

SYNONYMY OF AND REMARKS UPON TASMANIAN AND OTHER SHELLS, WITH THEIR GEOGRAPHICAL DISTRIBUTION.

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1. HELIX (PITYS) GUNNII.

Helix (PITYS) *assimilis*, Brazier. Proc. Zool. Soc. London, 1871, p. 697.

” ” ” ” ” In Legrand's second edition of Catalogue Tasmanian Land Shells, August, 1871, sp. 66.

Helix assimilis (PITYS). Pfr. in Monog. Hel. Viv. 1875; vol. VII., p. 166. Hab., near Hobart Town; Mr. Petterd.

I find that Mr. H. Adams described, in the Proc. Zool. Soc., 1866, p. 316, a *Helix assimilis* from Formosa. I have changed my specific name as above in honor of Mr. Ronald Gunn, whose exertions in the cause of science have made us acquainted with many new and rare specimens of natural history from Tasmania.

2. HELIX (PITYS) LUCKMANII.

Helix (*Charopa*) *neglecta*, Brazier. Proc. Zool. Soc. London, 1870, p. 660.

” (*Pitys*) *neglecta*, Brazier in Legrand's Coll. for Mon. Tasmanian Land Shells, sp. 47.

Helix neglecta (CHAROPA). Pfr. in Monog. Hel. Viv., 1875; Vol. VII., p. 149. Hab., Knocklofty, and Old Mill, Hobart Town; Mr. Petterd. Foot of Mount Nelson; Mr. Legrand.

Helix neglecta pre-occupied by Draparnaud for an European species. Name changed as above in honor of Mr. Luckman, who appears to have done some collecting in Tasmania for the benefit of science.

3. HELIX (PITYS) COLLISI.

Helix minima (*Hyalina*) Cox. Monog. Aust. Land Shells, 1868, p. 10, pl. XII., fig. 8.

Helix (*Hyalina*) *minima*, Cox. In Legrand's Coll. for Mon. Tasmanian Land Shells, 1871, sp. 10.

Helix minima (*Hyalina*). Pr. in Monog. Hel., Viv. 1875; vol. VII., p. 181. Hab., Mount Wellington; Mr. Masters.

Helix minima pre-occupied by H. Adams, Proc. Zool. Soc., 1867, p. 303, species from Island of Mauritius. The Tasmanian species I have named as above.

4. CYPRÆA UMBILICATA.

- Cypræa umbilicata*, Sowerby. Tank. Cat. p. 30, pl. 7.
 " " Thes. Conch., vol. IV., p. 21,
 Cypræ, pl. VII., fig. 42.
Cyprovula umbilicata, Gray. Proc. Zool. Soc. London,
 1849, p. 125.
 " " Angas. Proc. Zool. Soc. London,
 1867, p. 205.
 " " Brazier. Proc. Zool. Soc. London,
 1872, p. 85.

Hab., 25 miles off the coast of New South Wales, between Montague Island and Twofold Bay, brought up from the great depth of 1,900 fathoms, one specimen was obtained by Professor (now Sir) C. Wyville Thomson, in the voyage of H.M.S. Challenger, from Melbourne to Sydney. The specimen was smaller and paler in colour, than any I have ever seen from Tasmania.

5. SCAPHA MAMILLA.

- Voluta mamilla*, Gray, Sowerby. Thes. Conch., vol. I., plate
 L., fig. 57, 58.
 " " Reeve. Conch., Icon., pl. XIX., sp. 44.
Scapha mamilla, Gray. Proc. Zool. Soc., London, 1855,
 p. 55.
Cymbium mamilla, Chenu., Manuel de Conch., 1859, tome.
 1, p. 186, fig. 942.
Mamillana mamilla, Crosse. Journal de Conch., 1871, vol.
 XIX., p. 308.
Scapha mamilla, Brazier. Proc. Zool. Soc. London, 1872,
 p. 23.

Hab., Lake Macquarie, New South Wales, found on the beaches after easterly gales; Brazier.

I have seen it recorded as being found at Black River Beach, the Duck River, Port Sorell, and other localities included between Circular Head and the Tamar in Tasmania.

6. VOLUTELLA PAPILLOSA.

- Voluta papillosa*, Swainson, in Appendix to Bligh's Catalogue.
 " " Sowerby, Thes. Conch., vol. I., p. 207, pl.
 XLVII., fig. 30.
 " *papillaris*, Reeve. Conch., Icon., pl. IV., sp. 10.
Scaphella papillaris, Swainson, Malacology, part I., page
 108, fig. 12a.
 " *papillosa* " " part II., page
 308.
Volutella " Gray. Proc. Zool. Soc. 1855, pl. 63.
Voluta (Alcithoe) papillosa, Crosse. Journal de Conch., 1871,
 vol. XIX., p. 297.

Hab., 25 miles off the coast of New South Wales between Montague Island and Twofold Bay, brought up in the dredge with *Cypræa umbilicata*, from 1,900 fathoms. Encounter Bay, South Australia; Mr. G. F. Angas. Black River Beach to the Duck River, and sometimes in the vicinity of the Tamar Heads, North Tasmania.

7. VOLUTELLA FUSIFORMIS.

- Voluta fusiformis*, Swainson, in Appendix to Bligh's Catalogue.
 " " Sowerby. Thes. Conch., vol. I. p. 208, pl. LIV., fig. 100.
 " " Reeve. Conch. Icon., pl. III., sp. 6.
Scaphella fusiformis, Swainson. Malacology, part I., p. 108, 318.
Scapha fusiformis, Gray. Proc. Zool. Soc., 1855, p. 58.
 " " Angas. " " " 1864.
Voluta (Alcithoe) fusiformis, Crosse. Journal de Conch., 1871, vol. XIX., p. 296.

Hab., Broken Bay, New South Wales, found on the beaches after gales. The specimens found are larger and otherwise distinct from the specimens from the Black River Beach, Tasmania.

8. SCAPHELLA ANGASI.

- Voluta Angasi*, Sowerby. Thes. Conch., vol. III., p. 271., and vol. I., pl. XLVIII., fig. 29.
 " (*Amoria*) *Angasi*, Angas. Proc. Zool. Soc., 1867, p. 193.
 " " " Crosse, Journal de Conch., 1871, vol. XIX., p. 289.

Hab., $3\frac{1}{2}$ miles east of Port Jackson Heads in 45 fathoms hard sand bottom. Middle Harbour, Port Jackson, Lake Macquarie at Moon Islet, Port Stephens on the North of Sydney; Brazier. Corner Inlet, Victoria; Mr. R. C. Rossiter. The home of this species appears to be from Circular Head to the mouth of the River Tamar.

I consider all these so-called species to be only local varieties of *Voluta undulata*, Lam; = var. *Angasi*, Sowb.; = var. *Australiae*, Cox; = var. *Kingi*., Cox; = var. *Sclateri*, Cox.

9. VOLUTA SOPHIA. GRAY.

I found at Warrior Reef on the sands, and at 30 fathoms, Darnley Island, Torres Straits, var. of *Voluta Norrisi*, Sowb., from Nichol Bay; Camden Harbour and Tien Tsin Passage; North West Coast of Australia.

10. VOLUTA TURNERI. GRAY.

North Australia. = Var. *Ellioti*, Sowb.; = var. *Jamracki*, Gray; from North West Coast of Australia.

11. VOLUTA PULCHRA. SOWB.

= Var. *Wisemani*, Brazier, from North East Australia.

12. VOLUTA PIPERITA. SOWB.

Typical, Rubiana, Solomon Islands. = Var. *Ruckeri*, Crosse, from Florida, Savu, Ysabel, Rubiana, Shortland and Bougainville Islands, Solomon's Archipelago. = Var. *Macgillivrayi*, Cox, from Woodlark Island, east side of the fork of New Guinea. Specimens in Australian Museum named *piperita* by Mr. G. F. Angas when Secretary.

13. VOLUTA RETICULATA. REEVE.

= Var. *Reevei*, Sowb., from Ashburton River and Tien Tsin Creek, North West Australia.

14. VOLUTA RUTILA. BRODERIP.

From Darnley Island, Torres Straits. = Var. *innexa*, Reeve, from Louisiade Islands, near the south fork of New Guinea.

15. VOLUTA FLAVICANS. GMELIN.

From Katow, New Guinea. = Var. *volvacea*, Lam.; = var. *lugubris*, Swainson; = var. *modesta*, Wood; = var. *signifer*, Broderip; = var. *Tissotiana*, Crosse, from Port Essington and Liverpool River, North Australia.

16. VOLUTA HARFORDI. COX.

= *Voluta canaliculata*, McCoy, one and the same species.

A fine living specimen was dredged by Commodore (now Admiral) Loring, at Broad Sound, North East Australia, when in command of H.M.S. Iris, it was found packed up in the collection with other shells from the same place by Mr. Angas in 1872. The locality given by Dr. Cox, when describing it from specimens received from Tasmania, and said to have come from Wreck Reefs, Bird Island, near Lady Elliott Island, is quite a novelty for geographers; I find Lady Elliott Island is just inside the Great Barrier Reef in a direct line with Roundhill Head, near Harvey's Bay, on the North East Coast of Australia. Wreck Reefs are 300 miles outside the barrier, about E.N.E. of Lady Elliott Island. Professor McCoy, when describing specimens received from the same person from whom Dr. Cox obtained his, gives Port Denison, Queensland, as a habitat for this shell. I doubt very much its being found so far north.

17. CALLISTA VICTORIÆ.

Callista victoriæ, Woods. Proc. Royal Soc. Tas. 1875, p. 27.

Hab., Lake Macquarie and Port Stephens, New South Wales, found in a living state on the sand beaches after heavy

weather. The Rev. J. E. Tenison-Woods records it from Cloudy Bay on the south of Bruny Island, Tasmania. I have received dead and worn valves from Cloudy Bay.