

INDEX TO VOLUME 141

This index provides coverage for both the *Initial Reports* and *Scientific Results* portions of Volume 141 of the *Proceedings of the Ocean Drilling Program*. References to page numbers in the *Initial Reports* are preceded by an "A" with a colon (A:), and to those in the *Scientific Results* (this book), by "B" with a colon (B:).

The index was prepared by tgB, Inc., under subcontract to the Ocean Drilling Program. The index contains two hierarchies of entries: (1) a main entry, defined as a keyword or concept followed by a reference to the page on which that word or concept appears, and (2) a subentry, defined as an elaboration of the main entry followed by a page reference.

The index is in two parts: (1) a Subject Index and (2) a Taxonomic Index. Both parts cover text figures and tables but not core-description forms ("barrel sheets"), core photographs, smear-slide descriptions, or thin-section descriptions; these are given in the *Initial Reports*. Also excluded from the index are bibliographic references, names of individuals, and routine front and back matter.

The Subject Index follows a standard format. Geographic, geologic, and other terms are referenced only if they are subjects of discussion. This index also includes broad fossil groups such as foraminifers and nannofossils. A site chapter in the *Initial Reports* is considered the principal reference for that site and is indicated on the first line of the site's listing in the index. Such a reference to Site 859, for example, is given as "Site 859, A:75–157."

The Taxonomic Index is an index relating to significant findings and/or substantive discussions, not of species names *per se*. This index covers three varieties of information: (1) individual genera and species that have been erected or emended formally, (2) biostratigraphic zones, and (3) fossils depicted in illustrations. A taxonomic entry consisting of both genus and species is listed alphabetically by genus and also by species. Biostratigraphic zones are listed alphabetically by genus; zones with letter prefixes are listed under "zones."

For further information, including available electronic formats, contact the Chief Production Editor, Ocean Drilling Program, 1000 Discovery Drive, College Station, Texas 77845-9547, U.S.A.

SUBJECT INDEX

accretionary complexes, reflectors, A:15–17, 19
 accretionary prisms
 fluid flow, B:3–26, 364–365
 geochemical logs, B:427–441
 pore fluids, B:313–329
 subduction, B:371
 accretionary wedges
 bottom-simulating reflection, B:253–258
 defluidizing, A:144
 forearc basement, A:139
 hydrate stability field, B:251–252
 hydrogeologic regime, B:273
 sedimentation, A:172–173
 sediments, B:95–104
 subduction, B:368, 371
 thermal overprinting, B:59–76
 volcaniclastics, B:133–151
 wireline measurements, A:218–219
 accretion tectonics, diagenesis, B:160–161
 accumulation rates
 magnetostratigraphy, A:93
 sediments, A:85
 See also sediment accumulation rate
 acoustic velocity. *See* sonic velocity
 actiniscidians, biostratigraphy, B:223–233
 ADARA. *See* advanced piston core temperature coring shoe
 advanced piston core temperature coring shoe, temperature, B:261–263
 advection
 bottom-simulating reflection, B:253–258
 fluid flow, B:318
 heat flow, B:367
 age data, foraminifers, Site 86, B:235–240
 age vs. depth, A:98
 albitization, geochemistry, A:116–117
 alkali basalts
 backarc volcanism, A:24–25
 Tertiary backarc migration, A:26
 alkalinity
 vs. depth, A:281, 406; B:282–283, 369–370
 vs. sub-bottom depth, A:120, 217
 alkalis, vs. silica, B:175–176
 alteration
 basalts, B:349–360
 fluid flow, B:364–365
 aluminum oxide
 glasses, B:338, 342
 vs. magnesium oxide/(magnesium oxide + iron oxide) ratio, B:359
 ammonium
 vs. depth, A:281, 406
 vs. sub-bottom depth, A:120, 217
 amplitude-vs.-offset, bottom-simulating reflection, B:247–249
 Andes, Cenozoic geology, A:23–31
 andesine, volcanic rocks, B:351
 andesites
 composition, A:24
 petrology, B:349–360
 anions, vs. depth, A:408
 anions, total, vs. total cations, A:408
 Antarctic Plate
 geology, A:5–7
 magnetic anomalies, A:337
 sedimentation, B:393–395
 tectonics, A:26
 volcaniclastics, B:133
 apatite, textures, B:106

apatite, detrital, fission track analysis, B:181–190
 aragonite, volcanic rocks, B:355
 arc volcanism
 Peru–Chile Trench, A:24
 volcanogenic sediments, B:169–180
 argon, interstitial waters, B:326
 argon isotopes, volcanic rocks, B:421–426
 assemblage zonation, foraminifers, B:215–216
 augite, volcanic rocks, B:351
 Austral Volcanic Zone
 arc magmatism, A:24–25
 eruptions, B:175–176
 authigenic minerals. *See* secondary minerals
 axial strain
 sediments, B:407–410
 vs. stress ratio, B:414–416
 backarc deformation, Tertiary, A:29–30
 backarc volcanism, Chile margin, A:24–25
 backthrust faults
 Site 861, A:290
 See also detachment faults
 bacteria, sediments, B:127–128
 bacteria, magnetotactic, greigite, B:72, 74
 bacteria, methanogenic, sediments, A:110–111, 203, 269, 388–389
 barium/zirconium ratio, vs. cerium/zirconium ratio, B:345
 basalt–water interaction
 accretionary prisms, B:316–319
 fluid flow, B:365
 basalt flows, photograph, A:313
 basalt flows, marine, lithologic units, A:313
 basalts, petromagnetics, B:51–57
 basalts, phryic
 argon isotopes, B:421–426
 stratigraphy, B:333–334
 basalts, subalkalic, petrology, B:349–360
 basement, continental, Site 861, A:290–291
 basement contact, domains, A:324–325
 bathymetry
 Chile margin, A:13, 33–34
 Chile Ridge, A:242
 Chile Triple Junction, A:8, 228, 304
 Site 859, A:77
 Site 863, A:346
 Taitao Ridge, A:9
 bedding
 domains, A:374
 orientation, A:262
 pole projections, A:191, 270, 328, 391–392
 bedding directions
 cores, A:191, 193
 paleomagnetism data, A:184
 Benioff zone, deformation, A:30
 bioevents, Cenozoic, B:373–377
 biomarkers, sediments, B:127–128, 290–291
 biostratigraphic age, vs. depth, A:88, 176, 254–256, 319, 364–367
 biostratigraphy
 benthic foraminifers, B:213–221
 Cenozoic, B:373–377
 planktonic foraminifers, B:193–211
 Site 859, A:88–92
 Site 860, A:173–181
 Site 861, A:253–259
 Site 862, A:316–318
 Site 863, A:363–365
 bioturbation, photographs, A:245–246, 352, 357,

359

bitumens
 fluorescence, A:111–113, 269–272, 327–329
 gas chromatographic traces, A:116, 213, 278, 334
 geothermal gradient, B:294–295
 maturation, A:205–207
 sediments, A:389–392
 bitumens, extractable
 gas chromatographic traces, A:402
 sediments, A:117, 214, 278, 335, 401
 Blake–Bahamas Outer Ridge, temperature calibration, B:264
 borehole azimuth, vs. depth, A:421
 borehole deviation, vs. depth, A:421
 borehole diameter, vs. depth, A:227
 borehole long-axis azimuth, vs. depth, A:137, 421
 boreholes, direction and shape, A:421–422
 boron
 vs. depth, A:120, 217, 281–282, 406–407
 bottom-simulating reflection
 gas hydrates, B:243–260, 311–312
 heat flow, B:253–258
 Bouma sequences, lithofacies, B:171
 breccia
 cores, A:106, 108
 domains, A:323–324
 photographs, A:112, 356, 393
 sketch, A:107
 breccia contacts, photograph, A:331
 brecciation
 driving forces and environment, A:325
 photograph, A:311
 brines, geochemistry, A:291
 broken formation
 accretionary prisms, B:16–18, 20
 cores, A:99, 105–106, 194, 262, 290–291
 broken formation lithologic contacts, photograph, A:108
 BSR. *See* bottom-simulating reflection
 burrows, photograph, A:332, 357–360
 bytownite, volcanic rocks, B:351
 calcite, textures, B:106
 calcite, inorganic, vs. lithologic units, A:351
 calcite, sparry cement, vs. lithologic units, A:351
 calcite crystals, photograph, A:362
 calcium
 vs. depth, A:121, 281–282, 406–407
 vs. sub-bottom depth, A:120, 217–218
 See also magnesium/calcium ratio
 calcium carbonate, vs. depth, A:165
 calcium oxide
 glasses, B:342
 vs. magnesium oxide/(magnesium oxide + iron oxide) ratio, B:359
 calcium yield logs, vs. depth, A:420
 caliper logs, vs. depth, A:135
 Calle–Calle Canyon, tectonics, B:380
 carbon, organic, sediments, A:118, 271–272, 329, 392
 carbon, total, sediments, A:403
 carbon, total, organic
 geochemistry, B:122–125
 sediments, A:214, 279, 335; B:282–283, 300–303
 vs. depth, A:119, 215, 279, 336, 404; B:282–283, 302
 vs. sub-bottom depth, B:123

carbon dioxide

carbon dioxide, sediments, A:111, 203, 269, 389
 carbon isotopes
 foraminifers, B:236–238
 organic matter, B:299–305
 sediments, B:307–312
 vs. depth, B:282–283, 304, 309–311
 carbon molecular ratios
 vs. carbon isotopes, B:309
 vs. depth, B:310–311
 carbon preference index
 bitumens, A:269–270
 fluorescence, A:327–329
 sediments, A:390–392
 carbon ratio, vs. depth, B:282–283
 carbonate cements
 geometry, B:159
 sediments, B:158–159
 carbonate content
 Site 860, A:166
 vs. depth, A:165
 carbonate veins
 accretionary prisms, B:5
 domains, A:377
 in breccia, A:112
 photographs, A:113–114, 362, 396–398; B:166
 cation charges, vs. depth, B:405
 cations, vs. depth, A:408
 cations, total, vs. total anions, A:408
 celadonite, volcanic rocks, B:352
 cementation
 accretionary prisms, B:5
 deformation bands, A:195–196
 diagenesis, B:367–368
 environment, B:160–161
 fluid flow, B:318
 hydraulic conductivity, B:403
 photographs, A:397–398
 sediments, A:361
 cementation, incipient, sediments, A:280
 cementation, post-depositional, porosity, A:124
 cements
 sediments, B:156–160
 See also carbonate cements; clay cements; zeolite cements
 Cenozoic
 continental geology, A:23–31
 triple junctions, A:23–31
 cerium/zirconium ratio, vs. barium/zirconium ratio, B:345
 cerium, basaltic glass, B:339
 Chacao Canyon, tectonics, B:380
 chemical properties, sediment grain size, B:91–93
 Chile margin
 seismics, A:34
 site description, A:75–157
 tectonics, A:11–21; B:244
 Chile Ridge
 geology, A:5–7
 heat flow, B:253–258
 plate motions, B:313–314
 SeaBeam bathymetric map, A:242
 sedimentation, B:394
 site description, A:75–157, 343–446
 tectonics, B:29–31
 Chile Ridge collision zone, tectonics, A:11–21
 Chile Rise
 geology, A:5–7
 Miocene subduction, A:24
 Chile Trench
 geology, A:5–7
 plate motions, B:313–314
 SeaBeam bathymetric map, A:242
 sedimentation, B:104, 393–395

SUBJECT INDEX

site description, A:75–157, 343–446
 tectonics, A:11–21; B:3, 29–31
 Chile Trench subduction zone, geology, A:5–7
 Chile Triple Junction
 biostratigraphy, B:193–211, 223–233
 bottom-simulating reflection, B:243–252
 carbon isotopes, B:307–312
 Cenozoic geology, A:23–31
 deformation bands, B:13–26
 diagenesis, B:153–167
 diatoms, B:417–419
 fluid flow, B:3–12
 forearcs, A:372, 374
 formation fluids, B:321–329
 gas hydrates, B:279–286
 geochemical logs, B:427–441
 geochemistry, B:363–372
 geochronology, B:235–240
 geology, A:5–7
 heat flow, B:253–258
 magnetic fabric, B:29–49
 organic matter, B:299–305
 paleomagnetism, B:59–76
 petromagnetics, B:51–57
 physical properties, B:407–416
 pore fluids, B:313–329
 sand, B:133–151
 sedimentation, B:379–397
 sediments, B:79–94, 105–117
 site description, A:301–341
 tectonic–geographic sketch map, A:241
 tectonics, A:345
 thermal regime, B:259–275
 volcanic rocks, B:331–348
 volcanogenic sediments, B:169–180
 chloride, vs. depth, B:267–268, 326
 chlorine
 vs. depth, A:121, 281–282, 406–407
 vs. sub-bottom depth, A:120, 217–218
 chlorinity
 fluid flow, B:365
 vs. depth, B:282–286, 368–370, 405
 vs. oxygen isotopes, B:318
 chlorite
 sediments, B:99
 volcanic rocks, B:352–355
 X-ray data, A:84
 chlorite/total clay minerals ratio, vs. depth, A:362
 chlorite relative abundance, vs. depth, A:87
 chloritization, biotite, A:274
 Chonos, glaciation, A:85–86
 chromium
 vs. magnesium oxide/(magnesium oxide + iron oxide) ratio, B:359
 vs. nickel, B:358
 vs. vanadium, B:358
 clastic components, breakdown, B:159–160
 clastic dikes, photograph, A:311
 clastic veins, cores, A:99
 clathrates, bottom-simulating reflectors, B:259–260
 clay
 convergent margins, B:108–109
 photographs, A:165, 167–168, 245
 sedimentation, B:380–388
 X-ray diffraction data, A:362
 clay/total phases ratio, vs. depth, A:84
 clay, marbled, photograph, A:389
 clay, silty
 grain size, A:86
 lithologic units, A:81–84, 164–165, 246, 306–309, 349–350, 352–353
 photographs, A:87, 312, 355
 clay breccia, photograph, A:310
 clay cements, sediments, B:156–158
 clay minerals
 sediments, A:172; B:99, 102
 volcanic rocks, B:352–355
 vs. depth, A:87, 174, 314
 vs. lithologic units, A:350
 X-ray data, A:84
 See also individual minerals
 clay, terrigenous component abundance, vs. depth, A:169
 claystone
 deformation bands, A:99, 105
 lithologic units, A:165, 167, 309–313
 photographs, A:171–172
 claystone, silty, lithologic units, A:82–84, 167, 169–170, 248, 251, 354–356, 358
 climate controls
 deposition, B:391–393
 sedimentation, B:140–141
 clinoptilolite, sediments, B:158
 clinopyroxene
 volcanic rocks, B:351
 See also individual minerals
 cobbles, photograph, A:86
 coercivity, demagnetization, B:64
 collision zones
 accretionary prism–ridge collision zone, B:314–315
 accretionary prism after ridge–trench collision, B:315–319
 bathymetric map, A:346
 ridges, A:12–20
 sedimentation, B:394–396
 sediments, B:100–101
 compaction
 clays, B:108–109
 deformation bands, B:19
 sediment grain size, B:91–92
 compression index, sediments, B:407–410
 compressional wave velocity
 gas hydrates, B:246
 Site 860, A:223
 See also sonic velocity
 concretions
 photographs, A:313, 354
 preferred orientation, B:111
 conglomerate
 lithologic units, A:165, 167, 169–170, 251
 photograph, A:249
 sedimentation, B:395
 conglomerate, intraformational, photograph, A:170
 continental crust, seismic, Site 861, A:274
 continental margin
 sedimentation, B:379–397
 seismic profiles, B:121
 subduction, A:5–7
 tectonics, A:11–21
 continental shelf, Chile margin, A:18–20
 continental slope
 sand, B:133
 sediments, B:89–92, 96–98
 contourites
 sedimentation, A:361–363
 sediment grain size, B:91–93
 convergent margins
 bottom-simulating reflection, B:253–258
 hydrate stability field, B:251–252
 thermal overprinting, B:59–76
 core expansion voids, gases, A:203, 205, 269, 390
 core orientations, tensor orientations and viscous remanence, A:184
 correlation, zonation, B:193–211
 cross laminations

SUBJECT INDEX

foraminifers, planktonic

- photographs, A:309, 357, 359
See also laminations
- crustal shortening, deformation, A:30
- Curie point
- demagnetization, B:65, 67
 - heating runs, B:73
 - volcanic rocks, B:56
 - vs. magnetic susceptibility/saturation remanent magnetization ratio, B:53
- dacite flows, marine, lithologic units, A:313
- dacites
- composition, A:24
 - petrology, B:349–360
- dacites, phryic, stratigraphy, B:333–334
- Darwin Fracture Zone
- bathymetry, A:13
 - heat flow, B:253–258, 363–364
 - sedimentation, B:393–395
 - tectonics, B:48, 259
- debris flows
- sedimentation, B:395
 - sediments, B:89–92
- décollement, reflectors, A:15–17, 19
- deformation
- driving forces and environment, A:325
 - environment and nature, A:108–109
 - fabrics, B:29–49
 - Site 863, A:377, 387
 - slumping, B:46
 - timing, B:6
- deformation bands
- cores, A:99, 105–106, 193–201
 - domains, Site 863, A:374, 377
 - environment and nature, A:108–109
 - fluid flow, B:365, 367
 - microstructures, B:13–26
 - orientation, A:196–200
 - photographs, A:108–110, 193–198, 200–201, 204, 206, 271–274, 395–396; B:22–26
 - pole projections, A:195, 200–208, 272
 - preferred orientation, B:110–111
 - siltstone, A:110
 - Site 861, A:262–268
 - sketch, A:111
- deglaciation, stable isotopes, B:239–240
- demagnetization
- cores, A:260
 - discrete samples, A:93, 182, 320–321, 323–324
 - structural domains, A:261
 - vs. remanence intensity, A:96–97, 183–184
- demagnetization, alternating-field, shipboard data, B:60–61
- demagnetization, thermal, analytical data, B:61–63
- demagnetization intensity
- discrete samples, A:373–376
 - vs. depth, A:181, 260, 370–372
 - demagnetization intensity/natural remanent magnetization ratio, vs. depth, A:321, 371
- demagnetization intensity curves, vs. temperature, B:62–66, 68–71
- demagnetization inclination, vs. depth, A:181, 260, 322, 370–371
- density
- vs. depth, B:248
 - vs. sonic velocity, B:247
- density–natural gamma-ray logs
- Site 859, A:152–154
 - Site 863, A:438–441
- density, bulk
- Site 859, A:122
- Site 861, A:276
- vs. depth, A:124, 221–222, 283, 337, 409, 413
- density, grain
- Site 859, A:121
 - Site 861, A:276
 - vs. depth, A:124, 221–222, 283, 337, 409
- density, wet-bulk, vs. depth, A:125, 338
- depositional facies, sediments, B:89–92, 390–393
- Desulfovibrio desulfuricans*, iron sulfides, B:74
- detachment faults
- photograph, A:333
 - Site 861, A:290
 - See also* backthrust faults
- detrital minerals
- vs. depth, A:314
 - vs. lithologic units, A:350
- deviator stress, vs. mean effective stress, B:414–416
- diagenesis
- clay minerals, A:85
 - deformation bands, B:19
 - fluid flow, B:365, 367–368
 - geochemistry, A:116–118
 - magnetic sulfides, B:59–76
 - sediment grain size, B:92–93
 - sediments, A:172, 361; B:105–117, 153–167, 413
 - stable isotopes, B:313–329
- diamictite
- lithologic units, A:165, 167, 169–170
 - microstructures, B:13–26
 - photograph, A:249
 - sedimentation, B:380–388
- diasterenes, sediments, B:126–129
- diatoms
- biostratigraphy, A:88–89, 174–175, 253, 255, 316, 363
 - sediments, B:417–419
- differentiation, volcanic rocks, B:335–336
- diffusion, subduction, B:371
- dikes, sheeted, ophiolite, B:355
- dilation, deformation bands, B:19–21
- diorite cobble, photograph, A:86
- diorite, photograph, A:354
- dips, domains, A:374
- discontinuities, tectonics, A:125–126
- dissolution, diatoms, B:417–419
- dolomite
- photograph, B:113
 - textures, B:106
- downhole measurements, temperature, B:261–267
- dropstone, photograph, A:354
- East Galapagos Rift, volcanic rocks, B:337, 343
- ebriidians
- biostratigraphy, B:223–233
 - Cenozoic, B:373–377
- Ecuador Rift–Inca Transform, volcanic rocks, B:337, 343
- El Niño
- land-sea correlation, B:240
 - paleoceanography, B:231
- epimer ratios, sediments, B:130–131
- Esmeralda Fracture Zone, Miocene subduction, A:24–25
- ethane
- carbon isotopes, B:308–311
 - sediments, A:110–111, 202–203, 269, 392
 - See also* methane/ethane ratio
- expansion void gases
- cores, A:111–112, 117, 212, 269, 400
 - hydrocarbons, A:203, 205
 - vs. depth, A:277
- extinction, foraminifers, B:213
- fabrics
- accretionary prisms, B:14, 18
 - clays, B:108–109
 - preferred orientation, B:111–112
 - See also* magnetic fabric; microfabrics
- failure, accreted sediments, B:5–6
- failure criterion, sediments, B:407–410
- faulting
- accreted sediments, B:3–12
 - photograph, A:311
- faults
- cores, A:97–98
 - domains, A:370–372, 374
 - drilling disturbance cause, A:201–202
 - Liquine–Ofqui Fault, A:26–27, 29
 - photographs, A:106, 209, 389–390, 393–394; B:8–12, 117
 - preferred orientation, B:110–111
 - stereograms, A:391–392
 - See also* normal faults
- fault zones
- accretionary prisms, B:4
 - photograph, A:394
- feldspar/total phases ratio, vs. depth, A:84
- fernenes, sediments, B:127–128, 130, 291–294
- fission track analysis, detrital apatites, B:181–190
- flat-bedded domains, cores, A:99
- flood basalts, arc magmatism, A:24–25
- fluid flow
- accreted sediments, B:3–12
 - deformation bands, B:19–21
 - geochemical constraints, B:364–365
 - hydraulic conductivity, B:403
 - hydrogeologic regime, B:275
 - rock magnetism, B:74
 - tectonics, B:365, 367–368
 - thrust planes, A:211
- fluid migration
- Chile Ridge, A:6
 - geochemistry, A:114–118
 - Site 859, A:133–134
 - stable isotopes, B:313–329
- fluid precipitation, deformation bands, B:19
- fluid pressure, hydraulic conductivity, B:403
- fluorapatite, textures, B:106
- fluorescence
- bitumens, A:111, 269
 - organic matter, A:203
 - sediments, A:327, 389–390
- fluorine
- vs. depth, A:121, 281–282, 406
 - vs. sub-bottom depth, A:120, 217–218
- folded domains
- cores, A:97–99
 - structural data, A:107
- folds
- drilling disturbance cause, A:201–202
 - See also* slump folds
- folds, recumbent
- cores, A:97
 - photograph, A:106
- folds, upright, cores, A:97
- foraminifer temperature score, vs. radiolarian preservation, A:179
- foraminifer tests, photographs, B:167
- foraminifers, stable isotopes, B:235–240
- foraminifers, benthic
- biostratigraphy, A:92, 179, 258–259, 318, 363, 365; B:213–221
 - occurrence, preservation, and estimated relative abundance, A:180, 258–259, 321, 369
- foraminifers, calcareous, photograph, A:247
- foraminifers, planktonic

foraminifers, planktonic (cont.)

biostratigraphy, A:90–92, 179, 255, 257–258, 317–318, 363; B:193–211
 Cenozoic, B:373–377
 occurrence, preservation, and estimated relative abundance, A:91, 177, 257, 320, 368
 sandstone, B:425
 forearc basins
 Chile margin triple junction, A:222–229
 deformation bands, A:200–201
 diagenesis, B:160–161
 evolution, B:184–185
 reflectors, A:15–17, 19
 sediments, B:154
 volcaniclastics, B:133–151
 formation fluids. *See* interstitial waters
 formation microscanner imagery, Site 859, A:139
 fracture cleavage
 cores, A:108
 plot of poles, A:114
 fracture zones, subducting ridges, A:17–18, 20
 fractures
 deformation bands, B:19
 photographs, A:85, 329
 See also gas expansion fractures
 fractures, open
 accreted sediments, B:5
 accretionary prisms, B:15
 fractures, sediment-filled, accretionary prisms, B:14–15
 frambooids
 accretionary prisms, B:16
 pyrite, B:20, 108
 gas expansion fractures, photograph, A:82
 gas hydrate stability field, A:226
 gas hydrates
 bottom-simulating reflection, B:243–252, 311–312
 distribution, B:259–275
 forearc region, A:6
 sediments, B:279–286
 seismic profiles, A:78
 stability, A:291–292
 See also hydrates
 gases
 C₁/C₂ ratio vs. depth, A:211
 decomposition, A:277
 hydrocarbons, B:281–282
 sediments, B:307–312
 trapped inside WSTP titanium coils because of gas expansion, A:282, 409
 vs. depth, A:116
 See also expansion void gases
 gases, headspace
 sediments, A:115, 210, 275, 334, 399
 vs. depth, A:211, 276, 400
 gases, volatile, sediments, A:110–111, 202–203, 268–269, 326–327, 387–389
 Gauss/Matuyama boundary, Site 859, A:93
 Gauss Chron, Site 859, A:93
 geochemical logs
 accretionary prisms, B:427–441
 Site 859, A:155–157; B:434–435
 Site 863, A:442–446; B:439–441
 geochemistry
 Chile Triple Junction, B:363–372
 sediments, B:279–286
 volcanic rocks, A:316
 geochemistry, inorganic
 Site 859, A:114–118
 Site 860, A:208–211
 Site 861, A:272–274
 Site 862, A:331

SUBJECT INDEX

Site 863, A:392–394, 396–398, 400
 geochemistry, organic
 Site 859, A:110–114
 Site 860, A:202–203, 205–208
 Site 861, A:268–272
 Site 862, A:326–329
 Site 863, A:387–392
 geochronology, volcanic rocks, B:421–426
 geologic maps
 Golfo de Penas, A:28
 Taitao Peninsula, A:24
 geothermal gradient
 bottom-simulating reflection, B:254–257
 middle trench slope, A:292
 organic matter, B:119–296
 vs. depth, B:270–271, 274
 geothermal maturation
 fluorescence, A:327–329
 organic matter, A:270–272
 Gilbert/Gauss boundary, Site 859, A:93
 glacial ablation, shelf edge, A:251–253
 glaciation
 Cenozoic, A:124
 deposition, B:391–393
 Pleistocene, A:85–86
 sedimentation, B:141
 glass rinds, geochemistry, B:346–347
 glasses, geochemistry, B:331–348
 glasses, mafic, AFM diagram, B:343
 glauconite, volcanic rocks, B:352–355
 Golfo de Penas
 collisions, B:185
 geologic maps, A:28
 Golfo Tres Montes, tectonics, A:5–6
 graded bedding
 photographs, A:169, 246, 249
 sediments, A:315
 grain size
 sediments, B:18, 79–94
 vs. depth below seafloor, B:86, 88–90
 vs. skewness, B:86, 88–91
 vs. sorting, B:86, 88–91
 grain-size reduction, deformation bands, B:19
 gravel
 lithologic units, A:167, 169–170, 246–247
 photographs, A:171, 250
 sedimentation, B:380–388
 greenschist facies, alteration, B:356–358
 greigite
 genesis, B:367
 magnetic carriers, B:67–72, 74
 sediments, A:361
 Guamblin Fracture Zone
 sedimentation, B:393–395
 tectonics, B:48
 heat flow
 accretion, B:363–364
 advection, B:367
 bottom-simulating reflection, B:253–258
 gas hydrates, B:272
 middle trench slope, A:292
 organic matter, B:119–132
 vs. distance from toe, B:274
 See also geothermal gradient; thermal structure
 heavy minerals, sediments, B:97, 102
 helium, interstitial waters, B:326
 helium/neon ratio, vs. helium isotopes, B:327
 helium, primordial, vs. depth, B:328
 helium isotopes, interstitial waters, B:321–329
 heptane, sediments, A:110–111, 202–203
 heulandite, sediments, B:158
 hexane
 fluorescence, A:269–272, 327–329
 sediments, A:112, 390–392
 hopanes
 sediments, B:127–128, 294
 See also hopanoids; hopene/hopane ratio
 hopanoids, sediments, B:290–291, 294–295
 hopene, sediments, B:127–128, 291, 294
 hopene/hopane ratio, sediments, B:294
 hot jet. *See* thermal jet
 hydrates
 decomposition, A:274
 interstitial waters, A:114–118
 See also gas hydrates
 hydraulic conductivity
 sediments, B:401–405
 vs. depth, B:403, 405
 hydrocarbons
 C₁/C₂ ratio vs. depth, A:117
 expansion void gases, A:203, 205
 fluid flow, B:364–365
 molecular composition, B:307–312
 sediments, A:110–114, 268–269, 326–327, 387–389
 temperature gradient, B:264–267
 See also isoprenoid hydrocarbons; methane
 hydrocarbons, gasoline-range, sediments, A:113
 hydrocarbons, high-molecular weight, sediments, B:287–297
 hydrocarbons, nonaromatic
 sediments, B:125–128
 See also farnenes; hopanoids; hopane; hopene; hopene/hopaneratio; hydrocarbons, high-molecular weight; isoprenoids; moretanes; n-alkanes; phytane; pristane; pristane/phytane ratio; steradienes; steranes; sterenes; steroids
 hydrocarbons, thermogenic, sediments, A:113, 202–203
 hydrocarbons, volatile, vs. depth, A:116
 hydroclastics, petrology, A:315–316
 hydrogen index
 Rock-Eval pyrolysis, B:125
 sediments, A:114
 vs. kerogen, B:305
 vs. oxygen index, A:119, 215, 279; B:124, 303
 hydrogen isotopes, sediments, B:307–312
 hydrogen sulfide, sediments, A:326–327
 hydrogeology
 Chile Triple Junction, B:363–372
 hydraulic conductivity, B:401–405
 hydrography, climate, B:235
 hydromica, sediments, B:99
 hydrothermal activity, Chile Rise, A:5–7
 hydrothermal alteration
 fluid flow, B:318–319
 geochemical logs, B:431
 preferred orientation, B:110
 sediments, B:101–104, 413
 hydrothermal fluids, organic matter, B:295
 hydrothermal systems, Site 859, A:133–134
 hydrothermal traces, accretionary wedges, B:103
 hysteresis, demagnetization, B:64
 ice-raftered debris, stable isotopes, B:238–239
 iddingsite, volcanic rocks, B:352
 igneous petrology, Site 862, A:315–316
 igneous rocks, petromagnetics, B:51–57
 illite
 sediments, B:158
 volcanic rocks, B:352–355
 X-ray data, A:84
 illite/total clay minerals ratio, vs. depth, A:362
 illite relative abundance, vs. depth, A:87
 index properties

SUBJECT INDEX

natural remanent magnetization inclination

- Site 859, A:121–123
 Site 860, A:211–212, 219–220
 Site 861, A:276, 278, 284–285
 Site 862, A:332–334, 336
 Site 863, A:401, 403, 410–412
 inertinite, sediments, B:124–126
 interstitial waters
 data from titanium squeezers, A:119, 216, 280,
 336, 405
 data from WSTP runs, A:121, 218, 282, 407
 geochemistry, A:114–118, 271–274,
 283–285, 368–370
 Site 863, A:392, 394, 396–398, 400
 stable isotopes, B:313–329
 iron, vs. mean axial depth, B:347
 iron oxide
 glasses, B:338, 342
 vs. magnesium oxide/(magnesium oxide + iron
 oxide) ratio, B:359
 vs. silica in titanomagnetite, B:55
 iron oxide/magnesium oxide ratio
 vs. silica, B:344
 vs. titanium oxide, B:53
 iron sulfides
 accretionary prisms, B:15
 genesis, B:367
 magnetization, A:367–369
 sediments, B:159
 textures, B:107–108
 iron sulfides, authigenic, photograph, B:114
 iron yield logs, vs. depth, A:420
 isoprenoids, sediments, A:113; B:288–290
 isotopes
 interstitial waters, B:321–329
 See also argon isotopes; helium isotopes; lead
 isotopes; neodymium isotopes; stable
 isotopes
- Juan Fernandez Ridge, sedimentation, B:394
- Kaena Subchron, Site 859, A:93
- kerogen
 geochemistry, B:122–125
 sediments, A:113–114; B:300–303
 vs. hydrogen index, B:305
- kinks. *See* deformation bands
- Koenigsberger ratio, vs. depth, A:371–372
- krypton, interstitial waters, B:326
- Kula Ridge, sedimentation, B:394
- labradorite, volcanic rocks, B:351
- laminations
 photographs, A:87, 169, 250, 352–353,
 355–356
 sandstone, B:392
 See also cross laminations
- laminations, planar, photographs, A:310–311
- land-sea correlation, stable isotopes, B:239–240
- lapilli bed, lithologic units, A:165, 167
- laser particle counter, grain size, B:79, 81
- lava, silicic, petrogenesis, B:342–345
- lead-207/lead-204 ratio, vs. lead-206/lead-204
 ratio, B:340
- lead-208/lead-204 ratio, vs. lead-206/lead-204
 ratio, B:340
- lead isotopes
 volcanic rocks, B:341
 See also lead-207/lead-204 ratio;
 lead-208/lead-204 ratio
- leaky transforms, fluid flow, B:46
- light minerals, sediments, B:98, 102
- limpetite, sediments, B:125
- Liquine-Ofqui Fault
 collisions, B:185
- sedimentation, B:393–395
 triple junction, A:26–27, 29
- lithification, sediments, A:185
- lithification, incipient, sediments, A:280
- lithium
 vs. depth, A:281, 406–407
 vs. sub-bottom depth, A:120, 217
- lithofacies
 glaciation, A:253
 sedimentation, B:380–395
 volcanogenic sediments, B:170–172
 See also slope facies
- lithologic units
 correlation, B:381
 Site 859, A:81–84
 Site 860, A:163–165, 167, 169–170
 Site 861, A:246–248, 251
 Site 862, A:306–315
 Site 863, A:349–358
 Unit I, A:81, 164–165, 246, 306–313,
 349–350, 352–353
 Unit II, A:81–84, 165, 167, 246–248, 251,
 313, 354–356, 358
 Unit III, A:167, 169–170, 251
- lithology, graphic, vs. depth, A:170
- lithostratigraphy
 sediments, B:382–384, 386–387, 389, 391
 Site 859, A:81–88
 Site 860, A:163–173
 Site 861, A:245–253
 Site 862, A:306–315
 Site 863, A:349–350, 352–363
- load structures, photograph, A:359
- macerals, sediments, B:125
- mafic minerals, vs. depth, A:314
- magmas
 differentiation, B:336–342
 triple junctions, A:23–25
- magmatism, bimodal, petromagnetism, B:56
- magnesium
 geochemistry, A:117
 interstitial waters, B:316–319
 vs. depth, A:281–282, 406–407; B:328,
 369–370
 vs. oxygen isotopes, B:318
 vs. sub-bottom depth, A:120, 217–218
 magnesium/calcium ratio, signature of reaction
 with basaltic basement, A:143
- magnesium oxide
 glasses, B:338, 342
 vs. magnesium oxide/(magnesium oxide + iron
 oxide) ratio, B:359
 See also iron oxide/magnesium oxide ratio
 magnesium oxide/(magnesium oxide + iron
 oxide) ratio, vs. oxides, B:359
- magnetic anomalies, Taitao Ridge, A:305
- magnetic carriers, magnetite, B:67–69
- magnetic declination, vs. depth, B:35, 38, 40, 42,
 44
- magnetic fabric, strain indicator, B:29–49
- magnetic foliation, vs. depth, B:36, 39, 41, 43, 45
- magnetic inclination
 vs. depth, A:94–95; B:35, 38, 40, 42, 44,
 94–95
 See also demagnetized inclination; natural
 remanent magnetization inclination
- magnetic intensity
 igneous rocks, A:324
 vs. depth, A:94–95, 260, 322
 See also demagnetized intensity; remanence
 intensity
- magnetic lineation, vs. depth, B:36, 39, 41, 43, 45
- magnetic remanence
- continuous sections, A:92–93, 318, 320
 cores, A:259
 sediments, A:365, 367–369
- magnetic sulfides, diagenesis, B:59–76
- magnetic susceptibility
 anisotropy, B:32–33, 37–41, 43, 45–48
 continuous sections, A:92–93, 318, 320
 sediments, Site 863, A:365, 367–369
 vs. depth, A:94–95, 182, 260, 321, 370–371
 vs. hysteresis, B:72
 vs. stress, B:46–48
- magnetic susceptibility/saturation remanent
 magnetization ratio, vs. Curie point, B:53
- magnetic susceptibility, bulk, vs. depth, B:36, 39,
 41, 43, 45
- magnetite, magnetic carriers, B:67–72, 74
- magnetostratigraphic correlation, vs. depth, A:98
- magnetostratigraphy, accumulation rates, A:93
- major elements
 sediments, B:101
 volcaniclastics, B:172–174, 430–431
 volcanic rocks, A:317; B:54, 334–338,
 351–352
- Mammoth Subchron, A:93
- maturation, organic matter, B:119–132
- Matuyama Chron, Site 859, A:93
- mean effective stress, sediments, B:407–410
- median destructive field, igneous rocks, A:321,
 324
- metasedimentary rocks, sedimentation, B:141
- methane
 carbon isotopes, B:308–311
 sediments, A:110–111, 202–203, 269, 392;
 B:280–281
 vs. depth, B:282–283
- methane/ethane ratio, vs. depth, A:276–277, 283,
 400
- methane/propane ratio, vs. depth, A:400
- methane clathrates, bottom-simulating reflectors,
 B:259–260
- methylsteranes, sediments, B:127–129
- micrite, vs. lithologic units, A:351
- microfabrics, accretionary prisms, B:4–5
- microfaults, preferred orientation, B:110–111
- microfossils
 photograph, B:115
 vs. depth, A:253
- microstructures
 deformation bands, B:13–26
 photograph, B:116
 sediments, B:105–117
- microtextures, diagenesis, B:158–160
- mid-ocean ridges, collisions, A:12–20
- mineralization, deformation bands, A:195–196
- Miocene, tectonics, B:185
- molasse, deformation, A:29–30
- morenes, sediments, B:127–128, 291
- Mornington Channel, tectonics, B:380
- mud, hemipelagic, mineralogy, B:95–104
- n*-alkanes, sediments, A:113; B:126–128, 288–290
- Nankai, temperature calibration, B:264
- nannofossils, vs. lithologic units, A:351
- nannofossils, calcareous
 biostratigraphy, A:92, 179, 181, 259, 318, 365;
 B:193–211, 373–377
 photograph, A:167
- natural gamma-ray logs
 Site 859, B:432–433
 Site 863, B:436–438
 See also density–natural gamma-ray logs;
 resistivity–velocity–natural gamma-ray
 logs
- natural remanent magnetization inclination, vs.

natural remanent magnetization inclination (cont.)

depth, A:94–95, 181, 260, 370–371
 natural remanent magnetization intensity
 vs. demagnetization, A:96–97
 vs. depth, A:322
 Nazca Plate
 basalts, B:339–340
 geology, A:5–7
 sedimentation, B:393–395
 subduction, A:12
 tectonics, A:26; B:244
 volcaniclastics, B:133
 Nazca Ridge, sedimentation, B:394
 nentriacanthane, sediments, B:128
 neodymium, basaltic glass, B:339
 neodymium isotopes
 volcanic rocks, B:341
 vs. strontium isotopes, B:340
 neon
 interstitial waters, B:321–329
 See also helium/neon ratio
 neutron porosity logs, vs. depth, A:419
 nickel
 vs. chromium, B:358
 vs. magnesium oxide/(magnesium oxide + iron oxide) ratio, B:360
 vs. vanadium, B:358
 nitrogen, total, sediments, A:403
 noble gases
 interstitial waters, B:321–329
 See also helium; neon
 nodules, photograph, A:354
 normal faults
 cores, A:185, 193
 domains, A:322–324
 domino model of offsets, A:333
 geometry and mechanisms, A:325
 photographs, A:192, 328–329, 332–333
 normal faults, conjugate, photograph, A:329
 normal faults, listric, photograph, A:388
 oceanic crust
 age, B:426
 Chile Rise, A:5–7
 obduction, B:56
 seismic profiles, A:15–17, 19
 oedometer modulus
 sediments, B:407–410
 vs. effective vertical stress, B:410–411
 oedometer tests, sediments, B:407–416
 Olduvai Subchron, Site 859, A:93
 olivine, volcanic rocks, B:351
 opaque minerals
 chemical composition, B:56–57
 vs. depth, A:314
 ophiolite
 age, B:425
 composition, A:24
 petrology, B:349–360
 Taitao Ridge, A:6, 337
 organic matter
 carbon isotopes, B:299–305
 deep-sea sediments, B:119–132
 fluorescence, A:269–272, 327
 heating, Site 859, B:295
 maturation, A:111–113, 205–208, 390–392
 overconsolidation, sediments, B:411, 413
 oxygen index
 Rock-Eval pyrolysis, B:125
 vs. hydrogen index, A:119, 215, 279; B:124, 303
 oxygen isotope events, microfossils, B:376
 oxygen isotopes
 foraminifers, B:236–239
 pore fluids, B:313–329

SUBJECT INDEX

vs. depth, B:369–370
 vs. sub-bottom depth, B:316–317
 paleobathymetry
 deposition, A:291
 foraminifers, B:214
 paleoceanography
 Cenozoic, B:373–377
 foraminifers, B:214
 silicoflagellates, B:230–231
 Paleocene, foraminifers, B:425
 paleoclimatology, Pleistocene, B:235
 paleoenvironment
 diagenesis, B:160–161
 microfossil content, A:85–88
 sedimentation, B:379–395
 paleomagnetism
 Chile Triple Junction, B:31–48
 Site 859, A:92–94
 Site 860, A:181–183
 Site 861, A:259–261
 Site 862, A:318, 320–321
 Site 863, A:365, 367–369
 thermal overprinting, B:59–76
 paleotemperature
 stable isotopes, B:239
 See also temperature
 paragenesis, cementation, B:161
 pentacosane, sediments, B:128
 permeability
 accretionary wedges, B:368, 371
 sediments, B:157
 Peru, temperature calibration, B:264
 Peru–Chile Trench
 arc volcanism, A:24
 biostratigraphy, B:213–221
 pH
 vs. depth, A:406; B:369–370
 vs. sub-bottom depth, B:317
 phillipsite, volcanic rocks, B:352–355
 phosphates
 photograph, B:113
 textures, B:106
 physical properties
 hydrate stability field, B:251–252
 sediment grain size, B:91–93
 sediments, B:407–416
 Site 859, A:118–119, 121–126
 Site 860, A:211–215
 Site 861, A:275–276, 278–280
 Site 862, A:331–335
 Site 863, A:401, 403–404
 vs. depth, A:124, 283
 phytane
 fluorescence, A:327–329
 sediments, A:390–392; B:288–290
 See also pristane/phytane ratio
 plagioclase
 volcanic rocks, B:351
 See also individual minerals
 plate margins, volcaniclastics, B:133–151
 Pleistocene
 biostratigraphy, B:193–211, 213–221, 223–233
 geochronology, B:425–426
 lithologic units, A:81–84, 164–165, 246–248, 251, 349–350, 352–353
 magmas, B:355–358
 sand, B:133–151
 sedimentation, B:380–395
 sediments, B:287–297, 299–305
 stratigraphy, B:235
 tectonics, B:184–186
 Pliocene
 biostratigraphy, B:193–211, 213–221, 223–233, 373–377
 geochronology, B:425–426
 lithologic units, A:81–84, 164–170, 246–248, 251, 309–315
 magmas, B:355–358
 sand, B:133–151
 sedimentation, B:380–395
 sediments, B:95–104, 287–297, 299–305
 tectonics, B:184–186
 Pliocene/Pleistocene boundary, biostratigraphy, B:193–211
 Pliocene, upper, volcanic rocks, B:51–57
 polished surfaces, pole projections, A:193
 pore fluids. *See* interstitial waters
 porosity
 accreted sediments, B:5–6
 accretionary prisms, B:14
 physical properties residues, B:82–85
 sediment grain size, B:91–93
 sediments, B:157
 Site 859, A:121–122
 Site 861, A:276
 vs. depth, A:124–125, 224, 283, 337, 409; B:371
 vs. depth below seafloor, B:86, 88–90
 See also neutron porosity logs; resistivity
 porosity; sonic porosity
 porosity, wet, vs. depth, B:81
 porosity-loss curves, vs. depth, B:81
 potassium
 interstitial waters, B:316–319
 vs. depth, A:121, 281, 406; B:284–285, 328, 371
 vs. sub-bottom depth, A:120, 217
 potassium oxide
 glasses, B:338, 342
 vs. magnesium oxide/(magnesium oxide + iron oxide) ratio, B:359
 vs. silica, B:53, 175–176
 potassium yield logs, vs. depth, A:420
 preferred orientation
 accretionary prisms, B:4–5
 grains, B:18
 pressure–temperature stability field,
 bottom-simulating reflectors, B:259–261
 pristane
 fluorescence, A:327–329
 sediments, A:390–392; B:288–290
 pristane/phytane ratio, sediments, A:113; B:290
 propane
 carbon isotopes, B:310–311
 sediments, A:202–203
 See also methane/propane ratio
 provenance, sand, B:133–151
 pyrite
 convergent margins, B:109
 magnetic carriers, B:67–72, 74
 photographs, A:354; B:115
 sediments, A:361
 pyrite veins, accretionary prisms, B:5
 pyroclastics, chemical composition, B:174
 pyrrhotite, magnetic carriers, B:67–72, 74
 quartz, X-ray data, A:84
 quartz/total phases ratio, vs. depth, A:84
 quartz crystals, photograph, A:362
 Quaternary
 biostratigraphy, B:373–377
 lithologic units, A:306–313
 sediments, B:95–104
 Quaternary, upper, geochronology, B:235–240

SUBJECT INDEX

Site 808, temperature calibration

radiolarian preservation, vs. foraminifer temperature score, A:179
 radiolarians, biostratigraphy, A:89–90, 175, 178–179, 255, 316–317, 363
 rapid sediment analyzer, grain size, B:81, 85
 rare earths
 silicic lava, B:342–345
 volcanic rocks, B:334–339, 341
 rare earths, chondrite-normalized
 basaltic glass, B:339
 rhyolites, B:346
 recumbent folds, cores, A:185
 redeposition, foraminifers, B:215
 reflection. *See* bottom-simulating reflection
 reflection coefficients, vs. depth, B:248
 reflectors, Chile margin, A:15–17, 19
 relaxation time, vs. temperature, B:74
 remanence, Site 860, A:181–182
 remanence intensity, vs. demagnetization, A:183–184
 remanent magnetization, characteristic sediments, A:318, 320–321, 368–369
 Site 859, A:93
 Site 860, A:182–183
 remanent magnetization, isothermal, magnetite, B:63–64, 71
 remanent magnetization, natural
 cores, A:259–260
 inclination, B:34
 sediments, A:365, 367–369
 Site 859, A:92–93
 Site 860, A:181–182
 See also demagnetized intensity/natural remanent magnetization ratio; natural remanent magnetization inclination
 remanent magnetization, saturation
 volcanic rocks, B:53, 56
 See also magnetic susceptibility/saturation remanent magnetization ratio
 remanent magnetization, viscous
 sediments, A:318, 320–321, 368–369
 Site 860, A:182
 structural orientation, A:93–94
 remote sensing, faults, A:27
 resistivity, vs. depth, A:135–136, 227; B:267, 284
 resistivity logs, vs. depth, A:419
 resistivity porosity, vs. depth, A:135
 resistivity–velocity–natural gamma-ray logs
 Site 859, A:149–151
 Site 860, A:238
 Site 863, A:433–437
 Réunion Subchron, Site 859, A:93
 rhyodacite, stratigraphy, B:333–334
 rhyodacite clasts, photograph, A:309
 rhyolite flows, marine, lithologic units, A:313
 rhyolites
 petrogenesis, B:342–345
 petrology, B:349–360
 stratigraphy, B:333–334
 rhyolites, hornblende, argon isotopes, B:421–426
 ridge–trench collisions, tectonics, B:185–186
 ridge subduction
 diagenesis, B:160–161
 sedimentation, B:141
 Rock-Eval data
 sediments, B:300–303
 vs. depth, B:303
 rock magnetism, igneous rocks, B:51–57

 salinity
 vs. depth, A:281, 406, 408; B:284–285
 vs. sub-bottom depth, A:120, 217
 samarium, basaltic glass, B:339
 sand

lithologic units, A:306–313
 photographs, A:246, 249, 309–310, 354
 Pleistocene, B:133–151
 provenance, B:182
 sedimentation, B:380–388
 sand, graded
 lithologic units, A:164–165
 photograph, A:168
 sand, terrigenous component abundance, vs. depth, A:169
 sandstone
 hydraulic conductivity, B:403
 lithologic units, A:165, 167, 309–313, 354–356, 358
 photographs, A:85, 169, 356–357, 360; B:163–164
 Pleistocene, B:133–151
 sedimentation, B:395–396
 scanning electron microscopy, volcanogenic sediments, B:169–180
 scour-fill structures, photographs, A:310, 359
 sea-floor spreading, tectonics, A:11–21
 SeaBeam maps, Chile margin, A:14
 seawater, air-saturated, noble gases, B:322, 325
 secondary minerals
 photographs, B:100
 sediments, B:157
 textures, B:106–108
 volcanic rocks, B:352–358
 See also individual minerals
 sediment accumulation rates
 Site 860, A:172
 Site 861, A:251
 vs. depth, A:87, 175–176, 251
 sediment injections
 accreted sediments, B:5
 deformation, B:367
 deformation bands, B:19
 sedimentary structures, Site 859, A:86
 sedimentation
 controls, B:138–141
 depositional model, B:302, 305
 glacial–marine environment, A:251–253
 hemipelagic environment, A:170, 172, 224–225
 outer margin depositional systems, B:379–397
 volcanism, B:175–176
 sedimentation rates
 stable isotopes, B:238
 tectonic thickening, A:88
 sediment lenses, accretionary prisms, B:5
 sedimentology, sequences, B:382–384, 386–387, 389, 391
 sediments
 age and lithology, A:290–291
 comparison of volume of dried mass measured as intact lump or powdered, A:125
 composition, B:135–137
 diagenesis, B:105–117
 geochemistry, B:279–286
 grain size variations, B:79–94
 hydraulic conductivity, B:401–405
 hydrocarbons, B:287–297
 mineralogy, B:95–104
 organic matter, B:119–132
 parameters, B:144–149
 photographs, B:150–151
 physical properties, B:407–416
 textures, B:153–167
 X-ray diffraction data, A:314–315, 358, 361
 X-ray mineralogy of fine-grained fraction, A:84
 X-ray mineralogy of nonclay fraction, A:83
 sediments, autochthonous, Site 861, A:290

 sediments, indurated, lithologic units, A:313
 sediments, marine, photograph, A:313
 sediments, terrigenous, mineralogy, B:95–104
 sediments, unconsolidated, magnetic fabric, B:29–49
 sediments, volcanogenic, SEM microstructural analysis, B:169–180
 seismic models, gas hydrates, B:244–250
 seismic profiles
 accretionary prisms, B:316–317, 323–324
 Chile margin, A:15–17, 19; B:121
 Golfo de Penas, A:29
 Site 859, A:78
 Site 860, A:161
 Site 861, A:243
 Site 862, A:306
 Site 863, A:347
 Taitao Ridge, A:306
 tectonics, B:31
 traveltime, A:137
 seismic profiles, depth-migrated, Site 860, A:229
 seismic reflection profiling, Chile margin, A:34
 seismic sections, Chile Triple Junction, B:262
 seismicity, deformation, A:30
 sericitization, alkaline, plagioclase, A:274
 shear, deformation bands, B:19–21
 shear bands. *See* deformation bands
 shear parameter, sediments, B:411
 shear zones, deformation bands, A:200–201
 shearing, deformation bands, B:19
 silica
 glasses, B:338, 342
 photograph, B:113
 textures, B:106–107
 vs. alkalis, B:175–176
 vs. iron oxide/magnesium oxide ratio, B:344
 vs. major oxides in titanomagnetite, B:55
 vs. potassium oxide, B:53, 175–176
 siliceous microfossils, biostratigraphy, B:373–377
 siliciclastics
 sedimentation, B:395
 sediments, A:315
 silicic rocks, petromagnetics, B:51–57
 silicoflagellates
 biostratigraphy, B:223–233
 Cenozoic, B:373–377
 silicon
 vs. depth, A:281, 406
 vs. sub-bottom depth, A:120, 217
 silicon yield, vs. depth, A:136
 silt, clayey
 grain size, A:86
 lithologic units, A:81–84, 164–165, 246, 306–309, 349–350, 352–353
 photographs, A:352–353, 355
 silt, sandy
 photographs, A:167–168, 246, 249, 311
 sedimentation, B:380–388
 silt, terrigenous component abundance, vs. depth, A:169
 siltstone
 deformation bands, A:105–106
 lithologic units, A:165, 167, 169–170
 photograph, A:169
 siltstone, clayey
 lithologic units, A:82–84, 167, 169–170, 248, 251
 photograph, A:352
 siltstone, sandy
 lithologic units, A:354–356, 358
 photograph, A:359
 Site 533, temperature calibration, B:264
 Site 688, temperature calibration, B:264
 Site 808, temperature calibration, B:264

Site 859

Site 859, A:75–157
 background and objectives, A:76
 biostratigraphy, A:88–92; B:195–196
 coring, A:79
 geochemical logs, B:430
 grain size, B:85–87
 hydrocarbons, B:287–297
 inorganic geochemistry, A:114–118
 lithostratigraphy, A:81–88
 master chart, A:140–146
 operations, A:76, 79–81
 organic geochemistry, A:110–114
 paleomagnetism, A:92–94
 physical properties, A:118–119, 121–126
 rock magnetism, B:69–70
 sediments, B:96–98
 site description, A:75–157
 structural geology, A:94–95, 97–109
 summary and objectives, A:139, 142–143, 147
 thermal overprinting, B:74
 well logging, A:134–139
 wireline measurements, A:134–139
 WSTP–ADARA temperature measurements, A:126–134

Site 860, A:159–238
 background and objectives, A:160
 biostratigraphy, A:173–181; B:196–197
 coring, A:162
 deformation bands, B:13–26
 grain size, B:87
 inorganic geochemistry, A:208–211
 lithostratigraphy, A:163–173
 master chart, A:231–237
 operations, A:160–161, 163
 organic geochemistry, A:202–203, 205–208
 paleomagnetism, A:181–183
 physical properties, A:211–215
 sediments, B:98
 silicoflagellates, B:226–227
 site description, A:159–238
 structural geology, A:183, 185–202
 summary and conclusions, A:222–229
 well logging, A:218–222
 wireline measurements, A:218–222
 WSTP–ADARA temperature measurements, A:215–216, 218

Site 861, A:239–299
 background and objectives, A:240–241
 biostratigraphy, A:253–259; B:197–199, 213–221
 coring, A:244
 geochronology, B:235–240
 grain size, B:87
 inorganic geochemistry, A:272–274
 lithostratigraphy, A:245–253
 master chart, A:294–299
 operations, A:243–245
 organic geochemistry, A:268–272
 paleomagnetism, A:259–261
 physical properties, A:275–276, 278–280
 sediments, B:98
 silicoflagellates, B:227–230
 site description, A:239–299
 structural geology, A:262–268
 summary and conclusions, A:290–292
 WSTP–ADARA temperature measurements, A:280, 282–283, 286–290

Site 862, A:301–341
 background and objectives, A:302
 biostratigraphy, A:316–318; B:199–201
 coring, A:307
 diagenesis, B:108
 geochronology, B:421–426
 igneous petrology, A:315–316

SUBJECT INDEX

inorganic geochemistry, A:331
 lithostratigraphy, A:306–315
 master chart, A:340–341
 operations, A:302–303, 305–306
 organic geochemistry, A:326–329
 paleomagnetism, A:318, 320–321
 petrology, B:349–360
 petromagnetics, B:51–57
 physical properties, A:331–335
 sand, B:139
 sedimentation, B:389–390
 sediments, B:100–101
 site description, A:301–341
 structural geology, A:321–325
 summary and conclusions, A:335–337
 thermal history, B:75
 volcanic rocks, B:331–348
 Site 863, A:343–446
 background and objectives, A:344
 biostratigraphy, A:363–365; B:201–203
 coring, A:348
 diagenesis, B:153–167
 fluid flow, B:3–12, 74–75
 geochemical logs, B:431
 grain size, B:87
 hydraulic conductivity, B:401–405
 inorganic geochemistry, A:392, 394, 396–398, 400
 lithostratigraphy, A:349–350, 352–363
 master chart, A:425–432
 operations, A:344–345, 347–349
 organic geochemistry, A:387–392
 paleomagnetism, A:365, 367–369
 physical properties, A:401, 403–404
 sand, B:139
 sedimentation, B:388–389
 sediments, B:98–100
 site description, A:343–446
 structural geology, A:369–372, 374, 377–387
 summary and conclusions, A:422–423
 well logging, A:412–414, 417–422
 wireline measurements, A:412–414, 417–422
 WSTP–ADARA temperature measurements, A:404–405, 407–409, 412
 Sites 102/104, temperature calibration, B:264
 skewness
 physical properties residues, B:82–85
 vs. mean grain size, B:86, 88–91
 slickenline orientations, pole projections, A:193
 slickenlines, faults, A:394
 slip, oblique, forearcs, A:372, 374
 slope aprons, volcanogenic sediments, B:169–180
 slope facies, sediments, B:79–94
 slump folds, photograph, A:191
 slumping, sediments, B:89–92
 smectite
 hydraulic conductivity, B:403
 sediments, B:99, 158
 volcanic rocks, B:352–355
 vs. depth, B:371
 X-ray data, A:84, 362
 smectite/total clay minerals ratio, vs. depth, A:362
 smectite facies, alteration, B:356–358
 smectite relative abundance, vs. depth, A:87
 sodium
 interstitial waters, B:316–319
 vs. depth, A:281, 406; B:284–285, 369–370
 vs. mean axial depth, B:347
 vs. oxygen isotopes, B:318
 vs. sub-bottom depth, A:120, 217; B:317
 sodium oxide, glasses, B:338, 342
 sonic porosity, vs. depth, A:135, 227
 sonic velocity
 discrete sediment samples, A:286

from digital sediment sound and Hamilton Frame velocimeters, A:413
 Site 859, A:124
 Site 860, A:213–215
 Site 861, A:276
 Site 862, A:334
 Site 863, A:403
 vs. density, B:247
 vs. depth, A:409, 414
 sorting
 physical properties residues, B:82–85
 vs. depth below seafloor, B:86, 88–90
 vs. mean grain size, B:86, 88–91
 South America, Cenozoic geology, A:23–31
 South American Plate
 sedimentation, B:393–395
 tectonics, A:26–30; B:244
 volcaniclastics, B:133
 Southern Volcanic Zone
 arc magmatism, A:24–25
 eruptions, B:175–176
 sponge spicules, photograph, A:358
 spreading centers
 subduction, B:371
 tectonics, A:11–21
 spreading ridge–trench collision, volcanogenic sediments, B:169–180
 spreading ridges, bottom-simulating reflection, B:253–258
 stable isotopes
 foraminifers, B:235–240
 pore fluids, B:313–329
 See also carbon isotopes; hydrogen isotopes; oxygen isotopes; strontium isotopes
 steradienes, sediments, B:294
 steranes, sediments, B:126–129, 294
 sterenes, sediments, B:126–129, 290, 294
 steroids, sediments, B:126–129, 292
 strain indicators, magnetic fabric, B:29–49
 strains, vs. magnetic susceptibility, B:46–48
 stress ratio, vs. axial strain, B:414–416
 stresses
 vs. magnetic susceptibility, B:46–48
 vs. oedometer modulus, B:410–411
 vs. void ratio, B:410–411
 See also deviator stress; mean effective stress
 strontium
 vs. depth, B:281, 406–407; B:328, 369–370
 vs. sub-bottom depth, A:120, 217
 strontium isotopes
 pore fluids, B:313–329
 volcanic rocks, B:341
 vs. inverse of strontium concentration, B:319
 vs. neodymium isotopes, B:340
 vs. sub-bottom depth, B:316–317
 structural analysis, deformation bands, B:13–26
 structural data
 cores, A:186–190
 rotations, A:191
 rotations for reorientation, A:202
 Site 859, A:100–105
 Site 861, A:264–268
 Site 862, A:326–327
 Site 863, A:378–387
 structural domains
 accretionary prisms, B:3–4, 15–21
 broken formation, A:209
 demagnetization, A:261
 sediments, B:154
 Site 860, 185–202
 vs. depth, A:105, 185, 263
 structural features
 photograph, A:330
 vs. depth, A:377

structural geology
 Site 859, A:94–95, 97–109
 Site 860, A:183, 185–202
 Site 861, A:262–268
 Site 862, A:321–325
 Site 863, A:369–372, 374, 377–387

structural orientation
 cores, A:98–99
 domains, A:372
 magnetism, A:93–94; B:75
 remanence, A:182–183
 rotations, A:106, 109

structural styles, lithologic units, A:94–99, 105–108

subduction zones
 accretionary prisms, B:371
 collisions, A:12, 14, 17–20
 geothermal gradient, B:56
 hydrothermal traces, B:103
 sedimentation, B:394–396
See also ridge subduction

sulfate
 depletion, A:273–274
 interstitial waters, B:316–319
 vs. depth, A:281–282, 406–407; B:328
 vs. sub-bottom depth, A:120, 217–218

sulfate, copper, photograph, A:313

sulfides. *See* magnetic sulfides

sulfides, hydrothermal, lithologic units, A:310–313

sulfur, sediments, A:403

suspension fallout, sediment grain size, B:91–93

swelling index, sediments, B:407–410

synthetic seismograms

 gas hydrates, B:246–247
 vs. depth, B:248

tachylite, photograph, A:312

Taitao Archipelago, glaciation, A:85–86

Taitao Fracture Zone

 crust, B:356–357
 heat flow, B:253–258
 ophiolite, A:6
 sedimentation, B:393–395
 subducting ridges, A:17–18, 20
 tectonics, A:337; B:3, 48, 75, 380, 426

Taitao Ophiolite

 deformation, A:25–26
 petrology, B:349–360

Taitao Peninsula

 collisions, B:185
 sedimentation, B:138, 141

Taitao Ridge

 geochemistry, B:341, 345–346
 geochronology, B:421–426
 geologic map, A:24
 geology, A:335–337
 ophiolite, A:6
 petrology, B:349–360
 petromagnetics, B:51–57
 profile, A:308
 sedimentation, B:389–390
 sediments, B:100–101
 site description, A:301–341
 subducting ridges, A:17–18, 20
 tectonics, B:29–31, 75, 345–346, 380
 volcaniclastics, B:172
 volcanic rocks, B:331–348

tectonic controls, sedimentation, A:172; B:139–140, 393–395

tectonics

 Cenozoic, A:23–31
 Chile margin, A:11–21
 Chile Rise, A:5–6

Chile Triple Junction, B:29–31, 259
 cross sections, A:290
 fluid flow, B:365, 367–368
 fluid migration, B:313–314
 ridge–trench collisions, B:185–186
 Site 863, A:377, 387, 423
 tectonostratigraphy, Site 862, B:331, 333–334, 421, 423
 temperature
 ADARA measurements, A:408–409
 calibration, B:263–267
 Site 860, A:215–216, 218–222
 Site 861, A:280, 282–283, 286–290
 Site 863, A:404–405, 407–409, 412
 vs. depth, A:132–133, 138, 226, 290, 418, 421; B:264–265, 267–268, 366
 vs. radiolarian preservation, A:179
 vs. time, A:127–130, 132, 138, 225–226, 287–290, 415–418, 420; B:266
 water-sampling temperature probe, B:261–268
 WSTP and ADARA measurements, A:215–216, 218, 280, 282–283, 286
 WSTP measurements, A:126–133, 405, 407–408
 temperature, downhole, Site 859, A:137–139
 temperature logs, Site 863, A:418–421
 temperature measurements, Site 859, A:126–134
 Tertiary, upper, triple junctions, A:25–26, 29–30
 textures
 physical properties residues, B:82–85
 sediments, B:105–117, 153–167
 thermal conductivity
 Site 859, A:122–123, 126
 Site 860, A:212–213, 223
 Site 861, A:278–280, 286
 Site 862, A:334–335, 339
 Site 863, A:403, 414
 vs. depth, A:124, 221, 283, 339, 409; B:269
 thermal data, B:363–372
 thermal environment, B:259
 thermal events, timing, B:183–184
 thermal history
 faulted regions, A:132
 magnetism, B:75
 thermal history, postdepositional, fission track ages, B:182
 thermal jet
 geochemistry, A:117
 Site 859, A:132–133
 thermal minimum, A:131–132
 thermal overprinting, magnetic sulfides, B:59–76
 thermal regime, gas hydrates, B:259–275
 thermal structure, middle trench slope, A:292
 thermagnetic data, volcanic rocks, B:55
 thrust geometry, cores, A:191, 193
 thrust stack domain, cores, A:185, 191
 titanium oxide
 glasses, B:338, 342
 vs. iron oxide/magnesium oxide ratio, B:53
 vs. magnesium oxide/(magnesium oxide + iron oxide) ratio, B:359
 vs. silica in titanomagnetite, B:55
 titanium oxide/iron oxide ratio, vs. silica in titanomagnetite, B:55
 titanomaghemitite, chemical composition, B:55
 titanomagnetite, petromagnetics, B:51–57
 trace elements
 basalts, B:345
 glasses, B:342–345
 rhyolites, B:346
 volcanic rocks, A:317
 traveltime, vs. offset, B:249–250
 traveltime, two-way
 vs. depth, A:137

vs. depth of penetration, A:137
 trench–slope basins
 sedimentation, B:141
 sediments, A:222–229; B:98–100
 volcanogenic sediments, B:169–180
 trench walls, sediments, B:79–94
 trenches, collisions, A:13–20

Tres Montes Fracture Zone
 geologic map, A:24
 Miocene subduction, A:25

triaxial tests, sediments, B:407–416

triple junctions
 Cenozoic, A:23–31
 migration, A:25–26, 29–30; B:141
 sedimentation, B:394

triterpenes, sediments, B:128, 130

triterpinoids, sediments, B:128, 130

turbidites
 depositional model, B:303

lithofacies, B:171

mineralogy, B:95–104

photograph, A:360

provenance, B:182

sedimentation, A:361–363; B:141

turbidity currents, sediments, B:89–92

turbidity flows, sediments, B:89–92

twig, thorny, photograph, A:248

underway geophysics, Chile margin, A:33–35

vanadium

 vs. chromium, B:358

 vs. magnesium oxide/(magnesium oxide + iron oxide) ratio, B:360

 vs. nickel, B:358

vein fragments, accretionary prisms, B:5

veins

 convergent margins, B:109–110

See also carbonate veins; pyrite veins; vein fragments

velocity

 discrete samples, A:224

 vs. depth, A:135, 283, 339; B:371

See also sonic velocity

velocity, DSV velocimeter, vs. depth, A:223

velocity, Hamilton-Frame, vs. depth, A:221

velocity, long offset, vs. depth, A:227

velocity, short offset, vs. depth, A:227

velocity logs

 vs. depth, A:419

See also resistivity–velocity–natural gamma-ray logs

vitrinite

 reflectance, B:128, 130–131

 sediments, B:125

void ratio

 sediments, B:407–410

 vs. effective vertical stress, B:410–411

volcanic arcs, evolution, B:184–185

volcanic ash

 photograph, A:247

 primary layers, B:173–174

volcanic clasts, petrology, A:315–316

volcanic glass

 chemical composition, B:174

 photographs, A:312; B:175, 179–180

 vs. depth, Site 862, A:314

 vs. lithologic units, A:351

See also glasses

volcaniclastics

 lithofacies, B:170–171

 provenance, B:133–151

volcanic rocks

 geochemistry, A:316; B:331–348

volcanic rocks (cont.)

TAXONOMIC INDEX

Harker variation diagram, A:318
 petromagnetics, B:51–57
 volcanic rocks, silicic, composition, B:355–358
 volcanism
 age, B:425
 eruptions, B:175–176
 sedimentation, B:141
 tectonics, A:23–25

water-sampling temperature probe, temperature, B:261–268
 water content
 Site 859, A:122
 Site 861, A:276
 vs. depth, A:124, 221, 283, 337, 409
 well-log units
 Site 859, A:134–136
 Site 860, A:221–222
 Site 863, A:417–418

well logging
 gas hydrates, B:245–246
 Site 859, A:134–139
 Site 860, A:218–222
 Site 863, A:412–414, 417–422

well logs
 quality and data, A:413–414, 417–421
 Site 859, A:80
 Site 860, A:163
 Site 863, A:349

wireline measurements
 Site 859, A:134–139
 Site 863, A:412–414, 417–422

WSTP. *See* water-sampling temperature probe

X-ray mineralogy, sediments, A:84–85, 172–174, 251–253

xenon, interstitial waters, B:326

Young's modulus, initial, sediments, B:407–410

younging, domains, A:374

zeolite cements, sediments, B:158
 zeolite facies, alteration, B:356–358
 zeolites
 hydraulic conductivity, B:403
 photographs, B:165
 sediments, A:361
 vs. lithologic units, A:351

Zijderveld plots
 demagnetization, A:261; B:33, 64–66, 68–69
 discrete samples, A:323–324, 373–376
 remanence intensity, A:96–97
 vs. demagnetization, A:183–184

zirconium. *See also* barium/zirconium ratio; cerium/zirconium ratio

zonation
 Cenozoic, B:375
 See also individual zones in Taxonomic Index

TAXONOMIC INDEX

Acarinina primitiva, Site 862, B:425
acquilonaris, *Botryostrobus*
 Site 859, A:89
 Site 860, A:175, 178
 Site 863, A:363
Actiniscus pentasterias
 Chile Triple Junction, B:224, 230–231, 233
 Site 860, B:227
Actiniscus pentasterias Zone
 Chile Triple Junction, B:226
 Site 860, B:227
 Site 862, B:230
Actinocyclus curvatus
 Site 860, B:417
 Site 861, B:418
Actinocyclus undulatus, Site 860, B:417
Actinophycus aff. *splendens*, Site 861, B:418
aculeata, *Dictyocha messanensis*
 Chile Triple Junction, B:224, 230–231, 233, 376–377
 Site 862, B:230
aculeatus, *Distephanus*
 Chile Triple Junction, B:224, 231, 375, 377
 Site 860, B:227
 Site 862, B:230
acuminatum, *Eucyrtidium*, Site 860, A:175, 178
adolphina, *Nodogenerina*, Site 861, B:214–216, 221
advena, *Plectofrondicularia*, Site 861, B:213
aequilateralis, *Gephyrocapsa*, Site 863, B:203
affinis, *Globobulimina*, Site 861, B:214, 220
affinis (=barleeanum), *Melonis*, Site 861, B:214
alata, *Probosia*, Site 861, B:418
alazanensis, *Bulimina*, Site 861, B:214, 221
alvarezianum, *Elphidium*, Site 863, A:365
Ammodochium, Site 860, B:227
Ammodochium serotinum
 Chile Triple Junction, B:224, 231, 233, 375, 377
 Site 860, B:227
 Site 862, B:230
Ammodochium serotinum Zone
 Chile Triple Junction, B:226
 Site 860, B:227

Ammodochium sp., Site 862, B:230
Amphirhopalum ypsilon
 Site 859, A:89–90
 Site 860, A:716
Amphirhopalum ypsilon Zone
 Site 859, A:90
 Site 860, A:178
 Site 863, A:363
angelinum, *Axoprunum*
 Site 859, A:89
 Site 860, A:178
 Site 861, A:255
 Site 863, A:363
angulare, *Anthocyrtidium*
 Site 860, A:176, 178
 Site 861, A:255
 Site 862, A:316
angulosa, *Trifarina*, Site 861, B:215, 221
antarctica, *Eucampia*, Site 860, B:417
antarctica, *Saccospyris*, Site 863, A:363
Antarctissa deflandrei, Site 860, A:178
Antarctissa denticulata
 Site 859, A:90
 Site 860, A:175, 178
 Site 861, A:255
Antarctissa sp., Site 860, A:178
Anthocyrtidium angulare
 Site 860, A:176, 178
 Site 861, A:255
 Site 862, A:316
Anthocyrtidium angulare Zone, Site 859, A:89–90
Anthocyrtidium zanguebaricum, Site 859, A:90
apertura, *Globigerina*
 Chile Triple Junction, B:211, 376
 Site 860, B:197
 Site 861, B:199
 Site 862, B:200
arachnea, *Siphcampe*, Site 860, A:178
aspera, *Trachyneis*, Site 860, B:417
asteriscus, *Heliodiscus*
 Site 860, A:175, 178
 Site 862, A:316
Asteromphalus spp., Site 860, B:417
aueriana, *Uvigerina*, Site 861, B:215

auris, *Noninella*, Site 861, B:214, 220
auritum, *Pterocanium*, Site 859, A:90
Axoprunum angelinum
 Site 859, A:89
 Site 860, A:178
 Site 861, A:255
 Site 863, A:363
barleeanum, *Melonis*, Site 861, B:214, 220
Beella digitata
 Chile Triple Junction, B:211, 376
 Site 861, A:257; B:199
 Site 862, A:317; B:200
bicornis, *Cycladophora*
 Site 859, A:89
 Site 860, A:175, 178
bifurcata, *Uvigerina*, Site 861, B:214, 216, 220
bigelowi, *Braarudosphaera*, Site 861, A:259; B:197
bioctonarius, *Distephanus*, Chile Triple Junction, B:230
Bolboforma reticulata, Chile Triple Junction, B:196
Bolivina costata
 Site 861, A:258
 Site 863, A:365
Bolivina spissa, Site 861, B:214, 216, 220
Botryostrobus acquilonaris
 Site 859, A:89
 Site 860, A:175, 178
 Site 863, A:363
Botryostrobus cf. *miralestensis*, Site 863, A:363
Botryostrobus miralestensis, Site 863, A:363
Braarudosphaera bigelowi, Site 861, A:259; B:197
bradyi, *Cibicidoides*, Site 861, B:214
brevis, *Pleurostomella*, Site 861, B:213
brightwellii, *Ditylum*, Chile Triple Junction, B:418
Buccinosphaera invaginata
 Site 860, A:176
 Site 862, A:316
Buccinosphaera invaginata Zone
 Site 859, A:89–90
 Site 860, A:175, 178

TAXONOMIC INDEX

elegans, Hoeglundina

Site 861, A:255
Bucella peruviana, Site 861, B:214, 216, 221
Bulimina alazanensis, Site 861, B:214, 221
Bulimina mexicana
 Site 859, A:92, 139
 Site 860, A:179
 Site 861, A:258
 Site 863, A:363
Bulimina striata mexicana, Site 861, B:214, 216, 220
bulloides, *Globigerina*
 Site 859, A:90
 Site 860, B:197
 Site 861, A:257; B:199, 235–240
 Site 862, B:200
bulloides, *Pullenia*
 Site 859, A:92
 Site 861, B:214
bulloides, *Sphaeroidina*, Site 863, A:265
calvertense, *Eucyrtidium*
 Site 859, A:90
 Site 860, A:175, 178
cariacoensis, *Globigerina*
 Site 861, A:257
 Site 862, A:317
caribbeanica, *Gephyrocapsa*
 Site 860, B:196–197
 Site 863, A:265; B:203
Carpocanarium papillosum, Site 860, A:175
Carpocanistrum flosculum, Site 860, A:178
Carpocanistrum papillosum, Site 860, A:178
Carpocanistrum sp., Site 860, A:178
carteri, *Helicosphaera*
 Chile Triple Junction, B:195
 Site 859, A:92
 Site 860, A:181; B:196–197
 Site 861, A:259; B:197–198
 Site 862, A:317
 Site 863, A:365; B:202–203
Cassidulina crassa
 Site 859, A:92
 Site 861, B:214, 221
Cassidulina laevigata, Site 861, B:214, 220
Chaetoceros
 Chile Triple Junction, B:417
 Site 860, A:174
chiliensis, *Nonionella*, Site 863, A:365
Cibicides lobatulus, Site 861, B:215
Cibicides mortoni, Site 862, B:425
Cibicidoides bradyi, Site 861, B:214
Cibicidoides mckannai, Site 861, B:214–215, 221
Cibicidoides refugens, Site 861, B:215
Cibicidoides sp., Site 863, B:203
Cibicidoides wuellerstorfi, Site 861, B:214, 220, 235–240
circularis, *Saturnalis*, Site 859, A:90
clausus, *Pterocanium*, Site 860, A:178
claviger, *Rhabdosphaera*, Site 861, B:197
Coccolithus leptoporus, Site 861, B:198
Coccolithus macintyrei, Site 860, B:197
Coccolithus pelagicus
 Site 859, A:92
 Site 860, A:179, 181; B:196–197
 Site 861, A:259; B:197–198
 Site 862, A:317; B:200
 Site 863, A:365; B:202–203
Collospheara tuberosa, Site 860, A:176
conica, *Cycladophora*, Site 863, A:363
consobrina, *Stilostomella*, Site 861, B:214–215, 218, 221
corbula, *Phormostichoartus*
 Site 859, A:89
 Site 860, A:175

Cornutella profunda, Site 860, A:175
cornutoides, *Cycladophora davisiana*, Site 860, A:175, 178
Coscinodiscus
 Chile Triple Junction, B:418
 Site 859, A:89
Coscinodiscus marginatus
 Site 862, A:216
 Site 863, A:363
Coscinodiscus oculus iris
 Site 859, A:89
 Site 860, A:175
Coscinodiscus spp.
 Site 859, B:417
 Site 860, B:417–418
costata, *Bolivina*
 Site 861, A:258
 Site 863, A:365
costatum, *Skeletonema*, Chile Triple Junction, B:418
crassa, *Cassidulina*
 Site 859, A:92
 Site 861, B:214, 221
crassaformis, *Globorotalia*, Chile Triple Junction, B:211
cuneiformis, *Hemidiscus*
 Site 859, B:417
 Site 860, B:417
 Site 861, B:418
curvatus, *Actinocyclus*
 Site 860, B:417
 Site 861, B:418
cushmani, *Uvigerina*, Site 861, A:258
Cycladophora bicornis
 Site 859, A:89
 Site 860, A:175, 178
Cycladophora cf. *davisiana davisiana*, Site 860, A:178
Cycladophora conica, Site 863, A:363
Cycladophora davisiana cornutoides, Site 860, A:175, 178
Cycladophora davisiana davisiana
 Site 859, A:89–90
 Site 860, A:175, 178
 Site 861, A:255
 Site 863, A:363
Cycladophora robusta, Site 863, A:363
Cyclococcolithus leptoporus
 Chile Triple Junction, 195
 Site 859, A:92
 Site 860, A:179, 181; B:196–197
 Site 861, A:259; B:197
 Site 862, A:317; B:200
 Site 863, A:365; B:202–203
Cyclococcolithus macintyrei
 Chile Triple Junction, B:193, 195, 373
 Site 859, A:92
 Site 860, A:181
 Site 861, B:198
 Site 862, A:317; B:200
davisiana cornutoides, *Cycladophora*, Site 860, A:175, 178
davisiana, *Cycyladophora* cf. *davisiana*, Site 860, A:178
davisiana davisiana, *Cycladophora*
 Site 859, A:89–90
 Site 860, A:175, 178
 Site 861, A:255
 Site 863, A:363
deflandrei, *Antarctissa*, Site 860, A:178
Delphineis karstenii, Chile Triple Junction, B:418
Dentalina sp., Site 861, B:215
denticulata, *Antarctissa*

Site 859, A:90
 Site 860, A:175, 178
 Site 861, A:255
Dictyochea episodon, Chile Triple Junction, B:230
Dictyochea messanensis, Chile Triple Junction, B:230, 233
Dictyochea messanensis aculeata
 Chile Triple Junction, B:224, 230–231, 233, 376–377
 Site 862, B:230
Dictyochea messanensis aculeata Zone, Chile Triple Junction, B:225
Dictyochea messanensis messanensis, Chile Triple Junction, B:231, 233, 376
Dictyochea perlaevis, Chile Triple Junction, B:233
Dictyocyme profunda/Hymenialstrum euclidis group
 Site 859, A:90
 Site 862, A:316
Didymocystis tetrathalamus tetrathalamus, Site 859, A:90
Didymocystis laticonus?, Site 859, A:89
digitata, *Beella*
 Chile Triple Junction, B:211, 376
 Site 861, A:257; B:199
 Site 862, A:317; B:200
diplotriaena, *Pterocanium*
 Site 859, A:90
 Site 860, A:175
Discolithina japonica
 Site 860, A:181; B:197
 Site 861, A:259; B:198
Distephanus aculeatus
 Chile Triple Junction, B:224, 231, 375, 377
 Site 860, B:227
 Site 862, B:230
Distephanus aculeatus Zone
 Chile Triple Junction, B:225
 Site 860, B:227
 Site 862, B:230
Distephanus bioctonarius, Chile Triple Junction, B:230
Distephanus speculum
 Chile Triple Junction, B:224, 230–231, 376
 Site 860, B:227
 Site 862, B:230
Distephanus speculum forma octonarius, Chile Triple Junction, B:233
Distephanus speculum forma pentagonus, Chile Triple Junction, B:233
Distephanus speculum forma septenarius, Chile Triple Junction, B:233
Distephanus speculum Zone
 Chile Triple Junction, B:225
 Site 862, B:230
Ditylum brightwellii, Chile Triple Junction, B:418
doliolus, *Pseudoeunotia*
 Site 859, B:417
 Site 860, A:174
 Site 861, B:418
dufterrei, *Neogloboquadrina*
 Chile Triple Junction, B:196, 211, 376
 Site 859, A:90
 Site 860, A:179; B:197
 Site 861, A:257; B:199
 Site 862, A:317; B:200
 Site 863, B:203
Ebria sp., Chile Triple Junction, B:233
Ebria tripartita, Chile Triple Junction, B:230, 233
Ehrenbergina glabra, Site 861, B:214, 216, 220
Ehrenbergina pupa, Site 859, A:92, 139
elegans, *Euchitonis*, Site 859, A:90
elegans, *Hoeglundina*, Site 861, A:258; B:214,

elegans, Hoeglundina (cont.)

TAXONOMIC INDEX

- 216, 221
Elphidium alvarezianum, Site 863, A:365
Emiliania huxleyi
 Chile Triple Junction, B:195, 373, 377
 Site 859, A:92
 Site 860, B:196
 Site 861, A:259; B:197
Emiliania huxleyi Zone, Site 861, A:259
epidon, *Dictyocha*, Chile Triple Junction, B:230
Epistominella pacifica, Site 861, B:214–215, 221
ericsonii, *Gephyrocapsa*
 Chile Triple Junction, B:195
 Site 859, A:92
 Site 860, A:179; B:196
 Site 861, A:259; B:197
 Site 863, A:365; B:202–203
erythromystax, *Eucyrtidium*
 Site 859, A:89–90
 Site 860, A:175
Eucampia antarctica, Site 860, B:417
Euchitonis elegans, Site 859, A:90
Eucyrtidium acuminatum, Site 860, A:175, 178
Eucyrtidium calvertense
 Site 859, A:90
 Site 860, A:175, 178
Eucyrtidium erythromystax
 Site 859, A:89–90
 Site 860, A:175
Eucyrtidium hexagonatum, Site 860, A:175
Eucyrtidium sp., Site 860, A:178
flosculum, *Carpocanistrum*, Site 860, A:178
fossilis, *Nitzschia*
 Site 860, A:174
 Site 861, A:253
fossilis, *Scapholithus*, Site 861, B:197
fragilis, *Oolitothus*, Site 861, A:259
Gavelinella cf. *succedens*, Site 862, B:425
Gephyrocapsa aequilateralis, Site 863, B:203
Gephyrocapsa caribbeanica
 Site 860, B:196–197
 Site 863, A:265; B:203
Gephyrocapsa ericsonii
 Chile Triple Junction, B:195
 Site 859, A:92
 Site 860, A:179; B:196
 Site 861, A:259; B:197
 Site 863, A:365; B:202–203
Gephyrocapsa oceanica
 Chile Triple Junction, B:193, 195, 225, 373,
 377
 Site 859, A:92
 Site 860, A:179; B:196–197
 Site 861, A:259; B:197–198
 Site 863, A:365; B:202–203
Gephyrocapsa oceanica group, Chile Triple
 Junction, B:204
Gephyrocapsa sp.
 Chile Triple Junction, B:373
 Site 859, A:92
 Site 860, A:181; B:197
 Site 861, B:198
 Site 862, A:317; B:200
glabra, *Ehrenbergina*, Site 861, B:214, 216, 220
glacialis, *Spongotorchus*, Site 860, A:178
Globanomalina ovalis, Site 862, B:425
Globanomalina sp., Site 862, B:425
Globigerina apertura
 Chile Triple Junction, B:211, 376
 Site 860, B:197
 Site 861, B:199
 Site 862, B:200
Globigerina bulloides
- Site 859, A:90
 Site 860, B:197
 Site 861, A:257; B:199, 235–240
 Site 862, B:200
Globigerina cariacoensis
 Site 861, A:257
 Site 862, A:317
Globigerinita glutinata, Chile Triple Junction,
 B:211
Globigerinita parkerae, Chile Triple Junction,
 B:211
Globobulimina affinis, Site 861, B:214, 220
Globocassidulina subglobosa, Site 861, B:221
Globoconella inflata
 Chile Triple Junction, B:195–196, 205, 211
 Site 859, A:90, 92
 Site 860, B:197
 Site 861, B:235–240
 Site 862, A:317; B:200, 362
Globoconella inflata Zone
 Chile Triple Junction, B:195, 374
 Site 859, A:91
 Site 860, A:174, 179
 Site 861, A:257; B:199
 Site 863, A:363; B:197, 203
Globorotalia cf. *sphericomiozea*, Site 860, A:179;
 B:197
Globorotalia crassaformis, Chile Triple Junction,
 B:211
Globorotalia crassaformis/Globoconella inflata
 zone boundary, Chile Triple Junction,
 B:205
Globorotalia crassaformis Zone
 Chile Triple Junction, B:195, 374
 Site 860, A:179
 Site 861, A:255; B:198
Globorotalia hirsuta, Site 862, A:317
Globorotalia scitula, Chile Triple Junction, B:211
Globorotaloides hexagonus
 Chile Triple Junction, B:196, 211, 376
 Site 860, B:197
 Site 861, B:199
 Site 862, B:200
glutinata, *Globigerinita*, Chile Triple Junction,
 B:211
gracilis, *Morozovella*, Site 862, B:425
Gyroidina zelandica, Site 861, B:214
hannai, *Lamproporos*
 Site 859, A:90
 Site 860, A:178
Helicosphaera carteri
 Chile Triple Junction, B:195
 Site 859, A:92
 Site 860, A:181; B:196–197
 Site 861, A:259; B:197–198
 Site 862, A:317
 Site 863, A:365; B:202–203
Helicosphaera sellii
 Chile Triple Junction, B:195, 377
 Site 860, A:181; B:197
 Site 861, B:198
Heliodiscus asteriscus
 Site 860, A:175, 178
 Site 862, A:316
Hemidiscus cuneiformis
 Site 859, B:417
 Site 860, B:417
 Site 861, B:418
Hemidiscus karstenii
 Site 860, B:417
 Site 863, A:363
Lamprocyrtis heteroporos sensu stricto, Site 862,
 A:316
Lamprocyrtis neo heteroporos
 Site 859, A:89
 Site 861, A:255
Lamprocyrtis nigrinia
 Site 859, A:89–90
 Site 860, A:175
 Site 861, A:255
 Site 862, A:316
laticonus?, *Didymocyrtis*, Site 859, A:89
leptoporus, *Cocco lithus*, Site 861, B:198
leptoporus, *Cyclococcolithus*
 Chile Triple Junction, 195
 Site 859, A:92
 Site 860, A:179, 181; B:196–197

TAXONOMIC INDEX

Pseudoemiliania lacunosa

- Site 861, A:259; B:197
 Site 862, A:317; B:200
 Site 863, A:365; B:202–203
linaperta, *Subbotina*, Site 862, B:425
Lithostrobus sp. cf. *Lithostrobus haxagonalis*, Site 859, A:90
lobatulus, *Cibicides*, Site 861, B:215
macintyrei, *Coccolithus*, Site 860, B:197
macintyrei, *Cyclococcolithus*
 Chile Triple Junction, B:193, 195, 373
 Site 859, A:92
 Site 860, A:181
 Site 861, B:198
 Site 862, A:317; B:20
mantaensis, *Uvigerina*
 Chile Triple Junction, B:377
 Site 859, A:92, 139
 Site 861, B:216, 221
marginatus, *Coscinodiscus*
 Site 862, A:216
 Site 863, A:363
maritatis, *Lamprocyclas*, Site 860, A:175
mckannai, *Cibicoides*, Site 861, B:214–215, 221
mediterranea, *Syracosphera*, Site 861, A:259;
 B:197
Melonis affinis (=barleeanum), Site 861, B:214
Melonis barleeanum, Site 861, B:214, 220
Melonis pompilioides
 Site 859, A:92
 Site 860, A:179
 Site 861, B:216, 221
 Site 863, A:365
Melonis pompilioides sphaerooides, Site 861,
 A:258
Melonis sphaerooides, Site 860, A:179
messanensis aculeata, *Dictyocha*
 Chile Triple Junction, B:224, 230–231, 233,
 376–377
 Site 862, B:230
messanensis, *Dictyocha*, Chile Triple Junction,
 B:230, 233
messanensis messanensis, *Dictyocha*, Chile Triple
 Junction, B:231, 233, 376
mexicana, *Bulimina*
 Site 859, A:92, 139
 Site 860, A:179
 Site 861, A:258
 Site 863, A:363
mexicana, *Bulimina striata*, Site 861, B:214, 216,
 220
Miliolinella subtrotunda, Site 861, B:215
miny thorax, *Pterocanium*, Site 859, A:90
mirale stensis, *Botryostrobus*, Site 863, A:363
mirale stensis, *Botryostrobus* cf., Site 863, A:363
Morozovella cf. *gracilis*, Site 862, B:425
Morozovella occlusa, Site 862, B:425
mortonii, *Cibicides*, Site 862, B:425
Mucronina sp., Site 861, B:215
murrhina, *Purgo*
 Site 860, A:179
 Site 861, A:258
 Site 863, A:365
Neogloboquadrina dutertrei
 Chile Triple Junction, B:196, 211, 376
 Site 859, A:90
 Site 860, A:179; B:197
 Site 861, A:257; B:199
 Site 862, A:317; B:200
 Site 863, B:203
Neogloboquadrina pachyderma
 Chile Triple Junction, B:195
 Site 859, A:90
 Site 860, A:179; B:197
 Site 861, A:257; B:199
 Site 862, A:317; B:200
 Site 863, A:365
 Site 860, A:179; B:197
 Site 862, A:317; B:200
Neogloboquadrina pachyderma (sinistral coiling
 form) Zone, Chile Triple Junction, B:195
Neogloboquadrina pachyderma Zone
 Chile Triple Junction, B:196
 Site 859, A:91
neoheteroporos, *Lamprocystis*
 Site 859, A:89
 Site 861, A:255
nigriniae, *Lamprocystis*
 Site 859, A:89–90
 Site 860, A:175
 Site 861, A:255
 Site 862, A:316
Nitzschia fossilis
 Site 860, A:174
 Site 861, A:253
Nitzschia kerguelensis
 Site 859, A:88–89, 175; B:417
 Site 860, A:174
 Site 861, A:255; B:418
Nitzschia reinholdii
 Site 860, A:174–175
 Site 861, A:253
Nitzschia reinholdii Zone, Site 860, A:174
Nitzschia separanda, Site 861, B:418
nitzschiooides, *Thalassionema*, Site 859, B:417
nitzschiooides, *Thalassiosira*, Site 860, A:174;
 B:417
Nodogenerina adolphina, Site 861, B:214–216,
 221
Nodogenerina sp., Site 861, B:213
Nonionella auris, Site 861, B:214, 220
Nonionella chiliensis, Site 863, A:365
Nonionellina sp., Site 862, B:425
Nonion pompilioides, Site 859, A:92
occlusa, *Morozovella*, Site 862, B:425
oceania, *Gephyrocapsa*
 Chile Triple Junction, B:193, 195, 225, 373,
 377
 Site 859, A:92
 Site 860, A:179; B:196–197
 Site 861, A:259; B:197–198
 Site 863, A:365
octacantha, *Tetrapyle*
 Site 859, A:90
 Site 860, A:175, 178
 Site 862, A:316
Octactis pulchra, Chile Triple Junction, B:230
octonarius, *Distephanus speculum*, Chile Triple
 Junction, B:233
oculus iris, *Coscinodiscus*
 Site 859, A:89
 Site 860, A:175
oestrupii, *Thalassiosira*
 Chile Triple Junction, B:417
 Site 859, A:89; B:417
 Site 860, A:174
Oolitothus fragilis, Site 861, A:259
Orbulina universa
 Chile Triple Junction, B:211, 376
 Site 860, A:179; B:197
 Site 861, A:257; B:199
 Site 862, A:317; B:200
Oridorsalis tener (=umbonatus), Site 861, B:214
Oridorsalis umbonatus, Site 861, B:214, 216, 220
ovalis, *Globanomalina*, Site 862, B:425
pachyderma, *Neogloboquadrina*
 Chile Triple Junction, B:195
 Site 859, A:90
 Site 860, A:179; B:197
 Site 862, A:317; B:200
Pontosphaera pacifica
 Chile Triple Junction, B:194–195, 373, 377
 Site 859, A:92
 Site 860, A:181; B:197
papillosum, *Carpocanarium*, Site 860, A:175
papillosum, *Carpocanistrum*, Site 860, A:178
Paralia sulcata
 Site 859, A:88; B:417
 Site 860, A:174; B:417
 Site 861, B:418
 Site 862, A:316
parkerae, *Globigerinita*, Chile Triple Junction,
 B:211
pelagicus, *Coccolithus*
 Site 859, A:92
 Site 860, A:179, 181; B:196–197
 Site 861, A:259; B:197–198
 Site 862, A:317; B:200
 Site 863, A:365; B:202–203
pentagonus, *Distephanus speculum*, Chile Triple
 Junction, B:233
pentas, *Spongaster*, Site 860, A:176, 178
pentasterias, *Actiniscus*
 Chile Triple Junction, B:224, 230–231, 233
 Site 860, B:227
peregrina, *Stichocorys*, Site 860, A:176
peregrina, *Uvigerina*
 Site 859, A:92
 Site 860, A:179
 Site 861, A:258; B:214, 216, 220
 Site 863, A:363
perlaevis, *Dictyocha*, Chile Triple Junction, B:233
peruviana, *Bucella*, Site 861, B:214, 216, 221
peruviana, *Rosalina*, Site 863, A:365
Phormostichoartus corbula
 Site 859, A:89
 Site 860, A:175
Planulina wuellerstorfi
 Site 860, A:179
 Site 861, A:258
 Site 863, A:365
Plectofrondicularia advena, Site 861, B:213
Pleurosigma spp., Site 859, B:417
Pleurostomella brevis, Site 861, B:213
pompilioides, *Melonis*
 Site 859, A:92
pompilioides sphaerooides, *Melonis*, Site 861,
 A:258
Pontosphaera pacifica
 Site 860, A:181; B:197
 Site 861, A:259
Pontosphaera syracusana, Site 861, A:259; B:197
praebergonii, *Rhizosolenis*, Site 860, A:174
praeoestrupii, *Thalassiosira*, Site 859, A:89
praetextum, *Pterocanium*
 Site 859, A:90
 Site 860, A:175
primitiva, *Acarinina*, Site 862, B:425
prismatum, *Pterocanium*
 Site 860, A:178
 Site 860, A:716
 Site 861, A:255
Proboscia alata, Site 861, B:418
profunda, *Cornutella*, Site 860, A:175
Prunopyre trypopyrena, Site 859, A:90
Pseudoemiliania lacunosa
 Chile Triple Junction, B:194–195, 373, 377
 Site 859, A:92
 Site 860, A:181; B:197

Pseudoemiliania lacunosa (cont.)

TAXONOMIC INDEX

- Site 861, A:259; B:197–198
 Site 862, A:317; B:200
 Site 863, A:365; B:202
Pseudoeumotia doliolus
 Site 859, B:417
 Site 860, A:174
 Site 861, B:418
Pseudoeumotia doliolus Zone
 Site 859, A:88
 Site 861, A:253, 259
pseudoumbilica, *Reticulofenestra*
 Chile Triple Junction, B:193, 195
 Site 860, A:181; B:197
 Site 861, B:198
Pterocanium auritum, Site 859, A:90
Pterocanum clausus, Site 860, A:178
Pterocanum diplotraena
 Site 859, A:90
 Site 860, A:175
Pterocanum korotonevi
 Site 859, A:90
 Site 860, A:175
Pterocanum minythurax, Site 859, A:90
Pterocanum praetextum praetextum
 Site 859, A:90
 Site 860, A:175
Pterocanum prismatum
 Site 860, A:178
 Site 860, A:716
 Site 861, A:255
Pterocanum prismatum Zone, Site 862, A:316
Pterocanum trilobum?
 Site 859, A:89
 Site 860, A:175
puella, *Spongocore*
 Site 859, A:90
 Site 860, A:175
pulchra, *Octactis*, Chile Triple Junction, B:230
pulchra, *Syracospaera*
 Chile Triple Junction, B:195
 Site 859, A:92
 Site 861, A:259; B:197
 Site 862, A:317
 Site 863, A:365
Pullenia bulloides
 Site 859, A:92
 Site 861, B:214
pupa, *Ehrenbergina*, Site 859, A:92, 139
pylomaticus, *Spongurus*?, Site 861, A:255, 363
Pyrgo murrhina
 Site 860, A:179
 Site 861, A:258
 Site 863, A:365
quinqueloba, *Turborotalia*, Chile Triple Junction, B:211
Quinqueloculina seminula, Site 861, B:215
Quinqueloculina sp., Site 862, A:317
refulgens, *Cibicidoides*, Site 861, B:215
reinholdii, *Nitzschia*
 Site 860, A:174–175
 Site 861, A:253
reticulata, *Bolboforma*, Chile Triple Junction, B:196
Reticulofenestra cf. *pseudoumbilica*
 Chile Triple Junction, B:195
 Site 860, B:197
 Site 861, B:198
Reticulofenestra pseudoumbilica
 Chile Triple Junction, B:193
 Site 860, A:181
Rhabdosphaera claviger, Site 861, B:197
Rhizosolenia praebergonii, Site 860, A:174
robusta, *Cycladophora*, Site 863, A:363
Rosalina peruviana, Site 863, A:365
Rupertina stabilis
 Site 861, B:215, 221
 Site 862, A:317
Saccospirys antarctica, Site 863, A:363
Saturnalis circularis, Site 859, A:90
Scapholithus fossilis, Site 861, B:197
scitula, *Globorotalia*, Chile Triple Junction, B:211
sellii, *Helicosphaera*
 Chile Triple Junction, B:195, 377
 Site 860, A:181; B:197
 Site 861, B:198
seminula, *Quinqueloculina*, Site 861, B:215
senticosa, *Uvigerina*, Site 861, A:258; B:214–216
separanda, *Nitzchia*, Site 861, B:418
septenarius, *Distephanus speculum*, Chile Triple Junction, B:233
serotoninum, *Ammodochium*
 Chile Triple Junction, B:224, 231, 233, 375, 377
 Site 860, B:227
 Site 862, B:230
Siphcampe arachnea, Site 860, A:178
Siphcampe sp., Site 860, A:178
Skeletonema costatum, Chile Triple Junction, B:418
speculum, *Distephanus*
 Chile Triple Junction, B:224, 230–231, 376
 Site 860, B:227
 Site 862, B:230
sphaeroides, *Melonis*, Site 860, A:179
Sphaeroidina bulloides, Site 863, A:265
sphericomiozea, *Globorotalia*, Site 860, A:179; B:197
spissa, *Bolivina*, Site 861, B:214, 216, 220
Spirocyrta subscalaris, Site 860, A:175, 178
splendens, *Actinophycus*, Site 861, B:418
Spongaster cf. *pentas*, Site 860, A:178
Spongaster pentas, Site 860, A:176, 178
Spongaster tetras, Site 863, A:363
Spongocore puella
 Site 859, A:90
 Site 860, A:175
Spongodiscus tetras, Site 859, A:90
Spongotorchus glacialis, Site 860, A:178
Spongurus? pylomaticus, Site 861, A:255
Spongurus pylomaticus, Site 863, A:363
stabilis, *Rupertina*
 Site 861, B:215, 221
 Site 862, A:317
Stephanopyxis spp., Site 860, B:417
Stichocorys peregrina, Site 860, A:176
Stichocorys peregrina Zone, Site 862, A:316
Stilostomella cf. *consobrina*, Site 861, B:214–215, 218
Stilostomella cf. *consobrina* Assemblage Zone, Site 861, B:215–216
Stilostomella consobrina, Site 861, B:221
Stilostomella sp., Site 861, B:213
striata mexicana, *Bulimina*, Site 861, B:214, 216, 220
Stylocidya valdispina, Site 860, A:178
Subbotina linaperta, Site 862, B:425
Subbotina triangularis, Site 862, B:425
subglobosa, *Globocassidulina*, Site 861, B:221
subrotunda, *Miliolinella*, Site 861, B:215
subscalaris, *Spirocyrta*, Site 860, A:175, 178
succedens, *Gavelinella*, Site 862, B:425
sulcata, *Paralia*
 Site 859, A:88; B:417
 Site 860, A:174; B:417
 Site 861, B:418
- Site 862, A:316
Syracospaera mediterranea, Site 861, A:259; B:197
Syracospaera pulchra
 Chile Triple Junction, B:195
 Site 859, A:92
 Site 861, A:259; B:197
 Site 862, A:317
 Site 863, A:365
syracusana, *Pontosphaera*, Site 861, A:259; B:197
tener (=umbonatus), *Oridorsalis*, Site 861, B:214
Tetrapyle octacantha
 Site 859, A:90
 Site 860, A:175, 178
 Site 862, A:316
terras, *Spongaster*, Site 863, A:363
terras, *Spongodiscus*, Site 859, A:90
tetrathalamus tetrathalamus, *Didymocystis*, Site 859, A:90
Thalassionema nitzschiooides, Site 859, B:417
Thalassiosira eccentrica
 Chile Triple Junction, B:417
 Site 859, A:88
 Site 860, B:417
 Site 861, A:418
 Site 863, A:363
Thalassiosira nitzschiooides, Site 860, A:174; B:417
Thalassiosira oestrupii
 Chile Triple Junction, B:417
 Site 859, A:89; B:417
 Site 860, A:174
Thalassiosira praeoestrupii, Site 859, A:89
Thalassiosira spp.
 Chile Triple Junction, B:417
 Site 859, A:88–89
 Site 860, A:174; B:417
 Site 861, B:418
Thecocystium trachelium dianae
 Site 859, A:89
 Site 860, A:175
 Site 862, A:316
tosaensis, *Truncorotalia*, Site 861, A:257
trachelium dianae, *Thecocystium*
 Site 859, A:89
 Site 860, A:175
 Site 862, A:316
Trachyneis aspera, Site 860, B:417
triangularis, *Subbotina*, Site 862, B:425
Trifarina angulosa, Site 861, B:215, 221
trilobum?, *Pterocanum*
 Site 859, A:89
 Site 860, A:175
tripartita, *Ebria*, Chile Triple Junction, B:230, 233
truncatulinoides, *Truncorotalia*
 Chile Triple Junction, B:195–196, 211
 Site 859, A:90, 92
 Site 860, B:197
 Site 861, A:257; B:199
 Site 862, B:200
 Site 863, B:203
Truncorotalia tosaensis, Site 861, A:257
Truncorotalia tosaensis Zone, Site 860, A:175, 179
Truncorotalia truncatoloides Zone, Site 862, B:200–201
Truncorotalia truncatulinoides
 Chile Triple Junction, B:195–196, 211
 Site 859, A:90, 92
 Site 860, B:197
 Site 861, A:257; B:199
 Site 863, B:203

Truncorotalia truncatulinoides/Truncorotalia tosaensis overlap Zone, Site 861, A:257

Truncorotalia truncatulinoides Zone
Chile Triple Junction, B:195–196, 204, 374
Site 859, A:90
Site 860, B:197
Site 861, A:257; B:199
Site 863, B:203
trypopyrena, *Prunopyre*, Site 859, A:90
tuberosa, *Collosphaera*, Site 860, A:176
Turborotalia quinqueloba, Chile Triple Junction, B:211
umbonatus, *Oridorsalis*, Site 861, B:214, 216, 220
undulatus, *Actinocyclus*, Site 860, B:417
universa, *Orbulina*
Chile Triple Junction, B:211, 376
Site 860, A:179; B:197
Site 861, A:257; B:199
Site 862, A:317; B:200
Uvigerina auberiana, Site 861, B:215
Uvigerina bifurcata, Site 861, B:214, 216, 220
Uvigerina cf. senticosa, Site 863, A:365
Uvigerina cushmani, Site 861, A:258
Uvigerina hispida, Site 861, A:258
Uvigerina hollicki, Site 861, B:215–216, 220

Uvigerina mantaensis
Chile Triple Junction, B:377
Site 859, A:92, 139
Site 861, B:216, 221
Uvigerina mantaensis Assemblage Zone, Site 861, B:215
Uvigerina peregrina
Site 859, A:92
Site 860, A:179
Site 861, A:258; B:214, 216, 220
Site 863, A:363
Uvigerina senticosa, Site 861, A:258; B:214–216
Uvigerina senticosa Assemblage Zone, Site 861, B:215
Uvigerina sp., Site 859, A:92
valdispina, *Stylocictya*, Site 860, A:178
wuellersstorfi, *Cibicidoides*, Site 861, B:214, 220, 235–240
wuellersstorfi, *Planulina*
Site 860, A:179
Site 861, A:258
Site 863, A:365
Xanthiopyxis, Chile Triple Junction, B:417

ypsilone, *Amphirhopalum*
Site 859, A:89–90
Site 860, A:716
zanguebaricum, *Anthocyrtidium*, Site 859, A:90
zelandica, *Gyroidina*, Site 861, B:214
zones (with letter prefixes)
NN15, B:193–194, 198, 377
NN16/NN15 boundary, B:205
NN16, A:181, 259, 317; B:193–194, 197–198, 200, 376–377
NN17, B:193, 197, 198, 200
NN18, A:181, 259, 317; B:193, 197–198, 200, 225–226, 373, 375, 377
NN19, A:181, 197, 365; B:197, 255, 373, 377
NN20, A:179, 365; B:196–197, 202–203, 225, 230, 377
NN20/NN19 boundary, B:373
NN21, A:179, 259, 365; B:225, 230, 373, 377
NTD17, A:88, 253
RN11, A:178, 316
RN12, A:178, 316
RN13, A:178, 255, 316
RN16, A:178, 255, 316