

## INDEX

- Abathomphalus mayaroensis* Zone, 277, 541  
 Acanthodesmiids, 787  
 Angular unconformity, 376, 701  
 Anomaly 20, Site 204, Pacific plate, 41  
 Anomaly 32, Site 204, Pacific plate, 41  
 Antarctic Bottom Water, 41  
 Argillization, 538  
 Aulosphaerids, 754  
 Aure Trough, 376  
 Basalt, pillow, 60, 61, 67, 484  
 Basalt-limestone contact, 60, 483, 484, 487  
 Bedding, 37  
 Bellona Gap, 197, 703  
 Bioturbation, 60, 107, 273, 274, 693-700  
   *See also: Zoophycos, Chondrites*  
*Blackites rectus* Zone, 706  
 Bligh Canyon, 376  
 Bottom water temperature, 455  
 Boundaries, stratigraphic,  
   Cretaceous-Tertiary, 275, 278, 557, 787  
   middle Eocene-late Eocene, 111  
   middle Miocene-late Miocene, 63, 111  
   middle Pleistocene-late Pleistocene, 111  
   Miocene-Pliocene, 63, 111, 114  
   Oligocene-Miocene, 111, 114, 276, 653  
   Paleocene-Eocene, 209  
   Pliocene-Pleistocene, 111, 113, 341, 377, 583  
 Bulk density trends, 498  
 Calcite, diagenetic, 503, 504  
*Calocyclus*  
   *costata* Zone, 118  
   *virginis* Zone, 118  
 Carbon and carbonate analyses, methods of, 15  
 Carbonate compensation depth, 35, 38, 62, 63, 64, 67  
 Castenellids, 751, 754  
*Catinaster coalithus* Zone, 341, 649  
*Ceratolithus*  
   *rugosus* Zone, 646  
   *tricorniculatus* Zone, 646, 647  
 Challengeriids, 751, 755  
 Chert, 279  
   nodules, 372, 375, 381  
*Chiasmolithus*  
   *danicus* Zone, 117, 209  
   *grandis* Zone, 709  
   *omaruensis* Zone, 703, 705  
*Chiphragmalithus*  
   *alatus* Zone, 116  
   *cristatus* Zone, 116, 208, 703  
*Chondrites*, 21, 374, 696, 698-699  
 Climate fluctuations, Pleistocene, 277  
   late Pliocene, 278  
 Coccoliths *See* nannofossils  
 Coelodendrids, 757  
 Collosphaerids, 22  
 Compensation depth *See* carbonate compensation depth  
*Conococcolithus panis* Zone, 656  
 Consolidation of carbonate sediments, 497  
 Contacts, lithologic, 37, 60, 483, 484, 487  
 Coral Sea Abyssal Plain, 476, 478  
 Coral Sea, calcareous nannofossils, 641, 701  
 Coral Sea Basin, Site 210  
   acoustic basement, 369, 370  
   angular unconformity, 376, 701, 705, 708  
   biostratigraphy, 377  
   carbon carbonate analyses, 382  
   chert nodules, 372, 375, 381  
   correlation of seismic reflectors, 463  
   diagenesis of sediment, 505  
   drilling program, 370  
   folding of sediments, 376  
   foraminifera occurrence, 377, 579, 583  
   geothermal measurements, 450-451  
   graded beds, 372-374, 376, 378  
   grain size analyses, 381  
   lithologic units, 371  
   mineralogic trends, 728  
   nannofossil zonation, 890  
   organic carbon, 374  
   plant debris, 372  
   Pliocene-Pleistocene boundary, 377  
   sedimentation rates, 378  
   site survey, 369, 370, 371  
   sonic velocity measurements, 380  
   sonobuoy data, 370, 372, 477  
   thermal conductivity, 380  
   turbidites, 372  
   turbidity currents, 374, 376, 505  
   x-ray mineralogy results, 727-728, 729, 733-734,  
     746-750  
   *Zoophycos*, 374  
*Corbisema*  
   *hastata* Zone, 885  
   *triacantha* Zone, 837, 839-840  
 Cretaceous-Tertiary Boundary, 275, 278, 557, 787  
 Cross-bedding, 37  
 Currents, turbidity, 374, 376  
 Diagenesis, 21, 501-505  
 Diaperism, thermal, 906  
*Dictyochoa*  
   *aculeata* Zone, 844  
   *aspera* Zone, 64  
   *fibula* Zone, 837  
   *fibula aspera* Zone, 844, 885  
   *hexacantha* Zone, 885  
   *perlaevis* Zone, 844  
   *rhombica* Zone, 837  
 Dinoflagellates, endoskeletal, 837, 819-834  
   distribution, 837

## Discoaster

- binodosus* Zone, 208, 709
- brouweri* Zone, 643
- calcaris* Zone, 647
- deflandrei* Zone, 342, 650, 705
- distentus* Zone, 344, 703
- elegans* Zone, 208, 711
- exilis* Zone, 649, 703
- hamatus* Zone, 646, 647
- kugleri* Zone, 341, 649
- lodoensis* Zone, 116, 208, 708, 885
- mediosus* Zone, 209, 709
- multiradiatus* Zone, 209, 709
- quinqueramus* Zone, 646, 647
- sublodoensis* Zone, 711
- surculus* Zone, 643
- tani nodifer* Zone, 116, 344

Disconformities *See* unconformities

Dictyocha perlaevis Zone, 844

Dish structures, 37

## Distephanus

- crux* Zone, 885
- mesothalmus* Subzone, 841
- stauracanthus* Subzone, 841

*Dorcadospyris ateuchus* Zone, 118

## Drilling program

- Site 203, Lau Basin, 18
- Site 204, Pacific Plate, 35
- Site 205, South Fiji Basin, 59
- Site 206, New Caledonia Basin, 104
- Site 207, South Lord Howe Rise, 199
- Site 208, North Lord Howe Rise, 272
- Site 209, Queensland Plateau, 335
- Site 210, Coral Sea Basin, 370

Eastern Marginal Basin Province, 897-898, 900, 902, 904, 906

Ebridians, 837

*Ellipsolithus macellus* Zone, 117, 209

*Emiliana huxleyi* Zone, 642

Endoskeletal dinoflagellates, 819-834, 837

Eolian quartz, 279

*Ericsonia subdisticha* Zone, 706

*Fasiculithus tympaniformis* Zone, 117, 708

Faults, normal, 108

Fiji Sea, calcareous nannofossils, 641

Fish teeth, 36, 39

Fly River Delta, 377

Folding, 376

Foraminifera, 577-579

- benthonic, 22, 64, 205, 276, 546
- planktonic, occurrence, 22, 276, 377, 577, 579
- basis for age determination, 7-8
- Eocene, 114, 116
- Maastrichtian, 207, 277, 553, 554
- Miocene, 54, 63, 114, 206, 579-581
- Miocene-Pliocene boundary, 585-586
- Oligocene, 114, 378
- Paleocene, 206, 544
- Pleistocene, 113, 206, 340, 583, 596
- Pliocene, 113, 206, 581, 596

Pliocene-Pleistocene boundary, 377, 583-585, 596

Teurain Stage index taxa, 277, 543

zonation

*Abathomphalus mayaroensis* Zone, 277, 541

## Globigerina

*nepenthes* Zone, 593, 595

*triloculinoides* Zone, 277

*Globigerinoides trilobus* Zone, 593

*Globoconcusa daubjergensis-Globorotalia pseudobulloides* Zone, 541

## Globorotalia

*conomiozea* Zone, 592, 595

*continua* Zone, 593, 595

*crassiformis* Zone, 591, 595

*duertrei* Zone, 592

*inflata* Zone, 586, 591, 594

*margaritae* Zone, 592

*mayeri* Zone, 593, 596

*miozea sphericomiozea* Zone, 592

*pseudomenardii* Zone, 277, 541, 543

*puncticulata* Zone, 591-592, 595

*pusilla pusilla* – *G. angulata* Zone, 277, 541

*tosaensis* Zone, 277, 589, 591, 594

*truncatulinoides* Zone, 586-587, 594

*truncatulinoides-tosaensis* overlap Zone, 340, 587, 594

*uncinata* Zone, 277, 541, 543

*Globotruncana circumnodifer* Zone, 713

*Orbulina suturalis* Zone, 593

*Pulleniatina obliquiloculata* Zone, 588

Gas content (residual) of sediments, 721

*Gephyrocapsa oceanica* Zone, 642

Glass, volcanic, 35, 37, 59, 107, 202, 481-488, 724-726

## Globigerina

*nepenthes* Zone, 593, 595, 596

*triloculinoides* Zone, 277

*Globigerinoides trilobus* Zone, 593

*Globoconcusa daubjergensis-Globorotalia pseudobulloides* Zone, 541

## Globorotalia

*conomiozea* Zone, 592, 595

*continua* Zone, 593, 595

*crassaformis* Zone, 591, 595

*duertrei* Zone, 592

*inflata* Zone, 586, 591, 594

*margaritae* Zone, 592

*mayeri* Zone, 593, 596

*miozea sphericomiozea* Zone, 592

*pseudomenardii* Zone, 277, 541, 543

*puncticulata* Zone, 591, 592, 595

*pusilla pusilla* Zone, 277, 541

*tosaensis* Zone, 277, 589-591, 594

*truncatulinoides* Zone, 586-587, 594

*truncatulinoides-G. tosaensis* Overlap Zone, 340, 587, 594

*uncinata* Zone, 277, 541, 543

*Globotruncana circumnodifer* Zone, 713

Graded bedding, 37, 372-374, 376, 378

Grain size analyses, methods of, 15

Great Barrier Reef, 377

- Havre Trough, 17  
Hawkes Bay, 543  
*Helicopontosphaera*  
*ampliaperta* Zone, 649  
*reticulata* Zone, 706  
*Heliolithus kleinpelli* Zone, 209
- Ichnofossils, relationship to paleobathymetry, 696  
*Inoceramus*, 37, 39, 41
- Kaikouran Orogeny, 906  
Karamea Peninsula, 204  
Kosciusko Uplift, 906
- Lag gravel, 702  
Late Pliocene  
climate fluctuations, 273  
environment of deposition, 341  
nannofossil occurrence, 207, 278, 341  
Lau Basin, Site 203, 17-32, 708, 897  
acoustic basement, 17  
basalt, 21, 488  
biostratigraphy, 22  
bulk density of sediments, 23  
carbon and carbonate analyses, 25  
*Chondrites*, 21  
collosphaerids, 22  
diagenesis of sediment, 21  
drilling program, 18  
foraminifera occurrence, 22, 577, 584  
grain size analysis, 25  
nannofossil zonation, 642-643, 644, 645, 886  
Pliocene-Pleistocene boundary, 21, 22  
Radiolaria occurrence, 22, 23, 751, 752  
silicoflagellate occurrence, 23, 844  
site survey, 17  
sonic velocity measurements, 23  
thermal conductivity, 24, 25  
volcanic ash, 18, 21, 481  
glass, 18, 21, 24  
x-ray mineralogy results, 25, 723-724, 728, 730, 735  
*Zoophycos*, 21  
Lau Ridge, 17, 21, 488  
Lirrellids, 751  
Lithification, 497  
as related to thermal gradients, 506  
as related to sonic velocity trends, 497-498  
as related to bulk density, 498-499  
Lithologic classification, methods of, 11-14  
Lord Howe Island, 906  
Lord Howe Rise, 3, 110, 906  
correlation to Hawkes Bay, 543  
Lower *Corbisema triacantha* subzone, 840-841  
Louisville Ridge, 38, 41, 488, 644, 906  
*Lynchnocanoma elongata* Zone, 118  
*Lyrarnula furcula* Zone, 885  
Lysocline, 701, 721
- Manganese, 485  
Manganese nodules, 35
- Marianas Trench, 33  
*Marthasterites*  
*contortus* Zone, 209  
*tribrachiatum* Zone, 116, 208, 708  
Medusettid, 751, 756  
"Mesocena"  
cf. *elliptica* Zone, 844  
*quadrangula* Zone, 837  
Mesozoic-Cenozoic Boundary, 275, 278, 654, 657, 668, 701, 713-718, 787  
Miocene-Pliocene Boundary, 63, 111, 114  
Moresby Submarine Canyon, 376
- Nannofossils  
occurrence, 378, 671, 673, 675, 676, 678, 888, 889  
basis for age determination, 8-11  
Eocene, 116, 208, 343, 681  
Maastrichtian, 209, 278, 744  
Mesozoic-Cenozoic Boundary, 657, 664, 668  
Miocene, 115, 341, 342, 379  
Oligocene, 116, 342  
Paleocene, 117, 209, 683, 685, 687  
Pleistocene, 115, 207, 277, 341, 378  
Pliocene, 115, 207, 341, 278  
zonation  
*Blackites rectus* Zone, 706  
*Catinaster coalitus* Zone, 341, 649  
*Ceratolithus*  
*rugosus* Zone, 646  
*tricorniculatus* Zone, 646, 647  
*Chiasmolithus*  
*danicus* Zone, 117, 209  
*grandis* Zone, 709  
*omaruensis* Zone, 703, 705  
*Chiphragmalithus*  
*alatus* Zone, 116, 344, 703  
*cristatus* Zone, 116, 208, 703  
*Conoccolithus panis* Zone, 656  
*Discoaster*  
*binodosus* Zone, 208, 709  
*brouweri* Zone, 643  
*calcaris* Zone, 646, 647  
*deflandrei* Zone, 342, 650, 705  
*distentus* Zone, 344, 703  
*elegans* Zone, 208, 711  
*exilis* Zone, 649, 703  
*hamatus* Zone, 646, 647  
*kugleri* Zone, 341, 649  
*lodoensis* Zone, 116, 208, 708, 885  
*mediosus* Zone, 209, 709  
*multiradiatus* Zone, 209, 709  
*quinqueramus* Zone, 646, 647  
*sublodoensis* Zone, 711  
*surculus* Zone, 643  
*tani nodifer* Zone, 116, 344  
*Ellipsolithus macellus* Zone, 117, 209  
*Emiliana huxleyi* Zone, 642  
*Ericsonia subdisticha* Zone, 706  
*Fasciculithus tympaniformis* Zone, 117, 708  
*Gephyrocapsa oceanica* Zone, 642

- Helicopontosphaera*  
*ampliaperta* Zone, 649  
*reticulata* Zone, 706  
*Heliolithus kleinPELLI* Zone, 209, 711  
*Marthasterites*  
*contortus* Zone, 209  
*tribrachiatum* Zone, 116, 208, 708  
*Nephrolithus frequens* Zone, 210, 713  
*Prinsius martinii* Zone, 117, 209, 713  
*Pseudoemiliana lacunosa* Zone, 643, 663, 665, 667  
*Reticulofenestra*  
*bisecta* Zone, 116, 342, 705  
*dictyoda* Zone, 208  
*hampdenensis* Zone, 208, 344, 703  
*placomorpha* Zone, 706  
*umbilica* Zone, 885  
*Sphenolithus*  
*ciperoensis* Zone, 342, 650, 652, 705, 885  
*distentus* Zone, 651, 705  
*heteromorphus* Zone, 649, 703  
*Zygrhablithus bijugatus* Zone, 708, 711  
Nasselarians, 837  
*Nephrolithus frequens* Zone, 210, 713  
New Caledonia Basin, Site 206, 103-196, 701, 721  
  biostratigraphy, 110  
  bottom water temperature, 455  
  burrows, 107  
  carbon and carbonate analysis, 122  
  correlation of seismic reflectors, 461  
  diagenesis of sediment, 503  
  dinoflagellate stratigraphy, 821  
  disconformities, 109, 111, 114, 116, 121, 585, 721  
  drilling program, 104  
  foraminifera occurrences, 577, 580, 593  
  geothermal measurements, 444-448  
  grain size analysis, 122  
  heat flow, 455  
  lysocline, 701  
  mineralogic trends, 725  
  nanofossil zonation, 888-889  
  normal faults, 108  
  Pliocene-Pleistocene Boundary, 111, 113  
  Radiolaria, 752, 753  
  sedimentation rate, 111  
  silicoflagellate occurrence, 845  
  site survey, 104, 106  
  slickensides, 108  
  sonic velocity measurements, 120  
  sonobuoy data, 104, 110, 469  
  thermal conductivity measurements, 120, 125  
  unconformities, angular, 701, 704, 708  
  volcanic material, 107, 110, 485, 725  
  x-ray mineralogy results, 123, 725-726, 728, 731, 740-742  
  *Zoophycos*, 107  
Nodules  
  manganese, 35  
  pyrite, 273  
  chert, 381  
Norfolk Island, 905  
Norfolk Ridge, 3, 110  
Normal faults, 108  
Northern Lord Howe Rise, Site 208  
  acoustic basement, 272  
  bulk density of sediments, 279  
  correlation of seismic reflectors, 462, 463  
  carbon and carbonate analyses, 280  
  Cretaceous-Tertiary boundary, 787  
  depositional environment, 504  
  disconformities, 276, 277, 279, 703, 704, 709, 710  
  drilling program, 272  
  foraminifera occurrence, 578, 579, 592, 593  
  Mesozoic-Cenozoic boundary, 275, 278, 713, 714, 721  
  nanofossil zonation, 658, 889-890  
  Oligocene-Miocene boundary, 275  
  paleodepths, 276  
  paleogeography, 721  
  Pleistocene climatic fluctuations, 277  
  pyrite nodules, 273  
  site survey, 272, 472  
  sonic velocity, 279  
  sonobuoy, 272, 274, 473  
  subsidence, 279  
  thermal conductivity measurements, 279, 282  
  x-ray mineralogy results, 281, 726, 729, 732, 743  
  *Zoophycos*, 273, 274  
Oligocene-Miocene boundary, 111, 114, 276, 653  
Oligocene-Miocene unconformity, 504  
Omatai Trough, 377  
*Orbulina saturalis* Zone, 593  
Orosphaerid spines, 39, 40  
Otoliths, 36, 39  
Pacific plate, Site 204, 33-56  
  Anomaly 20, 41  
  Anomaly 32, 41  
  bedding, 37  
  biostratigraphy, 39  
  carbonate compensation depth, 35, 38  
  carbon and carbonate measurements, 42  
  correlation of seismic reflectors, 460  
  dish structure, 37  
  drilling program, 35  
  fish teeth, 36, 39  
  geothermal measurements, 444, 445  
  grain size, 42  
  foraminifera occurrence, 577  
  *Inoceramus*, 37, 39, 41  
  manganese nodules, 35  
  nanofossil occurrence, 644, 646, 888  
  orophaerid spines, 39, 40  
  otoliths, 36, 39  
  Radiolaria, 751-752  
  silicoflagellate occurrence, 845  
  site survey, 33, 34  
  sonic velocity measurements, 40  
  sonobuoy data, 35  
  spherulitic structures, 37  
  thermal conductivity, 40, 42  
  volcanic activity, 33  
  volcanic material, 35, 37, 481, 724  
  x-ray mineralogy results, 42, 724, 728, 730, 736  
Paleobathymetry, 114, 204, 276, 340, 696, 699-700

- Paleotemperature, 885
- Phaeodarian Radiolaria, 23, 752
- aulosphaerids, 754
  - castanellids, 751, 754
  - challengeriids, 754
  - coelodendrids, 751, 757
  - lirellids, 751
  - medusettids, 751, 756
  - sagosphaerids, 754
- Pleistocene
- climatic fluctuations, 277
  - nannofossil assemblage, 207, 277, 341
  - foraminifera assemblage, 206, 583, 596
  - volcanism, 488
- Pliocene-Pleistocene boundary, 111, 113, 341, 377, 583
- Podocyrtes mitra* Zone, 380
- Prinius martinii* Zone, 117, 209, 713
- Pseudoemiliana lacunosa* Zone, 643, 663, 665, 667
- Pulleniatina obliquiloculata* Zone, 588
- Pumice, 59
- Pyrite, 273, 504
- Queensland Plateau, Site 209
- acoustic basement, 345
  - biostratigraphy, 339
  - bulk density of sediments, 344
  - carbon and carbonate analyses, 346
  - correlation of seismic reflectors, 463, 462
  - disconformities, 340, 342, 345, 705, 708
  - drilling program, 335
  - foraminifera occurrence, 579, 584
  - grain size analysis, 345
  - heat flow, 445, 449, 450
  - mineralogic trends, 726
  - nannofossil zonation, 341, 343, 890
  - paleodepths, 340
  - Pliocene-Pleistocene boundary, 341
  - site survey, 333, 334, 474
  - sonic velocity measurements, 344
  - sonobuoy, 334, 338, 475
  - subsidence, 340
  - thermal conductivity, 344, 345, 346, 454
  - volcanic material, 488, 726
  - x-ray mineralogy results, 726-727, 729, 732, 744, 745
- Queensland Trough, 345
- Radiolaria
- acanthodesmiids, 787
  - aulosphaerids, 754
  - castanellids, 751, 754
  - challengeriids, 751, 755
  - coelendrids, 751
  - lirellids, 751
  - medusettids, 751, 756
  - nasselarians, 837
  - sagosphaerids, 754
  - spumellarians, 787, 837
  - occurrence, 22, 66, 210, 278, 751-757
    - Pleistocene, 118
    - Eocene, 278
    - Paleocene, 278-279, 787-790
- zonation
- Dorcadospyris ateuchus* Zone, 118
  - Lynchnocanoma elongata* Zone, 118
  - Podocyrtes mitra* Zone, 380
  - Stichocorys peregrina* Zone, 64
  - Thyrsocyrtes triacantha* Zone, 380
- Rates of sedimentation See Sedimentation rates
- Regional disconformity, Southwest Pacific, 41, 121, 275, 381, 721, 906
- South Lord Howe Rise, Site 207, 208, 211
  - North Lord Howe Rise, Site 208, 276, 279
  - Queensland Plateau, Site 209, 340, 345
- Regional volcanism, Pacific Plate sites, 488
- Reticulofenestra*
- bisecta* Zone, 116, 342, 705
  - hampdenensis* Zone, 208, 344, 703
  - placomorpha* Zone, 706
  - umbilica* Zone, 885
- Ridge and trough topography, 17
- Rocella gemma* Zone, 885
- Rhyolite, 202-203, 486, 523-538
- Sagosphaerids, 754
- Samoan Passage, 41
- Sea floor spreading, Southwest Pacific, 701
- Sedimentation rates
- Lau Basin, Site 203, 24
  - South Fiji Basin, Site 205, 63, 653, 693
  - New Caledonia Basin, Site 206, 111
  - South Lord Howe Rise, Site 207, 206
  - Coral Sea Basin, Site 210, 378
- Seismic reflectors
- correlation with lithology, 333, 460-463
  - relationship to lithification, 496
- Silicoflagellates
- occurrence, 22, 66, 838, 841, 844-845, 886-890
    - Eocene, 278
    - Paleocene, 278
  - zonation
    - Corbisema*
      - hastata* Zone, 885
      - triacantha* Zone, 837, 839-840
    - Lower *Corbisema triacantha* subzone 840-841
    - Dictyocha*
      - aculeata* Zone, 844
      - aspera* Zone, 64
      - hexacantha* Zone, 885
      - fibula* Zone, 837
      - fibula aspera* Zone, 844, 885
      - rhombica* Zone, 837
      - perlaevis* Zone, 844
    - Distephanus*
      - crux* Zone, 885
      - mesophthalmus* Subzone, 841
      - staurcanthus* Subzone, 841
    - "*Mesocena*"
      - cf. *elliptica* Zone, 844
      - quadrangula* Zone, 837
    - Lynamula furcula*, 885
    - Rocella gemma*, 885



- Site 203 *See* Lau Basin  
 Site 204 *See* Pacific Plate  
 Site 205 *See* South Fiji Basin  
 Site 206 *See* New Caledonia Basin  
 Site 207 *See* South Lord Howe Rise  
 Site 208 *See* North Lord Howe Rise  
 Site 209 *See* Queensland Plateau  
 Site 210 *See* Coral Sea Basin  
 Site survey data, 5  
 Slickensides, 108  
 Slumps, 109, 110  
 Sonic velocity measurements, 23, 40, 67, 120, 210, 279, 344, 380, 523  
 South Fiji Basin, Site 205, 57-102, 897  
   basalt, 60, 483  
   basalt-limestone contact, 60, 483  
   benthonic foraminifera, 64  
   biostratigraphy, 63  
   bioturbation, 60  
   carbon and carbonate analyses, 68  
   carbonate compensation depth, 62, 63, 64, 67  
   correlation of seismic reflectors, 460  
   disconformity, 63, 67, 725  
   drilling program, 59  
   foraminifera occurrence, 63-64, 577  
   grain size analysis, 68  
   middle Miocene-late Miocene boundary, 63  
   Miocene-Pliocene boundary, 63  
   mineralogic trends, 725  
   nannofossil biostratigraphy, 646, 647, 648, 650, 652, 888  
   Radiolaria biostratigraphy, 65, 66, 752  
   sedimentation rates, 63, 693  
   site survey, 57, 58, 466  
   sonic velocity measurements, 67  
   silicoflagellate occurrence, 65, 66, 845  
   sonobuoy data, 59, 61  
   thermal conductivity measurements, 67  
   volcanic material, 59, 60, 483, 488, 725  
   x-ray mineralogy results, 724-725, 728, 730, 737-739  
   *Zoophycos*, 60  
 Southern Lord Howe Rise, Site 207, 197, 270  
   biostratigraphy, 204  
   carbon and carbonate analyses, 212  
   correlation of seismic reflectors, 461, 462  
   diagenesis of sediment, 503  
   disconformity, 200, 208, 209, 211, 702, 709  
   drilling program, 199  
   foraminifera occurrence, 206-207, 579, 582, 588, 594, 595  
   grain size analysis, 212  
   lag gravel, 702  
   Mesozoic-Cenozoic boundary, 713  
   nannofossil occurrence, 207-210, 889  
   Paleocene-Eocene boundary, 209  
   paleodepths, 204  
   Radiolaria occurrence, 210  
   sedimentation rates, 204  
   site survey, 198, 200, 470  
   sonic velocity, 210-211  
   sonobuoy data, 199, 203, 471  
   spherulites, 202  
   subsidence, 206  
   subtropical convergence, 206  
   thermal conductivity measurements, 211, 214  
   volcanic material, 202, 483-485  
   x-ray mineralogy results, 213, 726, 729, 731-732, 742-743  
*Sphenolithus*  
   *ciperoensis* Zone, 342, 650, 652, 705, 885  
   *distentus* Zone, 651, 705  
   *heteromorphus* Zone, 649, 703  
 Spherulites, 37, 202, 530, 535  
 Spumellarians, 837  
 Stage classification, correlation of International and New Zealand, 8, 204, 653  
*Stichocorys peregrina* Zone, 64  
 Submarine volcanoes, 21  
 Subsidence, 41, 206, 279, 340, 345  
 Subtropical Convergence, 206  
 Tasman Basin, 197, 641, 703  
 Tasman Plate, 724  
 Tasman Sea, 3, 641, 701, 897  
 Taupo Volcanic Zone, 17  
 Taupo Region, 110  
 Tectonism, 906  
 Temperate Pliocene Foraminifera occurrence, 581  
 Teurian Stage index taxa, 277, 543  
 Thermal disperism, 906  
 Thermal conductivity measurements  
   Lau Basin, Site 203, 24  
   Pacific plate, Site 204, 40-41  
   South Fiji Basin, Site 205, 67  
   New Caledonia Basin, Site 206, 120  
   South Lord Howe Rise, Site 207, 211  
   North Lord Howe Rise, Site 208, 279  
   Queensland Plateau, Site 209, 344  
   Coral Sea Basin, Site 210, 380  
 Thermal gradients, relationship to lithification, 506  
*Thyrsocorytis triacantha* Zone, 380  
 Tonga Ridge, 17, 21, 24, 38, 488  
 Tonga Ridge-Lau Ridge area, 61  
 Tonga Trench, 33, 464, 644, 888  
 Tonga-Kermadec Trench, 3, 488  
 Townsville Trough, 345  
 Tropical Foraminifera zonation, 581, 596  
 Tuff, vitric, 37-38, 41, 63, 483  
   lapilli, 202, 523  
 Tuffaceous conglomerate, 37  
   sandstone, 37  
 Turbidites, 372-373, 376, 505  
 Turbidity currents, 374, 376  
 Unconformity, 276, 505  
   regional, 41, 340, 721, 906  
   middle Miocene, 276  
   Eocene-Oligocene, 111, 121, 279, 342, 345, 376, 381, 701, 708  
   middle Eocene-early Miocene, 208  
   Paleocene-Eocene, 121, 201, 701, 708, 906

Volcanic glass, 35, 37, 59, 107, 202, 481-488, 724, 725,  
726  
sand, 18, 21, 24  
ash, 18, 21, 59  
islands, 21  
zone, 17

Volcanism, 38, 41, 489

Western Pacific Plate Province, 897, 902, 904

Western Marginal Basin Province, 898-900, 902-904

X-ray analyses, methods of, 15, 723-750  
*See also:* Specific sites

*Zoophycos*, 21, 60, 107, 273, 274, 374, 693, 696, 694,  
695, 697

*Zygrhablithus bijugatus* Zone, 708, 711