

Index to Volume XXII

Author Index

- ALVARIÑO, ANGELES:
Egg Pouches and Other Reproductive Structures in Pelagic Chaetognatha, 488-492
Two New Calyophorae, Siphonophorae, 340-346
- ASHMOLE, MYRTLE J., and N. PHILIP ASHMOLE:
The Use of Food Samples from Sea Birds in the Study of Seasonal Variation in the Surface Fauna of Tropical Oceanic Areas, 1-10
- ASHMOLE, N. PHILIP:
see Ashmole and Ashmole
- BAKER, GLADYS E.:
see Kenner, Hohl, and Baker
- BARNES, I. LYNUS:
see Funkhouser, Barnes, and Naughton
- BROCK, VERNON E., and THEODORE C. CHAMBERLAIN:
A Geological and Ecological Reconnaissance off Western Oahu, Hawaii, Principally by Means of the Research Submarine "Asherah," 373-394
- CAMPBELL, RICHARD D.:
Host Specificity, Settling, and Metamorphosis of the Two-Tentacled Hydroid *Proboscoidactyla flavicirrata*, 336-339
- CHAMBERLAIN, THEODORE:
The Littoral Sand Budget, Hawaiian Islands, 161-183
see also Brock and Chamberlain
- CHENG, THOMAS C.:
The Compatibility and Incompatibility Concept as Related to Trematodes and Molluscs, 141-160
see also Cheng, Yee, and Rifkin
- CHENG, THOMAS C., HERBERT W. F. YEE, and ERIK RIFKIN:
Studies on the Internal Defense Mechanisms of Sponges.
I. The Cell Types Occurring in the Mesoglea of *Terpios zeteki* (de Laubenfels) (Porifera: Demospongiae), 395-401
- CHRISTENSEN, NIKOLAS I.:
Compressional Wave Velocities in Basic Rocks, 41-44
- FUNKHOUSER, JOHN G., I. LYNUS BARNES, and JOHN J. NAUGHTON:
The Determination of a Series of Ages of Hawaiian Volcanoes by the Potassium-Argon Method, 369-372
- GILMARTIN, AMY JEAN:
Baker's Law and Dioecism in the Hawaiian Flora: An Apparent Contradiction, 285-292
- GOSLINE, WILLIAM A.:
Considerations Regarding the Evolution of Hawaiian Animals, 267-273
- GRICE, GEORGE D., and KUNI HULSEMANN:
Calanoid Copepods from Midwater Trawl Collections Made in the Southeastern Pacific Ocean, 322-335
- HAMAMOTO, SUSAN T.:
see Hohl and Hamamoto
- HÄNSEL, R.:
Characterization and Physiological Activity of Some *Kawa* Constituents, 293-313
- HOHL, HANS-RUDOLF:
see Hohl and Hamamoto
see also Kenner, Hohl, and Baker
- HOHL, HANS R., and SUSAN T. HAMAMOTO:
Lamellate Structures in the Nucleolus of the Cellular Slime mold *Acrasis rosea*, 402-407
- HOLLENBERG, GEORGE J.:
An Account of the Species of the Red Alga *Herposiphonia* Occurring in the Central and Western Tropical Pacific Ocean, 536-559
An Account of the Species of the Red Alga *Polysiphonia* of the Central and Western Tropical Pacific Ocean
I. Oligosiphonia, 56-98
II. *Polysiphonia*, 198-207
- HULSEMANN, KUNI:
see Grice and Hulsemann
- IKAWA, HARUYOSHI:
see Sherman and Ikawa
- KENNER, DIANA D., HANS-RUDOLF HOHL, and GLADYS E. BAKER:
Preliminary Observations on the Fine Structure of Species of *Micromonospora* (Actinomycetales), 52-55
- KINZIE, ROBERT A., III:
The Ecology of the Replacement of *Pseudosquilla ciliata* (Fabricius) by *Gonodactylus falcatus* (Forskål) (Crustacea; Stomatopoda) Recently Introduced into the Hawaiian Islands, 465-475

- LAMOUREUX, CHARLES H.:
see Tomich, Wilson, and Lamoureux
- LONG, EDWARD R.:
The Associates of Four Species of Marine Sponges of Oregon and Washington, 347-351
- MATTHEWS, DONALD C.:
The Folliculinids (Protozoa) of Ago Bay, Japan, and Their Relation to the Epifauna of the Pearl Oyster (*Pinctada martensii*), 232-250
- MCCOY, FLOYD W.:
see Stice and McCoy
- McFARLANE, ROBERT W.:
see Sibley and MacFarlane
- MCCROY, C. PETER:
The Distribution and Biogeography of *Zostera marina* (Eelgrass) in Alaska, 507-513
A Eurasian Alga in Alaska, 138
- MORRISON, G. C.:
A Preliminary Phytochemical Survey in the British Solomon Islands, 184-193
- MYERS, A. A.:
Some Aoridae (Amphipoda: Gammaridea) Collected by the Hancock Expeditions to the Eastern Pacific, 1931-1941, 497-506
- NAKAMURA, ROYDEN:
An Additional Contribution to the Biology of the Aholehole, *Kublia sandvicensis* (Steindachner), 493-496
- NAUGHTON, JOHN J.:
see Funkhouser, Barnes, and Naughton
- PEQUEGNAT, WILLIS E.:
Distribution of Epifaunal Biomass on a Sublittoral Rock-Reef, 37-40
- PRUDHOE, STEPHEN:
A New Polyclad Turbellarian Associating with a Hermit Crab in the Hawaiian Islands, 408-411
- QUAST, JAY C.:
New Records of Thirteen Cottoid and Blennioid Fishes for Southeastern Alaska, 482-487
- REED, EDWARD B.:
The Occurrence of *Cyclops kolensis* Lilljeborg (Copepoda, Cyclopoida) in North America, 251-266
- REISH, DONALD J.:
The Polychaetous Annelids of the Marshall Islands, 208-231
- RIFKIN, ERIK:
see Cheng, Yee, and Rifkin
- ST. JOHN, HAROLD:
Hawaiian Plant Studies 28. *Cyrtandra megistocalyx* (Gesneriaceae), a New Species from Oahu, Hawaiian Islands, 422-424
- Revision of the Genus *Pandanus* Stickman
Part 26. *Pandanus mayotteensis* from the Iles Comores, 99-103
Part 27. *Pandanus* novelties from Madagascar, 104-137
Part 28. The Australian Species Published by Robert Brown, 412-421
Part 29. New Papuan Species in the Section *Microstigma* Collected by C. E. Carr, 514-519
Part 30. The New Section *Marginata* from Papua, 520-522
Part 31. Bornean Species Collected by J. Motley, 523-531
Part 32. The New Section *Involuta* from Papua, 532-535
- SALMON, MICHAEL, HOWARD E. WINN, and NINO SORGENTE:
Sound Production and Associated Behavior in Triggerfishes, 11-20
- SCHROEDER, PAUL C.:
On the Life History of *Nereis grubei* (Kinberg), a Polychaete Annelid from California, 476-481
- SHERMAN, G. DONALD, and HARUYOSHI IKAWA:
Soil Sequences in the Hawaiian Islands, 458-464
- SIBLEY, FRED C., and ROBERT W. McFARLANE:
Gulls in the Central Pacific, 314-321
- SORGENTE, NINO:
see Salmon, Winn, and Sorgente
- SRINIVASAN, V. V.:
Notes on the Distribution of Wood-Boring Tereidines in the Tropical Indo-Pacific, 277-280
- STICE, GARY D., and FLOYD W. MCCOY:
The Geology of the Manu'a Islands, Samoa, 427-457
- STONE, BENJAMIN:
Theophrastaceae, a Family Wrongly Attributed to the Hawaiian Flora, 425
- THOMAS, CHARLES W.:
Antarctic Ocean-Floor Fossils: Their Environments and Possible Significance as Indicators of Ice Conditions, 45-51
- TOMICH, P. QUENTIN, NIXON WILSON, and CHARLES H. LAMOUREUX:
Ecological Factors on Manana Island, Hawaii, 352-368
- TRONO, GAVINO, JR.:
see Tsuda and Trono
- TSUDA, ROY T., and GAVINO TRONO, JR.:
Marine Benthic Algae from Howland Island and Baker Island, Central Pacific, 194-197
- WELLS, JOHN W.:
Notes on Indo-Pacific Scleractinian Corals, Parts 5 and 6

- Part 5. A New Species of *Alveopora* from New Caledonia, 274-275
- Part 6. Further Note on *Bantamia merleti* Wells, 276
- WILSON, NIXON:
see Tomich, Wilson, and Lamoureux
- WINKLER, LINDSAY R.:
A Variant *Aplysia californica*, 139-140
- WINN, HOWARD E.:
see Salmon, Winn, and Sorgente
- YAMAGUTI, SATYU:
Cestode Parasites of Hawaiian Fishes, 21-36
- YEE, HERBERT W. F.:
see Cheng, Yee, and Rifkin
- YOCOM, CHARLES F.:
Birds of Haleakala National Park, Maui, Hawaii, 281-284

Subject Index

- Acrasis rosea*, lamellate structures in nucleolus of, 402-407
- ages of Hawaiian volcanoes, 369-372
- Alaska, Eurasian alga in, 138
- new cottoid and blennioid fishes from, 482-487
- Zostera marina* in, 507-513
- alga, Eurasian, in Alaska, 138
- algae, marine benthic, from central Pacific, 194-197
- red, of the tropical Pacific, 56-98, 198-207, 536-559
- Alveopora*, new species from New Caledonia, 274
- Amphipoda from eastern Pacific, 497-506
- annelids of Marshall Islands, 208-231
- Antarctic ocean-floor fossils as indicators of ice conditions, 45-51
- Aoridae collected by Hancock Expeditions, 497-506
- Aplysia californica*, variant, 139-140
- associates of marine sponges, 347-351
- Australia, *Pandanus* species from, 412-421
- Baker Island, marine benthic algae from, 194-197
- Baker's Law and dioecism in Hawaiian flora, 285-292
- Bantamia merleti* Wells, 276
- basic rocks, compressional wave velocities in, 41-44
- biogeography of *Zostera marina* (eelgrass) in Alaska, 507-513
- birds of Haleakala National Park, Maui, 281-284
- blennioid fishes, new records of, 482-487
- Borneo, *Pandanus* species in, 523-531
- calanoid copepods in southeastern Pacific, 322-335
- California, *Nereis grubei* from, 476-481
- Calycomphorae, Siphonophorae, 340-346
- cell types in mesoglea of *Terpios zeteki*, 395-401
- central Pacific, gulls in, 314-321
- cestode parasites of Hawaiian fishes, 21-36
- Chaetognatha, pelagic, reproductive structures in, 488-492
- characterization of *kawa* constituents, 293-313
- compatibility and incompatibility in trematodes and molluscs, 141-160
- compressional wave velocities in basic rocks, 41-44
- copepods, calanoid, in southeastern Pacific, 322-335
- corals, of Indo-Pacific, 274-276
- cottoid fishes, new records of, 482-487
- Cyclops kolensis* in North America, 251-266
- Cyrtandra megistocalyx* sp. nov., from Hawaii, 422-424
- defense mechanisms of sponges, 395-401
- dioecism in Hawaiian flora, 285-292
- distribution of *Zostera marina* (eelgrass), 507-513
- eastern Pacific, Aoridae (Amphipoda) from, 497-506
- ecological factors on Manana (Rabbit) Island, Hawaii, 352-368
- ecology of replacement of *Pseudosquilla ciliata* by *Gonodactylus falcatus*, 465-475
- ecology of sea floor off western Oahu, 373-394
- eelgrass, biogeography of, 507-513
- egg pouches in pelagic Chaetognatha, 488-492
- electron microscope studies of *Acrasis rosea* nucleolus, 402-407
- of *Micromonospora* species, 52-55
- epifauna of pearl oyster, 232-250
- epifaunal biomass, distribution on a sublittoral rock-reef, 37-40
- evolution of Hawaiian animals, 267-273
- folliculinids of Ago Bay, Japan, 232-250
- fossils of Antarctic ocean floor, 45-51
- geology of Manu'a Islands, Samoa, 427-457
- of sea floor off western Oahu, 373-394
- Gonodactylus falcatus* replacing *Pseudosquilla ciliata* in Hawaii, 465-475
- gulls in central Pacific, 314-321
- Haleakala National Park, birds of, 281-284
- Hancock Expeditions, some Amphipoda collected by, 497-506
- Hawaiian animals, evolution of, 267-273
- fishes, cestode parasites of, 21-36
- flora, Baker's Law and dioecism in, 285-292
- Hawaiian Islands, ecology of *Pseudosquilla ciliata* and *Gonodactylus falcatus* in, 465-475
- littoral sand budget of, 161-183
- soil sequences in, 458-464
- turbellarian associating with hermit crab in, 408-411
- hermit crab, turbellarian associate of, 408-411
- Herposiphonia* species in tropical Pacific, 536-559
- host specificity of *Probosciodactyla flavicirrata*, 336-339

- Howland Island, marine benthic algae from, 194-197
 hydroid, two-tentacled, 336-339
- ice conditions in Antarctic, ocean-floor fossils as indicators of, 45-51
- Iles Comores, *Pandanus mayotteensis*, 99-103
- Indo-Pacific, wood-boring teredines in, 277-280
 scleractinian corals from, 274-276
- Japan (Ago Bay), folliculinids of, 232-250
- kawa* constituents, characterization and physiological activity of, 293-313
- lamellate structures in nucleolus of a slime mold, 402-407
- life history of *Nereis grubei*, 476-481
- littoral sand budget, Hawaiian Islands, 161-183
- Madagascar, *Pandanus* novelties from, 104-137
- Manana Island, Hawaii, ecology of, 352-368
- Manu'a Islands, geology of, 427-457
- marine sponges, associates of, 347-351
- Marshall Islands, polychaetous annelids of, 208-231
 metamorphosis of *Proboscoidactyla flavicirrata*, 336-339
- Micromonospora*, fine structure of, 52-55
- molluscs and trematodes, compatibility and incompatibility in, 141-160
- Nereis grubei*, life history of, 476-481
- new genera of cestode parasites, 21-36
- new records of cottoid and blennioid fishes for South-eastern Alaska, 482-487
- new sections of *Pandanus*, 520-522, 532-535
- new species of
- Aoridae (Amphipoda), 497-506
 - Calycophorae (Siphonophorae), 340-346
 - cestode parasites, 21-36
 - copepods, 322-335
 - coral, 274
 - Cyrtandra*, 422-424
 - Pandanus*, 99-103, 104-137, 412-421, 514-519, 520-522, 523-531, 532-535
 - polychaetous annelids, 208-231
 - polyclad turbellarian, 408-411
 - red algae, 56-98, 198-207, 536-559
- North America, *Cyclops kolensis* in, 251-266
- nucleolus of *Acrasis rosea*, 402-407
- ocean surface fauna, use of sea bird food in study of, 1-10
- Oligosiphonia (*Polysiphonia*) species in tropical Pacific, 56-98
- Pandanus*, Bornean species, 523-531
- new Papuan species, 514-519
 - new section *Involuta* from Papua, 532-535
 - new section *Marginata* from Papua, 520-522
 - novelties from Madagascar, 104-137
 - from Australia, 412-421
- Pandanus mayotteensis* from Iles Comores, 99-103
- Pandanus*, revision of genus, Part 26, 99-103
- Part 27, 104-137
 - Part 28, 412-421
 - Part 29, 514-519
 - Part 30, 520-522
 - Part 31, 523-531
 - Part 32, 532-535
- Papua, new *Pandanus* sections from, 520-522, 532-535
- new *Pandanus* species from, 514-519, 520-522, 532-535
 - physiological activity of *kawa* constituents, 293-313
 - phytochemical survey in Solomon Islands, 184-193
 - Pinctada martensii*, epifauna of, 232-250
 - polychaete annelid (*Nereis grubei*) from central California, 476-481
 - polychaetous annelids of Marshall Islands, 208-231
 - Polysiphonia* species of tropical Pacific, 56-98, 198-207
 - potassium-argon method, used in determining ages of volcanoes, 369-372
 - Proboscoidactyla flavicirrata*, host specificity, settling, and metamorphosis of, 336-339
 - Pseudosquilla ciliata* replaced by *Gonodactylus falcatus* in Hawaii, 465-475
- Rabbit (Manana) Island, Hawaii, 352-368
- red algae of the tropical Pacific
- Herposiphonia*, 536-559
 - Polysiphonia*, 56-98, 198-207
- reproductive structures in Chaetognatha, 488-492
- Samoa, geology of Manu'a Islands, 427-457
- sand budget, Hawaiian Islands, 161-183
- scleractinian corals from Indo-Pacific, 274-276
- sea birds, food samples from, in study of ocean surface fauna, 1-10
- settling of *Proboscoidactyla flavicirrata*, 336-339
- Siphonophorae, new Calycophorae, 340-346
- slime mold, cellular, 402-407
- soil sequences in Hawaii, 458-464
- Solomon Islands, phytochemical survey in, 184-193
- sound production in triggerfishes, 11-20
- southeastern Pacific, calanoid copepods in, 322-335
- sponges, defense mechanisms of, 395-401
- marine, associates of, 347-351
- sublittoral rock-reef, epifaunal biomass on, 37-40
- submarine, use of in study of sea floor, 373-394
- teredines, wood-boring, in Indo-Pacific, 277-280
- Terpios zeteki*, cell types in mesoglea of, 395-401
- Theophrastaceae, wrongly attributed to Hawaiian flora, 425
- trematodes and molluscs, compatibility and incompatibility in, 141-160
- triggerfishes, sound production and associated behavior in, 11-20
- tropical Pacific, *Herposiphonia* species of, 56-98
- Oligosiphonia species of, 56-98
 - Polysiphonia* species of, 56-98, 198-207
- turbellarian, polyclad, associating with hermit crab, 408-411
- volcanoes, Hawaiian, ages of, 369-372
- Zostera marina* in Alaska, 507-513