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THE NATURAL HISTORY OF RENNELL ISLAND  
BRITISH SOLOMON ISLANDS

VOLUME 5

60. ADDITIONS OF THE LAND AND  
FRESHWATER MOLLUSCA  
OF RENNELL ISLAND, SOLOMON ISLANDS

BY

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# THE NATURAL HISTORY OF RENNELL ISLAND, BRITISH SOLOMON ISLANDS

Scientific Results of the Danish Rennell Expedition, 1951  
and the British Museum (Nat. Hist.) Expedition, 1953

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60. ADDITIONS OF THE LAND AND  
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OF RENNELL ISLAND, SOLOMON ISLANDS

BY

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Prior to his participation in Cruise 7 of the R/V *Te Vega* Dr. TORBEN WOLFF made extensive collections of land and freshwater mollusks on Rennell Island in March 1965. Minor collections were also brought back from Rennell by the Danish Noona Dan Expedition.

Seven species were added to the land and freshwater mollusks of this small and rather remote island. Three of these seven species add new families, Tornatellinidae, Helixarionidae and Onchidiidae. This last family is composed of a few genera of shell-less, slug-like Pulmonata which are to be found in brackish water, mainly in tropical and temperate seas.

I have previously reported upon the land and freshwater mollusks of this remote island (CLENCH, 1958). Only the new localities are listed of species which were covered in my previous report.

Species with an asterisk (\*) indicate a new record for Rennell Island.

HELICINIDAE

*Sturanyella modesta* (Pfeiffer)

*Helicina modesta* Pfeiffer 1853, Proc. Zool. Soc. London, p. 52 (Tanna, New Hebrides).

*Sturanyella modesta* (Pfeiffer). CLENCH 1958, Nat. Hist. Rennell Isl., Brit. Solomon Is. 2: 159.

Remarks. Found mainly on leaves.

Specimens examined. Hutuna; Abagua Cave entrance.

*Palaeohelicina (Palaeohelicina) egregia* (Pfeiffer)

*Helicina egregia* Pfeiffer 1855, Proc. Zool. Soc. London, p. 118 (Wanderer Bay, Guadalcanal).

*Palaeohelicina (Palaeohelicina) egregia* (Pfeiffer). CLENCH 1958, Nat. Hist. Rennell Isl., Brit. Solomon Is. 2: 163.

Remarks. Found only on leaves.

Specimens examined. Hutuna.

## CYCLOPHORIDAE

### *Leptopoma* Pfeiffer

*Leptopoma* Pfeiffer 1847, Zs. Malakozool. 4: 47 [type species *Cyclostoma vitrea* Lesson (= *L. perlucida* Grateloup 1840, non *C. vitrea* Draparnaud 1801)].

### *Leptopoma (Leptopoma) perlucidum* (Grateloup)

*Cyclostoma perlucida* Grateloup 1840, Actes Soc. Linn. Bordeaux, 11: 442, pl. 3, fig. 13 (Manila, Philippine Islands).

Remarks. This is the species which has generally been called *L. vitreum* (Lesson) or *L. nitidum* Sowerby. (See CLENCH 1958, p. 164).

Specimens examined. Hutuna.

## PUPINIDAE

### *Pupina* Vignard

*Pupina* Vignard 1829, Ann. Sci. Nat. 18: 439 [type species, *Pupina kerandrenii*, monotypic].

### *Pupina (Pupina) keradreni* Vignard

*Pupina keradreni* Vignard 1829, Ann. Sci. Nat. 18: 439, pl. 11, fig. C (New Guinea).  
Specimens examined. Hutuna.

## ASSIMINEIDAE

### *Assiminea* Fleming

*Assiminea* Fleming 1828, History of British Animals, London, 5: 275 [type species, *Assiminea grayana* Fleming, monotypic].

### \**Assiminea (Crossilla) salomonensis* Friedrich

*Assiminea (Crossilla) salomonensis* Friedrich 1957, Archiv. f. Molluskenkunde 86: 96, text fig. (Lunga River, Guadalcanal, Solomon Islands).

Remarks. Two dead specimens were obtained which appear to be this species. They agree in all characters but size, these being smaller (2.5 mm in length). The holotype from the Lunga River is 3.5 mm in length.

Specimens examined. Hutuna.

## MELANIIDAE (THIARIDAE)

### *Melanoides* Olivier

*Melanoides* Olivier 1804, Voyage dans l'Empire Othoman 2: 40, footnote [type species, *Melanoides fasciolata* Olivier (= *Nerita tuberculata* O. F. Müller, monotypic)].

*\*Melanoides tuberculata truncatula* (Lamarck)

*Melania truncatula* Lamarck 1822, Animaux sans Vertèbres 6, (2): p. 167 (rivers on the Island of Timor).

Remarks. A subspecies of wide distribution, extending from southeast Asia to New Caledonia.

Specimens examined. Hutuna.

ELLOBIIDAE

*Melampus* Montfort

*Melampus* Montfort 1810, Conchyliologie Systématique, Paris, 2: 318 [type species, *Bulimus coniformis* Bruguière, original designation (= *Melampus coffeus* (Linnaeus))].

*\*Melampus luteus* (Quoy & Gaimard)

*Auricula lutea* Quoy & Gaimard 1832, Voyage de l'Astrolabe, Zoologie 2: 163, pl. 13, fig. 25-27 (Nanoun-ha Islet [Naun-ha] Vanikoro [Santa Cruz Islands]).

Specimens examined. Onegaghugha, Hutuna.

*Pythia* Röding

*Pythia* Röding 1798, Museum Boltenianum, Hamburg, p. 105 [type species, *Pythia helicina* Röding (= *P. scarabaeus* (Linnaeus)) monotypic].

This genus is sadly in need of a complete revision. Many of the names appear to be based upon immature growth stages.

*Pythia scarabaeus* (Linnaeus)

*Helix scarabaeus* Linnaeus 1758, Systema Naturae, ed. 10, p. 768 (Asiae montibus).

Specimens examined. Hutuna; Kagaba; Abagua Cave entrance.

*\*Pythia argenvillei* Pfeiffer

*Pythia argenvillei* Pfeiffer 1853, Zs. Malakozool. 10: 191 (coast of northern Australia). [PFEIFFER'S description only. The plate reference to D'ARGENVILLE 1757, pl. 9, fig. T is not *argenvillei*].

Specimens examined. Hutuna.

ONCHIDIIDAE

*Onchidina* Semper

*Onchidina* Semper 1882, Reisen Archipel Philippinen 3: 287 [type species, *Onchidina australis* Semper, monotypic].

*Oncidina* "Semper" Plate 1893, Zool. Jahr. Anat. 7: 101 [Emendation for *Onchidina*].

\**Onchidina australis* Semper

*Onchidina australis* Semper 1882, Reisen Archipel Philippinen 3: 287, pl. 19, fig. 11, 14-15; pl. 21, fig. 27; pl. 23, fig. 10 (Brisbane [Queensland] Australia, here selected).

Remarks. SEMPER gave four localities for the type series of this species. Brisbane, Australia; South Seas; Fiji Islands and East Coast of Africa. We here restrict the type locality to Brisbane as it was the only specific locality mentioned.

Specimens examined. Hutuna.

SUCCINEIDAE

*Papusuccinea* Iredale

*Papusuccinea* Iredale 1941, Austr. Zool. 10: 63 [type species, *Succinea simplex* "Pfeiffer" Hedley 1891, (= *S. strubelli* Strubell); non PFEIFFER 1755].

*Papusuccinea simplex* (Pfeiffer)

*Succinea simplex* Pfeiffer 1854 [1855], Proc. Zool. Soc. London, p. 123 (Solomon Islands).

Specimens examined. Hutuna.

TORNATELLINIDAE

*Lamellidea* Pilsbry

*Lamellina* Pease 1860 [1861], Proc. Zool. Soc. London, 28: 439 [type species, *Lamellina serrata* Pease, monotypic]; non BORY DE SAINT VINCENT 1826.

*Lamellidea* Pilsbry 1910, Nautilus 23: 123 [type species, *Pupa peponum* Gould, subsequent designation, PILSBRY & COOKE 1916]; COOKE & KONDO 1960, Bull. B.P. Bishop Mus. 221: 178.

\**Lamellidea (Lamellidea) solomonensis* Dell

*Lamellidea (Lamellidea) solomonensis* Dell 1955, Pac. Sci. 9: 357, text fig. 1 (Savo Island, Solomon Islands).

Remarks. This species is now known from Florida, Rennell, Savo and Santa Ana Islands. In error, I recorded this species as *Tornatellina microstoma* Q. & M. (1958, p. 173), and SOLEM (1960, p. 40) recorded it from Florida Island as *Lamellidea pusilla* Gould on the basis of KONDO's determination. Later, however, COOKE & KONDO (1960, p. 184) published *L. solomonensis* as an accepted species.

Specimens examined. Hutuna.

PUPILLIDAE

*Gastrocopta* Wollaston

*Gastrocopta* Wollaston 1878, Testacea Atlantica, London, p. 515 [type species, *Pupa acarus* Benson, subsequent designation, PILSBRY 1916].

*Gastrocopta pediculus* (Shuttleworth)

*Pupa pediculus* Shuttleworth 1852, Mitt. naturf. Gesellsch., Bern, p. 296 (Marquesas and Tahiti).

*Gastrocopta pediculus* (Shuttleworth). PILSBRY 1917, Man. Conch. (2) **24**: 145, pl. 25, fig. 1-3, 5-8, 12-15.

Specimens examined. Hutuna.

SUBULINIDAE

*Lamellaxis* Strebel & Pfeiffer

Subgenus *Allopeas* H. B. Baker

*Allopeas* H. B. Baker 1935, Nautilus **48**: 84 [type species, *Lamellaxis gracilis* (Hutton) original designation].

*Lamellaxis (Allopeas) gracilis* (Hutton)

*Bulimus gracilis* Hutton 1834, Asiatic Soc. Bengal **3**: 93 (Mirzapur, India).

*Opeas gracile* (Hutton). PILSBRY 1906, Man. Conch. (2) **18**: 125, pl. 18, fig. 3-6.

Remarks. For a complete account of this species, see PILSBRY above. He considers this Asiatic species to be the most widely distributed land snail in the world. It is found in the tropics and temperate areas in both hemispheres. Its wide distribution has been made possible by transportation on plants and other miscellaneous cargo from one region to another.

Specimens examined. Hutuna.

ARIOPHANTIDAE

*Quirosella* Clench

*Quirosella* Clench 1958, [Nat. Hist. Rennell Isl., Brit. Solomon Isl. **2**: 175 [type species, *Quirosella coultasi* Clench, original designation].

*Quirosella coultasi* Clench

*Quirosella coultasi* Clench 1958, Nat. Hist. Rennell Isl., Brit. Solomon Is. **2**: 175, pl. 18, fig. 1-2; text fig. 2 (Rennell Island, Solomon Islands).

Specimens examined. Hutuna; Kagaba.

*Quirosella wolffi* Clench

*Quirosella wolffi* Clench 1958, Nat. Hist. Rennell Isl., Brit. Solomon Is. **2**: 176, pl. 18, fig. 3 (Teabamagu, Rennell Island, Solomon Islands).

Specimen examined. Abagua Cave entrance.

*Quirosella knudseni* Clench

*Quirosella knudseni* Clench 1958, Nat. Hist. Rennell Isl., Brit. Solomon Is. **2**: 177, pl. 3, fig. 4; text fig. 2-3 (Teabamagu, Rennell Island, Solomon Islands).  
Specimens examined. Hutuna; Kagaba; Abagua Cave entrance.

TROCHOMORPHIDAE

*Trochomorpha* Albers

*Trochomorpha* Albers 1850, Die Helicien, Berlin, p. 116 [type species, *Nanina trochiformis* Férussac, subsequent designation, v. MARTENS 1860].

Subgenus *Lentitrochus* H. B. Baker

*Lentitrochus* H. B. Baker 1941, Bull. B.P. Bishop Mus. **166**: 286 [type species, *Trochomorpha sanctaeannae* E. A. Smith, original designation].

*Trochomorpha floridensis* Clapp

*Trochomorpha floridensis* Clapp 1923, Bull. Mus. Comp. Zool. **65**: 367 (Florida Island, Solomon Islands).  
Specimens examined. Abagua Cave entrance.

HELIXARIONIDAE

*Helixarion* Férussac

*Helixarion* Férussac, 1821, Tableaux Systématiques des Animaux Mollusques (Pro-drome) Paris, p. 19 or 23,<sup>1</sup> [type species, *Helixarion cuvieri* Férussac, subsequent designation, GRAY 1847].

*Helicarion* Férussac 1822, *Ibid.* tabl. p. XXXI.

\**Helixarion malaitaensis* Clapp

*Helicarion*<sup>2</sup> *malaitaensis* Clapp 1923, Bull. Mus. Comp. Zool. **65**: 353, pl. 1, fig. 1-5, text fig. 2, (Auki, Malaita Id., Solomon Ids. [Holotype, MCZ 36225]).

Remarks. The shell is somewhat smaller than specimens from Malaita, but all other characters appear to be identical.

Specimens examined. Hutuna.

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1. According to SHERBORN (1922) there were two printings of the Tableaux, one in January and the second in June. The June printing lacked four pages of the "avertissement" and so the entire pagination was changed by four pages.
  2. FÉRUSSAC used two spellings for this genus, *Helixarion* 1821 and *Helicarion* 1822.

PARTULIDAE

*Partula* Férussac

Subgenus *Rennellia* Clench

*Rennellia* Clench 1941, Amer. Mus. Novit. no. 1129, p. 20 [type species, *Partula* (*Rennellia*) *cramptoni* Clench, original designation].

*Partula* (*Rennellia*) *cramptoni* Clench

*Partula* (*Rennellia*) *cramptoni* Clench 1941, Amer. Mus. Novit. no. 1129, p. 20, fig. 13 (Rennell Island, Solomon Islands).

Specimens examined. Hutuna.

CAMAENIDAE

*Crystallopsis* (*Cristovalala*) *rennellensis* Clench

*Crystallopsis* (*Cristovalala*) *rennellensis* Clench 1958, Nat. Hist. Rennell Isl., Brit. Solomon Is. 2: 190, pl. 16, fig. 2, text fig. 2-3 (Niupani, Rennell Island, Solomon Islands).

Specimens examined. Hutuna.

*Eustomopsis* *bellonensis* Clench

*Eustomopsis* *bellonensis* Clench 1958, Nat. Hist. Rennell Isl., Brit. Solomon Is. 2: 196, pl. 19, fig. 1-3; text fig. 2, no. 4 (Bellona Island, Solomon Islands).

Specimens examined. Hutuna; Abagua Cave entrance.

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