 carbonate, 140023, 170053, 170055, 170059,
 170290

- carbonate (Cont.)
 carbon isotope, 170505
 carbon, organic, 711051, 711058, 711060
 diagenesis, 140424, 170409, 170414,
 170417, 170421, 170425, 170426,
 320521, 320903
 fossil preservation, 140424, 170409,
 170414, 170417, 170421, 170424, 170425,
 170426
 lithification, 320904
 oxygen isotope, 170505
 Pacific Ocean W, 070977
 redeposited clastics, 760820
 shallow-water, 430422, 430423
 carbonate, diagenetic, isotopic survey,
 630595, 630596, 630601, 630606
 carbonate mineral, stable isotopes, 550654,
 550655
 carbonate platform, Al-Jadida, 790479
 Caribbean Sea C
 biomicrite, 150774
 cementation, 150776
 cementation gradient, 150775
 chalk, 150773, 150774
 compaction, 150776
 lithification, 150776
 micrite, 150774
 neomorphism, 150776
 Olausson classification, 150773
 ultrastructure, 150775
 vein, 150775
 Caroline Abyssal Plain, chalk, 200065,
 200071, 200074
 cementation, 510755
 Central America, western continental slope,
 840935
 chalcedony, 170053
 chalk, nannofossil, 170152, 510753
 Chatham Rise
 distribution, 901327
 phosphatization, 901327
 chemical composition, metal, 571259
 chemistry, bulk, contamination, 630706
 chert, 140023, 170152, 170153, 300435,
 320434
 geochemistry, 620712
 oxygen isotope, 620749
 Pacific Ocean E, 160610
 petrology, 620712
 siltstone-carbonate cycle, 300436
 chert nodule, 300241
 clast, 42A0328, 890403
 reef, 580643, 580646
 clast, volcanic, 510759
 clastic sediment, Cretaceous, 401043
 clay, 130390, 170055, 170152, 190171
 clay, black, 430797
 clay minerals, 140023, 170153
 Cretaceous and Cenozoic, 480705, 480711
 Miocene-Pleistocene, 47A0600
 Pacific Ocean NW, 200338
 clay, red, 120763
 cocoliths, 130341
 compaction, 170055, 170152
 compressional and shear wave velocities,
 270445
 compressional wave velocities
 basement, 130596
 dolomitization, 130596
 evaporites, 130596, 130597
 gabbro, 130595
 Hellenic Trough, 130596
 schist, 130595
 compressional wave velocity, Mediterranean
 Sea, 130595
 cone-in-cone texture, 360866
 recrystallization, 360865
 conglomerate, 170055
 clast, 580646
 continental shelf, onshore geology, 400965,
 400967, 400968, 400969, 400974
 Coral Sea E, geology, 300659
 Costa Rica Rift
 carbonate, 690463
 chalk, 690407
 siliceous rocks, 690423
 Cretaceous, 120051, 120052, 120053, 120054,
 120055, 130274, 140023
 organic geochemistry, 480921
 origin, 620877, 620878, 620879, 620881,
 620882, 620883, 620884, 620885, 620886,
 620888, 620889
 Pendragon Escarpment, 800885
 Cretaceous reef, 580643, 580646
 Cretaceous sediments, 250736
 Cretaceous-Paleocene sequence,
 sedimentology, 47B0419
 Cretaceous/Tertiary boundary,
 paleoenvironmental history, 740685
 crystal formation, 510761
 Curie temperature, Aptian and Albian, 620978
 current bedding, 130339
 cyclic sedimentation, 170055
 Cyprus, evaporites, 42B1186, 42B1188,
 42B1189, 42B1191, 42B1192
 Daito Ridge, 580629
 Cretaceous reef, 580643
Nummulites boninensis-bearing, 580634
 sandstone, 580609
 Demerara Plain N, 040662
 dentation, 510762
 deposition, 300440, 440080, 480163, 950774,
 950779, 950786, 950787, 950789, 950797
 calcareous sediment, 220769
 diagenesis, 170055
 mineral, 47A0747
 siliceous sediments, 500725
 slope sediments, 840573, 840574, 840583
 diagenesis, burial, pelite, 230439
 diatom fragments, 190171
 dissolution, carbonate, 400994, 400995,
 400996
 dolomite, 130263
 isotope geochemistry, 42A0543
 dolomitization, 42A0613
 Pliocene, 42A0621, 42A0622, 42A0623,
 42A0624, 42A0625, 42A0626
 East Mariana Basin, 890390
 sedimentary history, 890656, 890657
 echinoids, 170053
 Eocene, 320537, 430112
 Eocene neritic, Nevis, 780090
 equatorial sediment bulge, Eocene, 850974
 erosion, 170055
 Essaouira Basin, Jurassic, 790863
 evaporites
 Messinian, 42A0600
 Miocene, 131236
 Falkland Plateau, shale, black, 711051
 Falkland Plateau E, sedimentation, 360880,
 360881, 360884, 360886
 feldspathic sediment, abyssal, 200359
 ferromanganese sediment, 190630
 aragonite, 190632
 lithologies, 190630
 Florida, Straits of, paleoenvironment,
 770379, 770382
 foraminifers, 170152, 320537
 fore-reef facies, 170053
 formation density, 870837
 gabbro, compressional wave velocities,
 130596
- Galicia Bank, tectonics, 47B0666
 gas hydrate, trench slope, 670608
 geochemistry, 390489
 carbonate, 390481
 Rio Grande Rise, 720430
 geologic setting, 620983
 Cretaceous, 840923
 geological, geophysical setting, seismic
 data, 390949
 Georges Basin, Iroquois Formation, 790717
 glass, 170055
 glass, volcanic, 170153
 glauconite, Campanian to Maestrichtian,
 220737
 Goban Spur
 continental margin, 801158, 801161
 evolution, 801203, 801206
 geochemistry, 801034
 grading, 170053, 170055, 170152
 grainstone, 090039
 Grande Terre, Oligocene, 780093
 Greenland Sea
 basalt, 38S0242
 geologic setting, 38S0210, 38S0214
 Voring Plateau, 38S0200, 38S0205
 Guatemala
 offshore sediment, 840619, 840621
 slope sediment, 840930, 840931
 upper slope, 840928
 Gulf of Mexico
 asphalt, 770477
 origin, 770477
 Hellenic Trough
 compressional wave velocities, 130596
 Cretaceous, 131112, 131113, 131114,
 131115, 131117
 hematite, 170153
 Hess Rise, 620923, 621036, 621039, 621042,
 621051, 621052, 621058, 621071
 acoustic properties, 620999
 lamination, 621044
 microfossils, 320511
 organic matter, 621044
 origin, 620877
 post-Jurassic sedimentation, 620827
 pyrite-marcasite, 620855, 620859, 620860,
 620861
 rocks, 620863
 Hess Rise N
 post-Jurassic, 620806, 620813
 sedimentary sequences, 620759, 620761,
 620765
 Horizon Tablemount, 170293
 hyaloclastic mounds, 170059
 hydrocarbon, light, 410859
 Iberian margin W, evolution, 47B0761
 igneous rocks
 Cretaceous, 840948
 Maestrichtian, 840948
 Indian Ocean C
 noncarbonate sediment, 220495
 terrigenous components, 240682
 Indian Ocean NE, Cretaceous, 220723, 220737
 Indian Ocean S, geologic history, 260925
 Indian Ocean W
 mineralogy, 130605
 regional aspects, 250757
 terrigenous components, 240661
 tropical, 240641
Inoceramus-rich Santonian, 721021
 inorganic chemistry, Jurassic, 440581
 inorganic geochemistry, 620685
 Hess Rise, 620690, 620691, 620693
 Mid-Pacific Mountains W, 620685
 interbedding, 170055
 intercalation, 140023

- intercalation (Cont.)
 Saint-Barthelemy, 780088
 interlayered sediment, 490236, 490394
 interstitial water, 090845, 38S0130
 interstitial water, mineralogical studies,
 recrystallization, 410913
 intraclast, 320537
 Ionian Abyssal Plain, 42A0621
 dolomitization, 42A0621
 Ionian Basin
 compressional wave velocities, 130596
 Cretaceous, 131112
 Iroquois Formation, Georges Basin, 790717
 isotope geochemistry, 42A0541
 isotopes, stable, carbonate, 130785
 Italy, paleomagnetism, 760218
 Jan Mayen Ridge, 38S0098
 Jurassic, 790439, 790443, 790857
 Africa NW, 790449
 Atlantic Ocean, 760859
 biota, 790451, 790452
 breccia, 790439, 790440, 790470
 calcisiltite, 790465
 carbonate cementation, 790452
 carbonate platform, 790458, 790459
 cavities, 790452
 claystone, 760851
 cyanobacterial crust, 790453
 deeper-water platform, 790465, 790468,
 790469
 deposition, 790453, 790464
 Essaouira Basin, 790863
 geologic evolution, 790474, 790476
 grainstone, bioclastic, 790453
 marl, 760851
 nodular, 790439, 790441, 790471, 790472
 ooze, 790455, 790457
 sediment history, 790453, 790459, 790463,
 790472, 790474
 stromatolite, 790472
 wackestone, 790453
 wackestone, cyanobacterial oncolitic,
 790457
 Jurassic-Cretaceous, 440492, 440493
 Atlantic Ocean NW, 440465
 Bahama Banks, 440463
 Blake Basin, 440463
 carbonate, 790859, 790863, 790866,
 790867, 790868, 790869, 790875, 790876,
 790879, 790880, 790881, 790885
 Mazagan Escarpment, 790868
 Morocco, 790450
 petrology, 440463, 440464, 440466
 $^{40}\text{K}/^{40}\text{Ar}$ age, Goban Spur, 800945
 Kimmeridgian, 440204
 Koko Seamount, 320537
 shallow water, 320538
 lamination, 140023, 170055, 170152, 510753,
 510755
 lamination, wavy, 320083
 lava flow, 510762
 Lesser Antilles, 780086, 780088, 780095
 limestone, oolitic, Ita Mai Tai Guyot,
 200098
 Line Islands, 080289, 080462, 080539, 090058
 stratigraphy, 330849
 tectonics, 330740, 330741
 lipid, Albian, 620923
 lithification, 320545, 510765
 Maestrichtian, 170053
 magnetic fabric, Aptian and Albian, 620977
 magnetic properties, 790837, 790843
 magnetism
 Jurassic - - 41S0955, 410995,
 41S0995, 410996, 41S0996, 41S0997,
 410998, 41S0998, 410999, 41S0999 - - -
- 411000, 41S1000, 411001, 41S1001
 magnetization, Africa NW, 790837
 magnetostratigraphy
 Cretaceous sediments, 400463
 Eocene, 850854
 Maio, Tithonian/Berriasian calcionellids,
 790654
 major element, 850783
 noncarbonate component, 850784
 major sediment types, 47A0027
 Manihiki Plateau, 330882
 diagenesis, 330884
 Marie Galante, reef, 780088
 marl, zeolitic, 140297
 material, 850782
 Mattinata, 110817, 110818
 Mazagan Escarpment, 790241, 790371, 790372,
 790373, 790463, 790863, 790897, 790902,
 790905, 790914
 Jurassic, 790449
 Jurassic and Cretaceous, 790372
 Jurassic-Cretaceous, 790868
 Oxfordian, 790096
 Mazagan Plateau, 790370, 790395, 790837,
 790842
 Mediterranean Sea, 131075
 evaporites, 131204
 lithified sediments, 130727, 130728
 lithostratigraphy, 131034
 Messinian, 130673, 130675
 mineralogy, 130605
 mountain belts, 790412
 Neogene, 131257
 sea level, 131249
 Mediterranean Sea E, history, 42B1196,
 42B1201, 42B1203
 Mellish Seamount, post-Jurassic
 sedimentation, 620834, 620839
 Meriadzek Terrace, 480083
 Mesozoic, Barremian-Aptian, Neocomian,
 710448
 Mesozoic deposits, 47B0051, 47B0052,
 47B0053, 47B0054
 Mexico, Gulf of, 760924
 oil-stained, 770070
 regional aspects, 010634
 micrite, 170055, 510758, 510759
 microfossil "ghosts", 510759
 microspar, 320537, 320538
 nannofossils, 320538
 Mid-Pacific Mountains, 200669, 621079,
 621084, 621088, 621092, 621107
 acoustic properties, 620999
 burrow, 621092
 carbon, organic, 621090
 clastic, 621088, 621103, 621110
 Cretaceous, 620877
 lamination, 621091, 621094
 oolitic, 621110
 siliceous, 621090, 621091
 tuffaceous, 621090
 Mid-Pacific Mountains W, Aptian sediments,
 620908, 620915
 mineralization, iron oxide, 220471
 mineralogy, 38S0117
 noncarbonate fraction, 850796
 minor sediment types, 47A0028
 Miocene, 130341
 mollusk fragments, 320537
 Monte Sant'Angelo, 110817, 110819
 montmorillonite, 170055
 Moroccan Basin
 breccia, 790677
 margin, 500809, 500811, 500813
 Morocco
 coast, 751229
- continental margin, 790450
 Mount Carmel, Cretaceous, 770429
 Mozambique Ridge, volcanic sediment, 250529
 mud, terrigenous, organic geochemistry,
 400561, 400566
 mudstone, exotic, 010523
 nannofloral analysis, 711060
 Albian, 711058, 711059
 Aptian, 711060
 preservation, 711059
 nannofossil relicts, 510761, 510762
 nannofossils, 190171
 Neocomian, 110109, 440204
 Neocomian-Tithonian, 110057
 Neogene formations, paleogeography,
 42A0908, 42A0910, 42A0914, 42A0915
 Nevis, Eocene neritic, 780090
 New Jersey Transect, 950807, 950808
 stratigraphy, 950767
 nitrogen, 931263
 nodular, 410239
 Norwegian Sea
 basalt, 38S0242
 geologic setting, 38S0210, 38S0214
 Voring Plateau, 38S0200, 38S0205
 Oligocene, Grande Terre, 780093
 oolite, 41S0964, 41S0965, 41S0966
 ooze, carbonate, 510753
 ooze, nannofossil, Malekula, 300432
 opal, 170053
 organic geochemistry
 Angola Basin, 750464
 Cretaceous, 480921, 480922, 480923,
 480925, 480926
 organic matter
 Albian, 38S0665
 petrology, 40S0665
 origin, 42A0541
 basalt, carbonate-cemented, 42A0543
 Gulf of Mexico, 770477
 Orphan Knoll, Cenomanian-Albian, 121181
 Oxfordian, 440204
 Oxfordian-Kimmeridgian, 110079
 oxygen isotope
 foraminifers, 170591, 170600
 geochemistry, 350507
 oxygen isotope, stable, 410943
 Pacific Ocean, guyots, 620773
 Pacific Ocean N
 acoustic properties, 620999
 magnetic fabric, 620977
 Pacific Ocean NE, cruise synthesis, 151085,
 151086, 151098, 151101
 Pacific Ocean NW, geochemical history,
 620787, 620789, 620798
 Pacific Ocean SW
 Cenozoic, 300681
 island arcs, 300700, 300703
 Pacific Ocean W
 equatorial, 071170
 guyot, 200655, 200664
 Pacific Plate, Japan, 200019
 packstone, 090039
 palagonite, 170055, 320545
 paleoenvironment, 47B0416
 paleomagnetic measurement, 511429
 stable inclination, 511429
 paleomagnetism, Italy, 760218
 palygorskite, 411087
 palynological residue, organic matter,
 maturation index, 640747
 Panama Basin, sediments, 690385
 pelagic ooze, 510753, 510755, 510761, 510765
 petrography, 250094, 510755, 510758
 aggrading neomorphism, 510756
 calcite, 510756

- petrography (Cont.)
 glass, altered, 510756
 petrology, 42A0541, 440463
 deposition, 440465
 diagenesis, 440466
 sedimentology, 440463
 Philippine Basin, genesis, 310870
 Philippine Sea, lithology, 061171, 061172,
 061248
 physical properties, 390247, 751229, 751236
 ooze, carbonate, 061171, 061172
 sound velocity, 061248
 physiography, 870613
 plagioclase, 170055, 320545, 510759
 planktonic foraminifers, 130341, 170055
 Pleistocene sediments, 110141
 Pliocene, 42A0621, 130264
 Pliocene-Quaternary reefal, Sombrero, 780089
 pods, 190171
 porcellanite, 950503, 950661
 chert, 320434
 Eocene, 430438
 preliminary organic analyses, 160575
 pyrite, 140023
 pyroxene, 170055
 quartz, 140023, 170152, 510759
 radiolarian ghosts, 170053
 radiolarian "ghosts", 510758
 radiolarians, 140023, 170152
 rare earth elements, Eocene, 850797
 recrystallization, 110905, 140023, 170053,
 510753, 510755, 510757, 510758, 510759,
 510761
 Cretaceous, 140845
 index, 510758, 510759
 reflectors R1-R7, 510758
 recrystallized pelagic sediments, 510764
 Red Sea, geology, 230814
 redeposition, 170152
 reef, 170295
 Pliocene-Quaternary, 780088
 reflection horizon, basement, 040672
 Reflector, 4, 120451
 regional geology, seismostratigraphy, 801193
 regional problems
 carbonate, 061303
 crust, 061302
 relicts, 510759
 rifting, geology, 481042
 Rio Grande Rise
 age, 390966
 Cretaceous/Tertiary boundary, 721014
 deposition, 390965
 Eocene sedimentation, 721007
 Mesozoic, 721014
 mineralogy, 721016
 regional setting, 390959, 390961, 390966
 sediment, 720427, 720428
 sedimentation, 721017
 sonic velocity, 390965
 subsidence, 720965, 720966, 720968, 720974
 Rio Grande Rise N, regional setting,
 250691, 250693, 250694, 250697
 Saint-Barthelemy, intercalation, 780088
 sand, 100121
 Miocene, 47A0693
 sandstone, 170055, 580609
 Santos Plateau, 390931, 390936, 390943
 origin, 390936, 390940, 390943, 390944
 sapropel, 130263
 schist, compressional wave velocities,
 130596
 sediment
 Cretaceous-Eocene, 840947
 lithology, 38S0117
 sedimentary sequence, lithology, 200727
- sedimentation
 Biscay, Bay of, 480679
 tectonics, 47B0666
 sedimentation rate, Aptian and Albian,
 620978
 sedimentology, 100699
 Mexico, Gulf of, 100709, 100710, 100711
 sediments, Blake Basin, 760443, 760446,
 760473, 760659, 760664, 760665, 760667,
 760671, 760672, 760682, 760685, 760689,
 760691
 semiconsolidated, 721022
 sepiolite, lithology, 411087
 shale, 140023
 organic geochemistry, 400561, 400566
 shale, black, Biscay, Bay of, 480886,
 480891, 480892
 shallow water, 440413
 Atlantic Ocean NW, 440444
 Blake Plateau, 440413, 440445
 Blake Spur, 440413, 440414, 440416,
 440417, 440430, 440445
 France, 440430
 Great Bahama Bank, 440424, 440428, 440445
 Persian Gulf, 440425
 shallow-water, 040066, 100314
 Shatskiy Rise, microfossils, 320511
 silica, 140023
 diagenesis, 410888
 siliceous sediment, 500725
 slumping, 170152
 Sombrero, reef, 780089
 sonic velocity, 320962
 sorting, 320545
 South Fiji Basin
 geology, 300617, 300625
 volcanic components, 210483
 Southern California Borderland, volcanic
 rocks, 630951
 spar, 320538, 510759
 sponge spicules, 140023
 Sr, paleoceanographic reconstitution, 720405
 stable isotope, 150795, 150796, 150802,
 510762
 stable isotope ratios, 510762
 carbonate, 510764
 Caribbean Sea C, 150795
 glass, 510763
 synrift sediments
 Barremian, 800930
 Barremian-Hauterivian, 801175
 tectonic history, 430793
 Cretaceous, 430793
 deposition, 430791
 depositional environment, 430794, 430795
 J-Anomaly Ridge, 430806
 Jurassic, 430793
 Neocomian, 430793, 430794, 430797
 tectonics, Norwegian Basin, 381221
 Tethys, Mediterranean Sea, 42A0944, 790412
 Tethys N, margin, 440951, 440955, 440956,
 440957, 440958
 Timor, deep-water, 270567
 Timor Trough, limestone, dolomitic, 271012
 Tithonian, 440204
 Tithonian-Neocomian, 110225, 110226
 trace elements
 Eocene, 850791
 Hess Rise, 621047
 noncarbonate fraction, 850786
 partitioning, 850796
 strontium, 850785
 tuff, 170153
 turbidites, 120763, 170059, 170152, 320545
 Guatemala, 840925
 shallow-water, 500733
- Tyrrenian Basin
 isotope geochemistry, 42A0541
 origin, 450541
 petrology, 42A0541
 vein, 130264
 Vigo Seamount, 47B0026
 volcanic grains, 320537
 volcanic material, 170053
 Volcanic rocks, petrography, Geisha Guyots,
 200682
 volcanic sediment, 170055
 volcanioclastic mounds, 170059
 volcanoclastics, Eocene, 720957
 volcanogenic minerals, 170152
 Walvis Ridge
 Cretaceous to Pliocene, 400491, 400493
 transect, 740648, 740658
 West Indies, 780236, 780301, 780309, 780374
 components, 780083, 780088
 tectonics, 780301
 zeolite, 140023, 170153
 zeolitic cements, 170055
 limestone, algal
 Albian, 620935
 Cyprus, evaporites, 42B1192
 Galicia Bank, tectonics, 47B0663
 Rio Grande Rise N, regional setting, 250694
 sedimentation, earliest known sediments,
 47B0663
- limestone, aragonitic
 ferromanganese sediment, sediment
 chemistry, 190631
 Pacific Ocean N, mineralization, contact,
 190906
 limestone, argillaceous
 Atlantic Ocean C, basin, 511505
 Atlantic Ocean NC, Mesozoic sequences,
 410994, 410996, 411007
 Atlantic Ocean NE, evolution, 411215
 carbonate
 carbon isotope, 170505
 oxygen isotope, 170505
 lithology, 410030, 410172
 Moroccan Basin, margin, 500812
 limestone, argillaceous nannofossil
 deposition, 950787
 New Jersey Transect, stratigraphy, 950767
 limestone, ash-bearing
 lithology, chert nodule, 300241
 Mid-Pacific Mountains W, Aptian sediments,
 620903
- limestone, bioclastic
 Atlantic Ocean NW, sedimentary evolution,
 430810
 Barremian-Albian sediment, lithology, 800910
 Biscay, Bay of N, continental margin, 481041
 Florida, Straits of, paleoenvironment,
 770381
 Galicia Bank, tectonics, 47B0663
 lithology, 430117
 Aptian-Albian, 430131
 Mediterranean Sea E, history, 42B1201,
 42B1219
 Neogene formations, paleogeography, 42A0908
 Pacific Ocean W, guyot, 200664
 sedimentation, earliest known sediments,
 47B0663
- shale, black, Biscay, Bay of, 480888
 tectonic, Cretaceous rudist reefs, 430810
 limestone, brecciated
 Shikoku Basin, Miocene, 580702
 West Mariana Basin, Miocene, 580702
- limestone, calcareous
 Atlantic Ocean S, Rio Grande Rise, 391124
 chert, geochemistry, 620712
 lithology, 440167

- limestone, calcitic
lithology, chert, 170053
Pacific Ocean SW, unconformities, 210708
- limestone, calpionellid
continental margin, structural evolution, 481042
lithology, 500138
- limestone, carbonaceous
Aptian-Albian, 481148
Atlantic Ocean, margin, 481104
Atlantic Ocean NE, Cretaceous, 800885
Cretaceous, 620885, 800885
cyclic sedimentation, 800888
environmental evolution, 800895
interrupted sedimentation, 800896
lithology, 800885, 800886
mineralogy, 800886, 800888
organic matter, 800888
oxygen-depleted environment, 800896
paleoenvironment, 800888
sedimentology, 800885
terrigenous influx, 800896
dissolution, 481148
Hess Rise, origin, 620872
hiatuses, 481149
- limestone, Albian, 620923
lithology, 480133, 480135
Mid-Pacific Mountains, 621090
Mid-Pacific Mountains W, 620685
Aptian sediments, 620903
- limestone, chalky
Atlantic Ocean NC, Mesozoic sequences, 411000, 411001, 411002
lithology, 160058
- limestone, cherty
Atlantic Ocean N
Mediterranean Sea, 110811
sedimentation, 120928
- Atlantic Ocean NW, microfacies, 440484
- carbon isotope, foraminifers, 170591
- carbonate
carbon isotope, 170505
oxygen isotope, 170505
- lithology, 120447, 440077
- chalk, 120411
ooze, limestone, 120411
oxygen isotope, foraminifers, 170591
- Pacific Ocean NE, chalk, 200033
- Pacific Ocean W, equatorial, 071170
- Rockall Rise, mineralogy, 101132
- limestone, clastic
Angola Basin, biostratigraphy, 750450
- limestone, Cretaceous, 620885
- Pacific Ocean NW, geochemical history, 620797
- limestone, clayey
Atlantic Ocean C, basin, 511505
- Atlantic Ocean NW, regional aspects, 110970
- carbon isotope, stable, 410937
oxygen isotope, stable, 410937
- limestone, coquina
Bahama Islands, geology, 110885
continental shelf, onshore geology, 400967
- Pacific Ocean W, guyot, 200660
- limestone, crystalline, lithology, 440343, 440345
- limestone, detrital
carbon isotope, foraminifers, 170591
- evaporites, Miocene, 131238
oxygen isotope, foraminifers, 170591
- limestone, diagenetic
Atlantic Ocean S, Sierra Leone Rise, 391122
carbonate, diagenetic, isotopic survey, 630597
- dolomite, isotope geochemistry, 42A0545
- origin, basalt, carbonate-cemented, 42A0545
- limestone, dolomitic
Atlantic Ocean S, Mesozoic, 751037
- Campeche Bank, biostratigraphy, 100681
- carbonate, diagenetic, isotopic survey, 630597
- clastic sediment, Cretaceous, 401043
- continental shelf, onshore geology, 400967
- dissolution, carbonate, 400996
- geochemistry
carbonate, 390478
Cenozoic sediments, 42B0558
- lithology, 070053, 100313, 100316, 150280, 390149, 390150, 400365
- Messinian environments, salinity crisis, 42A1005
- Mexico, Gulf of, regional aspects, 100743
- Santos Plateau, origin, 390931
- Timor Trough
aragonite, 271012
calcite, 271011, 271012
dolomite, 271011
molluscan fragments, 271011
recrystallization, 271012
semilithified, 271011
shallow-water origin, 271012
- limestone, faulted
Bahama Islands, geology, 110883, 110888
- continental margin, structural evolution, 481047
- limestone, flaser
Rio Grande Rise
Cretaceous/Tertiary boundary, 721014
Paleocene sedimentation, 721007, 721012, 721014
- limestone, foraminiferal
crust, fracture zone, 920308
- Jan Mayen Ridge
cement, calcareous, 38S0098
coral, 38S0098
- Jan Mayer Ridge, 38S0098
- lithology, 210337, 330112, 400206, 400207
minor sediment types, 47A0028
- magnetostratigraphy, Cretaceous sediments, 400463
- limestone, foraminiferal nannofossil
Atlantic continental margin NW, evolution, 440956
- lithology, 320318, 320325, 330112, 330308, 42A0238, 480225
minor sediment types, 47A0027
- sapropel, Cretaceous, 620896
- Tethys N, margin, 440956
- limestone, fossiliferous
Atlantic Ocean, 790416
- Indian Ocean W, terrigenous components, 240661
- lithology, 260284
clast, 390240
- Rockall Rise SW, structure, 481075
- limestone, green
Atlantic Ocean NW, lithology, 110905
- inorganic geochemistry, Mid-Pacific Mountains W, 620685
- Line Islands, stratigraphy, 330849
- limestone, gypsum-rich, lithology, 250031, 250032
- limestone, hyaloclastic, lithology, carbonate, 170289
- limestone, indurated
carbonate, 190630
mineralogy, 190630
- limestone, laminated
calcium carbonate, carbon, organic, 620869
- Cretaceous, 620879, 620882, 620884
- Hess Rise
post-Jurassic sedimentation, 620820
- rocks, 620863, 620864, 620868
- limestone, micritic
Atlantic Ocean NW, lithology, 110919
- Atlantic Ocean S, Mesozoic, 751035
- Black Sea, sediments, 42B0378
- calciturbidites, 500733
alteration, 500745
carbonate platform, 500744
deposition, 500745
nannofossil content, 500744
porosity, 500744
reprecipitation, 500745
shallow-water source, 500744
- Cape Bojador, lithologic classification, 500019
- continental margin, structural evolution, 481047
- flysch, 500751
- gas hydrate, trench slope, 670605, 670607
- gas, natural, zonation, 110794
- Guatemala, slope sediment, 840930
- Jurassic-Cretaceous, carbonate, 790879
- lithology, 130264, 280125, 290125, 330043, 330044, 330045, 360033, 360212, 360214, 390107, 480133, 500128, 500129, 500138
- volcanic sediment, 170055
- Neogene formations, paleogeography, 42A0914
- Philippine Sea, lithology, 061171
- physical properties, ooze, carbonate, 061171
- sandstone, foraminiferal, phillipsite, 42A0478
- silica, diagenesis, 410890
- limestone, microfossil-bearing
Goban Spur, tholeiite, oceanic, 800939
- $^{40}\text{K}/^{40}\text{Ar}$ age, Goban Spur, 800945
- limestone, nannofossil, 190631
- Atlantic Ocean N, Mediterranean Sea, 110806
- Atlantic Ocean NE, evolution, 411218
- Atlantic Ocean NW, sedimentary evolution, 430812
- Atlantic Ocean S, Campanian-Maestrichtian, 720821
- basalt, petrology, 580843, 580846
- calcium carbonate, carbon, organic, 620872
- carbonate
diagenesis, 170414, 170419
fossil preservation, 170414, 170419
redeposited clastics, 760797, 760798
- Caroline Abyssal Plain, chalk, 200071
- chert
geochemistry, 620731
oxygen isotope, 620749
petrology, 620731
- siltstone-carbonate cycle, 300436
- deposition, 950787
- ferromanganese sediment, 190631
- lithologies, 190630
- Galicia Bank, tectonics, 47B0665
- Guatemala, offshore sediment, 840620
- limestone, Cretaceous, 620879
- lithology, 190024, 300181, 330169, 330308, 400197, 410173, 480225, 510045
- argillaceous, 410329
- chert, 170053
- limestone, 170053
- Mesozoic deposits, 47B0053, 47B0054
- minor sediment types, 47A0027, 47A0028
- Neogene sedimentation, lithology, 47A0607
- Oligocene-Pleistocene sediments, crust, 920293
- Pacific Ocean W
equatorial, 071165
- volcanic rocks, 210483
- paleoenvironment, Hauterivian to Cenomanian, 47B0404
- palynomorphs, Cretaceous, 47B0452

- Rio Grande Rise, 720762
sediment, 720426
Rio Grande Rise N, regional setting, 250693
sedimentation, acoustic stratigraphy,
47B0665
sedimentation, rhythmic,
oxidation-reduction cycle, 47B0728
South Fiji Basin, volcanic components,
210483
tectonic, carbonate, 430812
volcanic components, 210483
limestone, nannofossil foraminiferal
lithology, 330112
chert nodule, 300239
minor sediment types, 47A0027
packstone, 330112
wackestone, 330112
limestone, neritic
formations drilled, exposed land, 42A0899
Rio Grande Rise N, regional setting, 250695
limestone, nodular
Africa, continental margin NW, 410984
Atlantic continental margin NW, evolution,
440955
Atlantic Ocean N, Mediterranean Sea, 110812
Jurassic-Cretaceous, carbonate, 790869,
790875, 790876, 790879
lithology, 480179
Pacific Ocean NW, grain size, 060709
Tethys N, margin, 440955
limestone, nummulitic
formations drilled, exposed land, 42A0898
Rio Grande Rise N, regional setting,
250694, 250697
limestone, oolitic
Bahama Islands, geology, 110878, 110879
East Mariana Basin, sedimentary history,
890655
Ita Mai Tai Guyot
calcite, 200098
carbonate, 200097
carbonate reef, 200101
Eocene, 200098
mud, lime, 200101
near-reef facies, 200101
physical properties, 200100
Pliocene, 200098
sand, foraminiferal, 200098
Tertiary, 200097
volcanism, 200101
Tethys N, margin, 440951
limestone, organic-carbon-rich, calcium
carbonate, carbon, organic, 620872
limestone, pelitomorphic, sedimentation,
Biscay, Bay of, 480682, 480865
limestone, perireef
Bahama Islands, geology, 110877, 110887
lithology, 110016
Campanian, 110014
Campanian-Santonian, 110015
limestone, phosphatic
Cape Bojador, continental margin, 47A0809
Greenland Sea, basalt, 38S0242
Norwegian Sea, basalt, 38S0242
Pacific Ocean W, guyot, 200657
seismic stratigraphy, rise crest, 901332
limestone, radiolarian, 150022, 300238,
300239, 300241, 320080
Atlantic continental margin NW, evolution,
440955
bedding, 300239, 300240, 300241
bottom current, 300241
carbonate
diagenesis, 320904
sediments, 320893
chert nodule, 300239, 300240
chlorite, 300239
clay minerals, 300239, 300241
diagenesis, mineral, 47A0751
feldspar, 300239, 300241
Galicia Bank, tectonics, 47B0666
glass, volcanic, 300239, 300241
interbedding, 300240, 300241
paleoenvironment, 47B0416
calcite compensation depth, 47B0415
pyrite, 300239, 300241
recrystallization, 300240
sedimentation, tectonics, 47B0666
stylolites, 300240
Tethys N, margin, 440955
tuff, vitric, 300241
limestone, radiolarian nannofossil
Atlantic continental margin NW, evolution,
440955, 440958
lithology, 320083, 320164
Tethys N, margin, 440955, 440958
limestone, recrystallized
Atlantic Ocean
Cenozoic sediment, 140845, 140871
Cretaceous sediment, 140845, 140871
Atlantic Ocean N, Mediterranean Sea, 110810
Atlantic Ocean NW, lithology, 110905
basalt, petrology, 160626
Cape Bojador, continental margin, 47A0794
geochemistry, emplacement mode, 160626
Hess Rise N, post-Jurassic, 620815
Indian Ocean NE, sediment history, 220720
lithology, 160024, 220041, 220122
basement, 110226
limestone, red, 440503
Atlantic Ocean C, basin, 511505
Atlantic Ocean NW, lithology, 110903,
110905, 110911, 110912, 110913, 110914,
110915, 110916, 110918
geochemistry
aluminum, 440505, 440509
carbon, organic, 440505
iron, 440504
Jurassic, 440504
manganese, 440504
 SiO_2 , 440505
titanium, 440505, 440509
trace elements, 440505
inorganic geochemistry, Mid-Pacific
Mountains W, 620685
Jurassic, Mazagan Escarpment, 790045
lithology
origin, 440346
Oxfordian-Kimmeridgian, 110079, 110226
Mazagan Escarpment, 790048
Mediterranean Sea, 110806, 110810
Oxfordian, Mazagan Escarpment, 790115
Rio Grande Rise
limestone, flaser, 721012
sediment, 720427
Sicily, 721012
limestone, reefal
Atlantic Ocean NW, sedimentary evolution,
430810
Mediterranean Sea E, history, 42B1196
sedimentary evolution, Blake Escarpment,
430810
tectonic history, J-Anomaly Ridge, 430810
limestone, reefoidal, Neogene formations,
paleogeography, 42A0908, 42A0921
limestone, reworked
amino acid, sugar, 42B0702
carbonate, ^{18}O , 42B0617
sugar, 42B0702
limestone, rudistid, Pacific Ocean W, guyot,
200657, 200658, 200660, 200661, 200664,
200666
limestone, shallow-water
Atlantic Ocean S, Rio Grande Rise, 391125
continental margin, structural evolution,
481047
limestone, siliceous, 890390, 890395
Africa, continental margin NW, 410973,
410975
Atlantic Ocean N, Mediterranean Sea, 110810
Atlantic Ocean NW, microfacies, 440484
calcium carbonate, carbon, organic, 620869
carbonate, 890390, 890395
Caroline Abyssal Plain, chalk, 200069,
200071
chert, 890391
porosity, 890395
clay, zeolitic, 890390
crust, oceanic, geology, 920572
diagenetic facies, Coniacian to Eocene,
210497
East Mariana Basin, sedimentary history,
890654, 890657
Hess Rise N, post-Jurassic, 620813
Indian Ocean S, geologic history, 260927
Indian Ocean W, diagenetic structures,
241068
infilling, 890390
limestone, Cretaceous, 620879
lithology, 040130, 160156, 160157, 160416,
210336, 260363, 300180, 390240, 390241,
410028, 410030, 430335, 480133
Line Islands, 080140
microfossils, 890390
Mid-Pacific Mountains, 621090
Mid-Pacific Mountains W, Aptian sediments,
620903
ooze, nannofossil, 890390
Pacific Ocean, guyots, 620775
Pacific Ocean C, 080819
Pacific Ocean NE
cruise synthesis, 151086
Pliocene, 200035, 200037
porosity, 890390, 890396
sapropel, Cretaceous, 620895
sedimentary sequence, lithology, 200725,
200727
turbidites, 890367
volcaniclastics, 330875
limestone, skeletal
Atlantic Ocean N, Mediterranean Sea,
110806, 110818
Jurassic sedimentation, 790443
lithology, 440343
limestone, stylolitic, Angola Basin,
sedimentary structure, 400536
limestone, tuffaceous
Mid-Pacific Mountains, 621090
Mid-Pacific Mountains W, 620685
Pacific Ocean NW, geochemical history,
620786, 620787, 620789
limestone-chert sequence
geochemistry, 620724
interstitial water, 610603
Pacific Ocean, 080819, 080821
calcareous nanoplankton, 080821
chert, 080819, 080822, 080829
nodule layers, 080821
stringers, 080821
limestone-dolomite sequence, Bahama Islands,
geology, 110883, 110885
limestone-marl alternation
Cretaceous, 770339
cyclic sedimentation, 770341
Vocantian Basin, 770339
Florida, Straits of, paleoenvironment,
770382
limonite, 130706, 730696

- basalt, 830343
 flow, 730689
 potassium-argon age, 42A0531
 Bermuda Rise, basalt, 511206, 511209, 511211
 carbonate, diagenesis, 320525
 Cenozoic sediments, mineral composition, 42B0418
 debris, shallow-water sediment, 41S0949
 Emperor Seamounts, petrology, 550582
 evaporites, Mediterranean Sea, 130702, 130706
 geochemistry, 060832
 iron oxide, hydrated, 010563
 lithology, 040066, 060044, 180236, 220120, 260080, 270134, 290321, 390105, 390107, 390150, 490342
 ash, 130194
 clay, red, 120682, 120765
 Cretaceous, 110109
 diagenesis, 490245
 Eocene, 110013
 marl, zeolitic, 140297
 Oxfordian-Kimmeridgian, 110226
 Pliocene, 110012
 sapropel, 130194
 turbidites, 120765
 mineral, secondary, East Pacific Rise, 650647
 mineralization, secondary, oxide minerals, oxidative changes, 540809
 mineralogy
 basalt, 220422
 metabasalt, 220421
 oolite, Ita Mai Tai Guyot, 200364
 Philippine Sea, lithology, 061135
 physical properties, clay, 061135
 sand, 060723
 seean, lithology, 061135
 limonite-goethite, lithology, ooze, foraminiferal, 130424
 limonite-hematite, lithology, 390051
 limonitization, Jurassic-Cretaceous, carbonate, 790881
 Limpopo, 250736
 Lincolnshire, 800614
 Lindenkohl Canyon, 950732, 950733, 950752
 sea floor morphology, 950732, 950752
 Lindi
 Africa E, coast, 250679, 250682
 Rio Grande Rise N, regional setting, 250695, 250697, 250698
 Line Islands, 070607, 071172, 080007, 080017, 080022, 080045, 080061, 090924, 160915, 160942, 160948, 170005, 170017, 170047, 170052, 170063, 170444, 170673, 170916, 320215, 320296, 320954, 330005, 330589, 330593, 330695, 330837, 430032, 430746, 430852, 430855, 550853, 610038, 610121, 610147, 610450, 610451, 610542, 610817, 610820, 610821, 610824, 610852, 610859, 610861, 620545, 620549, 620556, 620668, 621021, 621104, 621112, 890018, 890339, 890399, 890664, 890665
 basalt
 K/Ar age, 330649
 volcanism, 330651
 bathymetry, 330731
 bedding, slumped, 330837
 boninite, crystallization, 600701
 breccia, 330837
 seamount chain, 330750, 330753, 330754
 burrow mottling, 330837
 burrows, oceanic formation, 090934
 chert, silicification, 330855
 conglomerate, 330837
 Cretaceous to Quaternary, 330837
 Cross Trend Chain, 070003, 071173, 170913, 330006, 330038, 330435, 330680, 330731, 330734, 330735, 330739, 330740, 330742, 330744, 330781, 330918
 cross-lamination, 330837
 diagenesis, 330789
 evolution, 330851
 age difference, 330852
 deposition rate, 330852
 gravity flow, 330851
 hot spot, 330852
 migration rate, 330852
 plate movement, 330851
 volcanism, submarine, 330851
 grading, 330837
 iron-titanium-rich sediment, 330833
 K-feldspar, formation, 330789
 K/Ar age
 basalt, 330649
 volcanism, 330651
 lamination, 330837
 oceanic formation, 090934
 lithology, 330126, 330318
 New England Seamounts, testing origins, 430855
 ooids, 890399
 Pacific Ocean EC, stratigraphy, 090934, 090937
 Pacific Ocean W, equatorial, 071173
 petrology, volcanic rocks, 330749
 physical properties, 330695
 redeposited reef faunas, paleographic implications, 610817
 Rio Grande Rise N, regional setting, 250697
 scouring, 330837
 seamount chain, 170022, 170911, 330126, 330756, 330790
 seamounts, ridges, volcanic origin, 330781
 sedimentation, oceanic formation, 090934, 090937
 silt, 330837
 sound velocity, density, 330695
 source
 carbonate, 330837
 volcanic terrane, 330837
 stratigraphy
 breccia, volcaniclastic, 330849
 Campanian, 330850
 chalk, 330849
 chert, 330849
 claystone, 330849
 Clipperton Oceanic Formation, 330849
 limestone, 330849
 lithology, 330849, 330850, 330851
 Oligocene to Quaternary, 330849
 oozes, cyclic, 330849
 synthesis, regional, 330915
 tectonics, 621067
 Equator, 330731
 hot spot, 330731
 Mid-Pacific Mountains, 330731
 morphology, 330731, 330732, 330733, 330734, 330735, 330736
 regional geology, 330736, 330737, 330738, 330739, 330740, 330741, 330742, 330743, 330744
 seamount chain, 330731
 Tuamotu Archipelago, 330731
 transport, 330837
 Tuamotu Archipelago, 550005
 seamount chain, 330301
 volcanic rocks, petrology, 330749
 volcanics, Cretaceous, 330789
 volcanism, 330651, 610821
 volcanogenic constituents, breccia, 330837
 Line Islands Oceanic Formation, 080018, 080035, 080040, 080063, 080064, 080137, 080139, 080289, 080462, 080539, 080623, 080903, 090010, 090058, 090212, 090215, 090408, 090452, 090490, 090542, 090759, 090934, 090943, 090945, 090947, 090952, 160942, 330849, 350069, 350389
 depositional history, 160942
 Pacific Ocean EC, geologic history, 090924, 090928
 physical properties, measurements, 090945
 lionhardite, Costa Rica Rift Zone, basalt, 830221
 Lions, Gulf of, 42A1042, 42A1045, 130465, 130466, 130491, 130691, 130775, 131220, 131258, 131439, 42A0059, 42A0999
 basement, Sardinia, 130779
 fault, 42A1048
 formations drilled, exposed land, 42A0897, 42A0899, 42A0901
 Mediterranean Sea, evaporites, 131221
 Messinian environments, salinity crisis, 42A1011
 petrology, igneous rocks, 130779
 lipid, 571367, 571373, 571382, 571387, 610617, 620923, 630763, 630768, 630770, 630771, 640913, 640917, 660557, 660564, 660571, 660581, 660583, 660585, 860671, 950663
 acid fraction, 610613
 acyclic components
 clay minerals, 610615
 degradation, 610615
 higher-plant-wax characteristics, 610615
 major contributors, 610615
 odd/even predominance, 610614
 oxic water column, 610615
 productivity, 610615
 sediments, terrigenous input, 610615
 volatile components, migration, 610615
 Africa NW, continental margin, 571387
 age, 860671
 age estimation, 660581
 Albian, Hess Rise, 620923
 alcohol, acyclic components, 640914
 alcohols, 571367, 610613, 630763, 640913
 alcohols, acyclic, tetracosanol, 630767
 alcohols, cyclic
 Black Sea, 640914
 dinosterol, 630767, 640914
 homohopanol, 640914
 hydroxyalkanones, 640914
 keto-ols, 640914
 stanol, 630767
 stenol, 640914
 sterol, 630767, 640914
 trimethylcholesterol, 640914
 algae source, contributions, 640917
 algal source organic material, 610617
 aliphatic alcohols
 even-number alkenals, 571377
 hopanoid alcohols, 571381
 hydroxy group, 571381
 alkane, 630771, 660564, 860671
 enrichment, 960788
 alkane, acyclic isoprenoid, absence, 610615
 alkane, polycyclic, 610617
 alkanol, distribution, 571387
 alkanone, 660564
 alteration, diagenetic, 640913
 Amazon River, terrigenous, 390498
 amino acid
 alkane, 42B0697
 carbon, organic, 42B0698
 diagenesis, 42B0697
 fatty acid, 42B0697
 glucose trend, 42B0698

- amino acid (Cont.)
 hydrocarbon, 42B0697, 42B0698
 hydrocarbon, cyclic, 42B0697
 isoprenoid, 42B0697
 organic input, 42B0697
 ribose trend, 42B0698
 soluble organic compounds, 42B0697
 terrigenous origin, 42B0698
 Angola Basin, 38S0659
 biogenic sediments, 751089
 Cretaceous, 751009, 751011, 751017
 shale, 38S0659
 Atlantic Ocean N, 480965, 480966, 480971, 500647, 500661
 alkane, 38S0659
 allochthonous contribution, 38S0660
 anoxic conditions, 38S0660
 Atlantic continental margin, 500659, 500660, 500661
 branched-chain components, 500654
 carbon, 38S0659
 carboxylic acid, 480969, 500651, 500653
 chain components, straight, branched, 480971
 cyclic components, 480972, 480973
 dehydroabietic acid, 38S0660
 diagenesis, 500661
 diterpenoid, 38S0660
 fatty acid, 38S0659
 hopane, 38S0660
 hydrocarbon, aliphatic, 480967, 480969, 500648
 hydrocarbon, aromatic, 38S0660, 480969, 500649
 hydrocarbon, polynuclear aromatic, 500658, 500659
 hydroxy carbolic acids, 480970
 maturity, 500661
 metalloporphyrin, 500647, 500648
 norhopane, 38S0660
 origins, 38S0659
 porphyrin, 38S0660, 500649, 500650, 500651
 porphyrin, nickel, 500659
 pristane/phytane ratio, 38S0659
 sterene, 38S0660
 steroid components, 500655, 500656, 500657
 straight-chain components, 500654
 terrigenous components, 38S0660
 triterpenoid, 500658
 Atlantic Ocean NE, 410855
 Atlantic Ocean S, Quaternary sediments, 720833
 Atlantic Ocean W, 47B0565
 bacterial origin, 860671
 bacterial source, contributions, 640917
 Baja California, 630763
 biological markers, 630771
 Biscay, Bay of, 480935, 480965
 continental slope sediments, 571387
 bitumen, geochemistry, 42B0687
 Blake Basin, 571387
 humic substances, 440587
 source, 440587
 Blake-Bahama Basin, 440587
 sources, 440587
 burial, 660583
 burial depth, shallow, 610617
 calcium carbonate, 660581
 California Borderland, 630763
 California Continental Borderland, marine sediments, 660564
 California, Gulf of, 640913
 organic geochemistry, 640883
 California S, 630763
 Cape Bojador
 carbon, 47B0559
 geochemistry, 47A0541
 carbon, 571368, 660581
 dilution, 571387
 geochemistry, 310634, 38S0655, 380797, 410849, 410853, 42B0717, 42B0720, 430652, 440605, 440606, 440611, 440614, 480947, 480948, 500625, 571319, 571320, 571322, 571324
 Pleistocene increase, 660581
 carbon, organic, 610613, 610617, 660581, 660584, 740731
 lipid, extractable, 610615
 carbonate, 571387
 carboxylic acid, 571367, 630763
 distribution, bimodal, 640914
 even-odd preference, 640915
 straight-chain components, 640914
 unsaturated, branched components, 640915
 carotenoid, 571367, 571383
 carotene, beta, 571384
 diatoxanthin, 571384
 xanthophylls, 571384
 CCD, 571387
 chlorine, 630763, 630771
 classes, major components, 640917
 clay, diatom, Quaternary, 630763
 claystone, calcareous, Miocene, 630763
 common marine input, 571387
 comparisons, 630771
 alkanoic acid, branched, 660569
 allochthonous sources, 660569
 aromatic components derivation, 660569
 composition, 660569
 geographic location, 660569
 microbial population differences, 660569
 preservation, 660569
 components, 630763, 660564
 composition, 860671
 compound classes, 571367, 660564
 compound identification, 640913
 compounds, distribution, 630763
 concentrations, 660564
 condensate, 660583
 condensate yields, 660585
 continental margin, preservation, paleoenvironment, 630945
 Cretaceous/Tertiary boundary, geochemistry, 860671
 cyclic components
 allochthonous terrestrial input, 610616
 bacterial input, 610616
 burial depth, 610616
 diastereoisomers, 610615
 geothermal gradient, 610616
 higher plants, 610616
 immature marine sediments, 610615
 volcanism, 610616
 deposition, 630763, 640913
 depositional environment, 630771
 diagenesis, 571367, 571387, 660567
 acid clay catalysis, 640916
 acid enrichment, 630771
 alcohols, 630770
 alkalinity, 640917
 California Borderland, 640916
 chlorine, 630770
 clay, 630771
 defunctionalization, 630770
 diagenetic pathways, proposed, 640916
 double-bond migration, 630771
 geothermal gradient, 630771
 hopanoid alcohol, 640917
 immature sediments, 640916
 immature stage, 630770
 isomerization, 640917
 Japan Trench, 630770, 630771, 640916
 mature epigenetic input, 630770
 recent sediments, 640917
 rederived material, 640917
 sediment maturity, 630771, 640916
 steroid distribution, 630770
 syngenetic input, 630770
 terrigenous input, 630770
 thermal maturation, 630770
 diagenetic status, 630763
 diasterene, 571387
 formation, 630771
 stabilization, 571368
 dinoflagellate blooms, 640917
 distribution, 640913, 640917
 diterpane, absence, 610615
 East Pacific Rise, Cenozoic sediments, 950409
 environmental setting, 571384
 Eocene, 480935
 ethers, 571373
 ethers, long chain, 571374
 fatty acid, bound, 571381, 571382
 fatty acid, hydroxy, 571382
 gas, natural, 660584
 oil, crude, 660583
 geochemistry, 860671, 860672
 age, 610628
 autochthonous marine material, 610628
 biogenic source molecular markers, 610627
 claystone, zeolitic, 610627
 CPI, 610627
 Cretaceous/Tertiary boundary, 860671, 931211
 degraded algae, bacterial origin, 610627
 erosion, 610628
 fatty acid, 610627
 higher-plant-wax derivation, 610627
 hydrocarbon, 610627
 maturity, 610628
 Melanesian Basin, 610627, 610628
 microbial origin, 610627
 Nauru Basin, 610627
 odd/even predominance, 610627
 ooze, calcareous radiolarian, 610627
 organic matter, 610627
 Pacific Ocean WC, 610627
 paleoenvironment, low-oxygen, 610627
 pristene/phytane ratio, 610627
 redeposition, 610628
 sedimentary detritus, 610627
 terrigenous higher plant wax residues, 610628
 terrigenous influence, 610627
 transport, 610628
 turbidite, 610627, 610628
 geologic time increase, 660583
 geothermal heat flux, 630771
 Guaymas Basin, 640913
 deposition, 640917
 Pleistocene, 640913
 Quaternary, 660564
 Hess Rise, 620923
 Albian sediment, 620939, 620940, 620941
 limestone, 620923
 pyrite-marcasite, 620860
 homologous series, 630763
 hopane, predominance, 610617
 hopanoid ketone, 571387
 hopene, 571387
 humic acid, 571367, 571383, 711049
 humic substances, sources, 440587, 440588, 440589
 hydrocarbon, 630763, 640913
 thermal maturity, 660571
 hydrocarbon, acyclic, 630763

- hydrocarbon, acyclic isoprenoid, 640917
 hydrocarbon, aliphatic, 571367, 571369, 571372
 acyclic components, 640913
 hydrocarbon, aromatic, 571367, 571372, 610613, 630763
 hydrocarbon, cyclic, 630764, 630766
 hydrocarbon, extractable, organic petrology, 580760, 630832
 hydrocarbon, steroid, distribution, 630763
 hydrocarbon, unresolved naphthenic, 860671
 hydrocarbon, unsaturated, 610613
 hydrogen, 571368
 abstraction, 660583
 hydrogen sulfide, formation, 660583
 hydrogen/carbon ratio, 660583
 hydroxylalkanones, marine origin, 640917
 inorganic residue, 571368
 input considerations
 migrated components, 610617
 terrigenous origin, 610617
 insoluble organic matter, 870892, 870894
 isoprenoid, enrichment, 960788
 Japan Trench
 autochthonous components, 571387
 comparison, 660569, 660571
 depositional environment, 571387
 distributions, 571387
 origin, 571386, 571387
 Quaternary sediments, 660564
 transformation, diagenetic, 571387
 ketone, 571367, 610613, 630763, 630771
 ketone, acyclic, 630766, 630767
 ketone, aliphatic, 571375
 ketone, long-chain, 630771
 ketone, steroid, 630763
 ketone, unsaturated long-chain, 571376
 laminated/nonlaminated sediments, organic geochemistry, 640921, 640922, 640924
 limestone
 Albian, 620923, 620924, 620925, 620926, 620927, 620928, 620929, 620930, 620931, 620932, 620933, 620934, 620935
 Cretaceous, 620885
 longer chain components, 571387
 lower trench slope sediments, 660581
 maceral, autochthonous terrigenous higher plants, 870881
 major contributor, 610615
 marine components, lower abundance, 660564
 maturity, 610617, 630763
 Melanesian Basin, 610613, 610617
 metabolism, microbial, recycling, 860671
 metalloporphyrin, 630763
 methanogenic bacterial activity, 640917
 methyl esters, 610613
 methyl ketone, distribution, 571387
 methylene chloride, 660581, 660583
 Mexico S
 deposition, 660557
 diagenesis, 660557
 input sources, 660557
 Quaternary sediments, 660557
 microbial activity, 610617
 microbial population differences, 660571
 Middle America Trench, 660564
 oceanic plate, 660569, 660571
 Quaternary sediments, 660557, 660571
 slope, 660571
 migrated components, 610617
 Miocene-Pleistocene biogenic oxidation, 660581
 Mississippi Fan, biomarker, 960763
 molecular markers, 860672
 mud, terrigenous, organic geochemistry, 400561, 400566, 400567, 42B0749, 42B0752, 47A0541, 47A0542, 47A0543, 47A0544, 480935, 480936, 480937, 480938, 480939
 Nankai Trough, insoluble organic matter, 870891
 neutrals, 610613
 nitrogen, 571368, 660581
 Norwegian Sea, opening, 480969
 oil
 Nauru Basin, 610617
 seepage, 660571
 oil, heavy crude, 660583
 oil window, 610617
 organic analyses, classes, 440618
 organic geochemistry, 380783, 410815, 590647, 590648, 630837, 630838, 630839, 630851, 640718, 640719, 640877, 640883, 640884, 640885, 640886, 640887, 640890, 640902, 750466
 organic input, 630763
 organic matter, 610617, 660581, 660585
 organic matter, source, 640917
 oxygen, 571368
 Pacific Ocean, bottom sediments, 571316
 Pacific Ocean NE, 630763
 Pacific Ocean NW
 geochemistry, 860671, 860672
 metabolism, microbial, 860671
 molecular markers, 860672
 sources, 860672
 Pacific Ocean SE, 920409
 eolian input, 920414, 920415
 paleoenvironment, 630768, 630769, 630770, 660564, 660567
 acyclic components, 640915, 640916
 acyclic isoprenoid components, 660565
 algae, 660567
 paleoenvironmental conditions, constancy, 640917
 paleotemperature, 610617
 Patton Escarpment, 630944
 marine/terrigenous mixture, 630944
 terrigenous origin, 630944
 petroleum generating potential, 660581
 sediments, 42B0732
 Philippine Sea S, carbon, organic, 610615
 physiochemical parameters, 571384, 571385, 571386
 porphyrin, nickel, 630771
 preferential degradation, 571387
 productivity, 571386, 610617, 660564
 productivity history, 640917
 productivity level
 anoxic sediments, 630771
 bottom water, oxic, 630771
 burial, 630771
 preservation, 630771
 quartz, 571384
 recent sediments, 640917
 regional heating, 610617
 rising temperatures, exposure, 660583
 Rockall Plateau, mudstone, 480935
 San Miguel Gap, 630763
 San Miguel Island, 630944
 marine/terrigenous mixture, 630944
 terrigenous origin, 630944
 sediment
 Cenozoic, 950409
 Cretaceous/Tertiary boundary, 931211
 sediment accumulation rate, 630771
 sediment immaturity, 660571
 sediment maturity/geological framework, relationship, 610613
 sedimentary biomass, major contributors, 640917
 sedimentary environment, 640917
 shale
 geochemistry, 430644
 organic geochemistry, 400561, 400566, 400567, 42B0749, 42B0752, 42B0753
 shallow sediment, comparison, 630763
 short, low-temperature history, 660581
 short-chain material, 571387
 sill, off ridge, 610617
 sources, 571387, 860672
 sponges, 630771
 squalane, 571387
 sterane, 571387, 610613
 steroid, 571387
 sterol, 630771, 660564
 Stevens Klint, Denmark, geochemistry, 931211
 sulfate, biogenic reduction, 660585
 sulfur, 571368, 660581, 660584
 kerogen, 660583
 lower trench slope, 660584
 sulfur, elemental, 660581, 660583, 660585
 interaction, 660585
 surface sediments, 950665
 terrigenous, 630771
 terrigenous components, 430643
 terrigenous organic matter, 610617
 terrigenous origin, 630771, 640917, 660564
 tetracycline, 630763, 630767, 630768
 thermal episode, 610617
 thermolysis, increasing degrees, 660583
 thermolytic degradation, 660583, 660585
 trimethylcholesterol, 640917
 triterpane, 610613
 underlying volcanic complex, influence, 610616, 610617
 upper slope, 660581
 Vigo Seamount
 carbon, 47B0559
 Cretaceous sediments, 47B0565, 47B0566, 47B0567, 47B0569
 geochemistry, 47B0565
 Walvis Bay
 Quaternary, 660564
 sediment comparison, 571387
 Walvis Ridge
 alkanol, 751093
 biogenic sediments, 751089
 distributions, 751094
 sediment comparison, 571387
 sediments, 751080
 source, 751094
 water column, oxic conditions, 610617
see also shale, black
 lipid, acyclic, shale, black, Cretaceous, 751022
 lipid, algal, limestone, Albian, 620934
 lipid, allochthonous
 Atlantic Ocean S, Quaternary sediments, 720833
 carbon, geochemistry, 571324
 diagenesis, 660569
 lipid
 paleoenvironment, 660567
 shale, black, 410855
 Middle America Trench
 oceanic plate, 660569
 Quaternary, 660557, 660571
 lipid, altered, organic geochemistry, 640902
 lipid, autochthonous marine geochemistry, 610628, 640880
 laminated/nonlaminated sediments, organic geochemistry, 640921
 shale, black, 410855
 lipid, bacterial, Middle America Trench,

- oceanic plate, 660569
- lipid, marine geochemistry, 571324, 610628
 - Baja California, 640941
- lipid, microbial geochemistry, 610627, 630839
- Hess Rise, Albian sediment, 620939
- organic geochemistry, molecular markers, 630840
- lipid, terrigenous
 - Amazon Ridge, 390497
- carbon, geochemistry, 571324
- carbon, organic, hydrocarbon, aliphatic, 740732
- carbonate-rich samples
 - Amazon River, 390498
- Atlantic Ocean S, 390497
- carbon, 390497
- dehydroabietic acid, 390498
- fatty acid, 390497
- pristane/phytane ratio, 390498
- Ceara Rise, 390497
- intralobe basin organic matter, biomarkers, 960760
- laminated/nonlaminated sediments, organic geochemistry, 640924
- mud, terrigenous, organic geochemistry, 42B0753
- organic geochemistry, Baja California, 640941
- Pacific Ocean SE, eolian input, 920414
- shale, organic geochemistry, 42B0753
- tetrapyrrole, geochemistry, 630808
- liptinite
 - Cape Basin, shale, black, 711030
 - coal, petrology, 670601
 - Guatemala, continental slope, 670601
 - hydrocarbon, low molecular weight, 711035
 - hydrocarbon, extractable, organic petrology, 580758, 580760, 630825, 630828, 630831, 630832, 640841, 640843, 640848, 640849, 640850
 - kerogen, 870898
 - Mazagan Escarpment, 790781, 790782, 790784, 790798
 - organic geochemistry, 571296, 720827, 870888
 - Angola Basin, 750461
 - reduction trend, 571298
 - organic matter, 670601
 - Aptian-Jurassic, 711016, 711018
 - petrology, 500609
 - Tertiary-Albian, 711019
 - organic matter maturity, 800984
 - petroleum generating potential
 - organic matter, 640872
 - sediments, 42B0732
 - plant organic matter, petrographic composition, 380816
 - shale, Aptian-Barremian, 711016, 711018
 - Vigo Seamount, shale, 47B0524
 - Walvis Ridge, sediments, 751070
 - liptinite, algal, hydrocarbon, extractable, organic petrology, 640848, 640851
 - liptinite, structured, hydrocarbon, extractable, organic petrology, 630833, 630834, 640837
 - liptobiolite, organic matter, petrology, 500568
 - Lisbon, 790893
 - north small basins, 760870
 - Lisbon Formation, 360282
 - litharenite, feldspathic
 - Mississippi Fan, sediment, 960432
 - sand, 960494
 - sedimentology, 960502
 - lithification, 120054, 130721, 131039,
 - 210108, 210273, 210381, 210497, 240021, 240200, 280084, 280125, 280155, 280182, 280216, 280338, 290275, 310193, 310443, 320080, 320198, 320298, 320299, 320319, 330044, 350068, 380166, 380453, 400234, 410188, 410973, 42A0473, 430331, 440079, 480145, 500143, 500743, 751243, 840749, 840751, 840752, 950527, 950528
 - ash, 320545
 - Atlantic Ocean N, Mediterranean Sea, 110806, 110810
 - Atlantic Ocean NW
 - lithology, 110909, 110918, 110919, 110922, 110924, 110936, 110942
 - regional aspects, 110951, 110956
 - Baltimore Canyon Trough, 950592
 - Blake Basin, 760741
 - Brazil Basin S, 720524
 - calciturbidites, diagenesis, 500743
 - carbon, deep-sea sediments, 580748
 - carbon isotope, 300420, 720412
 - ^{13}C , 720412
 - carbon isotope, stable, 410943
 - burial, 410937
 - carbonate, 320904, 320905
 - calcite, 320904
 - calcium, 320904
 - carbon isotope, 170506, 320904
 - compaction, 320905
 - diagenesis, 210506, 320904
 - dissolution, 320904
 - Jurassic, 790422
 - limestone, 320904
 - loss, 320904
 - magnesium, 320904
 - ooze, carbonate, 320904
 - oxygen isotope, 170506, 320904
 - pore fluids, 320904
 - shallow water, 320904
 - strontium, 320904, 320905
 - Caribbean Sea, sediments, 150932, 150945
 - chalk, 800853
 - chert, 280751
 - clay, siliceous, 271005
 - claystone, siliceous, 271005
 - deformation, 210497
 - deposition
 - chalk, nannofossil, 250496, 250497
 - ooze, nannofossil, 250496, 250497
 - diagenesis
 - aspects, 901486, 901487
 - carbonate, 210506
 - oxygen isotope, 300420
 - diagenesis, burial
 - chalk, 800861
 - pelite, 230439, 230441
 - dolomite, diagenetic, mud, anoxic diatomaceous, 640555
 - East Mariana Basin, sedimentary history, 890656
 - faults, fractures, sand-filled fracture, 870819
 - Great Abaco Member, 760741
 - Indian Ocean E, abyssal plain sediment, 271008
 - intersite comparisons, 850845
 - age, 850846
 - interstitial water, 090845
 - isotopic study, interstitial water, 590636
 - Japan, convergent margin, 560576
 - Japan Trench, 870825
 - structural feature, 870825
 - Lesser Antilles, 780036
 - limestone, 320545, 510765
 - Caribbean Sea C, 150776
 - stable isotope, 150795, 150796, 150802
 - lithology
 - carbonate, 170153
 - diagenesis, 410188, 500143
 - limestone, 120054
 - ooze, calcareous, 440084, 440085
 - physical properties, 480145
 - sandstone, 120050
 - Lord Howe Rise N, 210715
 - Mediterranean Sea, 42A0473
 - lithostratigraphy, 131039
 - Mexico, Gulf of, regional aspects, 010634
 - Middle America Trench, 840749, 840751, 840752
 - mineral, heavy, sandstone, 580665
 - Minorca Rise, oxygen isotope, 42A0473, 42A0474, 42A0476, 42A0477
 - nitrogen, deep-sea sediments, 580748
 - oxygen isotope, 720412
 - oxygen isotope, stable, 410943
 - burial, 410937
 - Pacific Ocean, equatorial sediments, 850839
 - Pacific Ocean NE, cruise synthesis, 151086
 - Pacific Ocean SW, diagenesis, 210497
 - Pacific Ocean W, guyot, 200659
 - pelagic-hemipelagic sediments, 42A0473
 - pelite, 230421
 - Philippine Sea NE, mineral, heavy, 580665
 - physical properties, carbonate, 901244
 - reversals, 210497
 - Rio Grande Rise, 390966
 - Rockall Rise, 941109, 941111
 - sediments, 941109, 941111
 - sandstone, 580665
 - sandstone, calcareous turbiditic, volcanic, 320544
 - seismic reflector correlation, 210506
 - shear strength, 901242
 - siltstone, 320542
 - southwest regional unconformities, 210715
 - thermal conductivity, 850843
 - turbidite, mud, Pliocene, Quaternary, 640519
 - turbidites, diagenesis, 250449
 - velocity, 850842
 - onset, 850842
 - volcaniclastics, 330875
 - lithification, low-temperature, isotope geochemistry, 42A0551
 - lithiophorite, lithology, 260299
 - lithium, 460243, 920491
 - Assemblage IIA(+), 710395
 - Atlantic continental margin, interstitial water chemistry, 040425, 050521, 101012, 111012, 130809, 140765, 160573, 230953
 - basalt, altered
 - chemistry, 511323
 - geochemistry, 580802, 580807
 - petrochemistry, 580802
 - Blake Basin, 760446
 - Brazil Basin, geochemistry, 720422
 - Cocos Plate, geochemistry, 660684
 - continental margin, source, 801048
 - continental slope basins, 960707
 - geochemistry, 660684, 720429, 720438
 - trace elements, 060840
 - Gulf of Mexico, interstitial water chemistry, 100613
 - $^3\text{He}/^4\text{He}$ ratio, 870863
 - Hellenic Trough, interstitial water chemistry, 130809
 - hydrocarbon, $\text{C}_1\text{-}\text{C}_8$
 - generation, 640777
 - Guaymas Basin, 640769
 - Indian Ocean N, interstitial water chemistry, 220864
 - Indian Ocean SE, sediments, 260542, 260547
 - inorganic chemistry, 960738

- interstitial water, 030663, 040410, 060827, 070871, 590627, 590628, 610607, 650443, 730539, 860683
 Baja California, 630626, 640676
 bulk sediments, 640676
 Daito Basin, 610608
 Daito Ridge, 610608
 Guaymas Basin, 640683, 640687, 640689
 minor constituents, 020371, 200791
 Rio Grande Rise, 720391
 sediment relationship, 870871
 Walvis Ridge, 740704, 740705
 Mazagan Plateau, 790500, 790827
 metalliferous sediment, Eocene-Oligocene, 850799
 mineral, alteration, 950491
 mineralogy, 850796
 Mississippi, margin, 960705
 Mississippi Fan, 960698, 960703, 960712
 Pacific Ocean NW, interstitial water, 860683
 Pacific Ocean SE, paleoceanography, 920598
 pore water chemistry, 960692
 depositional environment, 960694
 preliminary organic analyses, 111021
 Red Sea, interstitial water, 230956
 Rio Grande Rise, sediment, 720425
 Rockall Plateau, sediments, 810830, 810832
 trace elements, 850789
 alteration, 920494
 calcium, 850786
 Li-K, 920494
 Li-Mg covariance, 920494
 partitioning, 850796
 smectite, 920494
 vein, 920494
 upper slope, source, 801047
see also lead
 lithium borate, basalt, altered,
 geochemistry, 580807
 lithium, dissolved
 interstitial water, 650446
 Angola Basin, 750959
 Baja California, 640676, 640679
 Brazil Basin, 720391
 diagenesis, 640691, 650446
 Guaymas Basin, 640689
 hydrothermal alteration, 640692
 Patton Escarpment, 630624
 sediment relationship, 870871, 870872
 Shikoku Basin, 610607
 Walvis Ridge, 740704, 750961
 Pacific Ocean SE, 920550
 upper slope, 801047
 lithium/chloride ratio, Gulf of Mexico,
 interstitial water chemistry, 100613
 lithosphere, 280992, 820509, 820514
 Arabian Sea
 history, 231119
 sediment history, 230511
 Atlantic Ocean C, basin, 511501, 511504, 511509, 511511
 Atlantic Ocean NE, evolution, 411239
 Australia, 890214
 Azores, mantle, 370591
 Baja California S
 change, 630954
 cooling, 630957
 basalt
 geochemistry, 590785, 590793
 glass, 600608
 Rb-Sr, 550704
 basalt, alkali, genesis, 920449
 basalt, altered
 major element, 580889, 580892
 trace elements, 580889, 580892
 California, Gulf of, cooling, 650343
 Cocos Plate, 670760
 continental margin, structural evolution, 481048, 481051, 481053
 crust, subsidence, 920301
 East Mariana Basin, sedimentary history, 890663
 Goban Spur
 continental margin, 801127
 evolution, 801201, 801204
 heat flow, 870740
 age, 860766
 heat flow anomaly, cooling, 870742
 heat transfer, 870741
 hydrothermal activity, Neogene, 920616
 Iberian margin W, evolution, 47B0766, 47B0768
 Indo-Australian Plate, 260417
 Japan Trench, sedimentology, 870909
 magma, calc-alkaline
 partial melting, 660701
 subduction, 660701
 mean curvature, 870790, 870791
 Melanesian Basin, igneous complex, 890673
 Middle America Trench, 840879, 840892
 magma, calc-alkaline, 660699
 Nankai Trough
 curvature, 870791
 heat flow, 870741
 subduction rate, 870789
 Pacific Ocean, 670580
 Pacific Ocean EC, geologic history, 090909, 090910, 090918, 090919, 090924
 Pacific Ocean NW
 ages, 860766
 geochemical history, 620787
 Pacific Ocean SE
 compression, 920524
 East Pacific Rise, 920520
 extension, 920524
 Mendoza Rise, 920520
 thickening, age, 920524
 top layer heating, 920520
 Pacific Ocean SW, island arcs, 300691, 300705
 Philippines, genesis, 310875, 310878
 plate tectonics, 780559
 regional tectonics
 Eocene activity, 720962
 swell push forces, 720960, 720961
 Rio Grande Rise, subsidence, 720963, 720965, 720968, 720969, 720974
 Rockall Rise SW, structure, 481085
 sediment cover, 870741
 Shikoku Basin, basalt, 580895
 stratigraphy, sea floor spreading, 481085
 stresses, 830513
 stretching, 810905
 subduction, 870789, 870790
 subduction rate
 curvature, 870790, 870791
 geologic constraint, 870795
 subduction zone, temperature, 840892
 Suiko Seamount, trace elements, 550568
 tectonic setting, Austral Fracture Zone, 920599
 thermal conductivity, 870741
 Shikoku Basin, 870741
 thermal time constant, 870741
 tholeite
 geochemistry, 590681
 petrology, 590681
 underthrusting, Pacific Ocean EC, 090919
 vein, structure, 870824
 lithosphere, continental
 Goban Spur
 continental margin, 801126
 evolution, 801204
 regional tectonics, swell push forces, 720962
 subsidence, postrift, 801132
 lithosphere, oceanic
 rifting, 720959
 Rio Grande Rise, 720962
 subsidence, 720964, 720965
 swell push forces, 720961
 Little Bahama Bank, 760742, 760747, 760752, 760753, 760756
 Bahama Islands, geology, 110886, 110895
 carbonate, slope, 760749
 deposition, 760759
 depositional sequences, 760751
 erosion, 760759
 faulting, 760743
 geologic development, 760727, 760749
 gravity anomaly, 760756
 gravity flow, 760743, 760759
 margin, 760759
 regional setting, 760750
 sediments
 deposition, 760759
 depositional sequences, 760751
 erosion, 760759
 gravity flow, 760759
 seismic reflection, 760751
 unconformity, 760759
 seismic reflection, 760751
 seismic stratigraphy, 760749
 tectonics, 760761
 topography, 760750, 760760
 unconformity, 760759
 Little Colorado River, Arizona, 640589
 Little Stave Creek, Alabama, 38S0687
 Livingstone
 islands, 350279
 Pacific continental margin, geomorphology, 350279
 Lizard Springs Formation, 360152, 400784
 Trinidad, 360498, 760550
 Lizard, the, basement, Brittany, 481015
 lizardite, alteration, products, 450617
 load cast, 120763, 310194, 310484, 350031, 38S0225, 38S0266, 38S0270
 Africa, continental margin NW, 410967
 Angola Basin
 bedding structure, 400536
 penecontemporaneous deformation, 400536
 shale, black, 400538
 Cape Basin
 penecontemporaneous deformation, 400536
 sedimentary features, 400536
 shale, black, 400538
 carbonate, 580975
 Daito Basin, sandstone, 580973
 Daito Ridge
 carbonate, 580975
 sandstone, 580973
 Greenland Sea, turbidites, 38S0225
 lithology, 220039, 230041, 260365, 280217, 310203, 320319, 390150, 410239
 clay, red, 120763
 sedimentation, 350031
 turbidites, 120763
 Norwegian Sea
 Greenland Sea, 38S0266, 38S0267, 38S0270
 turbidites, 38S0225
 Philippine Sea, sedimentary structure, 310484
 red beds
 sedimentary structure, secondary, 38S0266, 38S0267
 turbidites, 38S0270
 sandstone, 580973

- Santos Plateau, origin, 390936
 Sea of Japan, sedimentary structure, 310484
 sedimentary structure, microfaulting, 960521
 turbidites, volcanic, 890370
 Lodo Formation, 120771, 121019, 121075,
 480611, 480612, 480614, 710830, 950365,
 950369, 950379
 loess
 glaciation, Pliocene-Pleistocene, 120961
 lithology, 42B0036
 Lofoten Basin, 38S0251, 38S0276, 38S0281,
 38S0285, 380758, 380805, 381114, 381200,
 381213, 381231, 380003, 38S0045,
 38S0067, 38S0101, 38S0105, 38S0138,
 38S0197, 38S0235, 38S0240, 38S0248,
 480006, 480169, 481415, 810886, 810914
 abyssal plain, 38S0207
 basalt, chemistry, 38S0135, 380747
 eruption, 380752
 Greenland Sea
 ash, 38S0240
 geologic setting, 38S0207, 38S0210
 glass, 38S0240
 mineralogy, 38S0135
 Mohns Ridge, separation, 380697
 Norwegian Sea
 ash, 38S0240
 geologic setting, 38S0207, 38S0210
 glass, 38S0240
 Greenland Sea, 38S0264, 38S0266, 38S0270,
 38S0282
 red beds
 sediment history, 38S0282
 sedimentary structure, 38S0264
 sedimentary structure, secondary, 38S0266
 turbidites, 38S0270
 Rockall Rise SW, structure, 481082
 stratigraphy, sea floor spreading, 481082
 Lofoten Islands, 381101
 basalt, 38S0067
 biotite, 38S0067, 38S0068
 carbonized detritus, 38S0067
 chlorite, 38S0067, 38S0072
 clay, 38S0072
 clay, biogenic, 38S0071
 Fe-montmorillonite, 38S0070, 38S0071
 glacial sedimentation, 38S0071
 glauconite, 38S0071
 graywacke, 38S0067
 haloclastics, 38S0067, 38S0070
 hydromica, 38S0072
 iron, 38S0070
 manganese, 38S0070, 38S0071
 margin, 810035
 marlstone, 38S0071
 mica, 38S0067, 38S0072
 montmorillonite, 38S0070, 38S0072
 mudstone, 38S0067
 Oligocene-Miocene, basins, 38S0071
 phillipsite, 38S0070
 platform association, 38S0067
 pyritization, 38S0067
 sand-silt-clay distribution, 38S0072
 shield association, 38S0067
 siliceous biogenic deposits, 38S0071
 siltstone, 38S0067
 slump deposits, 38S0067
 terrigenous material, 38S0071, 38S0067
 turbidites, 38S0067
 volcanic material, 38S0067
 volcanics, 38S0071
 volcanism, 38S0070
 zeolite, 38S0071
 Logan Canyon, 930945
 Logan Canyon Formation, 760864
 Loihi Seamount, 890456, 890545
 Lom Basin, Paratethys, paleogeography, 42A0987
 Lombardy, 120959
 Lombardy Basin, 760569, 760570, 760931
 London, clay, 800644, 810566, 950377
 London Basin, 800579, 810566
 Barton Beds, 730630
 Long Beach, 260994, 540007, 540085, 630005,
 630026, 630027, 630415, 630507, 630857
 Long Island
 Bahama Islands, 110877, 440941
 biostratigraphy, 440941
 Campanian sequence, 950779
 islands, Bahama Islands, 110877
 lithology, 170064
 lithostratigraphy, 440941
 Pacific Ocean SW, island arcs, 300700
 platform, 950765
 Long Island, N. Y., 440941, 650726, 950015,
 950606, 950726, 950779
 Lord Howe Island, 210489
 Pacific Ocean SW, regional evolution, 210900
 Lord Howe Rise, 900763, 900778, 900892,
 900893, 900953, 900956, 900961, 900985,
 901037, 901038, 901040, 901079, 901149,
 901153, 901161, 901169, 901175, 901182,
 901183, 901185, 901189, 901212, 901213,
 901214, 901225, 901226, 901227, 901230,
 901231, 901234, 901235, 901254, 901256,
 901261, 901273, 901283, 901296, 901317,
 901339, 901437, 901439, 901440, 901444,
 901445, 901447, 901449, 901450, 901451,
 901452, 901472, 901484, 901493, 901502,
 901506, 901507, 901509, 901511, 901512,
 901513, 901514
 bioturbation history, 901194, 901195
 burrow mottling, silt, 291049
¹³C
 fluctuations, 901391
 variability, 901386
 carbonate
 accumulation rate, 901201
 deposition, 901201
 dilution, 901274
 dissolution, 901201
 lysocline, 901201
¹⁸O, 901201
 pore water chemistry, 901249
 stratigraphy, 901201, 901215
 Cenozoic paleoceanography
 oceanographic setting, 901495
 sedimentation, 901494
 clay, 291049
 clay, terrigenous
 siliceous biogenic sedimentation, 291062
 terrigenous sedimentation, 291062
 coarse fraction results, 901206
 coarse fraction variation, 901212
 Coral Sea E, geology, 300650, 300661
 eastern flank, 901202
 geothermal measurements, 210455
 Indian Ocean S, geothermal measurements,
 210455
 isotope stratigraphy, Miocene-Pliocene,
 901383, 901384, 901385, 901386
 laminae, green, 901145
 lithologies, major
 chalk, 901480, 901481
 ooze, calcareous, 901480, 901481
 lithology, 210211
 geologic events, 210110
 Lord Howe Basin, 901321
 major boundaries
 hiatuses, 901467
 Pliocene boundary, 901463
 Neogene evolution
 climate, 901361
 glaciation, 901361
 oxygen isotope, 901361
 Subtropical Divergence, 901361
 Neogene oceanography, surface water, 901380
 New Zealand, Cenozoic changes, 901230,
 901231
¹⁸O
 ice, polar, 901386
 Miocene shift, 901386
 Pacific Ocean S, sediment, 920305
 Pacific Ocean SW, 210897
 Cenozoic, 300667, 901514
 island arcs, 300693, 300698, 300700
 Mesozoic regional evolution, 210902
 modern sediment distribution, 901438,
 901439
 Neogene-Paleogene evolution, 901437
 paleoceanography, 901502, 901503, 901507,
 901511, 901512, 901513
 regional evolution, 210900
 rhyolite, 210523
 tephra, vitric, 901161
 trace fossils, 901189
 unconformity, 210906
 Western Marginal Basin Province, 210898,
 210903, 210904, 210905
 pale green laminae, 901146, 901154
 abundance, 901145
 anoxic conditions, 901148
 ash, 901154, 901157
 Australia, 901154
 Australia E, 901157
 bentonite, 901155, 901156
 clay minerals, 901157
 cyclic sedimentation, 901148
 diagenesis, 901148, 901157
 dilution episodes, 901148
 dissolution, 901147, 901156
 Kermadec Islands, 901156, 901157
 New Zealand, 901154, 901157
 oxidation state, differences, 901148
 sedimentation rate, 901145
 South Fiji Basin, 901156
 Tasman Sea, 901154, 901157
 tephra, 901154, 901155, 901156
 Three Kings Rise, 901156
 Tonga, 901156, 901157
 volcanic sources, 901154
 volcanism, 901155, 901156, 901157
 volcanism, circum-Pacific, 901156
 rhyolite, 210523, 210524, 210525, 210530,
 210535, 210538, 280937, 290403, 291049,
 291062, 291167, 300005, 300007, 300444,
 300629, 300631, 300650, 300661, 300664,
 300665, 300693, 300698, 300700, 390532
 seismic reflection, correlation, 210462,
 210463
 silt, terrigenous, siliceous biogenic
 sedimentation, 291062
 South Fiji Basin, history, 300629, 300631
 South Tasman Basin, borderland, 291142
 southwest regional unconformities,
 unconformity, 210906
 spur, 900782
 stratigraphy, Neogene and Quaternary, 901201
 Tasman Sea, 720762
 tephra
 source, 901149
 stratigraphy, 901145
 volcanic deposit, basalt, 901185
 volcanism, Eocene-Oligocene, 901183, 901185
 Lord Howe Rise C, 280937, 621031, 860005,
 900005, 900006, 900139, 900140, 900141,
 900145, 900253, 900254, 900263, 900264,
 900265, 900275, 900281, 900284, 900377,
 900378, 900379, 900396, 900400, 900487,

- 900488, 900502, 900552, 900563, 900570, 900749
¹³C oscillations, 901391 parallelism, 901391 variability, 901397 Cenozoic paleoceanography, oceanographic setting, 901494 lithostratigraphy, unconformity, 901473 magnetostratigraphy, 901280, 901281 Neogene evolution accumulation rate, 901452 Antarctica, 901452 Australia, 901452 circulation, oceanic, 901447, 901452 cooling, major, 901452 glass, volcanic, 901452 humid/arid climate transition, 901452 Indo-Australian Plate, 901452 Miocene-Pliocene, 901451, 901452 opal, biogenic, 901452 productivity increase, 901452 Subtropical Convergence, 901452
¹⁸O Miocene shift, 901391 oscillations, 901391 Pliocene positive shifts, 901391 sedimentation, 901391 Lord Howe Rise N, 900774, 900941, 901481 bioturbation history, environmental relationships, 901194 deposition rate, 210716 diagenesis, carbonate, 210504, 210505, 210506 Eocene-Oligocene unconformity, 210703, 210705 isotope stratigraphy, 901385 lithification, 210715 lithologies, minor, tephra, vitric, 901483 lithostratigraphy, unconformity, 901473 magnetostratigraphy, 901277, 901278 major boundaries, Oligocene/Miocene boundary, 901463 Mesozoic/Cenozoic boundary, 210713, 300664, 300665 biostratigraphy, 210715 disconformities, 210713 lithostratigraphy, 210715 Neogene evolution, 901447 Pacific Ocean SW paleoceanography, 901503 unconformities, 210705, 210715, 210716, 280703, 280705, 280709, 280711, 280713, 280715 pale green laminae, 901156 Paleocene-Eocene unconformity, 210709, 210711, 300664 sediment, microfossils, 210717 sediments composition, 210703, 210705, 210709, 210711, 210715 deposition, 210716, 210717, 300664 microfossils, 210703, 210705, 210709, 210715, 210718, 300664, 300665 volcanic components, 210488 Lord Howe Rise S, 900489, 900491, 900783, 901483 biogeography, climate, 901357 bioturbation history, environmental relationships cool temperature, 901195 warm subtropical-temperature, 901195 Challenger Plateau, volcanogenic deposits, 901175 currents Eocene-Oligocene, 901231 Miocene-Pleistocene, 901234 diagenesis aspects, 901486, 901487 carbonate, 210503, 210504, 210506 Eocene-Oligocene unconformity, 210702, 210703, 300665 Eocene/Oligocene boundary, 901463 isotopic analysis results carbon isotope, 901352 convergence, 901352 Eocene/Oligocene boundary, 901352 oxygen isotope, 901352 magnetostratigraphy, 901286, 901287 Mesozoic/Cenozoic boundary, 210713, 210716, 300664 New Zealand Cenozoic changes, 901230, 901231 tectonics, 901231, 901234 Pacific Ocean SW paleoceanography, 901495, 901499 unconformities, 210703, 210713, 280702, 280703, 280709, 280713 vitrophyric rhyolitic flows, 210906 Paleocene-Eocene unconformity, 210709, 300665 sediments composition, 210703, 210709, 210713, 300664 microfossils, 210703, 210709, 300665 temperature gradient, comparison, 901356 volcanic components ash, 210488 glass, 210486 ooze, biogenic, 210486 ooze, calcareous, 210486 volcanism, Eocene-Oligocene, 901182, 901183 Lorien Bank, 480166, 481145 Rockall Plateau W, stratigraphy, 481061, 481062 Rockall Rise SW, structure, 481065 structural evolution morphology, 481061 tectonic history, 481062 Los Angeles, 630005, 630473 Los Angeles Basin, 010287, 230767, 630024, 630025, 630042, 630562, 630950, 641292 accumulation rate, Southern California Borderland, 630949 Paleogene-Neogene, 310852 Philippine Sea, Paleogene-Neogene, 310852 Southern California Borderland, volcanic rocks, 630951 tetrapyrrole, geochemistry, 630814 Los Chocoyos ash, 680403 Middle America Trench, 670493 geochemistry, volcanism, 840617 Pigmy Basin, tephrochronology, 960685 Los Frailes Canyon, 641071, 641072, 641073, 641109, 641112 Los Testigos, 780094 Louann Formation, 760924 Louann Salt diagenesis, salt, 020422 Mexico, Gulf of, regional aspects, 010625, 100738, 100747 Moroccan Basin, margin, 500810 Louden, Central Basin Ridge, 590022 Louisiade Archipelago, 300659 Coral Sea E, geology, 300647, 300649, 300659 geologic events, 210376 Pacific Ocean SW island arcs, 300702 Western Marginal Basin Province, 210903 Louisiade Fracture Zone, 300657 Coral Sea E, geology, 300653 Pacific Ocean SW, island arcs, 300696 Louisiade Plateau, 300647 Coral Sea E, geology, 300650, 300653, 300657, 300659, 300660, 300661 Pacific Ocean SW, island arcs, 300696, 300704 Louisiana, 110545, 440007, 960432 Bahama Islands, geology, 110893 Blake Spur, 440007 north rim, 440069 carbonate, continental slope, 960671 chronostratigraphy continental slope, 960589 paleoenvironmental interpretation, 960674 coast, 010010, 010084 continental margin, 100738 continental shelf, 110501 continental slope, 100055, 100127, 960361, 960367, 960615, 960621, 960643, 960671, 960705, 960711 continental slope basins, continental slope, 960705 deposition, models, 960738 depositional history, continental shelf, 960661 Gulf Coast, shoals, 100003 intraslope basin blocked-canyon intraslope, 960718 continental slope, 960615 intraslope basins, Pigmy Basin, 960591 Mexico, Gulf of, regional aspects, 100738 Mississippi Fan, sediment, 960432 offshore, 960584 Orca Basin, methane, 960777 petrology, gravels, 960494 Pigmy Basin, foraminifers, 960657 pollen, spores, continental intraslope basins, 960643 shelf, 100127 Texas, 960738 Louisville Ridge, 210488, 350266, 910187, 910188, 910271, 910272 lithology, 210041 geologic events, 210038 Pacific Ocean SW Mesozoic regional evolution, 210902 Pacific Plate, 210904 Lourenco Marques, 250540 Rio Grande Rise N, regional setting, 250689, 250698 Louzy Bank. *See Outer Bailey* low-velocity layer, 870730 accretionary prism, 870727 Nankai Trough, 870727 acoustic impedance, 870733 crust, oceanic, geology, 920572 elastic wave velocity, 920566 fault, thrust generation, 870733 velocity increase, 870734 formation, velocity, 870733 seismic response, 920581 sonic velocity, density, 870730 synthetic seismogram, 870730, 920571, 920575 traveltime inversion shallow depth, 920578 shear profile, 920578 Lower Bowden Formation, 040594 Lower Bracklesham Beds, 480789 Lower Branch Circumpolar Water, Rio Grande Rise, mineralogy, 720996 Lower Saqiye Group, Israel, history, 42B1197, 42B1212 Loyalty Islands, 300008, 300069, 300070, 300089 Coral Sea E, geology, 300661

- Pacific Ocean SW, 210897
 South Fiji Basin
 geology, 300628
 history, 300629
 Loyalty Ridge
 Coral Sea E, geology, 300660, 300661
 Pacific Ocean SW, island arcs, 300696
 South Fiji Basin, history, 300629
 LREE
 basalt
 basement, 460102
 chemistry, 540681, 540683
 Costa Rica Rift Zone, 830153
 crust, oceanic, 820487
 depletion, 820474
 Melanesian Basin, 610705, 610707
 Mid-Atlantic Ridge, 820395, 820427,
 820428, 820429, 820430, 820440, 820442,
 820501
 midocean ridge, 820395, 820397, 820403,
 820404, 820407, 820408, 820411, 820416,
 820417, 820449, 820450, 820451, 820453,
 820454, 820456, 820460, 820491
 basalt, altered
 geochemistry, 540689
 petrology, 540689
 basement, basalt, 460102
 boninite, 600741
 bulk-rock compositions, minor element,
 540639
 chemical analyses
 depletion, 600604
 enrichment, 600604
 enrichment, depletion, 820484, 820485,
 820491
 flow line, FAMOUS area, 820487
 hygromagnaphile element
 basalt, 820464
 depletion, 820467
 enrichment, 820467
 igneous rocks, 840948
 Nankai Trough
 minor element, 870644
 trace elements, 870644
 petrology, basalt, Fe-rich, 540746
 Philippine Sea
 minor element, 870645
 trace elements, 870645
 rare earth elements, geochemistry, 600737,
 600738, 600739, 600742
 Shikoku Basin
 minor element, 870645
 trace elements, 870645
 trace elements, enrichment, 920440
 see also rare earth elements
 LREE/HREE ratio, basalt, Mid-Atlantic Ridge,
 820430, 820431
 Lu, 820484
 basalt
 Costa Rica Rift Zone, 830201
 Melanesian Basin, 610705
 Mid-Atlantic Ridge, 820422
 midocean ridge, 820396, 820449
 trace elements, incompatible, 820487
 see also lutetium
 Luanda Swell, continental shelf, onshore
 geology, 400965
 Lucena, Spain, 210843
 Lucia mudstone, 950369
 Luderitz, basin, 750477
 lueneburgite
 carbonate, 42A1211
 Indian Ocean W, mineralogy, 42A0370
 lithology, 42A0182
 lithostratigraphy, Messinian salinity
 crisis, 42A1140
 Mediterranean Sea, 42A0650, 42A0661
 Messinian environments, Lago Mare, 42A1024
 Miocene sediments, 42A0661, 42A0662, 42A0663
 Luneburg, Germany W, 42A0661
 lupane, hydrocarbon, aliphatic, cyclic
 components, 660558, 660560
 Lusitanian Basin, 131079, 47B0026, 47B0028,
 47B0029, 47B0063, 480036, 500808,
 790510, 790676
Frondicularia terquemi zone, 790675
 Moroccan Basin, margin, 500808
 Portugal, 790523
 lussatite
 Atlantic Ocean
 Cenozoic sediments, 140853
 Cretaceous sediment, 140853
 chert, 280752
 clay minerals, mineralogy, 140731
 Indian Ocean W, geochemistry, 250406, 250407
 Manihiki Plateau, chert, 330886
 mineralogy, Atlantic Ocean, 140731
 lutecite, chert, geochemistry, 620725
 lutetium
 analyses, 920433
 Atlantic Ocean S, history, 740715, 740719,
 740721, 740723, 740726
 basalt
 California, Gulf of, 650581
 chemistry, 450447
 basalt, altered
 major element, 580882
 trace elements, 580882
 Bauer Basin, basalt, 340239
 Bermuda Rise, rare earth elements, 511115
 Indian Ocean SE, sediments, 260548
 Nazca Plate, basalt, 340239
 petrology, 540747
 rare earth elements
 distribution, 590653
 trace elements, 590663
 Suiko Seamount, trace elements, 550561,
 550568
 trace elements, geochemistry, 370573, 370575
 see also Lu
 lutite
 Atlantic Ocean
 Cenozoic sediment, 140869
 Cretaceous sediments, 140869
 Atlantic Ocean SE, Cretaceous, 740767
 ^{13}C , 42B0618
 carbonate, ^{18}O , 42B0618
 gravity flow, 960545
 lithology, 100198
 basalt, 140139
 calcareous, 140259
 mud, calcareous, 140258, 140259
 ooze, foraminiferal nannofossil, 140258
 silt, dolomitic, 140139
 Mediterranean Sea, lithostratigraphy, 131033
 Philippine Basin, genesis, 310868
 Santos Plateau, origin, 390936
 volcanic rocks, petrography, 200693
 Luymes Bank
 geologic structure, 780090
 volcanic ridge, 780090
 Luzon, 061288, 590602
 basin genesis, 310868
 apron, 310864
 arc, 310874, 310875
 arc system, 310863
 chlorite, 590600, 590602
 illite, 590600, 590602
 lithology, 310144
 Paleogene-Neogene, 310848, 310852
 petrology, 310527
 Philippine Basin, genesis, 310863, 310864,
 310868
 Philippine Sea, Paleogene-Neogene, 310848,
 310849, 310852
 Philippines, genesis, 310874, 310875
 sand, Taiwan, 310508
 structure, 310619, 310620
 arc, 310615
 coast, 310618
 volcanism, explosive, Neogene, 310577,
 310586
 Luzon Island, *see also* Philippine Sea
 Luzon Trench, *see also* Philippine Sea
 Lynn Lake, Manitoba, ore, deposit, 540804
 Lyra Basin, 071170
 Pacific Ocean W, equatorial, 071169
 lysocline, 040659, 120169, 160271, 160307,
 170108, 170269, 210381, 210701, 210702,
 210708, 210711, 210715, 210717, 210718,
 260085, 260301, 260306, 270027, 270101,
 270142, 270284, 290057, 290134, 290201,
 290376, 310031, 310320, 400988, 410975
 Atlantic Ocean NW, sedimentary evolution,
 430794
 Atlantic Ocean S
 Malvinas Outer Basin, 391110
 Rio Grande Rise, 391124, 391127
 Atlantic Ocean SE, paleoenvironmental
 evolution, 740667
 Atlantic Ocean W, Brazil Basin, 040659
 basalt, altered, chemistry, 511328
 Brazil Basin, 040659
 calcite, deposition, 920600, 920601
 carbonate
 dissolution, 920299, 920399
 Lord Howe Rise, 901201
 stratigraphy, 920310
 Caribbean Sea, sediments, 150939
 CCD, history, 920302
 Cenozoic paleoceanography, Pacific Ocean
 SW, 901494
 coarse fraction variation, 901206
 deposition
 chalk, nannofossil, 250497
 ooze, nannofossil, 250497
 diagenesis, 920345
 subsidence, 920349
 dissolution, carbonate, 400988
 East Pacific Rise, sediments, 540400
 geochemistry
 Brazil Basin, 720438
 carbonate, 390477
 Guatemala, trench, 670525
 Hess Rise N, post-Jurassic, 620812, 620814,
 620817
 Indian Ocean S, geologic history, 260918
 Kapingamarangi Rise, carbonate, 901201
 major element, distal deposit, 920369
 Mesozoic/Cenozoic boundary, 210717
 mineralogy, 920345
 Pacific Ocean NW, geochemical history,
 620789
 Pacific Ocean S, 210718
 Pacific Ocean SE
 rare earth elements, 920388
 ridge flank sediments, 920417
 Pacific Ocean SW
 lithostratigraphy, 901473
 unconformities, 210702, 210708, 210715,
 210717, 210718, 280701, 280711, 280715
 pelagic components, distribution, biogenous
 components, 250489
 Philippine Sea, Paleogene-Neogene, 310845
 planktonic foraminifers, history, 920297
 preservation, 920296
 regional sedimentation, sediment
 accumulation, 920599

Rio Grande Rise, mineralogy, 720997
sediment, CaCO₃, 920363
sediment geochemistry, 550457
southwest regional unconformities
cause, 210717
deposition, 210701, 210708, 210715
geographic variability, 210718
stratigraphy
carbonate, 680356, 680358
Colon Ridge, 680360
subsidence
development, 920300
fluctuations, 920301
Pacific Ocean S, 920301
tectonic history, carbonate compensation
depth, 430794
Walvis Ridge, transect, 740654, 740658,
740660
see also CCD
lysocline, foraminiferal, 250487
Atlantic Ocean S, Cenozoic
paleoceanography, 730773
Biscay, Bay of, evolution, 480815
carbonate, stratigraphy, 901214
deposition
bottom water, 250503
chalk, nannofossil, 250492, 250493
ooze, nannofossil, 250492, 250493
Indian Ocean W, calcareous fossil
preservation, 240710