

NEW ZEALAND  
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Geophysical Memoir 4

**Bibliography of New Zealand  
Oceanography**

1949-1953

Compiled by  
Members of the N.Z. Oceanographic Committee

N.Z. OCEANOGRAPHIC INSTITUTE  
WELLINGTON

1955

ISSUED UNDER THE AUTHORITY OF THE HON. R. M. ALGE, MINISTER IN  
CHARGE OF THE DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

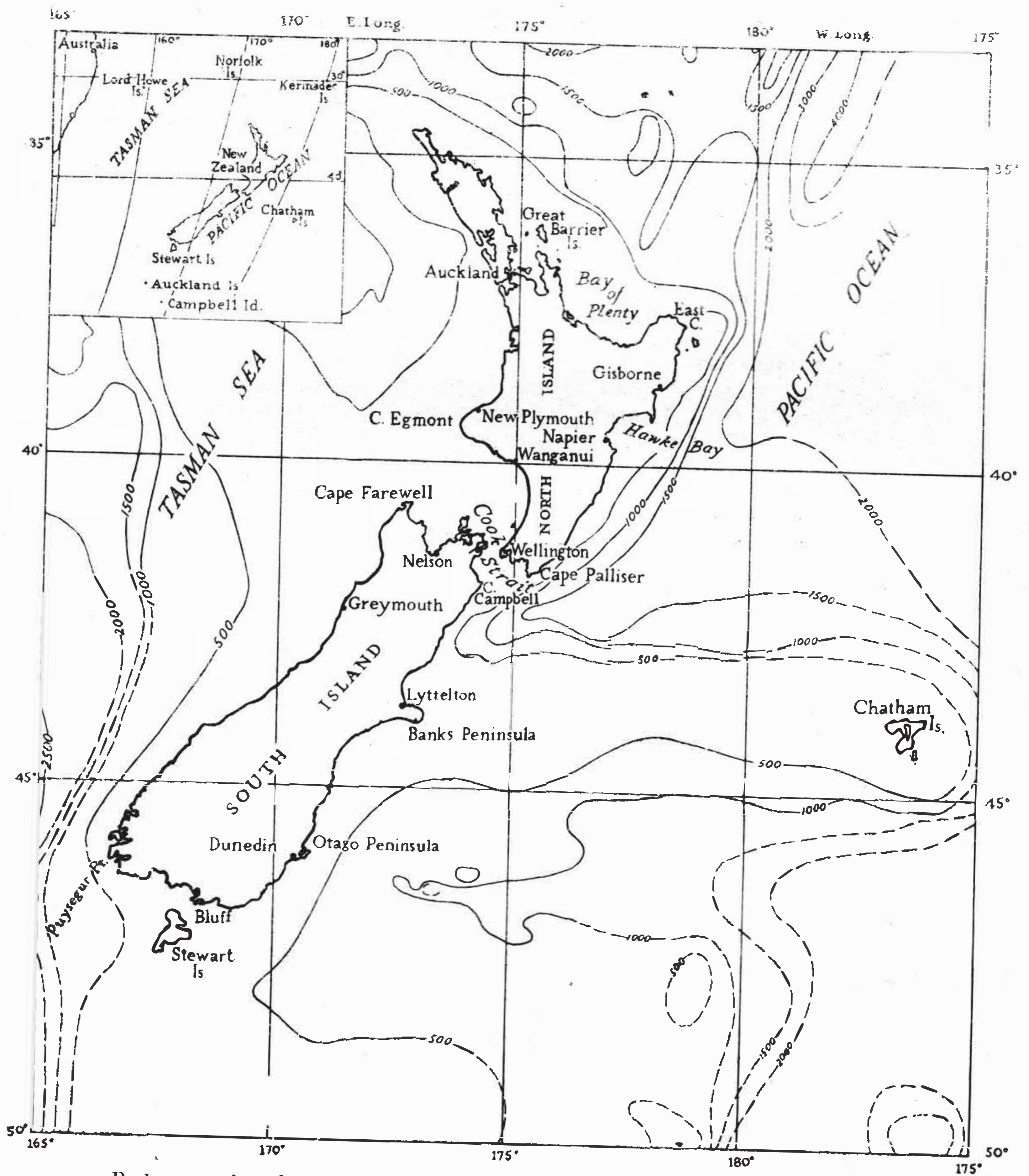
PRINTED BY AUTHORITY:  
R. E. OWEN, GOVERNMENT PRINTER, WELLINGTON, NEW ZEALAND.—1955

# **BIBLIOGRAPHY OF NEW ZEALAND OCEANOGRAPHY 1949-53**

COMPILED BY THE NEW ZEALAND OCEANOGRAPHIC COMMITTEE

*This bibliography has been compiled by the members of the N.Z. Oceanographic Committee of the Council for Scientific and Industrial Research, and covers the period January 1949 to December 1953.*

*It is intended to cover the work of New Zealand oceanographers on New Zealand subjects (including systematics of marine groups) published in New Zealand and elsewhere, and the work of overseas oceanographers on New Zealand topics published in New Zealand, but NOT the work of overseas oceanographers published in overseas journals and in expedition reports.*



Bathymetry based on preliminary contouring by J. W. Brodie and C. A. Fleming.

## SUBJECT INDEX

General, 5, 41, 106, 116, 144a.

### Physical—

Waves, 189.

Currents, 7, 8, 59, 85, 94, 95, 106.

Regional hydrology, 27, 85, 95, 101, 102, 103, 106, 187, 188.

### Geological—

Bottom topography, 25, 91, 95, 98, 106.

Coastal geomorphology, 41a, 41b, 41d, 41e, 41f, 41g, 105, 181.

Sedimentation, 25, 41c, 98, 161, 162.

Submarine geology, 25, 42, 43, 87, 91, 95, 97, 98, 181, 182.

### Biological—

General, 4, 64, 199.

Ecology, 2, 6, 7, 12, 21, 26, 27, 28, 30, 35, 36, 39, 40, 44, 55, 56, 57, 64, 69, 70, 73, 74, 85, 89, 93, 94, 101, 102, 113, 117, 135, 136, 137, 152, 158, 160, 163, 180.

Biogeography, 3, 24, 26, 35, 36, 37, 40, 53, 55, 60, 73, 75, 77, 81, 84, 88, 89, 92, 108, 130, 132, 153, 154, 164.

Biotic evolution, 34, 84, 88, 92, 138.

Parasitology, 101, 111, 119, 120, 127, 128.

Organic production, 21, 31, 45, 49.

Bacteriology, 125, 187, 188.

### Botanical—

Algae, 2, 3, 28, 30, 31, 32, 33, 34, 36, 38, 39, 44, 50, 51, 69, 71, 72, 73, 121, 122, 123, 124, 125, 130, 131, 132, 141, 142, 143, 178.

Higher plants, 10, 43.

### Zoological—

Protozoa, 6, 7, 8, 9, 44.

Porifera, 78.

Coelenterata, 145, 156, 157, 159.

Echinodermata, 46, 47, 48, 75, 76, 77, 79, 80, 81, 82, 83, 84.

Vermes, 11, 110, 111, 112, 114, 115, 165, 168, 171.

Brachiopoda, 1, 146, 163.

Bryozoa, 26, 185, 186.

Mollusca, 12, 29, 52, 53, 54, 55, 56, 57, 58, 60, 61, 62, 63, 65, 66, 67, 68, 86, 88, 89, 90, 93, 94, 96, 129, 134, 135, 136, 138, 139, 140, 152, 153, 154, 155, 160, 164, 179, 190.

Arthropoda, 13, 14, 15, 107, 108, 109, 118, 137, 150, 151, 166, 167, 172, 177.

Protochordata, 16, 17, 18, 19, 20, 22, 23, 24, 169.

Pisces, 45, 99, 100, 104, 105a, 119, 120, 126, 133, 144, 147, 148, 149, 170, 173, 174, 175, 176.

Aves, 85.

Mammalia, 4, 49, 87, 180, 183, 184.

## BIBLIOGRAPHY

1. ALLAN, R. S. 1949: Notes on a Comparison of the Tertiary and Recent Brachiopoda of New Zealand and South America. *Trans. roy. Soc. N.Z.* 77 (5): 288-9.  
Concludes faunas of S. America, Australia, and N.Z. have been virtually isolated throughout the Tertiary.
2. AMBLER, M. P.; CHAPMAN, V. J. 1950: A Quantitative Study of Some Factors Affecting Tide Pools. *Trans. roy. Soc. N.Z.* 78 (4): 394-409.  
  
AMBLER, M. P.; CHAPMAN, V. J. 1951. See CHAPMAN, V. J.; AMBLER, M. P. 1951.
3. ANONYMOUS. 1949a: Marine Algae: Taxonomy, Distribution, and Utilization. In "Second Report of Seventh Pacific Science Congress". *N.Z. Sci. Rev.* 7 (2-3): 25-6  
Account of papers presented and discussions.
4. ——— 1949b: Whaling in the Pacific, and Marine Biology in the Pacific Basin, with Special Reference to Fisheries. In "Second Report of Seventh Pacific Science Congress". *N.Z. Sci. Rev.* 7 (2-3): 37-9.  
Account of papers presented and discussion.
5. ——— 1949c: Oceanography. In "Final Report of Seventh Pacific Science Congress". *N.Z. Sci. Rev.* 7 (4): 54-7.  
Account of papers presented and discussion.
6. BARY, B. M. 1951: Sea-water Discoloration. *Tuatara* 4 (2): 41-6.
7. ——— 1953a: Records from New Zealand of Sea-water Discoloration and a Discussion of its Significance in the Study of Surface-water Movements. *Roy. Soc. N.Z. Rep. 7th Sci. Congr.* p. 72.
8. ——— 1953b: Sea-water Discoloration by Living Organisms. *N.Z. J. Sci. Tech.* B34 (5): 393-407.  
Appearance, duration, and extent of discoloration, frequency in New Zealand coastal waters, and significance in demonstrating surface-water movements.
9. BARY, M.; STUCKEY, R. G. 1950: An Occurrence in Wellington Harbour of *Cyclotrichium meunieri* Powers, a Ciliate causing Red Water, with Some Additions to its Morphology. *Trans. roy. Soc. N.Z.* 78 (1): 86-92.
10. BAYLIS, G. T. S. 1950: Root System of the New Zealand Mangrove. *Trans. roy. Soc. N.Z.* 78 (4): 509-14.
11. BENHAM, W. B. 1950: Polychaeta of the Auckland and Campbell Islands. *Cape Exped. Ser. Bull.* 10: 1-35.  
  
BEVERIDGE, W. A.; CHAPMAN, V. J. 1950. See CHAPMAN, V. J.; BEVERIDGE, W. A. 1950.
12. BORLAND, C. 1950: Ecological study of *Benhamina obliquata* (Sowerby), a Basommatophorous Pulmonate in Otago Harbour. *Trans. roy. Soc. N.Z.* 78 (4): 385-93.
13. BRADSTOCK, C. A. 1949a: Abnormal Reproductive Systems in Two Females of the Marine Spiny Crayfish, *Jasus lalandii* (Milne-Edwards). *N.Z. Sci. Rev.* 7 (5): 69.

14. ——— 1949b: A Marine Spiny Crayfish, *Jasus ialandii* (Milne-Edwards) with a Thoracic Appendage on the First Abdominal Segment. *N.Z. Sci. Rev.* 7 (5):69–70
15. ——— 1950: A study of the Marine Spiny Crayfish, *Jasus ialandii* (Milne-Edwards), including accounts of the Autotomy and Autospasy. *Zool. Publ., Victoria Univ. Coll.* 1–38.  
Data on 2,216 specimens from Wellington waters; sex ratio and size relations; tagging results; breeding cycle.
16. BREWIN, B. 1950a: The Ascidians of the Subantarctic Islands of New Zealand. *Cape Exped. Ser. Bull.* 11:1–11.  
Systematics.
17. ——— 1950b: Ascidians from Otago Coastal Waters. *Trans. roy. Soc. N.Z.* 78 (1):54–63.
18. ——— 1950c: Ascidians of New Zealand. Part IV. Ascidians in the Vicinity of Christchurch. *Trans. roy. Soc. N.Z.* 78 (2–3):344–53.
19. ——— 1950d: Ascidians of New Zealand. Part V. Ascidians from the East Coast of Great Barrier Island. *Trans. roy. Soc. N.Z.* 78 (2–3):354–67.
20. ——— 1951a: Ascidians of New Zealand. Part VI. Ascidians of the Hauraki Gulf. Part II. *Trans. roy. Soc. N.Z.* 79 (1):104–13.
21. ——— 1951b: Seasonal Changes in Micro-plankton in the Otago Harbour during the Years 1944 and 1945. *Trans. roy. Soc. N.Z.* 79 (3–4):614–27.
22. ——— 1952a: Ascidians of New Zealand. Part VII. Ascidians from Otago Coastal Waters. Part II. *Trans. roy. Soc. N.Z.* 79 (3–4):452–8.
23. ——— 1952b: Ascidians of New Zealand. Part VIII. Ascidians of the East Cape Region. *Trans. roy. Soc. N.Z.* 80 (2):187–95.
24. ——— 1953: Australian Ascidians of the Sub-family Holozoinae and a Review of the Sub-family. *Trans. roy. Soc. N.Z.* 81 (1):53–64.
25. BRODIE, J. W. 1952: Features of the Sea Floor West of New Zealand. *N.Z. J. Sci. Tech.* B33 (5):373–84.  
Morphology, structural trends, and sedimentation pattern in Tasman Sea.
26. BROWN, D. A. 1952: "The Tertiary Cheilostomatous Polyzoa of New Zealand." British Museum (Natural History) London. xii and 405 pp.  
Includes much information on recent species, distribution and ecology.
27. BRUCE, A. 1953: Report on a Biological and Chemical Investigation of the Waters in the Avon and Heathcote Rivers. 41 pp. Christchurch Drainage Board.
28. CARNAHAN, J. A. 1952: Studies in Inter-tidal Zonation, IV. Inter-tidal zonation at Rangitoto Island, New Zealand. *Pacif. Sci.* 6 (1):35–46.
29. CASSIE, R. M. 1951: A Molluscan Population with an Unusual Size-frequency Distribution. *Nature* 167 (4216):284.  
Results of a population study of the Toheroa, *Amphidesma ventricosum*.

30. CHAPMAN, V. J. 1950: The Marine Algal Communities of Stanmore Bay, New Zealand (Studies in Inter-tidal Zonation, I). *Pacif. Sci.* 4 (1):63-8.
31. ——— 1951a: "The Economic Uses of Seaweeds." Methuen, London.
32. ——— 1951b: Notes on N.Z. Algae. *Trans. roy. Soc. N.Z.* 79 (1):84-6.
33. ——— 1952: New Entities in the Chlorophyceae of N.Z. *Trans. roy. Soc. N.Z.* 80 (1):47-58.  
One new family, three new genera, and twelve new species.
34. ——— 1953a: Phylogenetic Problems in the Chlorophyceae. *Roy. Soc. N.Z. Rep. 7th Sci. Congr.* pp. 55-68.
35. ——— 1953b: Problems in Ecological Terminology. *Rep. 29th Meeting Aust. Ass. Adv. Sci. (Sydney, August, 1952)* pp. 259-79.  
Difference between terminology of Anglo-American and Continental Schools can be resolved by consideration of the salt marsh vegetation of the world, which is discussed in detail.
36. ——— 1953c: The Distribution of Algae in New Zealand in Relation to the Tidal Factor. *Proc. 7th Pacif. Sci. Congr.* 5:40.
37. ——— 1953d: Distribution of Marine Algae in Relation to Continental Drift. *Proc. 7th Pacif. Sci. Congr.* 5:40-3.
- CHAPMAN, V. J.; AMBLER, M. P. 1950. See AMBLER, M. P.; CHAPMAN, V. J. 1950.
38. ——— 1951: A Note upon a New Zealand Species of *Pylaiella*. *Trans. roy. Soc. N.Z.* 79 (1):114-8.
39. CHAPMAN, V. J.; BEVERIDGE, W. A. 1950: Studies in Inter-tidal Zonation II. The Zonation of Marine Algae at Piha in Relation to the Tidal Factor. *Pacif. Sci.* 4:188-201.
40. CHAPMAN, V. J.; TREVARTHEN, C. B. 1953: General Schemes of Classification in Relation to Marine Coastal Zonation. *Ecology* 41 (1):198-204.
41. COOPER, E. R. 1952: A Survey of the Current Activities of New Zealand Physicists. *Roy. Soc. N.Z. Rep. 7th Sci. Congr.* pp. 72-80.  
Includes summary of current N.Z. work on wave analysis, microseisms, electrical-potential studies of tidal currents, and hydrology of New Zealand seas.
- 41a. COTTON, C. A. 1949: Plunging Cliffs, Lyttelton Harbour. *N.Z. Geogr.* 5 (2):130-6.
- 41b. ——— 1951a: Seacliffs of Banks Peninsula and Wellington. Some Criteria for Coastal Classification. Part I. *N.Z. Geogr.* 7 (2):103-20.
- 41c. ——— 1951b: Redeposition Theory of Sedimentation. *N.Z. J. Sci. Tech.* B32 (5):19-25.
- 41d. ——— 1951c: Atlantic Gulfs, Estuaries, and Cliffs. *Geol. Mag.* 88:113-28.
- 41e. ——— 1951d: Accidents and Interruptions in the Cycle of Marine Erosion. *Geog. J.* 117 (3):343-9.
- 41f. ——— 1952a: The Wellington Coast: An Essay in Coastal Classification. *N.Z. Geogr.* 8 (1):46-62.

- 41g. ——— 1952b: Cyclic Resection of Headlands by Marine Erosion. *Geol. Mag.* 89 (3):221-5.
42. ——— 1953: Submarine Canyon Hypotheses. *N.Z. Sci. Rev.* 11 (9):110-3.
43. COUPER, R. A. 1951: Microflora of a Submarine Lignite from Toetoes Bay, near Bluff, New Zealand. *N.Z. J. Sci. Tech.* B33 (3):179-86.  
Spores and pollen grains from a bottom sample indicate cool climate and Wanganuiian age.
44. CRAWFORD, D. A. 1949: A Phytoplankton Season in Cook Strait. *Trans. roy. Soc. N.Z.* 77 (5):173-7.  
Seasonal changes in abundance of diatoms and dinoflagellates.
45. CUNNINGHAM, M. M. 1949: Fish Liver Oils. *N.Z. Sci. Rev.* 7 (6):86-94.  
Includes account of N.Z. use of fish oils.
46. DAWBIN, W. H. 1949a: Auto-evisceration and the Regeneration of Viscera in the Holothurian *Stichopus mollis* (Hutton). *Trans. roy. Soc. N.Z.* 77 (4):497-523.
47. ——— 1949b: Regeneration of the Alimentary Canal of *Stichopus mollis* (Hutton) across a Mesenteric Adhesion. *Trans. roy. Soc. N.Z.* 77 (4):524-9.
48. ——— 1950: A Guide to the Holothurians of New Zealand. *Tuatara* 3 (1):33-41.  
Includes illustrated key to N.Z. species.
49. ——— 1952: Whales and Whaling in the Southern Ocean. In "The Antarctic Today", pp. 151-94. N.Z. Antarctic Society, Wellington.
50. DE BERG, R. F. 1949: The New Zealand Species of *Bostrychia* related to *B. scorpioides*, Mont. *Farlowia* 3 (4):499-502.
51. ——— 1953: The New Zealand Species of *Bostrychia* related to *Bostrychia scorpioides* Mont. *Proc. 7th Pacif. Sci. Congr.* 5:20.
52. DELL, R. K. 1949: A Key to the Common Chitons of New Zealand. *Tuatara* 4:4-12.
53. ——— 1950a: Notes on the Taxonomy and Distribution of some N.Z. Mollusca with Description of Four New Species. *Dom. Mus. Rec. Zool.* 1 (3):21-8.  
Four new species, taxonomic changes, distributional data.
54. ——— 1950b: The Molluscan Genus *Venustus* in New Zealand Waters. *Dom. Mus. Rec. Zool.* 1 (5):39-54.  
Taxonomic revision.
55. ——— 1951a: A Deep Water Molluscan Fauna from off Banks Peninsula. *Rec. Canterbury (N.Z.) Mus.* 6 (1):53-60.  
Systematic: three new species and one new sub-species, species list from 80 fathoms off Banks Peninsula and discussion of ecology and biogeography.
56. ——— 1951b: A Molluscan Fauna from the Mernoo Bank, New Zealand. *N.Z. J. Sci. Tech.* B33 (1):15-8.  
Mollusca from 43-57 fathoms on Mernoo Bank listed and discussed.
57. ——— 1951c: Some Animal Communities of the Sea Bottom from Queen Charlotte Sound. *N.Z. J. Sci. Tech.* B33 (1):19-29.  
A Brachiopod-*Chlamys* community and two facies of the *Echinocardium* community.

58. ——— 1951d: A New Species of Squid, *Histioteuthis cookiana*, from New Zealand waters. *Zool. Publ., Victoria Univ. Coll.* 14:1-5.
59. ——— 1952a: Ocean Currents Affecting New Zealand. *N.Z. J. Sci. Tech.* B34 (2): 86-91.  
Compilation of available drift-bottle records for N.Z. seas.
60. ——— 1952b: The Recent Cephalopoda of New Zealand. *Dom. Mus. Bull.* 16:1-157.  
Systematic illustrated monograph with anatomical studies of certain species and discussion of biogeography.
61. ——— 1952c: A Deep Water Molluscan Fauna from the Tasman Sea. *Dom. Mus. Rec. Zool.* 1 (10):99-107.  
Seventeen species, six new, and one new genus, from 536 metres on Lord Howe Rise, collected by R.R.S. *Discovery II*.
62. ——— 1952d: New Marine Mollusca from the Cook Strait Area and Southern N.Z. *Trans. roy. Soc. N.Z.* 79 (3-4):412-8.
63. ——— 1952e: The New Zealand Cephalopoda. *Tuatara* 4 (3):91-102.  
Includes illustrated key to N.Z. species.
64. ——— 1952f: Marine Biology. In "The Antarctic Today", pp. 130-50. N.Z. Antarctic Society, Wellington.
65. ——— 1952g: Some information on the Growth Rates of Three Marine Molluscs. *N.Z. Sci. Rev.* 10 (8):130.
66. ——— 1953a: The Molluscan Genus *Monodilepas* in New Zealand. *Trans. roy. Soc. N.Z.* 81 (1):145-51.
67. ——— 1953b: A Molluscan Fauna from the Chatham Rise, New Zealand. *Rec. Dom. Mus.* 2 (1):37-50.
68. ——— 1953c: A Recent Species of *Galeodia* (Mollusca, Gastropoda) in New Zealand. *Rec. Dom. Mus.* 2 (1):51-3.
- DELL, R. K. ; MORELAND, J. M. 1950. See MORELAND, J. M. ; DELL, R. K. 1950.
69. DELLOW, U. V. 1950a: Inter-tidal Ecology at Narrow Neck Reef, New Zealand. *Pacif. Sci.* 4 (4):355-74.
70. ——— 1950b: Studies in Inter-tidal Zonation, III. Inter-tidal ecology at Narrow Neck Reef. *Farlowia* 4:355-74.
71. ——— 1950c: A new species of *Microdictyon* in New Zealand. *Rec. Auckland (N.Z.) Inst.* 4:3-7.
72. ——— 1952: The Genus *Codium* in N.Z. Part I. Systematics. *Trans. roy. Soc. N.Z.* 80 (2):119-41.
73. ——— 1953a: The Genus *Codium* in N.Z. Part II. Ecology, Geographic Distribution. *Trans. roy. Soc. N.Z.* 80 (3):237-43.  
*Codium* has six N.Z. species; four new forms are defined. Ecology and geographic distribution are discussed in detail.
74. ——— 1953b: Inter-tidal Zonation at Narrow Neck, Auckland, in Relation to the Tidal Factor. *Proc. 7th Pacif. Sci. Congr.* 5:49-53.

EDMONDS, S. J.; JOHNSTON, T. HARVEY. 1953. See JOHNSTON, T. HARVEY.; EDMONDS, S. J. 1953.

75. FELL, H. B. 1949a: The Occurrence of Australian Echinoids in New Zealand Waters. *Rec. Auckland (N.Z.) Inst.* 3 (6):343-6.  
One new record and two confirmations of Australian species in N.Z.
76. ——— 1949b: New Zealand Littoral Ophiuroids. *Tuatara* 2 (3):121-9.  
Illustrated key to 41 species.
77. ——— 1949c: The Constitution and Relations of the New Zealand Echinoderm Fauna. *Trans. roy. Soc. N.Z.* 77 (5):208-12.  
Relationship of fauna and faunal provinces.
78. ——— 1950a: The Kirk Collection of Sponges (Porifera) in the Zoology Museum, Victoria University College. *Zool. Publ., Victoria Univ. Coll.* 4:1-12.  
Catalogue, designation of type material.
79. ——— 1950b: New Zealand Crinoids. *Tuatara* 3 (2):78-85.  
Includes illustrated key to N.Z. forms.
80. ——— 1951: Some Off-shore and Deep-sea Ophiuroids from New Zealand Waters. *Zool. Publ., Victoria Univ. Coll.* 13:1-4.  
*Amphiura abernethyi* n. sp., from Cook Strait, 50 fathoms, and locality records for three deep-sea species.
81. ——— 1952a: Echinoderms from Southern New Zealand. *Zool. Publ., Victoria Univ. Coll.* 18:1-37.  
Fifty species discussed, two genera added to N.Z. fauna, seven new sea-stars described, distribution and ecological data presented and discussed, based on collections from *New Golden Hind*, *Alert*, *Discovery II*, and H.M.N.Z.S. *Lachlan*.
82. ——— 1952b: Rediscovery of the Ophiuroid Genus *Ctenamphiura* Verrill. *Nature* 170:327.
83. ——— 1953a: Echinoderms from the Subantarctic Islands of New Zealand: Asteroidea, Ophiuroidea, and Echinoidea. *Rec. Dom. Mus.* 2 (2):73-111.
84. ——— 1953b: The Origin and Migrations of Australasian Echinoderm Faunas since the Mesozoic. *Trans. roy. Soc. N.Z.* 81 (2):245-55.
85. FLEMING, C. A. 1950a: Some South Pacific Sea-birds Logs. *Emu* 49 (3):169-88.  
Correlation between sea-birds and surface-water zones, including some original temperature data leading to recognition of the East Cape Current of subtropical water flowing S. down E. coast of N.Z.
86. ——— 1950b: New Zealand Recent Thyasiridae (Mollusca). *Trans. roy. Soc. N.Z.* 78 (2-3):251-4.
87. ——— 1951a: Sea Lions as Geological Agents. *J. sediment. Petrol.* 21 (1):22-5.  
Transport of stomach pebbles for 130 miles and accumulation as a surface deposit.
88. ——— 1951b: The Genus *Pecten* in the West Pacific. *J. Conchylol.* 90:276-82.  
Zoo-geographic history of the genus, from evidence of recent and fossil distribution.
89. ——— 1951c: The Molluscan Fauna of the Fiords of Western Southland. *N.Z. J. Sci. Tech.* B31 (5):20-40.  
Check-list of shelled mollusca; discussion of ecology, bottom communities, and affinities.

90. ——— 1951d: Some Australasian Mollusca in the British Museum. (Nat. Hist.) *Trans. roy. Soc. N.Z.* 79 (1):126-30.
91. ——— 1952a: The White Island Trench: A Submarine Graben in the Bay of Plenty, New Zealand. *Proc. 7th Pacif. Sci. Congr.* 3:210-3.  
Brief account of a structure interpreted as back-deep on the inner side of the East Cape Kermadec Ridge and Trench.
92. ——— 1952b: The Post-Miocene Evolution of Marine Faunas in the South-west Pacific and its Bearing on the Problem of Marine Faunal Provinces. *Proc. 7th Pacif. Sci. Congr.* 3:309-18.  
Bearing of paleontological data on history of faunal provinces.
93. ——— 1952c: A Foveaux Strait Oyster-bed. *N.Z. J. Sci. Tech.* B34 (2):73-85.  
Faunal list, discussion of bottom community.
94. ——— 1952d: Ecological Aspects of a Paleontological Study. *N.Z. Sci. Rev.* 10 (5):60-1.  
Discusses course and speed of East Australian current as a vector for planktonic larvae.
95. ——— 1952e: The Seas Between. In "The Antarctic Today", pp. 102-26. (Ed. F. A. Simpson). N.Z. Antarctic Society, Wellington.  
A review of Southern Ocean oceanography.
96. ——— 1952f: Notes on the Genus *Haliotis* (Mollusca). A New Subgenus from New Zealand and a New Species from the Late Cenozoic of Ohope, Bay of Plenty. *Trans. roy. Soc. N.Z.* 80 (2):229-32.  
*Paua*, new subgenus for *H. iris*, and *H. (Sulculus) powelli* n. sp. Other subgenera listed and discussed.
97. ——— 1953: The Geology of the Snares Islands. Part I. General Geology. *Cape Exped. Ser. Bull.* 13:9-27.  
Includes brief discussion of submarine geology of New Zealand Subantarctic seas.
98. FLEMING, C. A.; REED, J. J. 1951: Mernoo Bank, East of Canterbury, New Zealand. *N.Z. J. Sci. Tech.* B32 (6):17-30.  
Submarine morphology, sediments; some sea-floor features named.
99. FOWLER, H. W. 1953a: On a Collection of Fishes made by Dr Marshall Laird at Norfolk Island. *Trans. roy. Soc. N.Z.* 81 (2):221-37.
100. ——— 1953b: Two New Gobioid Fishes from Oceania. *Trans. roy. Soc. N.Z.* 81 (3):385-8.
101. FULLER, A. S. 1950: Temperature Requirements of *Penilia ovirostris* Dana in the Hauraki Gulf, New Zealand. *Nature* 165 (4201):734.
102. ——— 1953: Seasonal Variation in the Plankton and Salinity of the Hauraki Gulf, New Zealand. *Nature* 171 (4351):525-6.  
*Corycaeus aucklandicus* characterizes the fairly constant coastal plankton. In the oceanic plankton, salps dominate in summer when salinities are relatively low, sagittas in winter, when salinities exceed 35.50.
103. GARNER, D. M. 1953: Physical Characteristics of Inshore Surface Waters between Cook Strait and Banks Peninsula, New Zealand. *N.Z. J. Sci. Tech.* B35 (3):239-46.



104. GARRICK, J. A. F. 1951: The Blind Electric Rays of the Genus *Typhlonarke* (Torpedinidae). *Zool. Publ., Victoria Univ. Coll.* 15:1-6.  
Description of two species of an endemic New Zealand genus.
- GARRICK, J. A. F.; RICHARDSON, L. R. 1953. See RICHARDSON, L. R.; GARRICK, J. A. F. 1953.
105. GILL, E. D. 1950: Some Unusual Shore Platforms near Gisborne, North Island, N.Z. *Trans. roy. Soc. N.Z.* 78 (1):64-8.
- 105a. GRAHAM, David H. 1953: "A Treasury of New Zealand Fishes". A. H. and A. W. Reed, Wellington.
106. HEFFORD, A. E. 1950: Oceanography of New Zealand Seas. *Trans. roy. Soc. N.Z.* 77 (5):212-21.  
General review presented in 1947.
107. HORNIBROOK, N. de B. 1949: A New Family of Living Ostracoda with Resemblances to some Palaeozoic Beyrichiidae. *Trans. roy. Soc. N.Z.* 77 (4):469-71.
108. ——— 1952: The Tertiary and Recent Marine Ostracoda of New Zealand. Their Origin, Affinities and Distribution. *N.Z. geol. Surv. pal. Bull.* 18. 82 pp.  
Systematic illustrated monograph of Cytheridae with discussion of distribution of Recent NZ Ostracoda.
- HORNIBROOK, N. de B.; REED, J. J. 1952. See REED, J. J.; HORNIBROOK, N. de B. 1952
109. HURLEY, D. E. 1952: Studies on the New Zealand Amphipodan Fauna No. 1. The Family Cyamidae; The Whale-louse *Paracyamus boopis*. *Trans. roy. Soc. N.Z.* 80 (1):63-8.
- HURLEY, D. E.; RALPH, P. M. 1952. See RALPH, P. M.; HURLEY, D. E. 1952.
110. JOHNSTON, T. HARVEY; EDMONDS, S. J. 1953: Acanthocephala from Auckland and Campbell Islands. *Rec. Dom. Mus.* 2 (2):54-61.
111. JOHNSTON, T. HARVEY; MAWSON, Patricia M. 1953: Parasitic Nematodes and Trematodes from Campbell and Auckland Islands (Cape Expedition). *Rec. Dom. Mus.* 2 (2):62-71.
- JOWETT, J. P.; RICHARDSON, L. R. 1951. See RICHARDSON, L. R.; JOWETT, J. P. 1951.
- KABERRY, C.; RALPH, P. M. 1950. See RALPH, P. M.; KABERRY, C. 1950.
112. KNOX, G. A. 1951a: The Polychaetous Annelids of Banks Peninsula. Part I. Nereidae. *Rec. Canterbury (N.Z.) Mus.* 5 (5):213-29.  
Ten species recorded, described, and keyed, including one n. sp. Twenty N.Z. Nereidae listed.
113. ——— 1951b: A Rock Bottom Fauna from 80 Fathoms off Banks Peninsula. *Rec. Canterbury (N.Z.) Mus.* 6 (1):41-51.  
Animal community of a bored and encrusted sandstone block.

114. ——— 1951c: The Polychaetous Annelids of Banks Peninsula. Part II. A Rock Bottom Fauna from 80 Fathoms. *Rec. Canterbury (N.Z.) Mus.* 6 (1):61-81.  
Twenty-six species from bored sandstone slab; three new species.
115. ——— 1951d: A Guide to the Families and Genera of New Zealand Polychaetes. *Tuatara* 4 (2):63-85.  
Illustrated key to N.Z. species.
116. ——— 1952: Oceanographic Research in New Zealand. *Roy. Soc. N.Z. Rep. 7th Sci. Congr.* pp. 72-80.  
Review of progress 1949-51.
117. ——— 1953: The Inter-tidal Ecology of Taylor's Mistake, Banks Peninsula. *Trans. roy. Soc. N.Z.* 81 (2):189-220.
118. KREFFT, SHIRLEY M. 1952: The Early Post-larval Stages and Systematic Position of *Eurynolambrus australis* M.E. and L. (Brachyura). *Trans. roy. Soc. N.Z.* 79 (3-4):574-8.
- KREFFT, SHIRLEY M.; RICHARDSON, L. R. 1949. See RICHARDSON, L. R.; KREFFT, SHIRLEY M. 1949.
119. LAIRD, M. 1952: New Haemogregarines from N.Z. Marine Fishes. *Trans. roy. Soc. N.Z.* 79 (3-4):589-600.
120. ——— 1953: The Protozoa of New Zealand Inter-tidal Zone Fishes. *Trans. roy. Soc. N.Z.* 81 (1):79-143.  
Fourteen species recorded from ten host species, two new genera and ten new species described and their affinities discussed.
121. LEVRING, T. 1949: Six New Marine Algae from New Zealand. *Trans. roy. Soc. N.Z.* 77 (3):394-7
122. LINDAUER, V. W. 1949a: Additions to the Marine Algae of New Zealand. *Trans. roy. Soc. N.Z.* 77 (3):390-3.
123. ——— 1949b: Notes on Marine Algae of New Zealand I. *Pacif. Sci.* 3 (4):340-52.
124. ——— 1953: Some New Zealand Algal Confusions. *Proc. 7th Pacif. Sci. Congr.* 5:18-20.
125. LITTLE, E. C. S. 1953: The Decomposition Rates and Manurial Value of Some Common Brown Seaweeds. *Proc. 7th Pacif. Sci. Congr.* 5:83-91.
126. McCANN, C. 1953: Ichthyological Notes, with Special Reference to Sexual Dimorphism in Some New Zealand Fishes. *Rec. Dom. Mus.* 2 (1):1-17.
127. MANTER, H. W. 1951: Studies on *Gyrocotyle rugosa* Diesing, 1850, A Cestodarian Parasite of the Elephant Fish, *Callorhynchus milii*. *Zool. Publ., Victoria Univ. Coll.* 17:1-11.  
Description of adult, larval, and post-larval stages, and observations on the life cycle.
128. ——— 1953: *Gyrocotyle*, a Peculiar Parasite of the Elephant Fish in New Zealand. *Tuatara* 5 (2):49-51.

129. MARWICK, J. 1953: A Pliocene Fossil Found Living by the *Galathea* Expedition. *N.Z. J. Sci. Tech.* B35 (1):109-12.  
*Lucinoma galathea* n. sp. is described living in Milford Sound and as a Pliocene fossil.
- MAWSON, PATRICIA M.; JOHNSTON, T. HARVEY. 1953. See JOHNSTON, T. HARVEY; MAWSON, PATRICIA M. 1953.
130. MGORE, L. B. 1949: The Marine Algae Provinces of New Zealand. *Trans. roy. Soc. N.Z.* 77 (5):187-9.  
 Comparison of Algae distribution with provinces proposed for other groups.
131. ——— 1950: A "Loose-lying" Form of the Brown Alga *Hormosira*. *Trans. roy. Soc. N.Z.* 78 (1):48-53.
132. ——— 1953: Some Distribution Problems Illustrated from Brown Algae of the Genus *Halopteris*. *Proc. 7th Pacif. Sci. Con. gr.5*:13-8.
133. MORELAND, J. M.; DELL, R. K. 1950: Preliminary Report on Ovoviviparity in a New Zealand Blennioid Fish - *Ericentrus rubrus* (Hutton). *N.Z. Sci. Rev.* 8 (3-4):39-40.
134. MORETON, J. E. 1949a: The Crystalline Style in Gastropoda. *N.Z. Sci. Rev.* 7 (9):171-2.  
 In some N.Z. gastropods the style functions to draw into the stomach a mucous food string elaborated in the oesophagus.
135. ——— 1949b: The Adaptations of *Xonophora*, the Carrier Shell. *N.Z. Sci. Rev.* 7 (10):188-9.  
 Locomotion, feeding, anatomy.
136. ——— 1949c: *Scintillona zelandicus*, a Bivalve Commensal of the Holothurian *Trochodota dendyi*. *N.Z. Sci. Rev.* 7 (10):189-90.  
 Ecology, anatomy.
137. ——— 1950a: The Appendages and Feeding of *Calianassa filholi*. *N.Z. Sci. Rev.* 8 (3-4):38-9.
138. ——— 1950b: The Struthiolariidae: Reproduction, Life History and Relationships. *Trans. roy. Soc. N.Z.* 78 (4):451-3.
139. ——— 1951: Structure and Adaptations of N.Z. Vermetidae. Part I. The Genus *Serpulorbis*. Part 2. The Genera *Stephapoma* and *Pyxipoma*. Part 3. *Novastoa lamellosa* and its Affinities. *Trans. roy. Soc. N.Z.* 79 (1):1-51.
140. ——— 1952: The Role of the Crystalline Style. *Proc. malac. Soc. Lond.* 29 (2-3):85-92.  
 Concludes that this organ is a basically primitive feature of Mollusca, essentially mechanical in function, serving to draw through the stomach a continuous mucous string, but specialized to produce amylolytic enzyme in higher mollusca.
141. NAYLOR, M. 1949: Observations on the Anatomy of *Durvillea antarctica* (Chamisso) Hariot. *Ann. Bot. n.s.* 13:285-308.
142. ——— 1952: The N.Z. Species of *Durvillea*. *Trans. roy. Soc. N.Z.* 80 (3):277-97.

- NEWMAN, L. E.; WALLACE, G. M. 1953. See WALLACE, G. M.; NEWMAN, L. E. 1953.
143. PAPPENFUSSE, G. F. 1953: Outstanding Problems in the Morphology and Taxonomy of the Marine Algae of the Tropical and Southern Pacific. *Proc. 7th Pacif. Sci. Congr.* 5:27-39.
144. PARROT, A. W. 1953: The Perlon Shark (*Heptanchius parlo*). First Record from New Zealand Waters. *N.Z. Sci. Rev.* 11 (9):113.
145. PARRY, G. 1951-52: The Actinaria of New Zealand. A Check-list of Recorded and New Species, a Review of the Literature, and a Key to the Commoner Forms. *Rec. Canterbury (N.Z.) Mus.* 6 (1):83-119 and 6:121-41.
- 145a. PATTON, D. 1952: New Zealand Fisheries: A General Survey. *N.Z. Geogr.* 3 (2):91-103.
146. PERCIVAL, E. 1953: Orientation of Telotrematous Brachiopoda. *Nature* 171:346.
147. PHILLIPS, W. J. 1949a: Notes on Some New Zealand Fishes. *Trans. roy. Soc. N.Z.* 77 (2):289-90.
148. ——— 1949b: "Native Fishes". A. H. and A. W. Reed, Wellington, 60 pp.  
Illustrated guide to common N.Z. fishes.
149. ——— 1949c: A Note on the Fish *Tetragomurus cuvieri*. *N.Z. Sci. Rev.* 7 (11-2):219.
150. POWELL, A. W. B. 1949a: New Species of Crustacea from New Zealand of the Genera *Scyllarus* and *Ctenocheles*, with Notes on *Lyreidus tridentatus*. *Rec. Auckland (N.Z.) Inst.* 3 (6):368-71.
151. ——— 1949b: A Second Record of the King Crab from New Zealand. *Rec. Auckland (N.Z.) Inst.* 3 (6):372.  
*Limulus polyphemus* taken alive at Great Barrier Island.
152. ——— 1950: Mollusca from the Continental Shelf, Eastern Otago. *Rec. Auckland (N.Z.) Inst.* 4 (1):73-81.  
Description of a hard-bottom community and of four new species of Mollusca.
153. ——— 1951: Antarctic and Subantarctic Mollusca: Pelecypoda and Gastropoda. *Discovery Rep.* 26:47-196.  
Check-lists for areas in the American Antarctic Quadrant, discussion of bipolarity, biogeographical provinces, and the dispersal of southern high-latitude mollusca; systematics.
154. ——— 1952a: Certain Bipolar Elements in Marine Molluscs. *Proc. 7th Pacif. Sci. Congr.* 3:329-30.
155. ——— 1952b: New Zealand Molluscan Systematics, with Descriptions of New Species, Part I. *Rec. Auckland (N.Z.) Inst.* 4 (3):169-85.
156. RALPH, P. M. 1950: Ctenophores from the Waters of Cook Strait and Wellington Harbour. *Trans. roy. Soc. N.Z.* 78 (1):70-82.

157. ——— 1953: A Guide to the Athecate (Gymnoblasic) Hydroids and Medusae of New Zealand. *Tuatara* 5 (2):59-75.  
Illustrated key.
158. RALPH, P. M.; HURLEY, D. E. 1952: The Settling and Growth of Wharf-pile Fauna in Port Nicholson, Wellington, New Zealand. *Zool. Publ., Victoria Univ. Coll.*, 19:1-22.
159. RALPH, P. M.; KABERRY, C. 1950: New Zealand Coelenterates. Ctenophores from Cook Strait. *Zool. Publ., Victoria Univ. Coll.* 3:1-11.  
Systematics, including description of three new species.
160. RAPSON, A. M. 1952: The Toheroa, *Amphidesma ventricosum* (Eulamellibranchiata), Development and Growth. *Aust. J. Mar. Freshw. Res.* 3 (2):170-98.  
History, distribution, habitat, reproduction and growth rates.
161. REED, J. J. 1951: Marine Sediments near Sumner, Canterbury, New Zealand. *N.Z. J. Sci. Tech.* B33 (2):129-37.  
Mechanical and petrographic analysis of 36 bottom samples; the minerals are derived almost entirely from feldspathic sandstones and siltstones.
- REED, J. J.; FLEMING, C. A. 1951. See FLEMING, C. A.; REED, J. J. 1951.
162. REED, J. J.; HORNIBROOK, N. de B. 1952: Sediments from the Chatham Rise. Part I. Petrology. Part II. Recent and Fossil Microfaunas. *N.Z. J. Sci. Tech.* B34 (3):173-188.  
Schist fragments and phosphorite nodules, the latter formed from foraminiferal Miocene sediments.
163. RICHARDS, J. R. 1952: Ciliary Feeding Mechanism of *Neothyris denticularis* Deshayes. *J. Morph.* 90:65-92.  
Anatomy and feeding habits.
164. RICHARDSON, E. S. 1953: Distribution in New Zealand of the Australian Gastropod, *Agnewia tritoniformis* (Blainville). *N.Z. J. Sci. Tech.* B35 (1):39-42.
165. RICHARDSON, L. R. 1949a: Studies on New Zealand Hirudinea. Part II: *Branchellion parkeri*, a new Ichthyobellid leech. *Zool. Publ., Victoria Univ. Coll.* 1:1-11.  
From species of *Raia* and *Mustelus*.
166. ——— 1949b: A Guide to the Brachyrhynchous Crabs. *Tuatara* 2 (1):29-36.  
Illustrated keys to N.Z. forms.
167. ——— 1949c: A Guide to the Oxyrhyncha, Oxystoma, and Lesser Crabs. *Tuatara* 2 (2):58-69.  
Illustrated key to N.Z. forms.
168. ——— 1950a: Studies on N.Z. Hirudinea. Part I. *Pontobdella benhami* n. sp. *Trans. roy. Soc. N.Z.* 78 (1):97-100.
169. ——— 1950b: The Generic Status of the New Zealand Lancelet. *Tuatara* 3 (2):86.

170. ——— 1953a: *Neomyxine* n.g. (Cyclostomata) based on *Myxine biniplicata* Richardson and Jowett 1951, and Further Data on the Species. *Trans. roy. Soc. N.Z.* 81 (3): 379-83.
171. ——— 1953b: Studies on New Zealand Hirudinea. Part III. *Bdellamaris epiatreti* n.g., n. sp., and Notes on other Piscicolidae. *Trans. roy. Soc. N.Z.* 81 (2):283-94.
172. ——— 1953c: Variation in *Squilla armata* M.Edw. (Stomatopoda) suggesting a Distinct Form in New Zealand Waters. *Trans. roy. Soc. N.Z.* 81 (2):315-7.
173. RICHARDSON, L. R.; GARRICK, J. A. F. 1953a: *Dasyatis thetidis* Waite, a Second Species of Giant Stingray in New Zealand Waters. *Trans. roy. Soc. N.Z.* 81 (2):319-20.
174. ——— 1953b: A Guide to the Lesser Chordates and the Cartilaginous Fishes. *Tuatara* 5 (1):22-37.  
Illustrated key to N.Z. species.
175. ——— 1953c: A Specimen of *Nemichthys* (Pisces, Apodes) from New Zealand Waters. *Trans. roy. Soc. N.Z.* 81 (3):467-8.
176. RICHARDSON, L. R.; JOWETT, J. P. 1951: A New Species of *Myxine* (Cyclostomata) from Cook Strait. *Zool. Publ., Victoria Univ. Coll.* 12:1-5.  
*Myxine biniplicata* n. sp.
177. RICHARDSON, L. R.; KREFFT, SHERLEY M. 1949: *Lereidus australiensis* Ward (Brachiura, Gymnopleura) from Cook Strait. *Tuatara* 2 (2):69-71.  
First Gymnopleuran recorded from N.Z. from stomach of dogfish.
178. SCHWARZ, E. F. 1953: The Utilization of Seaweed in New Zealand. *Proc. 7th Pacif. Sci. Congr.* 5:70-8.
179. SMITH, E. K. A. 1952: Stewart Island Mollusca, Additions to the 1939 List of Powell. *Auckland Mus. Conch. Club Bull.* 8:5-8.
180. SORENSEN, J. H. 1950: Elephant Seals of Campbell Island *Cape Exped. Ser. Bull.* 6: 1-31.  
Annual cycle, census, food, and general habits.
181. SPEIGHT, R. 1950: An Eroded Coastline. *Trans. roy. Soc. N.Z.* 78:3-13.  
Includes remarks on submarine geology of Canterbury.
- STUCKEY, R. G.; BARY, B. M. 1950. See BARY, B. M.; STUCKEY, R. G. 1950.
182. TE PUNGA, M. T. 1953: A Late Pleistocene Land Bridge Across Cook Strait, New Zealand. *N.Z. J. Sci. Tech.* B35 (2):161-92.
- TREVARTHEN, C. B.; CHAPMAN, V. J. 1953. See CHAPMAN, V. J.; TREVARTHEN, C. B. 1953.
183. TURBOTT, E. G. 1949: Observations on the Occurrence of the Weddell Seal in New Zealand. *Rec. Auckland (N.Z.) Inst.* 3 (6):377-9.  
Four N.Z. records in winter and early spring; first-year animals tend to appear as strays.

184. ——— 1952: Seals of the Southern Ocean. "The Antarctic Today", pp. 195–215. N.Z. Antarctic Society, Wellington.
185. UTTLEY, G. H. 1950: The Recent and Tertiary Polyzoa (Bryozoa) in the Collection of the Canterbury Museum, Christchurch. Part I. *Rec. Canterbury (N.Z.) Mus.* 5 (4):167–92.  
Systematics, including one new genus, two new subgenera and five new trivial names.
186. ——— 1951: The Recent and Tertiary Polyzoa (Bryozoa) in the Collection of the Canterbury Museum, Christchurch, Part II. *Rec. Canterbury (N.Z.) Mus.* 6 (1): 15–39.  
Systematics, including ten new species.
187. WALLACE, G. M.; NEWMAN, L. E. 1953a: Bacteriological Survey of Auckland Harbours. I. Extent of Sewage Fields in Waitemata Harbour. *N.Z. J. Sci. Tech.* B34 (6): 515–22.  
Two areas are contaminated by sewage; its effects on water near oyster beds are noted.
188. ——— 1953b: Bacteriological Survey of Auckland Harbour. II. Condition of Beaches to the East of Orakei Sewer Outfall, Waitemata Harbour. *N.Z. J. Sci. Tech.* B35 (3):225–38.
189. WATTERS, JESSIE K. A. 1953: Distribution of Height in Ocean Waves. *N.Z. J. Sci. Tech.* B34 (5):408–22.
190. WILLIAMS, E. G. 1952: Shells from Fish. *Auckland Mus. Conch. Club Bull.* 8:1–5.  
Locality and depth records for Mollusca taken from fish stomachs.

PRINTED BY AUTHORITY:

R. E. OWEN, GOVERNMENT PRINTER, WELLINGTON, NEW ZEALAND.—1955

500/3/55—44549 H