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ROBERT H. COWIE



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YOSHIO KONDO: BIBLIOGRAPHY AND LIST OF TAXA

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ABSTRACT. The career and malacological contributions of Yoshio Kondo (1910–1990), former malacologist at Bishop Museum are briefly outlined. A full bibliography of his published scientific works, plus his theses and more important unpublished reports, is presented. All generic and lower level taxa described or proposed by Kondo are listed with original references, type species or localities and Bishop Museum catalogue numbers of type material.

INTRODUCTION

Yoshio Kondo was born in 1910 on the Hawaiian Island of Maui. His first contact with malacology came when the fishing sampan *Myojin Maru*, on which he was engineer, was chartered for the Bishop Museum's famed Mangarevan Expedition in 1934. Kondo's interest in molluscs was stimulated by the contact with C. Montague Cooke, Jr., malacologist at Bishop Museum, and, on the expedition's return to Honolulu, Cooke appointed Kondo as Assistant in Malacology to work in the Museum's mollusc collection. During his employment at the Museum, Kondo earned his Bachelor's and Master's degrees at the University of Hawaii, and obtained his Ph.D. from Harvard University in 1955. Cooke died in 1948, and Kondo assumed responsibility for the collection, as Assistant Malacologist and subsequently Malacologist, until his retirement in 1980. He continued his association with the collection, as Malacologist Emeritus, until his death in October 1990.

Yoshio Kondo was in many ways a perfectionist. His skill in dissection of minute land snails was second to none, and his camera lucida illustrations of both shells and internal anatomy were superb. Many of his illustrations of shells have appeared on the covers of the journal *Malacological Review*. Yet he did not publish a large number of scientific papers. His perfectionism and his modesty perhaps had something to do with this, as perhaps also did his intense reverence and admiration for his mentor, Cooke. His most significant published work, a partial revision of the families Achatinellidae and Tornatellinidae, had its foundation in his Master's thesis. However, when ultimately published, long after Cooke's death, Cooke was placed as the senior author. Kondo's *magnum opus*, an anatomical revision of the land snail family Partulidae, completed in broad outline as his Ph.D. thesis, remains largely unpublished. Attention to detail and an unwillingness to publish until every question had been resolved, combined with the high standards that he felt Cooke expected of him in continuing the program of research set out by Cooke many years earlier, seem to have constrained him. Nonetheless, his contribution to Pacific land snail systematics, a field that has attracted fewer authorities than it deserves, is of considerable significance.

BIBLIOGRAPHY

Kondo's very first publications were three series of newspaper articles, 17 in total, recounting the progress of the Mangarevan Expedition. They were published in 1934 during the course of the expedition, in a local Honolulu newspaper, the *Nippu Jiji*. His first scientific publication came later, in 1943.

The first section of this bibliography includes all Kondo's published scientific works. It is followed by a listing of his unpublished theses and more important unpublished reports. A posthumous manuscript dealing with the Partulidae of Tahiti (with J.B. Burch) is in preparation.

Published scientific works

- Kondo, Y. 1943.** Anatomical studies of three species of *Ouagapia* (Pulmonata, Agnatha, Paryphantidae). *Bernice P. Bishop Museum Occasional Papers* **17**(19): 229-48.
- . **1944.** Dentition of six syncerid genera. Gasteropoda, Prosobranchiata, Synceridae: (Assimineidae). *Bernice P. Bishop Museum Occasional Papers* **17**(23): 313-18.
- . **1948.** Anatomy of *Diplomorpha delatouri* (Hartman) and four species of *Placostylus* (Pulmonata, Bulimulidae). *Nautilus* **61**(4): 119-26, 3 pl.
- . **1954.** The Meadows collection of Achatinellidae. *Nautilus* **68**(2): 50-51.
- . **1955.** Bronsonian knot. *Copeia* **3**: 236-37.
- . **1956a.** First *Helix aspersa* in Hawaii. *Nautilus* **69**(4): 141-42.
- . **1956b.** Henry Edward Crampton 1875-1956. *Nautilus* **70**(1): 31-34.
- . **1956c.** Second *Helix aspersa* in Hawaii and data on carnivorous snails. *Nautilus* **70**(2): 71-72.
- . **1956d.** Status of terrestrial malacological research in the central Pacific and Micronesia, p. 1457-1460. In: *Proceedings of the Eighth Pacific Science Congress*. Vol. 3A. National Research Council of the Philippines, University of the Philippines, Diliman, Quezon City.
- . **1962a.** The genus *Tubuaia*. Pulmonata, Achatinellidae. *Bernice P. Bishop Museum Bulletin* **224**: 1-49.
- . **1962b.** [Nomenklatorische Bemerkungen]. *Archiv für Molluskenkunde* **91**: 125.
- . **1964.** Growth rates in *Achatina fulica* Bowdich. *Nautilus* **78**(1): 6-15.
- . **1968.** Partulidae: preview of anatomical revision. *Nautilus* **81**(3): 73-77.
- . **1970.** Some aspects of Mariana Islands Partulidae (Mollusca, Pulmonata). *Bernice P. Bishop Museum Occasional Papers* **24**(5): 73-90.
- . **1973.** *Samoana* of the Society Islands (Pulmonata: Partulidae). *Malacological Review* **6**: 19-33.
- . **1975.** Status of *Lamellidea solomonensis* Dell (Stylommatophora: Achatinellidae: Lamellideinae). *Malacological Review* **8**: 114.
- . **1981.** *Samoana jackieburchi*, new species (Gastropoda: Pulmonata: Partulidae). *Malacological Review* **13**: 25-32.
- Kondo, Y. & J. B. Burch. 1972.** Archaic land snails of the Pacific islands. *Malacological Review* **5**: 17-18.
- . **1979.** Extrusive genital anatomies and their internal postures in *Partula affinis* of Tahiti. *Malacological Review* **12**: 79-84.

- . 1983. Two amendments to Crampton's monograph on Tahitian Partulidae. *Malacological Review* 16: 101–06.
- . 1989. *Samoana medana*, new species (Gastropoda, Pulmonata: Partulidae). *Bernice P. Bishop Museum Occasional Papers* 29: 131–37.
- Kondo, Y. & W. J. Clench.** 1952. Charles Montague Cooke, Jr., a biobibliography. *Bernice P. Bishop Museum Special Publication* 42: 1–56.
- Clench, W. J. & Y. Kondo.** 1943. The poison cone shell. *American Journal of Tropical Medicine* 23(1): 105–21.
- Cooke, C. M., Jr. & Y. Kondo.** 1943. A new species of *Elasmias* from Rurutu, Austral Islands. *Bernice P. Bishop Museum Occasional Papers* 17(21): 263–65.
- . 1952. New fossil forms of *Carelia* and *Partulina* (Pulmonata) from Hawaiian Islands. *Bernice P. Bishop Museum Occasional Papers* 20(20): 329–46.
- . 1960. Revision of Tornatellinidae and Achatinellidae (Gastropoda, Pulmonata). *Bernice P. Bishop Museum Bulletin* 221: 1–303.

Unpublished theses and reports

- Kondo, Y.** 1940. Spermatogenesis in the Hawaiian terrestrial mollusc *Achatinella lymniana*. Manuscript submitted in partial fulfillment of the requirements of Zoology 300. University of Hawaii, Honolulu. 38 p., 14 pl.
- . 1947. A revision of the landshell families Achatinellidae and Tornatellinidae through a study of the genitalia, nervous system, and teeth. M.A. thesis, Univ. Hawaii, Honolulu. vi + 105 p., 52 pl.
- . 1949. Report on experiment island. Report to the Pacific Science Board of the National Research Council. 5 p.
- . 1950a. Report on the *Achatina fulica* investigation on Palau, Pagan, and Guam. Report to the Pacific Science Board of the National Research Council. 94 p.
- . 1950b. The Giant African Snail (*Achatina fulica*) in Palau (in part), Pagan, and Guam. In: Mead, A. R. & Y. Kondo, The problem of the Giant African Snail (*Achatina fulica*) in Micronesia. Report to the Pacific Science Board of the National Research Council. Part II, 13 p.
- . 1950c. Laboratory report on carnivorous snails. Report to the Pacific Science Board of the National Research Council. 3 p.
- . 1951a. Laboratory report on *Gonaxis kibweziensis* (Sm.). Report to the Pacific Science Board of the National Research Council. 5 p.
- . 1951b. Report on laboratory studies of carnivorous snails. Report to the Pacific Science Board of the National Research Council. 2 p.
- . 1951c. Report to Invertebrate Consultants Committee for the Pacific on *Gonaxis kibweziensis* and *Edentulina affinis*. Report to the Pacific Science Board of the National Research Council. 7 p.
- . 1952a. Report No. 5 to Insect Control Committee of the Pacific on *Gonaxis*. Report to the Pacific Science Board of the National Research Council. 4 p.
- . 1952b. Report on carnivorous snail experiment on Agiguan island; primary and secondary *Achatina*-free areas on Rota; and gigantism among *Achatina* on Guam. Report to the Pacific Science Board of the National Research Council. 50 p.
- . 1955. A revision of the family Partulidae (Gastropoda, Pulmonata). Ph.D. thesis, Harvard Univ., Cambridge, Massachusetts. xvi + 218 p., 33 pl.

- . 1957. The snail intermediate host *Lymnaea (Fossaria) ollula* Gould of the cattle liver fluke *Fasciola gigantica* Cobbold. Report to the Territorial Board of Agriculture and Forestry, Territory of Hawaii. 12 p.
- . 1970. Colloquium on endangered species of Hawaii. Extinct land molluscan species. Bernice P. Bishop Museum typescript. 8 p.
- . 1980. Endangered land snails, Pacific. Report prepared for the International Union for the Conservation of Nature and Natural Resources. 16 p.
- Mead, A. R. & Y. Kondo. 1949. Giant African Snail (*Achatina fulica*) problem in Micronesia. Report to the Pacific Science Board of the National Research Council. 8 p.

LIST OF TAXA

This list includes all molluscan genera and lower level taxa proposed or described by Yoshio Kondo. Genus-group names are listed first, with their authorship, date and page number of the original publication (in the bibliography above), followed by the type species of the group with its authorship, date and type of fixation; subgeneric and infra-subgeneric status is also indicated.

Species-group names follow the list of genus-group names. Each species-group name is followed by its authorship, date, page number and figure number of the holotype (or syntypes) in the original publication (in the bibliography above), genus within which it was originally described (and nominate species for subspecific and infrasubspecific names), type locality (island group: island, locality— island names following Motteler [1986]) and Bishop Museum (BPBM) Malacology Collection catalogue number of the holotype (or syntypes).

Where an annotation was deemed necessary, it is placed in square brackets. Nomenclatural rules follow the *International Code of Zoological Nomenclature* (I.C.Z.N. 3rd Edition, 1985).

Many of the names of Cooke & Kondo (1960) were manuscript names of Cooke; Kondo used some of these in his Master's thesis, citing Cooke as the authority (*Aedituans*, *auriculella*, *concolorans*, *grandis*, *neckeri*, *Perahua*, *Philopoa*, *singularis*, *Tubuuaia*). In his Ph.D. thesis he dealt with *Partula atilis*, *P. candida*, *P. leptochila*, *P. levilineata* and *P. remota*, manuscript names of H.E. Crampton, which were subsequently published by Crampton. The theses are considered here not to have formal nomenclatural standing; the Cooke manuscript names are listed with Cooke & Kondo (1960) as authority; Crampton's names are not listed.

Genus-group Names

- Aedituans** Cooke & Kondo, 1960: 258, as subgenus of **Tornatellides**. Type species: *Tornatellides neckeri* Cooke & Kondo, 1960, by original designation.
- Antonella** Cooke & Kondo, 1960: 117. Type species: *Achatina trochlearis* Pfeiffer, 1842, by original designation.
- Apopitys** Cooke & Kondo, 1960: 92. Type species: *Apopitys andersoni* Cooke & Kondo, 1960, by original designation.
- Auheia** Kondo, 1962b: 125, as subgenus of **Lamellidea**. Type species: *Lamellidea adamsoni* Pilsbry & Cooke, 1933, automatic. [New name for *Atea* Pilsbry & Cooke, 1933].
- Celticola** Cooke & Kondo, 1960: 131. Type species: *Celticola pilsbryi* Cooke & Kondo, 1960, by original designation.

- Elamellidea** Cooke & Kondo, 1960: 211, as subgenus of **Lamellidea**. Type species: *Tornatellina tantalus* Pilsbry & Cooke, 1915, by original designation.
- Maitua** Cooke & Kondo, 1960: 108, as subgenus of **Lamellovum**. Type species: *Lamellovum auriculella* Cooke & Kondo, 1960, by original designation.
- Mangaoa** Cooke & Kondo, 1960: 78. Type species: *Mangaoa perissa* Cooke & Kondo, 1960, by original designation.
- Meryticola** Cooke & Kondo, 1960: 137, as subgenus of **Celticola**. Type species: *Celticola arborea* Cooke & Kondo, 1960, by original designation.
- Mitiperua** Cooke & Kondo, 1960: 79. Type species: *Mitiperua simplex* Cooke & Kondo, 1960, by original designation.
- Nesonoica** Cooke & Kondo, 1960: 140, as subgenus of **Celticola**. Type species: *Celticola conoides* Cooke & Kondo, 1960, by original designation.
- Perahua** Cooke & Kondo, 1960: 125. Type species: *Perahua grandis* Cooke & Kondo, 1960, by original designation.
- Philopoa** Cooke & Kondo, 1960: 262. Type species: *Philopoa singularis* Cooke & Kondo, 1960, by original designation.
- Pukunia** Cooke & Kondo, 1960: 73. Type species: *Pukunia acuta* Cooke & Kondo, 1960, by original designation.
- Taireva** Cooke & Kondo, 1960: 87, as section [= subgenus] of **Taitaa**. Type species: *Taitaa striatula* Cooke & Kondo, 1960, by original designation.
- Taitaa** Cooke & Kondo, 1960: 82. Type species: *Taitaa dacryma* Cooke & Kondo, 1960, by original designation.
- Tanga** Cooke & Kondo, 1960: 70, as subgenus of **Strobilus**. Type species: *Strobilus brevis* Cooke & Kondo, 1960, by original designation.
- Taraia** Cooke & Kondo, 1960: 89, as section [= subgenus] of **Taitaa**. Type species: *Taitaa neanica* Cooke & Kondo, 1960, by original designation.
- Tautautua** Cooke & Kondo, 1960: 68, as subgenus of **Strobilus**. Type species: *Strobilus perfragilis* Cooke & Kondo, 1960, by original designation.
- Tubuaia** Cooke & Kondo, 1960: 143. Type species: *Tornatellina perplexa* Garrett, 1879, by original designation.

Species-group Names

- acicularis** Cooke & Kondo, 1960: 66, fig. 19a. **Strobilus**. Austral Islands: Rapa, south of Ahurei Bay, Mount Tepiahu, south slope. BPBM 8714.
- acuta** Cooke & Kondo, 1960: 73, fig. 23a. **Pukunia**. Austral Islands: Rapa, Mount Perahu, northeast ridge. BPBM 8720.
- alpestris** Cooke & Kondo, 1960: 103, fig. 45a. **Pityis**. Austral Islands: Rapa, Mount Perahu, east ridge. BPBM 135608.
- amoebodonta** Kondo, 1962a: 16, fig. 3c. **Tubuaia**. Austral Islands: Rurutu, southeast slope of Mount Manureva, hanging valley west of Moerai village. BPBM 10160.
- amphodon** Cooke & Kondo, 1943: 263, fig. 1a. **Elasmias**. Austral Islands: Rurutu, southern slope of Mt. Manureva near apex of peak. BPBM 10116.
- anatonuensis** Cooke & Kondo, 1960: 141, fig. 66a. **Celticola**. Austral Islands: Raivavae, back of Anatonu village, hillside below main cliff. BPBM 10193.
- anceyana** Kondo, 1962a: 35, fig. 9d. **Tubuaia voyana** subspecies. Gambier Islands. BPBM 10145.
- andersoni** Cooke & Kondo, 1960: 92, fig. 39a. **Apopityis**. Austral Islands: Rapa, Mount Mangaoa, northeast ridge. BPBM 8733.

- arauana** Cooke & Kondo, 1960: 86, fig. 33a. **Taitaa**. Austral Islands: Tubuai (western end), back of Araua village. BPBM 147929.
- arborea** Cooke & Kondo, 1960: 138, fig. 64a. **Celticola**. Austral Islands: Rapa, Mount Tepiahu, south slope, near head of small valley. BPBM 8774.
- arnemanni** Cooke & Kondo, 1952: 346, fig. 6a. **Partulina**. Hawaiian Islands: Oahu, Kahuku, in front of airfield. BPBM 9093.
- auriculella** Cooke & Kondo, 1960: 109, fig. 48a. **Lamellovum**. Austral Islands: Rapa, Maitua Valley, below Mount Mangaoa. BPBM 8750.
- bakeri** Cooke & Kondo, 1960: 129, fig. 59a. **Perahua**. Austral Islands: Rapa, Mount Perahu, east ridge. BPBM 8767.
- bakerorum** Kondo, 1962a: 14, fig. 3a. **Tubuaia**. Austral Islands: Rurutu, Mount Manureva, southeast slope. BPBM 10158.
- basalis** Cooke & Kondo, 1960: 60, fig. 14a. **Strobilus turritus** subspecies. Austral Islands: Rapa, Mount Mangaoa, northeast ridge. BPBM 8701.
- brevis** Cooke & Kondo, 1960: 70, fig. 21a. **Strobilus**. Austral Islands: Rapa, Mount Perahu, east ridge. BPBM 8701.
- burchi** Kondo, 1973: 20, figs. 1, 2(1). **Samoana**. Society Islands: Tahiti Iti, Haoma Highlands at head of Haoma Valley. BPBM 9006.
- christiani** Kondo, 1962a: 34, fig. 9b. **Tubuaia voyana** subspecies. Pitcairn Islands: Pitcairn Island, northern slope, above Adamstown. BPBM 10152.
- concolorans** Cooke & Kondo, 1960: 175, fig. 79a. **Tornatellinops**. Austral Islands: Rapa, east of Ahurei village, just back of graveyard. BPBM 8802
- conoides** Cooke & Kondo, 1960: 140, fig. 65a. **Celticola**. Austral Islands: Rapa, northwest slope of Mount Tautautu. BPBM 8778.
- convexior** Cooke & Kondo, 1960: 82, fig. 30c. **Mitiperua simplex** subspecies. Austral Islands: Rapa, Mount Perahu summit. BPBM 144790.
- coprophora** Kondo, 1962a: 41, fig. 12a. **Tubuaia**. Austral Islands: Raivavae, northeast cliff on Mount Muatapu, Muatapu side of pass. BPBM 10168.
- costata** Cooke & Kondo, 1960: 115, fig. 52a. **Lamellovum**. Austral Islands: Rapa, Mount Perahu, east ridge. BPBM 8755.
- cremnobates** Cooke & Kondo, 1960: 153, fig. 72a. **Tubuaia**. Austral Islands: Rapa, Teutu, northern slope of Mount Tepiahu. BPBM 8784.
- cylindrata** Cooke & Kondo, 1960: 155, fig. 73a. **Tubuaia**. Austral Islands: Rapa, Area, at head of small valley just east of the village. BPBM 8795.
- dacryma** Cooke & Kondo, 1960: 84, fig. 31a. **Taitaa**. Austral Islands: Tubuai, Mount Taitaa, northeast slope. BPBM 8727.
- diminuta* Kondo, 1962a: 43, fig. 12g. **Tubuaia coprophora** variety. Austral Islands: Raivavae, south cliff of Mount Turivao. BPBM 10173. [Unavailable name. Varietal name published after 1960; I.C.Z.N. Art. 45(b).]
- enokai** Kondo, 1962a: 35, fig. 9e. **Tubuaia voyana** subspecies. Gambier Islands: Mangareva, Mount Mokoto, south cliff. BPBM 10144.
- evelynae** Cooke & Kondo, 1952: 331, fig. 2a. **Carelia**. Hawaiian Islands: Kauai, Polihale, base of Polihale Ridge. BPBM 9092.
- exiguum** Cooke & Kondo, 1960: 228, fig. 99c. **Elasmias ovatum** subspecies. Austral Islands: Rapa, northwest slope of Mount Tautautu. BPBM 8877.
- fosbergi** Kondo, 1962a: 19, fig. 4a. **Tubuaia**. Pitcairn Islands: Pitcairn Island, Middle Hill. BPBM 135141.
- fusiforma** Cooke & Kondo, 1960: 122, fig. 54c. **Antonella trochlearis** subspecies. Austral Islands: Rapa, Mount Tevaitahu, in ravine on west slope. BPBM 8760.

- garrettiana** Kondo, 1962a: 12, fig. 2a. **Tubuaia**. Gambier Islands. BPBM 10154.
- grandis** Cooke & Kondo, 1960: 126, fig. 57a. **Perahua**. Austral Islands: Rapa, Mount Perahu, east ridge. BPBM 8765.
- hendersoni** Kondo, 1962a: 36, fig. 10a. **Tubuaia**. Pitcairn Islands: Henderson Island, northwest end, inland 0.5 mile. BPBM 10132.
- hygrobia** Kondo, 1962a: 43, fig. 13a. **Tubuaia**. Austral Islands: Raivavae, north slope of Mount Hiro. BPBM 10163.
- incerta** Cooke & Kondo, 1960: 136, fig. 62c. **Celticola pilsbryi** subspecies. Austral Islands: Rapa, Mount Perahu. BPBM 135560.
- inconstans** Cooke & Kondo, 1960: 160, fig. 75a. **Tubuaia**. Austral Islands: Rapa, head of small valley just east of Area village. BPBM 8792.
- intermedius** Cooke & Kondo, 1960: 63, fig. 15e [figure not explicitly stated as being of the holotype]. **Strobilus opeas** subspecies. Austral Islands: Rapa, Mount Vairu, southeast slope. BPBM 8706.
- jackieburchi** Kondo, 1981: 25, fig. 1a. **Samoana**. Society Islands: Tahiti, Faone Valley. BPBM 9007.
- langfordi** Kondo, 1970: 75, figs. 2,4,5,8 [no figure explicitly stated as being of the holotype]. **Partula**. Mariana Islands: Aguijan, near 14°50'N, 145°30'E, 1,000 yards northeast of boat landing. BPBM 213183.
- laticus** Cooke & Kondo, 1960: 136, fig. 63a. **Celticola pilsbryi** subspecies. Austral Islands: Rapa, Mount Tepiahu, small valley on southern slope. BPBM 8772.
- leptospira** Cooke & Kondo, 1960: 113, fig. 50a–b [two “cotypes” figured]. **Lamellovum**. Austral Islands: Rapa, Mount Perahu, east ridge. BPBM 8753 & 8754 (syntypes). [Cooke & Kondo (1960: 114) indicated two “cotypes”. A lectotype designation is needed but must await further study.]
- magnapustulata** Cooke & Kondo, 1952: 341, fig. 5a. **Carelia paradoxa** “geographical race” [= subspecies; I.C.Z.N. Art. 45(f)(ii)]. Hawaiian Islands: Kauai, Lepeuli, on beach. BPBM 9090.
- manurevae** Kondo, 1962a: 30, fig. 7d. **Tubuaia voyana** subspecies. Austral Islands: Rurutu, southeast slope of Mount Manureva, hanging valley west of Moerai village. BPBM 10146.
- margaritae** Cooke & Kondo, 1960: 76, fig. 25a. **Pukunia**. Austral Islands: Rapa, Mount Morongota. BPBM 53241.
- matonaensis** Kondo, 1962a: 30, fig. 8a. **Tubuaia voyana** subspecies. Austral Islands: Rurutu, Mato Naa, upraised coral reef, north side of *makatea* cliff. BPBM 10143.
- medana** Kondo & Burch, 1989: 131, fig. 1. **Samoana**. Marquesas Islands: Hivaoa Island, Vaiepoepo. BPBM 11879.
- micropleura** Cooke & Kondo, 1960: 193, fig. 84a. **Lamellidea**. Society Islands: Moorea, Faatoai Valley, near head of southeast branch. BPBM 150531.
- moloaensis** Cooke & Kondo, 1952: 338, fig. 4a. **Carelia olivacea** subspecies. Hawaiian Islands: Kauai, Lepeuli Beach. BPBM 9091.
- myojinae** Kondo, 1962a: 20, fig. 5a. **Tubuaia**. Austral Islands: Raivavae, second valley west of Pic Rouge, northwest side of ridge. BPBM 10124.
- nannodes** Cooke & Kondo, 1960: 153, figs. 71e,f [neither figure explicitly stated as being of the holotype.] **Tubuaia gouldi** “form” [= subspecies; I.C.Z.N. Art. 45(g)(ii), although Cooke & Kondo did state: “Intergrades with the typical form occur. Without them, this form might be considered a subspecies or a species”].

- Gambier Islands: Aukena Islet, northern side, near sea level, a few hundred yards from the hamlet. BPBM 8783.
- neanica** Cooke & Kondo, 1960: 90, figs. 37a–d [none explicitly stated as being of the holotype]. **Taitaa**. Austral Islands: Raivavae, 0.5 mile southwest of Ahuovi Point. BPBM 10185.
- neckeri** Cooke & Kondo, 1960: 258, fig. 110a. **Tornatellides**. Hawaiian Islands: Necker Island, Summit Hill, western slope. BPBM 8895.
- nesiotica** Cooke & Kondo, 1960: 122, fig. 54e. **Antonella trochlearis** subspecies. Austral Islands: Rapa, Karapo Rahi Islet, near southernmost tip of Rapa. BPBM 140649.
- opeas** Cooke & Kondo, 1960: 61, figs. 15a–d [none explicitly stated as being of the holotype]. **Strobilus**. Austral Islands: Rapa, north of bay, Area, back of village. BPBM 8703.
- oromanaensis** Kondo, 1962a: 30, fig. 7c. **Tubuaia voyana** subspecies. Austral Islands: Rimatara, Oromana Hills. BPBM 10137.
- oswaldi** Cooke & Kondo, 1960: 257, fig. 109a. **Tornatellides**. Hawaiian Islands: Oahu, Moanalua Valley, on spur leading to Puu Kahuauli. BPBM 8894.
- parvulus** Cooke & Kondo, 1960: 255, fig. 108a. **Tornatellides oblongus** subspecies. Pitcairn Islands: Henderson Island, slopes above cove about 1.25 miles south of northwestern point of island. BPBM 8892.
- peasei** Kondo, 1962a: 36, fig. 9f. **Tubuaia voyana** subspecies. Society Islands. BPBM 10136.
- pellucida** Cooke & Kondo, 1960: 76. **Pukunia**. Austral Islands: Rapa, Ahurei, on low ridge at back of village. BPBM 8722.
- perantiqua** Cooke & Kondo, 1952: 344, fig. 6c. **Partulina dubia** subspecies. Hawaiian Islands: Oahu, Kahuku Point. BPBM 9094.
- perfragilis** Cooke & Kondo, 1960: 68, fig. 20a. **Strobilus**. Austral Islands: Rapa, Mount Tautautu, northwest slope, at foot of cliff. BPBM 8718.
- perissa** Cooke & Kondo, 1960: 78, fig. 27a. **Mangaoa**. Austral Islands: Rapa, Mount Perahu, east ridge. BPBM 140282.
- pfeifferi** Cooke & Kondo, 1960: 122, fig. 55a. **Antonella**. Austral Islands: Rapa, Maitua. BPBM 8761.
- philolichen** Cooke & Kondo, 1960: 156, fig. 73d. **Tubuaia cylindrata** subspecies. Austral Islands: Rapa, Tapui Islet, near head of Ahurei Bay. BPBM 140263.
- pilsbryi** Cooke & Kondo, 1960: 132, fig. 60a. **Celticola**. Austral Islands: Rapa, back of Area. BPBM 8768.
- proxima** Cooke & Kondo, 1960: 135, fig. 62a. **Celticola pilsbryi** subspecies. Austral Islands: Rapa, East Maitua, northeast side of Mount Tautautu. BPBM 8770.
- pumilis** Cooke & Kondo, 1960: 72, fig. 22b. **Strobilus brevis** subspecies. Austral Islands: Rapa, Mount Perahu, east ridge, near apex of peak. BPBM 142912.
- radicula** Cooke & Kondo, 1960: 121, fig. 54a. **Antonella trochlearis** subspecies. Austral Islands: Rapa, Kopenena Valley. BPBM 8759.
- rapaensis** Cooke & Kondo, 1960: 159, fig. 74c. **Tubuaia voyana** subspecies. Austral Islands: Rapa, Tapui Islet, near head of Ahurei Bay. BPBM 8787.
- raphis** Cooke & Kondo, 1960: 68, fig. 19c. **Strobilus acicularis** subspecies. Austral Islands: Rapa, Mount Ruatara, northeast slope, near head of Tubuai Valley. BPBM 8716.

- saintjohni** Kondo, 1962a: 45, fig. 14a. **Tubuaia**. Austral Islands: Raivavae, north slope of Mount Hiro. BPBM 10174.
- saproderma** Kondo, 1962a: 39, fig. 11a. **Tubuaia**. Gambier Islands. BPBM 10181.
- scalaris** Cooke & Kondo, 1960: 101. **Pitys**, 1960: 101. Austral Islands: Rapa, Mount Tautautu, northeast face, just below cliffs. BPBM 8741.
- similaris** Cooke & Kondo, 1960: 65, fig. 17d. **Strobilus subtilis** subspecies. Austral Islands: Rapa, Mount Vairu, small valley on southeast slope, above head of Angairao Bay. BPBM 8709.
- simplex** Cooke & Kondo, 1960: 80, fig. 28a. **Mitiperua**. Austral Islands: Rapa, Mount Perahu, east ridge. BPBM 8725.
- simplimum** Cooke & Kondo, 1960: 231, fig. 101a. **Elasmias**. Austral Islands: Rapa, back of Area village. BPBM 8878.
- singularis** Cooke & Kondo, 1960: 263, fig. 111a. **Philopoa**. Hawaiian Islands: Nihoa, northwest part of island, just below the highest peak, dry open ridge. BPBM 8897.
- solitaria** Cooke & Kondo, 1960: 114, fig. 51a. **Lamellovum**. Austral Islands: Rapa, Mount Perahu, east ridge. BPBM 142918.
- sororcula** Cooke & Kondo, 1960: 139, fig. 64e. **Celticola arborea** subspecies. Austral Islands: Rapa, Mount Vairu, east slope. BPBM 8776.
- striatula** Cooke & Kondo, 1960: 87, fig. 34a. **Taitaa**. Austral Islands: Rurutu, Mount Manureva, southeast slope. BPBM 8729.
- subsimplis** Cooke & Kondo, 1960: 72, fig. 22a. **Strobilus brevis** subspecies. Austral Islands: Rapa, Putaketake. BPBM 8713.
- subcostata** Cooke & Kondo, 1960: 81, fig. 30a. **Mitiperua simplex** subspecies. Austral Islands: Rapa, Mount Mangaoa. BPBM 143341.
- subtilis** Cooke & Kondo, 1960: 63, fig. 17a. **Strobilus**. Austral Islands: Rapa, Mount Mangaoa, west slope of northeast ridge. BPBM 8707.
- tenuis** Cooke & Kondo, 1960: 124, fig. 56a. **Antonella**. Austral Islands: Rapa, Area, back of village. BPBM 8763.
- terebriformis** Cooke & Kondo, 1960: 91, fig. 38a. **Taitaa**. Austral Islands: Raivavae, 0.5 miles southwest of Ahuovi Point. BPBM 10190.
- teutuensis** Kondo, 1962a: 33, fig. 9a. **Tubuaia voyana** subspecies. Austral Islands: Rapa, Teutu. BPBM 10151.
- tsunami** Cooke & Kondo, 1952: 335, figs. 3a-d [four "cotypes" figured]. **Carelia pilsbryi** subspecies. Hawaiian Islands: Kauai, Lepeuli Beach. BPBM 190657A to 190657D (syntypes). [Cooke & Kondo (1952) listed four "cotypes". A lectotype designation is needed but must await further study.]
- turivaensis** Kondo, 1962a: 31, fig. 8b. **Tubuaia voyana** subspecies. Austral Islands: Raivavae, south cliff of Mount Turivao. BPBM 10140.
- vaiaunanae** Kondo, 1962a: 32, fig. 8c. **Tubuaia voyana** subspecies. Austral Islands: Raivavae, Vaiaunana Point, south side of peninsula. BPBM 10141.
- waipouliensis** Cooke & Kondo, 1952: 340 [unfigured by Cooke & Kondo (1952) but they designated the specimen figured in pl. 17, fig. 1 by Cooke (1931) as the holotype]. **Carelia paradoxa** "geographical race" [= subspecies; I.C.Z.N. Art. 45(f)(ii)]. Hawaiian Islands: Kauai, Olohena, northwest corner of Waipouli race track. BPBM 10173B.
- zimmermani** Cooke & Kondo, 1960: 89, fig. 36a. **Taitaa**. Austral Islands: Tubuai, Mount Taitaa, southwest ridge. BPBM 8731.

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LITERATURE CITED

- Cooke, C.M. Jr. 1931.** The land snail genus *Carelia*. *Bishop Mus. Bull.* **85**: 97 p., 18 pl.
Motteler, L.S. 1986. Pacific island names. *Bishop Mus. Misc. Publ.* **34**. 91 p.