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THE PROCEEDINGS

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WITH FIFTY PLATES.

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muzzle of the *Ornithorhynchus*. As matter of fact the skin of the snout of both young and adult *Ornithorhynchi* possesses a stratum corneum which is only *moderately* thick, which is as soft and flexible as epidermis elsewhere, whose cell-outlines and nuclei remain distinct right to the surface and which is traversed by innumerable sweat-ducts and the delicate tactile rod-organs. In view of these characters and in the absence of any special physico-chemical transformation of the tissue, as distinct from what occurs in the general epidermis, *e.g.*, of a dog's nose or of the human hand or foot, I can see no purpose or meaning in retaining the old and thoroughly misleading idea of the "horny" character of the "beak" of the "duck-billed platypus."

The special histological characters of the caruncle will be treated of in a future publication.

EXPLANATION OF PLATE.

Fig. 1.—"Mammary foetus" of *Ornithorhynchus anatinus*. Life size. Ventral aspect.

Fig. 2.—The same. Life size. Lateral aspect.

Fig. 3.—The same. $\times 3$ diams. Ventro-lateral aspect (right).

ON SOME AUSTRALIAN AND TASMANIAN MOLLUSCA, WITH THEIR SYNONYMS.

BY JOHN BRAZIER, F.L.S., C.M.Z.S.

In this paper I have endeavoured to correct and clear up the specific names of numerous species that have been described by the late Rev. J. E. Tenison-Woods, Mr. W. F. Petterd and myself.

A large number of Tasmanian species are identical with those found in South Australia, Victoria, and on the east coast of New South Wales.

I am under very great obligation to my friends Lieutenant C. E. Beddome and Miss Mary Lodder of Tasmania for their kindness in forwarding me their type specimens for examination and comparison with those of Australia.

1. COLUMBELLA (*ATILIA*) *ATTENUATA*, Angas.

1871. *Columbella (Mitrella) attenuata*, Angas, Proc. Zool. Soc. p. 14, Species 4, pl. 1, fig. 4.

1883. *Columbella (Atilia) attenuata*, Tryon, Manual of Conchology, Vol. v. p. 151, pl. 53, fig. 18.

1884. *Terebra Beddomei*, Petterd, Journal of Conchology, Vol. iv. No. 5, p. 142, No. 28.

1885. *Terebra Beddomei*, Tryon, Man. Conch. Vol. vii. p. 40.

Hab.—Sow and Pigs Reef, Port Jackson, 4 fathoms, Green Point, 8 fathoms, sand and shells (*J. Brazier*, 1864); Middle Harbour, in shell sand and shingle, Maroubra and Long Bays, near Sydney (*A. U. Henn*); Brown's River, Tasmania (*C. E. Beddome and W. F. Petterd*).

This is another variable species sometimes of a shining brown with a pale band at the sutures; others are finely mottled with network. Having Mr. Petterd's types before me from Mr. Beddome, I find that *Columbella attenuata*, Angas, is identical with Petterd's *Terebra Beddomei*.

2. NATICA BEDDOMEI, R. M. Johnston.

1877. *Natica polita*, Tenison-Woods, Proc. Royal Soc. Tasmania, "Census; with Brief Description of the Marine Shells of Tasmania," p. 32 (non *Natica polita*, 1875).
1884. *Natica Beddomei*, Johnston; Tate, Proc. Royal Soc. Tasmania, p. 208.
1884. *Natica Beddomei*, Johnston, Proc. Royal Soc. Tasmania, p. 222.
1886. *Natica Beddomei*, Johnston; Tryon in Man. Conch, Vol. viii. p. 54.
1886. *Natica effossa*, Boog Watson, Report on the Gasteropoda, Voyage of H.M.S. "Challenger," Zoology, Vol. xv. pp. 439, 704-706, Pl. xxviii. fig. 3.
1893. *Natica Beddomei*, Tate, Proc. Royal Soc. South Australia, Vol. xvii. p. 325.
1893. *Natica Beddomei*, Adcock, "A Hand List of the Aquatic Mollusca of South Australia," p. 6, No. 168.
- Hab.*—Bruni Island, Tasmania (Rev. H. D. Atkinson, W. Legrand, W. F. Petterd, C. E. Beddome): South Australia (Professor Tate): Station 161, April 1st, 1874, lat. 38° 22' 30" S., long. 114° 36' 30" E., off the entrance to Port Phillip, Melbourne, 33 fathoms, sand; Station 163 B, June 3, 1874, lat. 33° 51' 15" S., long. 151° 22' 15" E.; Port Jackson, Sydney, 30 to 35 fathoms, hard ground bottom; temperature 63° Fahr. (H.M.S. Challenger); off Port Jackson Heads, 5 miles due east, 45 fathoms, June 3, 1874, found with *Typhis Cleryi*, Sowerby (J. Brazier).

The first specimen that I saw of this species was sent to me by Mr. W. F. Petterd as far back as 1870, and since that I have

seen numerous examples from Tasmania. The Rev. Tenison-Woods described a fossil form from Table Cape, Tasmania, in 1875 under the name of *Natica polita*; he had seen the species now known as *Natica Beddomei*, but erroneously supposed the recent form to be the same as the fossil. Both Professor Tate and Mr. Johnston agree that the recent form should be separated from the fossil; both species have a very deep suture, but in the living mature form the number of whorls is invariably $3\frac{1}{2}$ to 4. The only figure of this species is that given by Dr. Boog Watson in the "Challenger" Report, Vol. xv. Pl. xxxvii. fig. 3, under the name of *Natica effossa*. There appear to be some discrepancies in the "Challenger" Reports regarding the various depths; for instance, we find Port Jackson, Sydney, 30 to 35 fathoms; these depths are outside of Port Jackson Heads. Very few writers trouble themselves to look up the Admiralty Charts and prick off the latitude and longitude.

3. TEREBRA (EURYTA) HARRISONI, Tenison-Woods.

1863. *Euryta pulchella*, Ad. and Angas, Proc. Zool. Soc. p. 418, pl. 37, fig. 14 (non *Terebra pulchella*, Desh.).
1865. *Euryta pulchella*, Angas, Proc. Zool. Soc. "Molluscan Fauna of S.A." p. 169, No. 81.
1875. *Euryta Brazieri*, Angas, Proc. Zool. Soc. p. 390, Pl. xlv. fig. 5, 5a (non *Terebra Brazieri*, 1871).
1877. *Mangelia Harrisoni*, Tenison-Woods, Proc. Royal Soc. Victoria, p. 56.
1884. *Daphnella Harrisoni*, Tryon, Man. Conch. Vol. vi. p. 306.
1885. *Terebra (Euryta) Angasi*, Tryon, *loc. cit.* Vol. vii. p. 38, pl. 12, fig. 26.
1886. *Terebra (Euryta) Angasi*, Tryon; Tate in Southern Science Record, p. 4.
1887. *Plurôtoma (Cithara) Harrisoni*, Gatliff in Victorian Naturalist, "List of some of the Shells of the Marine Mollusca found on the Victorian Coast," Vol. iv. No. 4, p. 59.

1893. *Euryta Angasi*, Tryon; Adcock, "A Hand List of the Aquatic Mollusca of S.A." p. 5, No. 125.

Hab.—Rapid Bay, South Australia, deep water (*G. French Angas*); South Australia (*Professor Tate and Adcock*); off Port Jackson Heads, 25 fathoms, sand floor (*J. Brazier*, 1874); Clark Island, Victoria (*Tenison-Woods*); Victoria (*J. H. Gatliff*); Port Stephens, N.S.W., on the ocean beaches after heavy weather; and in beach shingle and sand at Edward's Beach, Middle Harbour.

This species was first named by Adams and Angas *Euryta pulchella*; the specific name being already in use in *Terebra* by Deshayes, Mr. Angas in 1875 redescribed it from specimens that I sent him, under the name of *E. Brazieri*, he having already in 1871 named a *Terebra Brazieri*. Tenison-Woods in 1877 called it *Mangelia Harrisoni*. Mr. Tryon in 1885 renamed it *Terebra (Euryta) Angasi*. Mr. J. H. Gatliff of Melbourne sent me specimens in 1885, to have the name confirmed; at the time I wrote him out the history of the species, but in his list of the Victorian Mollusca he places it in *Peurotoma*; it should be placed in the subgenus *Euryta* of *Terebra*; it is named in the Melbourne Museum by Tenison-Woods *Mangelia Harrisoni*; I have compared it with specimens from New South Wales. Woods' specific name must stand for this species.

4. TRIFORIS SCITULUS, A. Adams.

1851. *Triforis scitulus*, A. Ad., Proc. Zool. Soc. p. 278.

1878. *Triforis fasciata*, Tenison-Woods, Proc. Roy. Soc. Tasmania p. 34.

1887. *Triforis fasciata*, Tryon, Man. Conch. Vol. ix. p. 190.

1887. *Triforis scitulus*, Tryon, loc. cit. Vol. ix. p. 191.

1893. *Triforis scitula*, Adcock, A "Hand List of the Aquatic Mollusca of S.A." p. 7, No. 241.

Hab.—Port Lincoln, South Australia (*Cuming in British Museum*); Cook's landing place, south side of Botany Bay, found under stones at low water and in shell sand (*Brazier*, 1864).

Middle Harbour, in shell sand and beach shingle (*A. U. Henn* (*Brazier*)); North Tasmania (*Rev. H. D. Atkinson*); South Australia (*Professor Tate and D. J. Adcock*).

A white and brown species, with the middle row of nodules very prominent; though Mr. Angas had a large number of specimens from me, and duly returned some named *T. scitulus*, he never entered it in his List of Port Jackson Mollusca. The species is somewhat common on the coast of N.S.W. *T. fasciata*, Tenison-Woods, now before me from Mr. Beddome cannot be separated from the above species.

5. RISSOIA (APICULARIA) STRANGEI, Brazier.

1884. *Rissoia lineata*, Petterd, Journ. Conch. Vol. iv. No. 5, p. 137, Species 8 [January] (non *lineata*, Risso, 1826).

1894. *Rissoia (Apicularia) Strangei*, Brazier, Proc. Linn. Soc. N.S.W. Vol. ix. (Series 2nd) p. 173, Pl. xiv. fig. 11 (not 12 as quoted in the text).

Hab.—North Coast of Tasmania, on the underside of exposed rocks at low water (*W. F. Petterd*); Green Point, Watson's Bay, Port Jackson, found in an old bottle and under stones at low water spring tide (*A. U. Henn*); Edward's Beach, Middle Harbour, in shell sand and shingle (*Brazier*).

In the early part of the year I described this species under the name of *Rissoia Strangei*. Through the kindness of Mr. Beddome who sent me the greater part of his Tasmanian Mollusca to examine and compare with those of New South Wales, I found while comparing mine with Mr. Petterd's types that *R. lineata* is identical with my *R. Strangei*. The name of *R. lineata* being preoccupied by Risso in 1826, *Strangei* will be retained for the Tasmanian and Australian species.

6. RISSOIA (AMPHITHALAMUS) JACKSONI, Brazier.

1886. *Rissoia (Scrobs) badia*, Watson, Report on the Gasteropoda, Voyage of H.M.S. "Challenger," Zoology, Vol. xv. p. 612, Species 47, pl. 46, fig. 3 (non *Rissoia badia*, Petterd).